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Report No.: 0394/13/ED/0356A

**Monthly EM&A Report**

**March 2017**

**Client :** China International Water & Electric Corporation  
**Project:** Providing Sufficient Water Depth for Kwai Tsing Container  
Basin and its Approach Channel  
**Contract No.:** CV/2013/04  
**Report No.:** 0394/13/ED/0356A

Project Proponent:

Civil Engineering & Development Department  
101 Princess Margaret Road,  
Homantin,  
Kowloon, Hong Kong.

Prepared by: Wingo So

Reviewed by: Cyrus Lai

Certified by:



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Colin Yung  
Environmental Team Leader for  
MaterialLab Consultants Limited

Ref.: CEDDWKTBEM00\_0\_0315L.17

12 April 2017  
By Post and Fax (2419 6218)

Mott MacDonald Hong Kong Ltd.  
20/F, AIA Kowloon Tower,  
Landmark East,  
100 How Ming Street,  
Kwun Tong, Kowloon

Attention: Mr Chan T P, Pan, Engineer's Representative

Dear Mr Chan,

**Re: Agreement No. CE 63/2008 (CE)  
Dredging Works in Kwai Tsing Container Basin and its Approach Channel  
– Investigation, Design and Construction)**

**Contract No. CV/2013/04  
Dredging Works in Kwai Tsing Container Basin and its Approach Channel  
Verification of Monthly EM&A Report for March 2017**

Reference is made to the Environmental Team's submission of the Monthly Environmental Monitoring & Audit Report for March 2017 (ET's Report No. 0394/13/ED/0356A) received by e-mail on 12 April 2017.

We write to verify the captioned report in accordance with Condition 5.4 of EP-426/2011/A.

Thank you very much for your kind attention and please do not hesitate to contact our Mr Andy Wong or the undersigned should you have any queries.

Yours faithfully,  
For and on behalf of  
Ramboll Environ Hong Kong Limited



Y H Hui  
Independent Environmental Checker

Cc:	MMHK	Mr. C M Howley	2827 1823 (by fax)
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	CIWE	Mr. K.O. Leung and Mr. Lam Wai-hung	2419 6028 (by fax)

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## MATERIALAB CONSULTANTS LIMITED

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**EXECUTIVE SUMMARY**

- i. This is the Thirty Fifth Monthly Environmental Monitoring Audit (EM&A) Monthly Report – March 2017 for Contract No. CV/2013/04 – Dredging Works in Kwai Tsing and its Approach Channel (Agreement No. CE63/2008 – Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel). The dredging works commenced on 23 April 2014. This report presents the environmental monitoring and audit works conducted from 23 February 2017 to 22 March 2017.
- ii. Construction Activities for the Reporting Period  
During this reporting period, the principal work activities included:
- Preparation Works of Dredging at Portion A / Zone 2B1 and 2B2 in EP  
Note: Hotspot area was completed excepted hard materials and buffer zone was almost completed except known highspot and hard materials
- iii. Water Quality Monitoring  
Referring to the Proposal for Temporary Suspension of Impact Water Quality Monitoring (0394\_13\_ED\_0326F) which was submitted to EPD in August 2016 with no objection was received from EPD; removal of routine water quality monitoring stations at SR1 was effective from 24 December 2016.

Referring to the *Proposal on Removal of Some Water Quality Monitoring Stations After Resumption of Marine Construction Works (Dredging Works and Marine Works of the Northern Part of Kwai Tsing Container Basin Only)* (0394\_13\_ED\_0332I) which has been submitted to EPD and relevant parties in December 2016 with no objection, removal of routine water quality monitoring stations at SR6, SR7, SR8, SR9, SR10 and SR11 and 24 hour monitoring stations at SR9, SR10 and SR11 was effective from 23 January 2017. The setups of 24 hour monitoring stations at SR9, SR10 and SR11 were removed on 7 February 2017. Due to removal of some sensitive receivers in routine water quality monitoring, gradient stations G3, G5 and G6 were also be removed and gradient stations G1 and G4 replaced the previous control stations C1, C2 and C3 as C1A and C2A with reference to the approved proposal (0394\_13\_ED\_0332I) which was effective from 23 January 2017.

Routine impact water quality monitoring at 9 designated monitoring stations namely C1A, C2A, G2, SR2, SR3, SR4, SR5, SR12, SR13 were conducted during the reporting period. Exceedances of TIN (in-situ & lab) and SS were recorded at various monitoring stations, detail of exceedance are summarized in **Table I and II**. However, investigation indicated these exceedances were not related to the Project works.

**Table I Summary of Water Quality Exceedances – Routine Impact Monitoring (In-situ)**

Station	Exceedance Level	DO (S&M)		DO (B)		Turbidity		NH3-N		UIA		TIN		Total	
		E	F	E	F	E	F	E	F	E	F	E	F	E	F
SR2	Action	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	0	0	0	0	0	0	0	0	0	0	-	-	0	0
SR3	Action	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	0	0	0	0	0	0	0	0	0	0	-	-	0	0
SR4	Action	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	0	0	0	0	0	0	0	0	0	0	-	-	0	0
SR5	Action	0	0	0	0	0	0	-	-	-	-	2	1	2	1
	Limit	0	0	0	0	0	0	-	-	-	-	7	7	7	7
SR12	Action	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	0	0	0	0	0	0	0	0	0	0	-	-	0	0
SR13	Action	0	0	0	0	0	0	-	-	-	-	-	-	0	0
	Limit	0	0	0	0	0	0	-	-	-	-	-	-	0	0
Total	Action	0	0	0	0	0	0	0	0	0	0	2	1	3	
	Limit	0	0	0	0	0	0	0	0	0	0	7	7	14	

**Table II Summary of Water Quality Exceedances – Routine Impact Monitoring (Laboratory Analysis)**

Station	Exceedance Level	Suspended Solids		BOD <sub>5</sub>		<i>E. coli</i>		NH <sub>3</sub> -N		UIA		Synthetic Detergent		TIN		Total	
		E	F	E	F	E	F	E	F	E	F	E	F	E	F	E	F
SR2	Action	0	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0
	Limit	0	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0
SR3	Action	0	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0
	Limit	0	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0
SR4	Action	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	2	2	0	0	0	0	0	0	0	0	0	0	-	-	2	2
SR5	Action	0	0	-	-	-	-	-	-	-	-	-	-	2	1	2	1
	Limit	0	0	-	-	-	-	-	-	-	-	-	-	7	7	7	7
SR12	Action	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	1	1	0	0	0	0	0	0	0	0	0	0	-	-	1	1
SR13	Action	0	0	-	-	-	-	-	-	0	0	-	-	-	-	0	0
	Limit	0	0	-	-	-	-	-	-	0	0	-	-	-	-	0	0
Total	Action	0	0	0	0	0	0	0	0	0	0	0	0	2	1	3	
	Limit	3	3	0	0	0	0	0	0	0	0	0	0	7	7	20	

Among the 9 monitoring stations, supplementary 24-hr water quality monitoring was also conducted at 4 of the stations, which are SR4, SR5, SR12 and SR13. No exceedance was recorded in the reporting month. Number of exceedances recorded in the reporting month at each impact station is summarized in **Table III**.

**Table III Summary of the Exceedances Recorded in Reporting Month – 24-hr Monitoring**

Station	Exceedance Level	Turbidity	DO	NH <sub>3</sub> -N	Total
SR4	Action	0	0	0	0
	Limit	0	0	0	0
SR5	Action	0	0	-	0
	Limit	0	0	-	0
SR12	Action	0	0	0	0
	Limit	0	0	0	0
SR13	Action	0	0	-	0
	Limit	0	0	-	0
Total	Action	0	0	0	0
	Limit	0	0	0	0

**iv. Waste Management**

No inert or non-inert C&D material related to dredging works was disposed and a small amount of general refuse were disposed off site in the reporting month.

**v. Non-Compliance, Complaints, Notifications of Summons and Successful Prosecutions**

No complaint, notification of prosecutions or summons was received in the reporting period.

**vi. Site Inspections and Audit**

The Environmental Team conducted 4 site inspections in the reporting period. No particular observation was recorded in the reporting month except contractor was reminded to close the door of engine room to reduce the noise emission if the engine is operating.

**vii. Compliance with Specific EP conditions**

Implementation of contractor's mitigation for waste management and preparation works and other general site practice were checked. It was concluded that the project in compliance with the EP requirements on site mitigation measures in general.

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viii. Construction Activities for the Coming Reporting Period

During the coming reporting period, the principal work activities included:

- Preparation Works of Dredging at Portion A / Zone 2B1 and 2B2 in EP
- Dredging at Portion A / Zone 2B1, 2B2 and Zone 2C1 in EP

Future Key Issues include:

- Regular inspection on silt curtain deployment
- Regular inspection on silt screen deployment
- Implementation of EM&A Programme
- Maintain dredging below allowable dredging rate in EP.
- Cleaning of excess material from the decks and exposed fittings of barges and dredgers before the vessel is moved.
- Barge loading shall be monitored to ensure material is not lost during transportation.
- Conditions in dumping permit shall be followed strictly.

## **1. INTRODUCTION**

### **1.1 Background**

- 1.1.1 The Project objective is to dredge approximately 4.0 million cubic metres of sediment from the seabed of Kwai Tsing Container Basin, as well as portions of Northern Fairway and Western Fairway, to provide sufficient depth of container basin and approach channel to Kwai Tsing Container Terminal (KTCT) for the safe navigation of Ultra Large Container Ships (ULCS).
- 1.1.2 The environmental monitoring and audit works of this Project is governed by Environmental Permit (EP) No. EP-426/2011/A, EM&A Manual (AEIAR-156/2010) and EM&A TIN (EPD Letter Ref: (34) in Ax(1) to EP2/N3/C/57Pt.7)).
- 1.1.3 The project proponent was the Civil Engineering & Development Department, HKSAR (CEDD). The Project General Layout is shown in **Figure 1**.
- 1.1.4 Mott MacDonald Hong Kong Ltd. (MMHK) was commissioned by CEDD as the Engineer for the Project. Ramboll Environ Hong Kong Limited (REHK) was employed as the Independent Environmental Checker (IEC) in the Project.
- 1.1.5 China International Water & Electric Corporation Limited (CIWE) was appointed as the main contractor for the dredging works.
- 1.1.6 MaterialLab Consultants Limited (MCL) was appointed as the Environmental Team (ET) to implement the Environmental Monitoring and Audit (EM&A) programme for the Project.
- 1.1.7 The construction phase of the Project under the EP was commenced on 23 April 2014. The impact EM&A programme of the Project commenced on 23 April 2014.

### **1.2 Purpose of the Report**

- 1.2.1 This Thirty Fifth Monthly EM&A Report is prepared by MCL. This report presents a summary of the environmental monitoring and audit works, list of activities and mitigation measures proposed by the ET for the Project in 23 February 2017 to 22 March 2017.

### **1.3 Structure of the Report**

- 1.3.1 The structure of this report is as follows:

- Section 1: Introduction, including background, purpose and structure of the report
- Section 2: Basic Project Information – summaries background and scope of the Contract, site description, project organization and contract details, construction programme, the construction works undertaken and the status of Environmental Permits/Licenses during the reporting period.
- Section 3: Routine Impact Water Quality Monitoring – summaries the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequency,



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monitoring locations, Action and Limit Levels, monitoring results and Event / Action Plans.

- Section 4: 24-hr Water Quality Monitoring – summaries the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequency, monitoring locations, Action and Limit Levels, monitoring results and Event / Action Plans.
- Section 5: Environmental Site Inspection – summaries the audit findings of the weekly site inspections undertaken within the reporting period.
- Section 6: Exceedance of the environmental parameters – summaries any monitoring exceedance within the reporting period.
- Section 7: Non-Compliance, Complaints, notifications of summons and Prosecution – summaries any environmental complaints, environmental summons and successful prosecutions within the reporting period.
- Section 8: Conclusions and Recommendation

## 2. BASIC PROJECT INFORMATION

### 2.1 Project Organizations

2.1.1 The Project Organization structure is shown in **Appendix A**. The key personnel contact names and numbers are summarized in **Table 2.1**.

**Table 2.1 Key Personnel Contact of the Contract**

Party	Position	Name	Telephone	Fax
Engineer's Representative (MMHK)	Resident Engineer	*Mr. Pan Chan	2419 6008	2419 6218
Independent Environmental Checker (REHK)	Independent Environmental Checker	Mr. YH Hui	3465 2888	3465 2899
Contractor (CIW&E)	Site Agent	Mr. KO Leung	2419 6008	2419 6218
	Environmental Officer	Mr. WH Lam	2419 6008	2419 6218
Environmental Team (MCL)	Environmental Team Leader	Mr. Colin Yung	3565 4114	3565 4160

Remark:

\*Ir Felix Chau left his position for this Contract since 1 March 2017. His role was replaced by Mr. Pan Chan with effective from 1 March 2017.

### 2.2 Construction Programme

2.2.1 The construction phase of the Project under the EP commenced on 23 April 2014.

2.2.2 The construction programme of the Project is shown in **Appendix B**.

2.2.3 The environmental mitigation measures implementation schedule is presented in **Appendix J**.

### 2.3 Works undertaken during the month

During this reporting period, the principal work activities included:

- Preparation Works of Dredging at Portion A / Zone 2B1 and 2B2 in EP

Note: Hotspot area was completed excepted hard materials and buffer zone was almost completed except known highspot and hard materials

### 2.4 Status of Environmental Licences, Notification and Permits

2.4.1 A summary of the relevant permits, licences and/or notifications on environmental protection for this Contract is presented in **Table 2.2**.

**Table 2.2 Status of Environmental Licenses, Notification and Permits**

Permit / Direction / License	Ref No	Valid From	Valid Till
Notification pursuant to Air Pollution (Control Dust) Regulation	Not Required		
Billing Account for Waste Disposal (Land Vehicle/ Dump Truck)	7018156	5/9/2013	Upon Completion
Billing Account for Waste Disposal (Vessels to Tuen Mun 38 Fill Bank)	7026587	20/2/2017	13/5/2017
Construction Noise Permit Portion A (Area A3) (PME listed in condition 3a shall only be operated. General Holidays including Sunday 07:00 – 23:00. Any day other than a general holiday including Sunday 19:00 – 23:00)	GW-RW0013-17	19/1/2017	18/7/2017
Marine Dumping Permit Portion A Type 1 Open Sea Disposal (Dedicated Site)	EP/MD/17-167	1/2/2017	28/2/2017
Type 2 Confined Marine Disposal <i>East of Sha Chau Contaminated Mud Pit (CMP Vd) as directed by management team of CEDD</i>	EP/MD/17-183	1/3/2017	31/3/2017
Marine Dumping Permit Portion A Type 1 Open Sea Disposal <i>An area of South Cheung Chau Open Sea Sediment Disposal Area denoted "KTCB" as shown in the chartlet (Drawing no. MFC/002-KTCB-A-R1)</i>	EP/MD/17-151	30/12/2016	29/6/2017
Waste Producer License	5213-320-C3907-01	27/10/2014	Upon Completion

Note: Only preparation works for dredging was carried out in the reporting month and no marine sediment was disposed in the reporting month.

## 2.5 Summary of EM&A Programme Requirements

2.5.1 The EM&A programme requires environmental monitoring for water quality and environmental site inspections for air quality, noise, water quality, waste management, landscape and visual impact. The EM&A requirements for each parameter described in the following sections include:

- All monitoring parameters;
- Monitoring schedules for the reporting month and forthcoming month;
- Action and Limit levels for all environmental parameters;
- Event / Action Plan;
- Environmental mitigation measures, as recommended in the Project EIA reports; and
- Environmental requirement in contract documents.

## 2.6 Construction Activities for the Coming Reporting Period

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During the coming reporting period, the principal work activities included:

- Preparation Works of Dredging at Portion A / Zone 2B1 and 2B2 in EP
- Dredging at Portion A / Zone 2B1, 2B2 and Zone 2C1 in EP

Future Key Issues include:

- Regular inspection on silt curtain deployment
- Regular inspection on silt screen deployment
- Implementation of EM&A Programme
- Maintain dredging below allowable dredging rate in EP.
- Cleaning of excess material from the decks and exposed fittings of barges and dredgers before the vessel is moved.
- Barge loading shall be monitored to ensure material is not lost during transportation.
- Conditions in dumping permit shall be followed strictly.

### 3. ROUTINE IMPACT WATER QUALITY MONITORING

#### 3.1 Monitoring Methodology

3.1.1 In-situ measurements and water samples were taken at 3 depths of the water column for each monitoring location, i.e. 1m below the surface, mid-depth, and 1m above the seabed, except where the water depth was less than 6m in which case the mid-depth was omitted and for locations where the water depth was less than 3m only the mid-depth level was monitored.

##### *In-Situ Measurement*

3.1.2 Prior to each monitoring day, wet bulb calibration was performed for the DO probes. Zero check in distilled water and calibration with a solution of known NTU were carried out for the turbidity probes. Three-point calibration of pH probes was completed each monitoring day.

3.1.3 At each sampling depth, two consecutive measurements were taken for turbidity, pH, DO, temperature, salinity, and ammonia. Separate deployment of the monitoring instruments was conducted for the consecutive measurements. When the difference between the two measurements for DO or turbidity was higher than 25% of the value of the first reading, the reading would be discarded and further readings would be taken. Three replicates of TIN measurement were performed for each depth at each monitoring location.

##### *Laboratory Analysis*

3.1.4 Duplicate water samples were collected at each sampling depth for laboratory measurement of SS, BOD<sub>5</sub> & synthetic detergent, ammonia, and *E.coli* at the required monitoring stations shown in **Table 3.4**. Three replicates were taken for TIN measurements at the specified locations. Samples were stored in high density polythene bottles, packed in ice (cooled to 4°C without being frozen), and delivered to the laboratory on the same day of collection for analysis.

3.1.5 ALS Technichem (HK) Pty Ltd (HOKLAS Reg. No. 066), was appointed to be the laboratory for analysis of water samples in the impact monitoring project. The methods adopted by the laboratories and the reporting limits are detailed in **Table 3.1**.

**Table 3.1** Laboratory Measurement/Analysis Methods and Reporting Limits

Analysis Description	Method	Reporting limits
Suspended Solid	APHA 2540D	1 mg/L
Ammonia	APHA 4500NH3:B&C	0.01 mg/L
Nitrite	APHA 4500NO2:B&H	0.01 mg/L
Nitrate	APHA 4500NO3:I	0.01 mg/L
Total Inorganic Nitrogen	By Calculation	0.02 mg/L
5-day Biochemical Oxygen Demand	APHA 5210B	1 mg/L
Synthetic Detergent	As Methylene Blue Active Substance	0.5 mg/L

Analysis Description	Method	Reporting limits
<i>E. coli</i>	DoE Section 7.8 & 7.9 plus in situ urease test	1 cfu/100mL

### 3.2 Monitoring Equipment

3.2.1 Equipment used for in-situ measurement and water sampling during impact water quality monitoring is summarised in **Table 3.2**. The equipment is in compliance with the requirements set out in the EM&A Manual. All in-situ monitoring instruments were calibrated by a HOKLAS-accredited laboratory or by standard solutions. Calibration of temperature, DO, salinity, pH and turbidity is conducted in three month interval, while QA/QC for in-situ ammonia measurement is carried out at 1-month interval. Calibration certificates for the water quality monitoring equipment are attached in **Appendix D**.

**Table 3.2** Water Quality Monitoring and Sampling Equipment

Parameter	Equipment	Model	Range	Equipment Accuracy
Nitrate	Photometer	<ul style="list-style-type: none"> <li>HACH DR900, and</li> <li>Nitrate Reagent Set (Cadmium Reduction Method)</li> </ul>	NO <sub>3</sub> : 0.01 to 0.50 mg/L	±0.5%
Ammonia, Nitrite	Photometer	<ul style="list-style-type: none"> <li>Lovibond MD600 Maxi Direct, and</li> <li>Ammonia Reagent Set (Indophenol blue / Salicylate);</li> <li>Nitrite Reagent Set (N-(1-Naphthyl)-ethylenediamine)</li> </ul>	NH <sub>3</sub> -N: 0.02 to 1mg/L; 1 to 50mg/L NO <sub>2</sub> : 0.01 to 0.5mg/L	±2%
Temperature, Dissolved Oxygen, salinity, pH, Turbidity	Water Quality Monitoring Device	YSI 6920V2-2-M Sonde	Temp: -5 to 50°C DO: 0-50mg/L DO%: 0-500% Sal: 0 to 70 ppt pH: 0 to 14 pH units Turb: 0-1000NTU	Temp: ±0.15°C DO: ±0.1mg/L or 1% (whichever greater) for 0-20mg/L; ±15% for 20-50mg/L Sal: ±1% or 0.1ppt (whichever greater) pH: ±0.2 units Turb: ±2% or 0.3NTU (whichever greater)
Water Sampling	Water Sampler	Aquatic Research Transparent PC Horizontal Water Sampler 2.2L / 3L / 5L	NA	NA
Positioning	Global Positioning System (GPS)	Garmin eTrex	NA	±3m
		Garmin GPS72	NA	±3m
Water Depth	Echo Sounder	Garmin ECHO 100	0.6 to 91 m	0.1 m

**3.3 Monitoring Parameters**

3.3.1 The monitoring parameters and frequency for both in-situ measurement and laboratory analysis are summarised in **Table 3.3**. Parameters for each monitoring station are specified in **Table 3.4**.

**Table 3.3 Monitoring Parameters and Frequency**

Parameters	Monitoring Frequency
<u>In-situ Measurement</u> Turbidity (in NTU), pH, Dissolved Oxygen (in mg/L and %), Temperature (in °C), Salinity (in ppt), <sup>1</sup> Ammonia-N (in mg/L-N and UIA); <sup>2</sup> TIN: Ammonia-N (in mg/L), Nitrite (in mg/L), Nitrate (in mg/L)	3 days per week, at mid-flood and mid-ebb tides (except <sup>3</sup> detergent which shall be taken one day per month, at mid-flood and mid-ebb)  36 hours interval was allowed between subsequent sets of measurement.
<u>Laboratory Analysis</u> <sup>1</sup> Ammonia-N (in mg/L-N and UIA), Suspended Solids (SS), <sup>3</sup> BOD <sub>5</sub> , <sup>3</sup> <i>E.coli</i> , <sup>3</sup> Synthetic Detergent; <sup>2</sup> TIN: Ammonia-N (in mg/L), Nitrite (in mg/L), Nitrate (in mg/L)	

Notes:

- Ammonia measurements and samples were taken at SR2, SR3, SR4, SR12, C1A, C2A only; UIA: In-situ unionized ammonia was calculated from in-situ measurement of NH<sub>3</sub>-N, temperature, pH and salinity; Laboratory determined unionized ammonia was calculated from analysed NH<sub>3</sub>-N from water samples and in-situ measurement of temperature, pH and salinity;
- Total Inorganic Nitrogen (TIN) measurements and samples were taken at SR5, G2, C1A and C2A only;
- BOD<sub>5</sub>, *E.coli* and Synthetic Detergent samples were taken at SR4, SR12, C1A, C2A only.



Table 3.4 Water Quality Monitoring Parameters

ID	In-situ Measurement							Laboratory Analysis					
	pH	Temperature	Salinity	Turbidity	Dissolved Oxygen / Dissolved Oxygen%	NH <sub>3</sub> -N / UIA	TIN (NH <sub>3</sub> -N, NO <sub>2</sub> & NO <sub>3</sub> )	Suspended Solids	BOD <sub>5</sub>	E. coli	NH <sub>3</sub> -N / UIA	Synthetic Detergent	TIN (NH <sub>3</sub> -N, NO <sub>2</sub> & NO <sub>3</sub> )
SR2	○	○	○	○	○	○		○			○		
SR3	○	○	○	○	○	○		○			○		
SR4	○	○	○	○	○	○		○	○	○	○	○	
SR5	○	○	○	○	○		○	○					○
SR12	○	○	○	○	○	○		○	○	○	○	○	
SR13	○	○	○	○	○			○					
G2	○	○	○	○	○		○	○					○
C1A	○	○	○	○	○	○	○	○	○	○	○	○	○
C2A	○	○	○	○	○	○	○	○	○	○	○	○	○

Note:

1. UIA: In-situ unionized ammonia was calculated from in-situ measurement of NH<sub>3</sub>-N, temperature, pH and salinity; laboratory determined unionized ammonia was calculated from analysed NH<sub>3</sub>-N from water samples taken and in-situ measurement of temperature, pH and salinity.

### 3.4 Monitoring Locations

- 3.4.1 Referring to the Proposal for Temporary Suspension of Impact Water Quality Monitoring (0394\_13\_ED\_0326F) which was submitted to EPD in August 2016 with no objection was received from EPD; removal of routine water quality monitoring stations at SR1 was effective on 24 December 2016.
- 3.4.2 Referring to the *Proposal on Removal of Some Water Quality Monitoring Stations After Resumption of Marine Construction Works (Dredging Works and Marine Works of the Northern Part of Kwai Tsing Container Basin Only)* (0394\_13\_ED\_0332I) which has been submitted to EPD and relevant parties in December 2016 with no objection, removal of routine water quality monitoring stations at SR6, SR7, SR8, SR9, SR10 and SR11 was effective from 23 January 2017. Due to removal of some sensitive receivers in routine water quality monitoring, gradient stations G3, G5 and G6 were also be removed and gradient stations G1 and G4 replaced the previous control stations C1, C2 and C3 as C1A and C2A with reference to the approved proposal (0394\_13\_ED\_0332I) which was effective from 23 January 2017.
- 3.4.3 Impact water quality monitoring was conducted at 9 locations, including 6 sensitive receivers (SR2, SR3, SR4, SR5, SR12, SR13), 1 gradient station (G2) and 2 control stations (C1A, C2A), whose detailed information is summarised in **Table 3.5**. The locations of the stations are also shown in **Figure 2**.

**Table 3.5** Locations of Water Quality Monitoring Stations

Water Monitoring Station		Easting	Northing
SR2	Casam, Gazetted Beach	825723.225	825334.784
SR3	Approach, Gazetted Beach	826960.152	825260.726
SR4	Tsuen Wan, WSD Flushing Water Intake	829270.482	825382.994
SR5	Ma Wan, Fish Culture Zone	823758.839	823575.934
SR12	Tsing Yi, WSD Flushing Water Intake	829599.152	823262.269
SR13	EMSD Cooling Water Intake for Kwai Chung Hospital	831397.450	822002.433
G2	Gradient Station	825979.792	824683.158
C1A	Control Station	820626.195	822834.323
C2A	Control Station	830423.070	819431.722

### 3.5 Monitoring date, time frequency and duration

In the reporting period, impact water quality monitoring was carried out 3 days per week, at mid-flood and mid-ebb tides, from 23 February 2016 to 22 March 2017. Detailed impact monitoring schedule for the reporting month and the coming month is included in **Appendix E**

### 3.6 Weather conditions

3.6.1 The weather condition during the impact monitoring is provided in **Appendix L**.

### 3.7 Results and Observations

3.7.1 Impact water quality monitoring was conducted at all designated monitoring stations in the reporting month. Impact water quality monitoring results and graphical presentations are provided in **Appendix F**.

3.7.2 During the monitoring period, red tide occurrences were reported in Hong Kong waters. In addition, some adverse weather conditions, including Strong Monsoon Signal and Thunderstorm Warning signals were reported. Heavy marine traffic (not associated with the Project) was commonly observed nearby the Project site and its vicinity, that the propeller wash from vessels could lead to potential disturbance of seabed sediment and affect the water quality. The above conditions may affect monitoring results. Summary of weather condition and red tide occurrences are provided in **Appendix L**.

3.7.3 Number of exceedances recorded in the reporting month at each impact station is summarized in **Table 3.6** and **3.7**.

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**Table 3.6 Summary of Water Quality Exceedance (In-situ Measurement)**

Station	Exceedance Level	DO (S&M)		DO (B)		Turbidity		NH3-N		UIA		TIN		Total	
		E	F	E	F	E	F	E	F	E	F	E	F	E	F
SR2	Action	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	0	0	0	0	0	0	0	0	0	0	-	-	0	0
SR3	Action	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	0	0	0	0	0	0	0	0	0	0	-	-	0	0
SR4	Action	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	0	0	0	0	0	0	0	0	0	0	-	-	0	0
SR5	Action	0	0	0	0	0	0	-	-	-	-	2	1	2	1
	Limit	0	0	0	0	0	0	-	-	-	-	7	7	7	7
SR12	Action	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	0	0	0	0	0	0	0	0	0	0	-	-	0	0
SR13	Action	0	0	0	0	0	0	-	-	-	-	-	-	0	0
	Limit	0	0	0	0	0	0	-	-	-	-	-	-	0	0
Total	Action	0	0	0	0	0	0	0	0	0	0	2	1	3	
	Limit	0	0	0	0	0	0	0	0	0	0	7	7	14	

**Table 3.7 Summary of Water Quality Exceedance (Laboratory Analysis)**

Station	Exceedance Level	Suspended Solids		BOD <sub>5</sub>		<i>E. coli</i>		NH <sub>3</sub> -N		UIA		Synthetic Detergent		TIN		Total	
		E	F	E	F	E	F	E	F	E	F	E	F	E	F	E	F
SR2	Action	0	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0
	Limit	0	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0
SR3	Action	0	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0
	Limit	0	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0
SR4	Action	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	2	2	0	0	0	0	0	0	0	0	0	0	-	-	2	2
SR5	Action	0	0	-	-	-	-	-	-	-	-	-	-	2	1	2	1
	Limit	0	0	-	-	-	-	-	-	-	-	-	-	7	7	7	7
SR12	Action	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	1	1	0	0	0	0	0	0	0	0	0	0	-	-	1	1
SR13	Action	0	0	-	-	-	-	-	-	0	0	-	-	-	-	0	0
	Limit	0	0	-	-	-	-	-	-	0	0	-	-	-	-	0	0
Total	Action	0	0	0	0	0	0	0	0	0	0	0	0	2	1	3	
	Limit	3	3	0	0	0	0	0	0	0	0	0	0	7	7	20	

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3.7.4 During the reporting period, 3 AL and 14 LL exceedances for TIN (in-situ), 6 LL exceedances for SS and 3 AL and 14 LL exceedances for TIN (lab) were recorded.

3.7.5 A number of exceedances were recorded in the reporting month, however, based on the finding from the investigation on the recorded cases of exceedances, the cause was found not related to the project. The exceedances may be caused by influences in the vicinity of the station or changes of the ambient conditions.

3.7.6 The details of Notification of Exceedance can be referred to **Appendix I**.

### **3.8 Action and Limit Levels**

3.8.1 Referring to the ER Letter ref. (CV/2013/04)/M45/400/1247 dated 19 March 2015, a Revised Baseline Water Quality Monitoring Test Methodology – Review of Action and Limit Levels has been submitted to EPD by ER in March 2015. The Action and Limit Level for the wet season (April – October) was effected and applied to the water quality monitoring data from 1 April 2015. The Action and Limit Level is given in **Appendix C**.

### **3.9 Event and Action Plan**

3.9.1 The Event and Action Plan is given in **Appendix H**.

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## 4. 24-HR WATER QUALITY MONITORING

### 4.1 Monitoring Methodology

4.1.1 The monitoring probes are set up around the fish rack at the Fish Culture Zone and seawater intake point. Small buoys are placed on the sea surface to indicate the locations of the monitoring probes. Data loggers and wireless modems are placed on a framework or covered places, such as storage house on the fish rack.

4.1.2 The 24 hours water quality monitoring is performed at a depth of 1 to 2m below the water surface. The dissolved oxygen, temperature and turbidity data are logged at 5 minutes interval by the multi-probe, while ammonia data are logged at 20 minutes interval and data are transmitted via the wireless transmission system to the designated computers with the installation of automatic checking programme to detect exceedances at the offices of ET. In case where an action/limit level exceedance is evidenced (a continuous exceedance for any 30 minutes i.e. 6 consecutive monitoring data exceedances for DO, temperature and turbidity; and 3 consecutive exceedances of ammonia data), an email notification will be sent automatically to ET, Contractor, ER, EPD, AFCD and WSD to alert the event for further investigation.

### 4.2 Monitoring Equipment

4.2.1 The following equipment and facilities will be used for the monitoring of water quality impacts:

#### Dissolved Oxygen, Turbidity and Temperature Measuring Equipment

A multi probe meter measuring dissolved oxygen, temperature and turbidity is set up at the 24 hours monitoring stations

- A DO level in the range of 0-20 mg/L and 0-200% saturation;
- A temperature of between 0 and 45 degree Celsius;
- A turbidity of between 0-1000NTU

The DO equipment is equipped with built-in salinity compensation.

#### Ammonia Measuring Equipment

The ammonia measuring equipment is used to monitor seawater ammonia level at WSD flushing water intake on a 24 hours a days 7 days a week during works basis.

#### Data Acquisition System

The data acquisition system is used to log water quality data at 5 minutes interval by the multi-probe and at 20 min interval by the ammonia sensor. Data will be transmitted via the wireless transmission system to the designated computers at ET office.

**Table 4.1** lists out the detail of monitoring equipment.

**Table 4.1 24 Hours Water Quality Monitoring Equipment**

Parameter	Equipment	Model	Range	Equipment Accuracy
Temperature, Dissolved Oxygen, Turbidity	Water Quality Monitoring Device	•YSI 6920V2-2-M Sonde	Temp: -5 to 50°C DO: 0-50mg/L DO%: 0-500% Turb: 0-1000NTU	<ul style="list-style-type: none"> <li>▪Temp: ±0.15°C</li> <li>▪DO: ±0.1mg/L or 1% (whichever greater) for 0-20mg/L; ±15% for 20-50mg/L</li> <li>▪Turb: ±2% or 0.3NTU (whichever greater)</li> </ul>
Data Acquisition System	Data Logger	Campbell CR200	NA	NA
	Data Logger	Campbell CR800	NA	NA
	Data Transmitter	NXN GT-511	NA	NA
Ammonia	Photometric Analyzer	Systema S.p.A. Micromac 1000 Ammonia Reagent Set: OPA	N-NH <sub>3</sub> : 0-2mg/L	N-NH <sub>3</sub> : <0.01mg/L

**4.2.2 Equipment Calibration**

In-situ monitoring instruments are checked, calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme before use, and subsequently re-calibrated at 3 months intervals throughout the water quality monitoring programme.

The monitoring equipment, monitoring probes are cleaned and checked twice a week.

Equipment calibration records are in **Appendix D**.

**4.3 Monitoring Parameters**

4.3.1 Dissolved oxygen, temperature and turbidity are recorded every 5 minutes, 24 hours a day 7 days a week during dredging works.

4.3.2 In-situ NH<sub>3</sub>-N at WSD Flushing Water Intake are measured every 20 minutes, 24 hours a day 7 days a week during works.

4.3.3 The water quality parameters measured at particular locations are shown in **Table 4.2**.

**Table 4.2 24-hr Water Quality Monitoring Parameters**

ID	Description	Parameters				
		Temperature	Turbidity	DO (mg/L)	DO%	NH <sub>3</sub> -N
SR4	Tsuen Wan, WSD Flushing Water Intake	○	○	○	○	○
SR5	Ma Wan, Fish Culture Zone	○	○	○	○	
SR12	Tsing Yi, WSD Flushing Water Intake	○	○	○	○	○
SR13	EMSD Cooling Water Intake for Kwai Chung Hospital	○	○	○	○	

**4.4 Monitoring Locations**

Referring to the *Proposal on Removal of Some Water Quality Monitoring Stations After Resumption of Marine Construction Works (Dredging Works and Marine Works of the Northern Part of Kwai Tsing Container Basin Only)* (0394\_13\_ED\_0332I) which has been submitted to EPD and relevant parties in December 2016 with no objection, removal of 24 hour monitoring stations at SR9, SR10 and SR11 was effective from 23 January 2017. The setups of 24 hour monitoring stations at SR9, SR10 and SR11 were removed on 7 February 2017. The 24 hours water quality monitoring works are performed at the following locations (**Table 4.3**).

**Table 4.3 Location of Water Quality Monitoring Station**

Water Monitoring Station		Easting	Northing
SR4	Tsuen Wan, WSD Flushing Water Intake	829270.482	825382.994
SR5	Ma Wan, Fish Culture Zone	823758.839	823575.934
SR12	Tsing Yi, WSD Flushing Water Intake	829599.152	823262.269
SR13	EMSD Cooling Water Intake for Kwai Chung Hospital	831397.450	822002.433

Revisions on monitoring locations were proposed in previous submission (MaterialLab Report No. Ref: 0394/13/ED/0103 – WATER QUALITY MONITORING LOCATION) and were agreed among AFCD, EMSD, WSD and EPD.

**4.5 Results and Observations**

4.5.1 24-hr water quality monitoring was conducted at all designated monitoring stations in the reporting month. Results are provided in **Appendix G**.

4.5.2 During the reporting period, red tide occurrences were reported in Hong Kong waters. In addition, some adverse weather conditions, including Strong Monsoon Signal and Thunderstorm Warning signals were reported. Heavy marine traffic (not associated with the Project) was commonly observed nearby the Project site and its vicinity, that the propeller



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wash from vessels could lead to potential disturbance of seabed sediment and affect the water quality. The above conditions may affect monitoring results. Furthermore, the fish culturing or other activities occurring on the fish rack may cause adverse impact on the receiving water. Summary of weather conditions and red tide occurrences are provided in **Appendix L**.

4.5.3 Number of exceedances recorded in the reporting month at each impact station is summarized in **Table 4.4**.

**Table 4.4 Summary of Water Quality Exceedance (24-hr Monitoring)**

Station	Exceedance Level	Turbidity	DO	NH <sub>3</sub> -N	Total
SR4	Action	0	0	0	0
	Limit	0	0	0	0
SR5	Action	0	0	-	0
	Limit	0	0	-	0
SR12	Action	0	0	0	0
	Limit	0	0	0	0
SR13	Action	0	0	-	0
	Limit	0	0	-	0
Total	Action	0	0	0	0
	Limit	0	0	0	0

4.6 No exceedance was recorded in the reporting month.

#### 4.7 Action and Limit Levels

4.7.1 Referring to the ER Letter ref. (CV/2013/04)/M45/400/1247 dated 19 March 2015, a Revised Baseline Water Quality Monitoring Test Methodology – Review of Action and Limit Levels has been submitted to EPD by ER in March 2015. The Action and Limit Level for the wet season (April – October) was effected and applied to the water quality monitoring data from 1 April 2015. The Action and Limit Level is given in **Appendix C**.

#### 4.8 Event and Action Plan

4.8.1 The Event and Action Plan is given in **Appendix H**.

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**5. ENVIRONMENTAL SITE INSPECTION AND AUDIT****5.1 Site Inspections**

5.1.1 Site inspections were carried out weekly by ET to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. In the reporting month, 4 site inspections were carried out on 23 February 2017, 2, 9, 16 March 2017.

5.1.2 The Environmental Team conducted 4 site inspections in the reporting period. No particular observation was recorded in the reporting month except contractor was reminded to close the door of engine room to reduce the noise emission if the engine is operating

5.1.3 According to Contractor, no archaeological deposit was found during reporting period.

**5.2 Advice on the Solid and Liquid Waste Management Status**

5.2.1 According to the Contractor, 10m<sup>3</sup> general refuse was generated and disposed of in the reporting period. Monthly summary of waste flow table is detailed in **Appendix K**.

**5.3 Dredging and Disposal**

5.3.1 Implementation of mitigation measures for dredging works and the associated dredging records were checked and the findings are summarized in **Table 5.1**.

**Table 5.1 Compliance with EP Conditions in the Reporting Month**

EP Condition	Compliance Status and/or Recommendations
3.1 (f) Silt Screen Deployment Plan	Silt screens deployment at WSD1, WSD8 and EMSD1 complied with Silt Screen Deployment Plan.
3.1 (g) 24-hr environmental monitoring and audit	24-hr enhanced environmental monitoring and audit of water quality parameters implemented.

5.3.2 The silt screen deployment within the Project area were maintained and confirmed to be complied with EP conditions in general.

5.3.3 No inert or non-inert C&D material related to dredging works and a small amount of general refuse were disposed off site in the reporting month. The details can be referred to the **Table 5.2**.

**Table 5.2 Waste Quantities of Dredging Works**

Month	Marine Sediment Type	Quantity Generated from 23 February 2017 to 22 March 2017 (m <sup>3</sup> )	Cumulative-to 22 March 2017 (m <sup>3</sup> )	Disposal / Dumping Ground
March 2017	Type 1 – Open Sea Disposal	0	1683850	NA
	Type 2 – Confined Marine Disposal	0	625280	NA
	Type 3 – Special Treatment / Disposal	0	1260	NA

Note:

Only preparation works for dredging was carried out in the reporting month and no marine sediment was disposed in the reporting month.

**5.4 Implementation Status of Environmental Mitigation Measures**

A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in **Appendix J**. Most of the necessary mitigation measures were implemented properly.

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### 6. EXCEEDANCE OF THE ENVIRONMENTAL PARAMETERS

- 6.1.1 Six (6) Action Level and Thirty four (34) Limit Level exceedances were recorded in the routine impact monitoring in the reporting month.
- 6.1.2 No exceedance was recorded in the 24-hr monitoring in the reporting month.
- 6.1.3 Notification of exceedance is provided in **Appendix I**.

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**7. NON-COMPLIANCE, COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION**

7.1.1 No complaint, inspection notice, notification of summons or prosecution was received in this reporting period. Cumulative complaint log, summaries of complaints, notification of summons and successful prosecutions are presented in Tables 7.1, 7.2 and 7.3.

**Table 7.1 Environmental Complaints Log**

Complaint Log No.	Date of Receipt	Received From and Received By	Nature of Complaint	Date Investigated	Outcome	Date of Reply
Nil	-	-	-	-	-	-

**Table 7.2 Cumulative Statistics on Complaints**

Environmental Parameters	Cumulative No. Brought Forward	No. of Complaints This Month	Cumulative Project-to-Date
Air	0	0	0
Noise	0	0	0
Water	0	0	0
Waste	0	0	0
Total	0	0	0

**Table 7.3 Cumulative Statistics on Successful Prosecutions**

Environmental Parameters	Cumulative No. Brought Forward	No. of Prosecutions This Month	Cumulative Project-to-Date
Air	0	0	0
Noise	0	0	0
Water	0	0	0
Waste	0	0	0
Total	0	0	0

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**8. CONCLUSIONS**

- 8.1.1 The dredging works was commenced on 23 April 2014. The EM&A programme was carried out in accordance with the EM&A Manual requirements. As per the EM&A Manual, water quality impact monitoring was conducted during the dredging works.
- 8.1.2 Six (6) Action Level and Thirty four (34) Limit Level exceedances were recorded in the routine impact monitoring in the reporting month.
- 8.1.3 No exceedance was recorded in the 24-hr monitoring in the reporting month.
- 8.1.4 Based on the finding from the investigation on the recorded cases of exceedances, the cause was found not related to the project.
- 8.1.5 Environmental site inspections were carried out for 4 times in the reporting month.
- 8.1.6 No environmental complaint was received and followed up by Environmental Team in the reporting period.
- 8.1.7 No notification of summons and prosecution was received in the reporting month.

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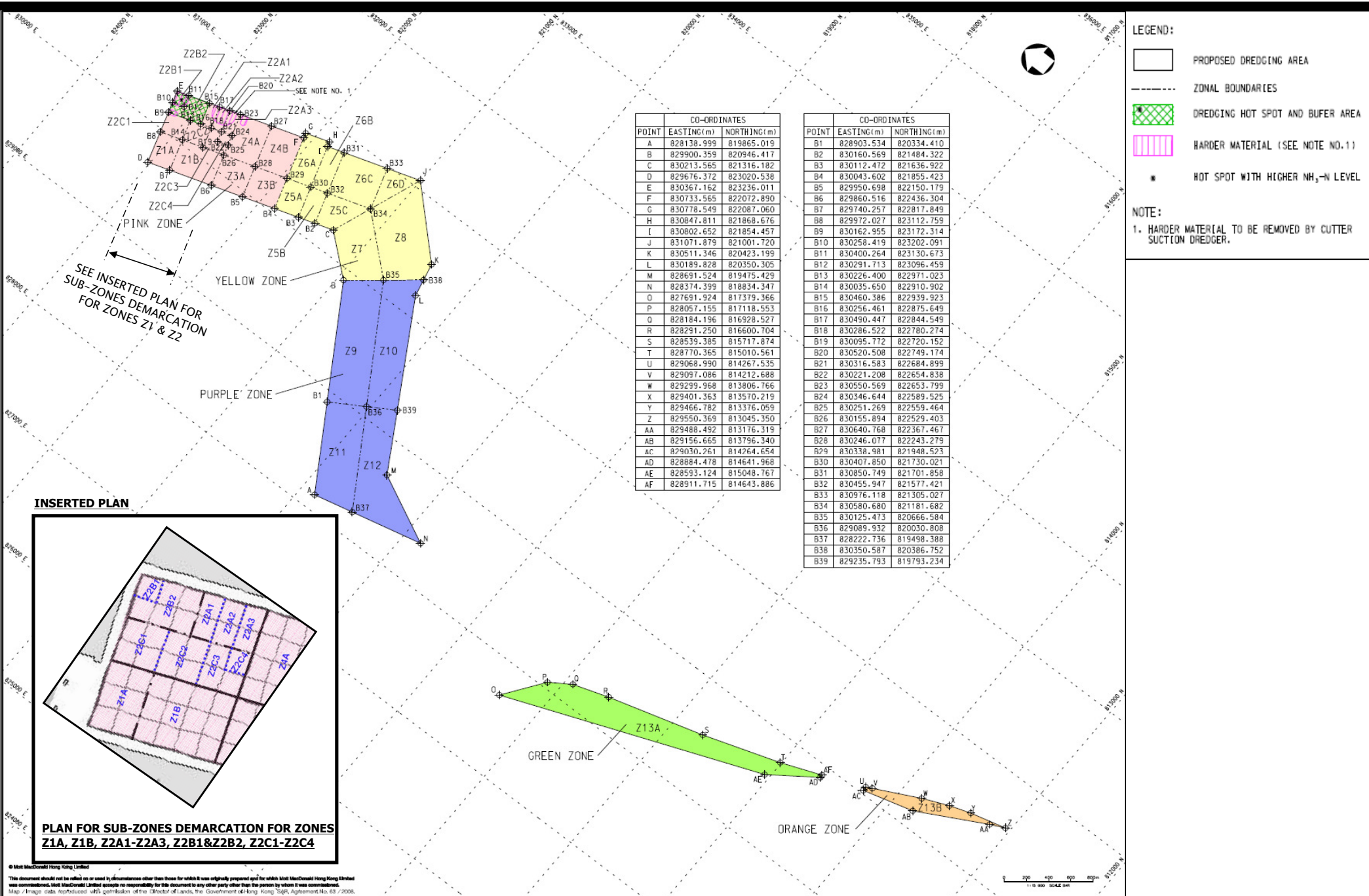
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Figure 1

Project General Layout





Project Title: Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel

Figure 2: Zones and Sub-zone of Dredging Plan Layout (Extracted from Figure 2 of Justification for the Proposed Demarcation of the Dredging Zones)

Environmental Permit No.:

EP-426/2011/A



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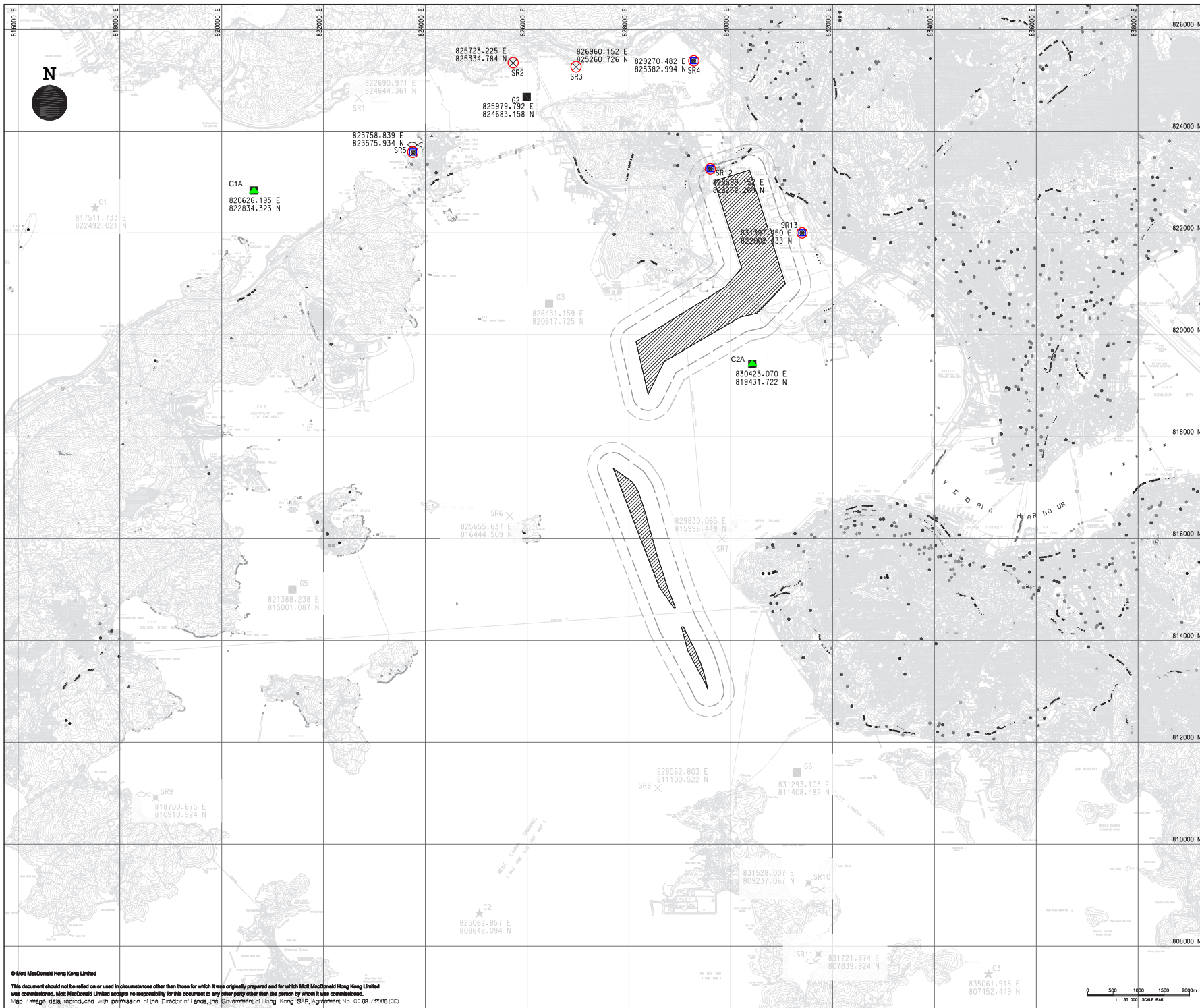
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Figure 2

Locations of Water Quality Monitoring Stations



NOTES:  
 1. ALL COORDINATES ARE IN HONG KONG METRIC GRID (1980).  
 2. THE CONTRACTOR SHALL REFER TO RELEVANT SECTION(S) AND APPENDICES OF THE PARTICULAR SPECIFICATION REGARDING THE WATER QUALITY MONITORING.

- LEGEND:
-  SITE BOUNDARY
  -  MONITORING STATION
  -  24 HOUR STATION
  -  CONTROL STATION
  -  GRADIENT STATION

Client  
 THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION  
 CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project  
 CONTRACT NO. : CV/2013/04  
 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Title  
 PROVISIONAL LOCATION OF WATER QUALITY MONITORING STATIONS

Scale at A1	Status	Rev
1:35000	TEN	2

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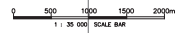


Figure 2 - Location of Monitoring Stations

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**MATERIALAB CONSULTANTS LIMITED**

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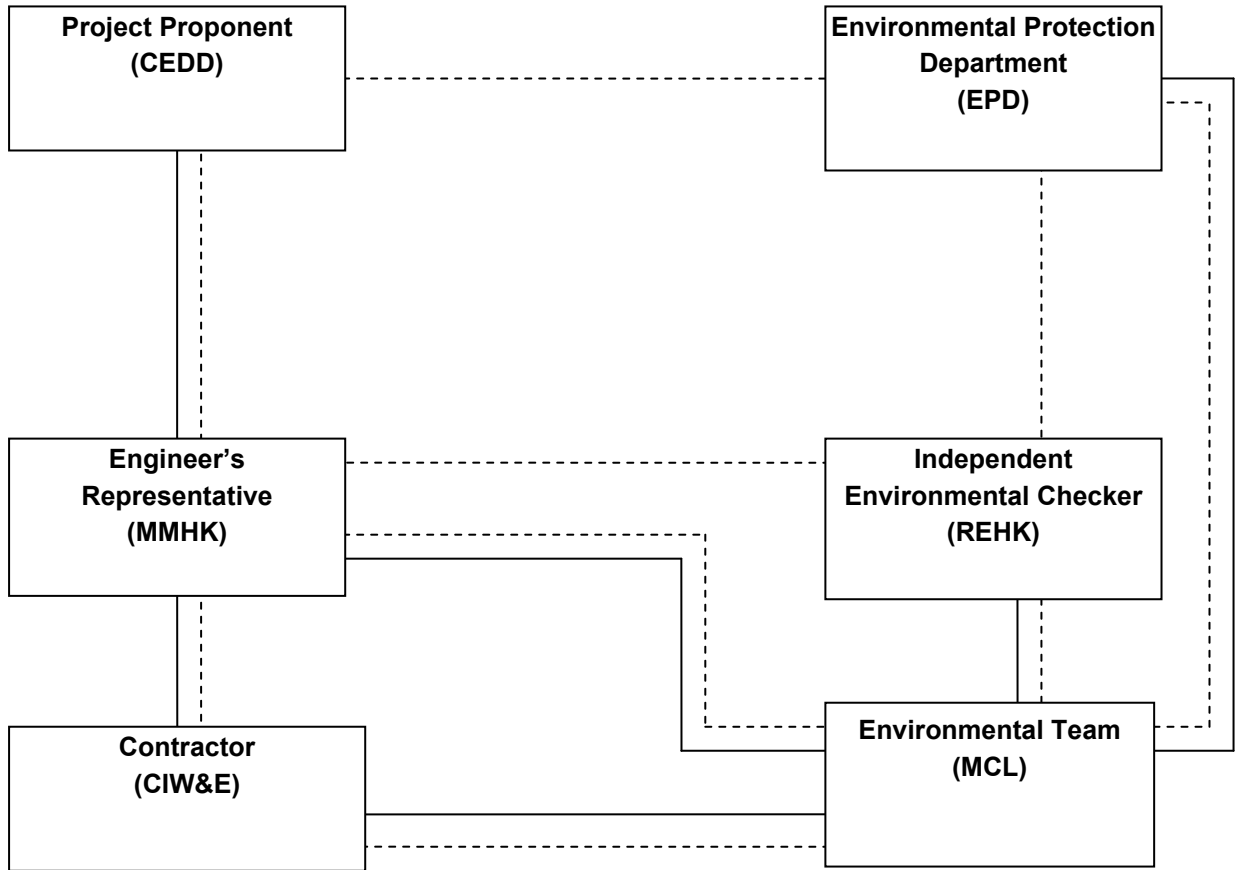
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Report No.: 0394/13/ED/0356A

Appendix A  
Project Organization Chart



**Legend:**

— Line of Reporting

- - - Line of Communication

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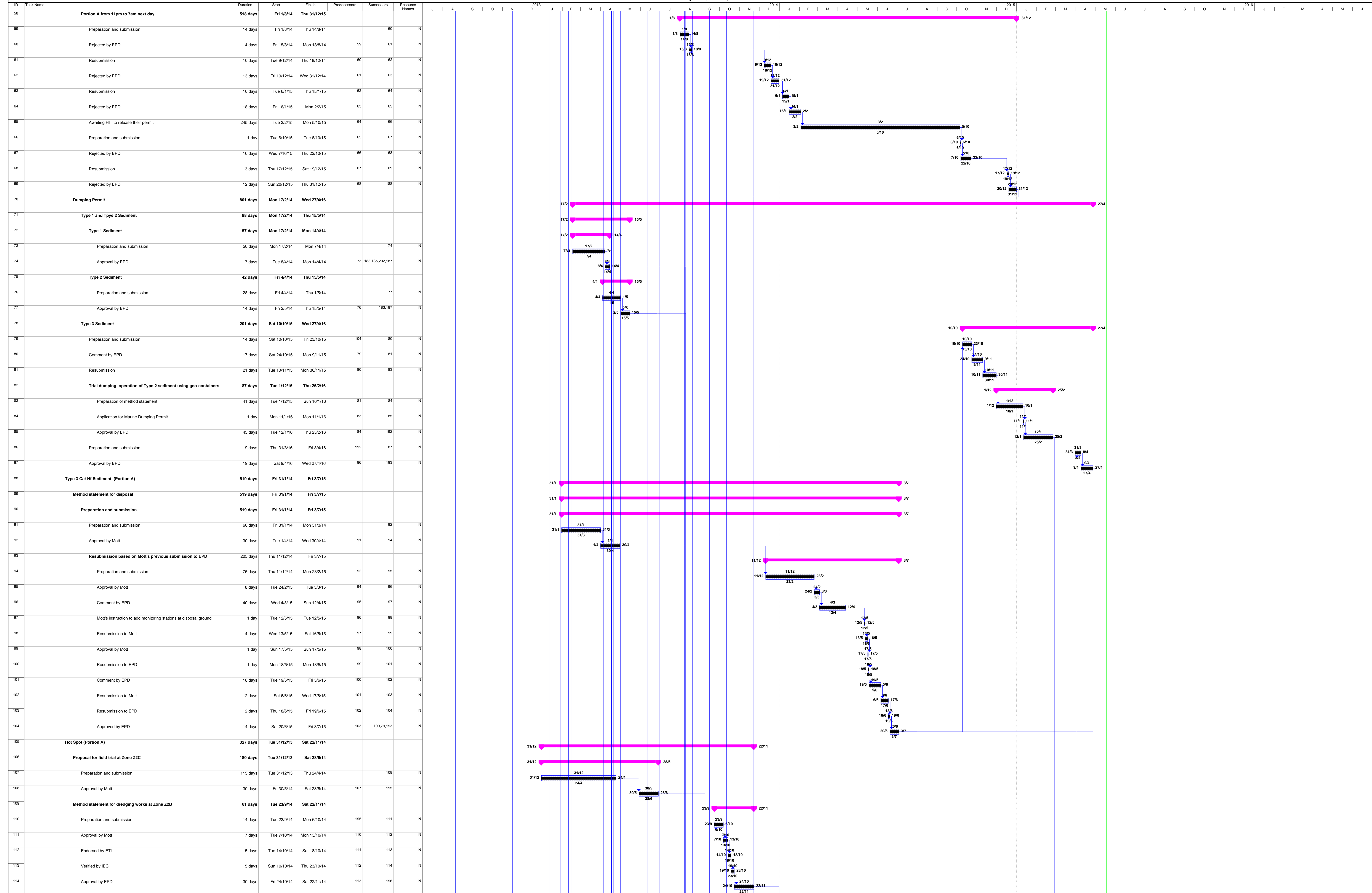
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Appendix B  
Construction Programme

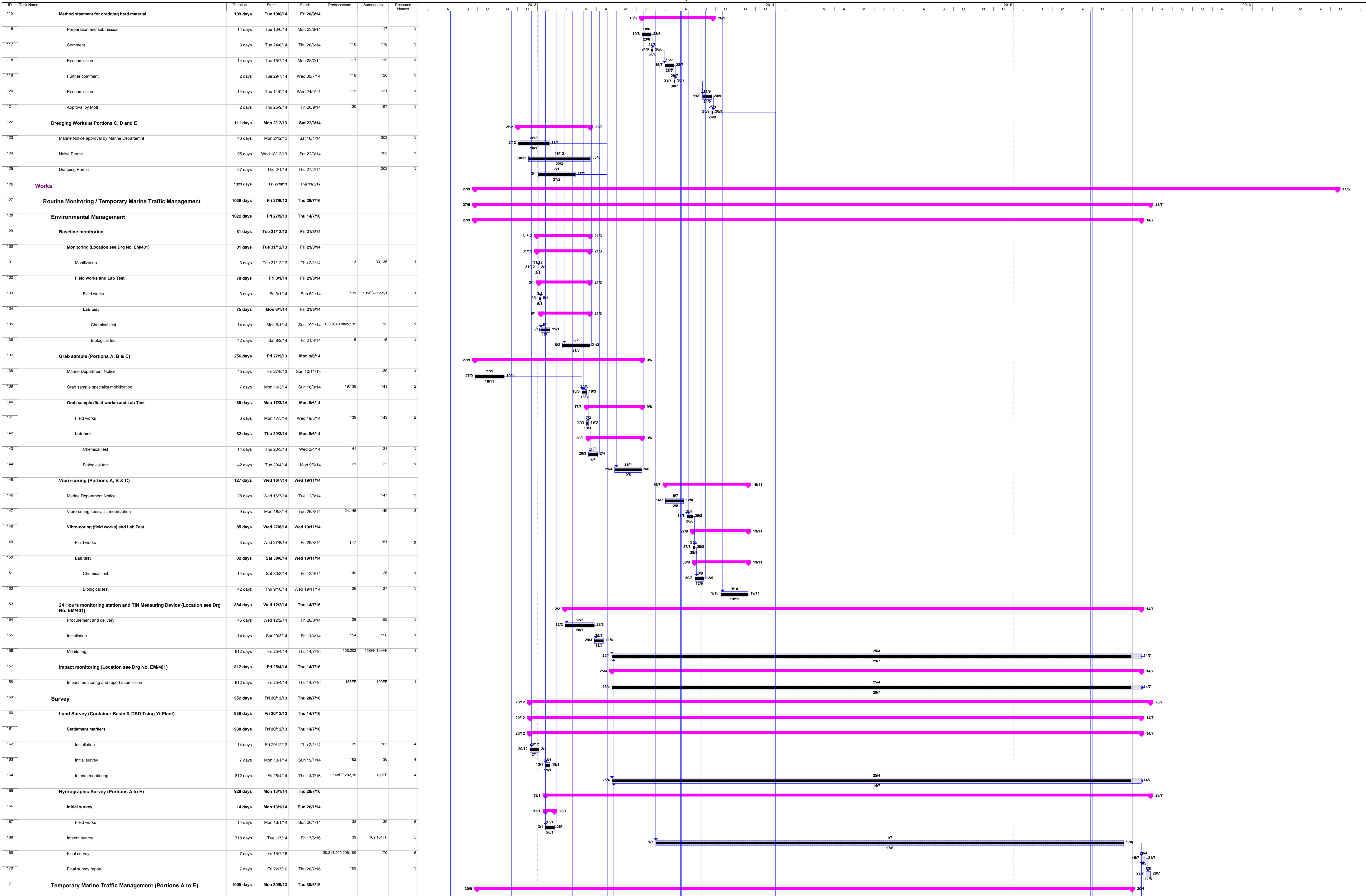


ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Resource Names	
1	<b>Contract Period</b>	1351 days	Fri 30/8/13	Thu 11/5/17				
2	<b>Contract Commencement Date</b>	0 days	Fri 30/8/13	Fri 30/8/13		4SS		
3	<b>Extended Contract Completion Date</b>	0 days	Mon 9/5/16	Mon 9/5/16		284FF		
4	<b>Possession of Site</b>	0 day			S,18SS,31SS,41SS	N		
5	<b>Section 1</b>	1351 days	Fri 30/8/13	Thu 11/5/17				
6	<b>Submission</b>	972 days	Fri 30/8/13	Wed 27/4/16				
7	<b>Routine Monitoring / Temporary Marine Traffic Management</b>	484 days	Fri 30/8/13	Fri 26/12/14				
8	<b>Environmental Management</b>	484 days	Fri 30/8/13	Fri 26/12/14				
9	<b>Baseline monitoring</b>	231 days	Fri 30/8/13	Thu 17/4/14				
10	ETL and relevant site personal	30 days	Fri 30/8/13	Sat 28/9/13		4SS,13	N	
11	Lab Test	30 days	Fri 30/8/13	Sat 28/9/13		4SS,13	N	
12	<b>Monitoring (Location see Drg No. EM/401)</b>	201 days	Sun 29/9/13	Thu 17/4/14				
13	Plan	93 days	Sun 29/9/13	Mon 30/12/13	10,11	131	N	
14	<b>Sediment Report</b>	88 days	Mon 20/1/14	Thu 17/4/14				
15	Preliminary report	19 days	Mon 20/1/14	Fri 7/2/14		135	136	N
16	Final report	27 days	Sat 22/3/14	Thu 17/4/14		136	183,185,202	N
17	<b>Grab sample (Portions A, B &amp; C)</b>	321 days	Fri 30/8/13	Wed 16/7/14				
18	Grab sample specialist	30 days	Fri 30/8/13	Sat 28/9/13		4SS,19	N	
19	Sediment testing and sampling plan	162 days	Sun 29/9/13	Sun 9/3/14		18	139	N
20	<b>Sediment report</b>	105 days	Thu 3/4/14	Wed 16/7/14				
21	Preliminary report	26 days	Thu 3/4/14	Mon 28/4/14		143	144	N
22	Final report	37 days	Tue 10/5/14	Wed 16/7/14		144	187	N
23	<b>Vibro-coring (Portions A, B &amp; C)</b>	159 days	Mon 21/7/14	Fri 26/12/14				
24	Sediment testing and sampling plan	28 days	Mon 21/7/14	Sun 17/8/14			147	N
25	<b>Sediment report</b>	105 days	Sat 13/9/14	Fri 26/12/14				
26	Preliminary report	26 days	Sat 13/9/14	Wed 8/10/14		151	152	N
27	Final report	37 days	Thu 20/11/14	Fri 26/12/14		152	187FS-139 days	N
28	<b>24 Hours monitoring station and TIN Measuring Device (Location see Drg No. EM/401)</b>	79 days	Mon 25/11/13	Tue 11/2/14				
29	Instrumentation	79 days	Mon 25/11/13	Tue 11/2/14			154	N
30	<b>Survey</b>	179 days	Fri 30/8/13	Mon 24/2/14				
31	Surveyor	35 days	Fri 30/8/13	Thu 3/10/13		4SS,35,38	N	
32	Geophysicist	35 days	Sun 3/11/13	Sat 7/12/13		202	N	
33	<b>Land Survey (Container Basin &amp; DSD Tsing Yi Plant)</b>	67 days	Tue 26/11/13	Fri 31/1/14				
34	<b>Settlement markers</b>	67 days	Tue 26/11/13	Fri 31/1/14				
35	Method Statement for Installation and Monitoring	24 days	Tue 26/11/13	Thu 19/12/13		31	162	N
36	Initial report	12 days	Mon 20/1/14	Fri 31/1/14		163	164	N
37	<b>Hydrographic Survey (Portions A to E)</b>	144 days	Fri 4/10/13	Mon 24/2/14				
38	Method Statement	36 days	Fri 4/10/13	Fri 8/11/13		31	167	N
39	Initial survey Report	29 days	Mon 27/1/14	Mon 24/2/14		167	168	N
40	<b>Temporary Marine Traffic Management (Portions A to E)</b>	144 days	Fri 30/8/13	Mon 20/1/14				
41	Consultant, Risk Manager and Marine Traffic Engineer	28 days	Fri 30/8/13	Thu 26/9/13		4SS,43	N	
42	Independent Checking Engineer (ICE)	25 days	Fri 27/12/13	Mon 20/1/14		173FS-60 days	N	
43	Webbase software and Trial Run	50 days	Fri 27/9/13	Fri 15/11/13		41	173	N
44	<b>Dredging Works (Portions A to E)</b>	896 days	Thu 14/11/13	Wed 27/4/16				
45	Independent Checking Engineer (ICE)	21 days	Thu 14/11/13	Wed 4/12/13		51	N	
46	<b>Silt screen deployment plan and report (Location see Drg No. EM/401)</b>	77 days	Fri 6/12/13	Thu 20/2/14				
47	Method statement	77 days	Fri 6/12/13	Thu 20/2/14		185,178	N	
48	<b>Dredging method statement and silt curtain deployment plan</b>	118 days	Thu 28/11/13	Tue 25/3/14				
49	Method statement for dredging works	104 days	Thu 28/11/13	Tue 11/3/14		202	N	
50	<b>Silt curtain deployment plan</b>	118 days	Thu 28/11/13	Tue 25/3/14				
51	Design	70 days	Tue 17/12/13	Mon 24/2/14		45	52FS-89 days	N
52	Deployment plan	118 days	Thu 28/11/13	Tue 25/3/14		51FS-89 days	202	N
53	<b>Dredging Works at Portions A and B</b>	891 days	Tue 19/11/13	Wed 27/4/16				
54	<b>General seabed</b>	891 days	Tue 19/11/13	Wed 27/4/16				
55	Marine Notice approval by Marine Departemnt	247 days	Tue 19/11/13	Wed 23/7/14		185	N	
56	<b>Noise Permit</b>	739 days	Mon 23/12/13	Thu 31/12/15				
57	General	101 days	Mon 23/12/13	Wed 2/4/14		183,185	N	









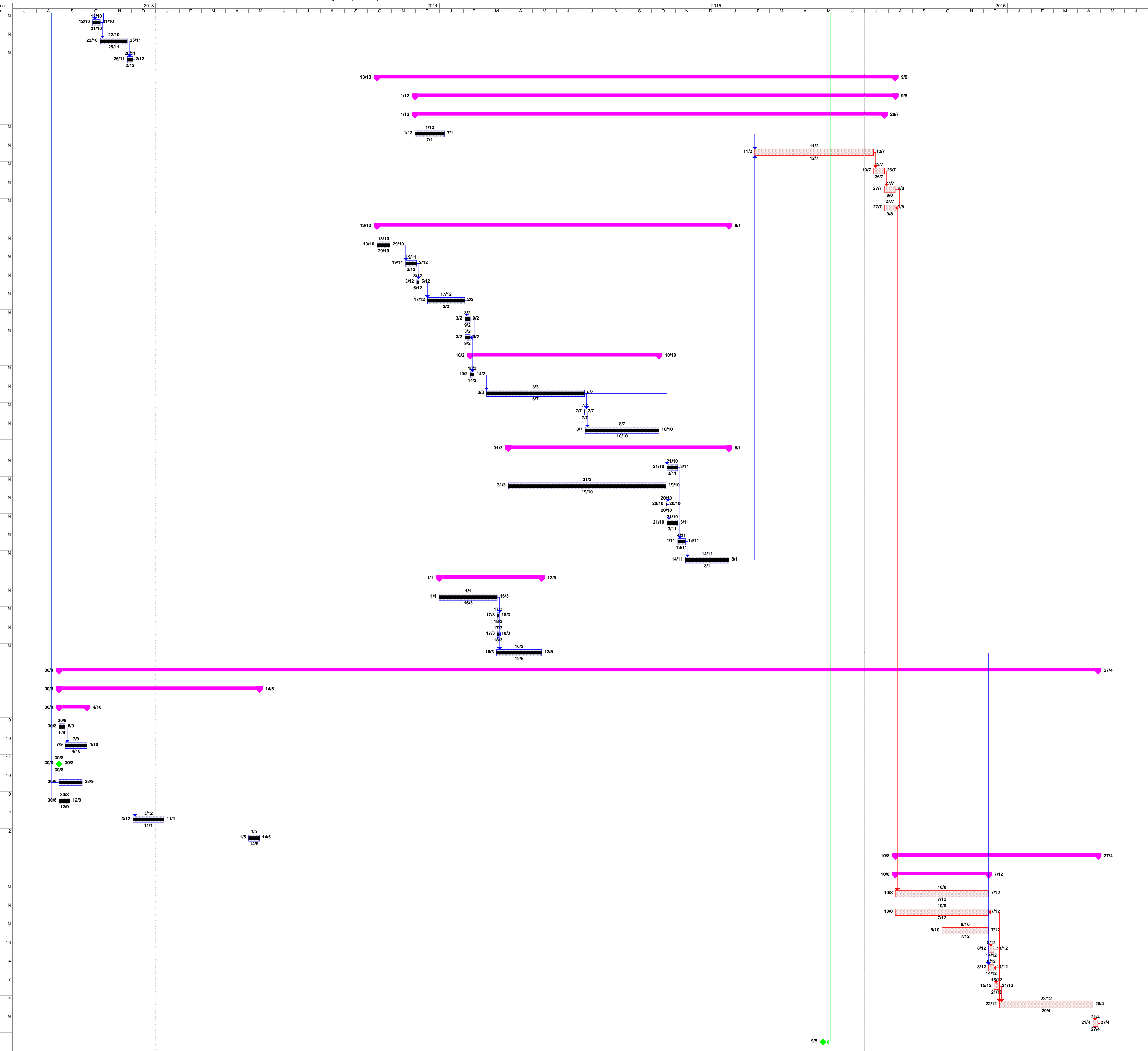
China International Water & Electric Corp. Task Critical Task Milestone Summary

\* Subject to availability of working windows

ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Resource Names
172	Organizing meeting for information collection	990 days	Mon 30/9/13	Wed 15/6/16			N
173	Temporary marine traffic management and TMTM meeting	952 days	Fri 22/11/13	Thu 30/6/16	42FS-60 days,43		N
174	<b>Dredging Works (Portions A to E)</b>	<b>964 days</b>	<b>Sun 1/12/13</b>	<b>Thu 21/7/16</b>			
175	Interface with other contractors or utility undertakings	943 days	Sun 1/12/13	Thu 30/6/16			N
176	Organizing coordination meeting	943 days	Sun 1/12/13	Thu 30/6/16			N
177	<b>Silt screen (Location see Drg No. EM/401)</b>	<b>882 days</b>	<b>Fri 21/2/14</b>	<b>Thu 21/7/16</b>			
178	Installation of silt screen	7 days	Fri 21/2/14	Thu 27/2/14	47	179,202	6
179	Maintenance of silt screen	813 days	Thu 24/4/14	Thu 14/7/16	178	180,199FF	6
180	Removal of silt screen	7 days	Fri 15/7/16	Thu 21/7/16	179		6
181	<b>Dredging Works at Portions A and B</b>	<b>710 days</b>	<b>Mon 9/6/14</b>	<b>Wed 18/5/16</b>			
182	<b>General seabed</b>	<b>701 days</b>	<b>Mon 9/6/14</b>	<b>Mon 9/5/16</b>			
183	Mobilization	42 days	Fri 27/6/14	Thu 7/8/14	74,77,16,57	185	7
184	Fabrication of silt curtain	7 days	Mon 9/6/14	Sun 15/6/14		185	8
185	Pilot test for silt curtain	2 days	Fri 8/8/14	Sat 9/8/14	164,74,16,47,55,57	187	7
186	Monitoring brief for unidentified sonar contacts & masked areas	3 days	Wed 27/7/14	Fri 4/7/14		187	N
187	Dredging works 1 (subject to availability of working windows)	30 days	Sun 10/8/14	Mon 1/9/14	74,77,22,27FS-139 days	195	7
188	Dredging works 2 (subject to availability of working windows)	595 days	Tue 23/9/14	Mon 9/5/16	195,69	169,199	7
189	<b>Type 3 Cat Hf Sediment (Portion A)</b>	<b>292 days</b>	<b>Sat 1/8/15</b>	<b>Wed 18/5/16</b>			
190	Procurement and delivery of Geo-container	112 days	Sat 1/8/15	Fri 20/11/15	104	192	N
191	<b>Trial dumping operation of Type 2 sediment using geo-containers</b>	<b>34 days</b>	<b>Fri 26/2/16</b>	<b>Wed 30/3/16</b>			
192	Trial dumping	34 days	Fri 26/2/16	Wed 30/3/16	85,190	193,86	7
193	Dredging works	21 days	Thu 28/4/16	Wed 18/5/16	104,192,87		7
194	<b>Hot Spot (Portion A)</b>	<b>609 days</b>	<b>Tue 9/9/14</b>	<b>Mon 9/5/16</b>			
195	Field trial at Zone Z2C	14 days	Tue 9/9/14	Mon 22/9/14	187,108	188,110	7
196	Dredging works at Z2B *	493 days	Thu 1/1/15	Mon 9/5/16	114	169	7
197	Dredging of hard material *	493 days	Thu 1/1/15	Mon 9/5/16	121	169	7
198	Outfall demolition works*	70 days	Tue 1/3/16	Mon 9/5/16		169,199	7
199	Removal of high spots*	66 days	Tue 10/5/16		58FF,164FF,179FF	220FS-14 days,169	7
200	<b>Dredging Works for Portions C, D and E</b>	<b>707 days</b>	<b>Fri 18/4/14</b>	<b>Thu 24/3/16</b>			
201	<b>Dredging Works for Portion D</b>	<b>666 days</b>	<b>Fri 18/4/14</b>	<b>Fri 12/2/16</b>			
202	Mobilization	7 days	Fri 18/4/14	Ti	1,16,52,123,124,125	203,204,156,164	9
203	Pilot test of silt curtain	2 days	Fri 25/4/14	Sat 26/4/14	202	204FF	9
204	Trial dredging	2 days	Fri 25/4/14	Sat 26/4/14	202,203FF	205	9
205	Dredging works	153 days	Sun 27/4/14	Fri 26/9/14	204	208,206	9
206	Removal of high spots	1 day	Fri 12/2/16	Fri 12/2/16	205,209FF	169	9
207	<b>Dredging Works for Portion E</b>	<b>504 days</b>	<b>Sat 27/9/14</b>	<b>Fri 12/2/16</b>			
208	Dredging Works	51 days	Sat 27/9/14	Sun 16/11/14	205	209,211,213	9
209	Removal of high spots	1 day	Fri 12/2/16	Fri 12/2/16	208,214SS+20 days	169,208FF	9
210	<b>Dredging Works for Portion C</b>	<b>478 days</b>	<b>Wed 3/12/14</b>	<b>Thu 24/3/16</b>			
211	Northern west section	260 days	Wed 3/12/14	Wed 19/8/15	208		7,9
212	Middle section	16 days	Thu 5/11/15	Fri 20/11/15	213FS+4 days	214	7
213	Southern east section	321 days	Mon 15/12/14	Sat 31/10/15	208	212FS+4 days	7,9
214	Removal of high spots	62 days	Sat 23/1/16	Thu 24/3/16	212	169,209SS+20 days	7,9
215	<b>Marine Ground Investigation Works near KC5 in Portion A</b>	<b>74 days</b>	<b>Fri 14/4/16</b>	<b>Mon 13/6/16</b>			
216	Mobilization	7 days	Fri 14/4/16	Thu 7/4/16		217	15
217	Drilling*	32 days	Fri 8/4/16	Mon 9/5/16		216	15
218	Report	35 days	Tue 10/5/16	Mon 13/6/16		217	N
219	<b>Remaining Works</b>	<b>315 days</b>	<b>Fri 1/7/16</b>	<b>Thu 11/5/17</b>			
220	Removal of rock material outside berth KC5 (Details to be confirmed later)*	304 days	Fri 1/7/16	Sun 30/4/17	199FS-14 days		16
221	Dredging works around Tsing Yi Submarine Outfall*	14 days	Fri 28/4/17	Thu 11/5/17	283		7
222	<b>Section 2</b>	<b>1337 days</b>	<b>Fri 30/8/13</b>	<b>Thu 27/4/17</b>			
223	<b>Submission</b>	<b>1064 days</b>	<b>Wed 11/9/13</b>	<b>Tue 9/8/16</b>			
224	<b>Preliminaries (Portion F)</b>	<b>83 days</b>	<b>Wed 11/9/13</b>	<b>Mon 2/12/13</b>			
225	<b>Engineer Principal Accommodation</b>	<b>83 days</b>	<b>Wed 11/9/13</b>	<b>Mon 2/12/13</b>			
226	Preparation and submission of location and layout	0 days	Wed 11/9/13	Wed 11/9/13		227	N
227	Approval of location and layout	30 days	Thu 12/9/13	Fri 11/10/13		226	N
228	Independent Checking Engineer (ICE)	14 days	Mon 7/10/13	Sun 20/10/13	229FF-1 day		N



ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Resource Names	
229	Preparation of calculation	10 days	Sat 12/10/13	Mon 21/10/13	227	230,228FF-1 day	N	
230	Comment and resubmission of calculation	35 days	Tue 22/10/13	Mon 25/11/13	229	231	N	
231	Approval of calculation	7 days	Tue 26/11/13	Mon 2/12/13	230	272	N	
232	<b>Outfall Modification Works (Location see Drg No. S202)</b>	<b>667 days</b>	<b>Mon 13/10/14</b>	<b>Tue 9/8/16</b>				
233	<b>Method statement for modification works</b>	<b>618 days</b>	<b>Mon 11/12/14</b>	<b>Tue 9/8/16</b>				
234	<b>Preparation and submission</b>	<b>604 days</b>	<b>Mon 11/12/14</b>	<b>Tue 26/7/16</b>				
235	Preparation and submission	38 days	Mon 11/12/14	Wed 7/1/15		236	N	
236	Awaiting resolving TMTA constraints	153 days	Thu 11/12/16	Tue 12/7/16	235,258	237	N	
237	Resubmission	14 days	Wed 13/7/16	Tue 26/7/16	236	238	N	
238	Approval by Mott	14 days	Wed 27/7/16	Tue 9/8/16	237	239FF	N	
239	Approval by DSD	14 days	Wed 27/7/16	Tue 9/8/16	238FF	276	N	
240	<b>Flow Measurement Survey</b>	<b>453 days</b>	<b>Mon 13/10/14</b>	<b>Fri 8/1/16</b>				
241	Preparation and submission	17 days	Mon 13/10/14	Wed 29/10/14		242	N	
242	Resubmission	14 days	Wed 19/11/14	Tue 2/12/14	241	243	N	
243	Further comment by Mott	3 days	Wed 3/12/14	Fri 5/12/14	242	244	N	
244	Resubmission	48 days	Wed 17/12/14	Mon 2/2/15	243	245	N	
245	Approval by Mott	7 days	Tue 3/2/15	Mon 9/2/15	244	246FF	N	
246	Approval by DSD	7 days	Tue 3/2/15	Mon 9/2/15	245FF	248	N	
247	<b>Flow Survey Measurement report</b>	<b>243 days</b>	<b>Tue 10/2/15</b>	<b>Sat 10/10/15</b>				
248	Analyzing survey data	5 days	Tue 10/2/15	Sat 14/2/15	246	249	N	
249	Preparation and submission	126 days	Tue 3/3/15	Mon 6/7/15	248	253,250	N	
250	Approval by Mott	1 day	Tue 7/7/15	Tue 7/7/15	249	251	N	
251	Approval by DSD	95 days	Wed 8/7/15	Sat 10/10/15	250		N	
252	<b>Engineer's Assessment Report on Flow Measurement Survey</b>	<b>284 days</b>	<b>Tue 31/3/15</b>	<b>Fri 8/1/16</b>				
253	Assessment calculations	14 days	Wed 21/10/15	Tue 3/11/15	249	257	N	
254	Preparation and submission	203 days	Tue 31/3/15	Mon 19/10/15	255		N	
255	Further comment by Mott	1 day	Tue 20/10/15	Tue 20/10/15	254	256	N	
256	Resubmission	14 days	Wed 21/10/15	Tue 3/11/15	255	257	N	
257	Approval by Mott	10 days	Wed 4/11/15	Fri 13/11/15	256,253	258	N	
258	Approval by DSD	56 days	Sat 14/11/15	Fri 8/1/16	257	236	N	
259	<b>Video Filming and Dye Test</b>	<b>132 days</b>	<b>Thu 11/1/15</b>	<b>Tue 12/5/15</b>				
260	Preparation and submission	75 days	Thu 11/1/15	Mon 16/3/15		261,263FS-1 day	N	
261	Approval by Mott	2 days	Tue 17/3/15	Wed 18/3/15	260	262FF	N	
262	Approval by DSD	2 days	Tue 17/3/15	Wed 18/3/15	261FF		N	
263	Using digital camera in lieu of CCTV	58 days	Mon 16/3/15	Tue 12/5/15	260FS-1 day	280	N	
264	<b>Works</b>	<b>1337 days</b>	<b>Fri 30/8/13</b>	<b>Thu 27/4/17</b>				
265	<b>Preliminaries (Portion F)</b>	<b>258 days</b>	<b>Fri 30/8/13</b>	<b>Wed 14/5/14</b>				
266	<b>Contractor's mobilization</b>	<b>36 days</b>	<b>Fri 30/8/13</b>	<b>Fri 4/10/13</b>				
267	Site clearance	8 days	Fri 30/8/13	Fri 6/9/13		4SS,268	10	
268	Contractor's site office	28 days	Sat 7/9/13	Fri 4/10/13		267	10	
269	Security Guard	0 days	Fri 30/8/13	Fri 30/8/13		4SS	11	
270	Temporary electricity power supply	30 days	Fri 30/8/13	Sat 28/9/13		4SS	10	
271	Engineer's Initial Temporary Accommodation	14 days	Fri 30/8/13	Thu 12/9/13		4SS	10	
272	Engineer's Principal Accommodation	40 days	Tue 3/12/13	Sat 11/1/14		231	12	
273	Engineer's Car Park	14 days	Thu 1/5/14	Wed 14/5/14			12	
274	<b>Outfall Modification Works (Location see Drg No. S202)</b>	<b>261 days</b>	<b>Wed 10/8/16</b>	<b>Thu 27/4/17</b>				
275	<b>Procurement of material</b>	<b>120 days</b>	<b>Wed 10/8/16</b>	<b>Wed 7/12/16</b>				
276	Non return valves	120 days	Wed 10/8/16	Wed 7/12/16		239	277FF,279	N
277	Flange adaptors	120 days	Wed 10/8/16	Wed 7/12/16		276FF	282,279	N
278	1200mm diameter concrete pipes	60 days	Sun 9/10/16	Wed 7/12/16			282,279	N
279	Dye test	7 days	Thu 8/12/16	Wed 14/12/16		278,276,277	280FF	13
280	Video filming	7 days	Thu 8/12/16	Wed 14/12/16		279FF,263	281	14
281	Dredging works	7 days	Thu 15/12/16	Wed 21/12/16		280	282	7
282	Modification works	120 days	Thu 22/12/16	Thu 20/4/17		277,278,281	283	14
283	As-built video submission	7 days	Fri 21/4/17	Thu 27/4/17		282	221	N
284	<b>Extended Contract Completion Date</b>	<b>0 days</b>	<b>Mon 9/5/16</b>	<b>Mon 9/5/16</b>		3FF		



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**MaterialLab**

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Report No.: 0394/13/ED/0356A

Appendix C  
Action and Limit Levels

Action and Limit Levels for Routine Water Quality Monitoring (Dry Season)

Monitoring Station	DO (mg/L) Surface & Middle		DO (mg/L) Bottom		Turbidity (NTU) Depth-Averaged		Suspended Solids (mg/L) Depth-averaged		BOD5(mg/L) Depth- averaged		E.coli (CFU /100mL) Depth- averaged		NH3-N (mg/L) Depth-averaged		UIA (mg/L) Depth- averaged		Synthetic Detergent as MBAS (mg/L) Depth- averaged		TIN (mg/L) Depth Averaged	
	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
Seawater Intake																				
SR4	2	2	2	2	<10	<10	<10	<10	<10	<10	<20,000	<20,000	<1	<1	0.021	0.021	<5	<5	NA	NA
SR12																				
Fish Culture Zone																				
SR5	5.45	5.39 <sup>#</sup>	5.43	5.27 <sup>+</sup>	6.7 or 120% <sup>C*</sup>	10.1 or 130% <sup>C^</sup>	12 or 120% <sup>C*</sup>	19 or 130% <sup>C^</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.36	0.39
Gazetted Beach																				
SR2	5.45	5.39 <sup>#</sup>	5.43	5.27 <sup>+</sup>	6.7 or 120% <sup>C*</sup>	10.1 or 130% <sup>C^</sup>	12 or 120% <sup>C*</sup>	19 or 130% <sup>C^</sup>	NA	NA	NA	NA	0.21 or 120% <sup>C*</sup>	0.24 or 130% <sup>C^</sup>	0.021	0.021	NA	NA	NA	NA
SR3																				
EMSD Cooling Water Intake																				
SR13	5.31	5.22 <sup>#</sup>	5.29	5.12 <sup>+</sup>	13.1 or 120% <sup>C*</sup>	15.7 or 130% <sup>C^</sup>	23 or 120% <sup>C*</sup>	38 or 130% <sup>C^</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Note:

\* Or 120% of upstream control station at the same tide of the day

^ Or 130% of upstream control station at the same tide of the day

# According to EM&A Manual, LL of DO (surface & middle) is 5 mg/L or 1 percentile of baseline data in FCZ; 4 mg/L or 1 percentile of baseline data in other impact monitoring stations.

+ According to EM&A Manual, LL of DO (bottom) is 2 mg/L or 1 percentile of baseline data

For DO measurement, non-compliance occurs when monitoring result is lower than the limits;

For TIN, UIA, NH<sub>3</sub>-N, SS, BOD<sub>5</sub>, E.coli, synthetic detergent and turbidity, non-compliance of water quality results when monitoring results is higher than the limits;

AL/LL of TIN and NH<sub>3</sub>-N are determined from laboratory results for better accuracy and reliability. These AL/LL will be applied to both laboratory and in-situ measurements at impact stage.

Dry Season: November to March



## Action and Limit Levels for Routine Water Quality Monitoring (Wet Season)

Monitoring Station	DO (mg/L) Surface & Middle		DO (mg/L) Bottom		Turbidity (NTU) Depth-Averaged		Suspended Solids (mg/L) Depth-averaged		BOD5 (mg/L) Depth-averaged		E.coli (CFU /100mL) Depth-averaged		NH3-N (mg/L) Depth-averaged		UIA (mg/L) Depth-averaged		Synthetic Detergent as MBAS (mg/L) Depth-averaged		TIN (mg/L) Depth Averaged	
	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
Seawater Intake																				
SR4	2	2	2	2	<10	<10	<10	<10	<10	<10	<20,000	<20,000	<1	<1	0.021	0.021	<5	<5	NA	NA
SR12																				
Fish Culture Zone																				
SR5	5.00#	5.00#	4.11	4.04+	10.8 or 120%C*	15.0 or 130%C^	12 or 120%C*	19 or 130%C^	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.45	0.50
Gazetted Beach																				
SR2	4.68	4.62#	4.11	4.04+	10.8 or 120%C*	15.0 or 130%C^	12 or 120%C*	19 or 130%C^	NA	NA	NA	NA	0.21 or 120%C*	0.24 or 130%C^	0.021	0.021	NA	NA	NA	NA
SR3																				
EMSD Cooling Water Intake																				
SR13	4.24	4.17#	3.70	3.58+	13.1 or 120%C*	15.7 or 130%C^	23 or 120%C*	38 or 130%C^	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Note:

\* Or 120% of upstream control station at the same tide of the day

^ Or 130% of upstream control station at the same tide of the day

# According to EM&A Manual, LL of DO (surface & middle) is 5 mg/L or 1 percentile of baseline data in FCZ; 4 mg/L or 1 percentile of baseline data in other impact monitoring stations. (5%ile & 1 %ile determined from wet season baseline data for cluster 1 (4.68mg/L & 4.62mg/L) and cluster 2 (5.00mg/L & 4.82mg/L) are 5mg/L or below, thus 5mg/L was adopted as the AL & LL for the SR in FCZ)

+ According to EM&A Manual, LL of DO (bottom) is 2 mg/L or 1 percentile of baseline data

Referring to the ER Letter ref. (CV/2013/04)/M45/400/1247 dated 19 March 2015, a Revised Baseline Water Quality Monitoring Test Methodology – Review of Action and Limit Levels has been submitted to EPD by ER in March 2015. The Action and Limit Level for the wet season (April – October) was effected and applied to the water quality monitoring data from 1 April 2015.

For DO measurement, non-compliance occurs when monitoring result is lower than the limits;

For TIN, UIA, NH<sub>3</sub>-N, SS, BOD<sub>5</sub>, E.coli, synthetic detergent and turbidity, non-compliance of water quality results when monitoring results is higher than the limits;

AL/LL of TIN and NH<sub>3</sub>-N are determined from laboratory results for better accuracy and reliability. These AL/LL will be applied to both laboratory and in-situ measurements at impact stage.

Wet season: April to October

Action and Limit Levels for 24-hr Water Quality Monitoring (Dry Season)

Monitoring Station	DO (mg/L) Surface		Turbidity (NTU) Surface		Ammonia-N (mg/L) Surface	
	AL	LL	AL	LL	AL	LL
WSD Seawater Intake						
SR4	2	2	<10	<10	<1	<1
SR12						
Fish Culture Zone						
SR5	5.46	5.39	6.0	7.9	NA	NA
EMSD Cooling Water Intake						
SR13	5.28	5.22	11.9	13.3	NA	NA

Note: According to EM&A Manual, LL of DO (surface & middle) is 5 mg/L or 1 percentile of baseline data in FCZ; 4 mg/L or 1 percentile of baseline data in other impact monitoring stations.

Dry Season: November to March.

Action and Limit Levels for 24-hr Water Quality Monitoring (Wet Season)

Monitoring Station	DO (mg/L) Surface		Turbidity (NTU) Surface		Ammonia-N (mg/L) Surface	
	AL	LL	AL	LL	AL	LL
WSD Seawater Intake						
SR4	2	2	<10	<10	<1	<1
SR12						
Fish Culture Zone						
SR5	5.24	5.13	9.7	14.4	NA	NA
EMSD Cooling Water Intake						
SR13	4.23	4.17	11.9	13.3	NA	NA

Note: # According to EM&A Manual, LL of DO (surface & middle) is 5 mg/L or 1 percentile of baseline data in FCZ; 4 mg/L or 1 percentile of baseline data in other impact monitoring stations. (1 %ile determined from wet season baseline data for cluster 2 (4.78mg/L) is below 5mg/L, thus 5mg/L was adopted as the DO (surface) LL for the SR in FCZ in cluster 2 stations)

Referring to the ER Letter ref. (CV/2013/04)/M45/400/1247 dated 19 March 2015, a Revised Baseline Water Quality Monitoring Test Methodology – Review of Action and Limit Levels has been submitted to EPD by ER in March 2015. The Action and Limit Level for the wet season (April – October) was effected and applied to the water quality monitoring data from 1 April 2015.

Wet Season: April to October.

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**MaterialLab**

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Report No.: 0394/13/ED/0356A

Appendix D  
Copies of Calibration Certificates



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Report No.: 0394/13/ED/0356A

Calibration Certificates  
Impact Monitoring

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Website : www.fugro.com

# MaterialLab

Report No. : 142626WA170045(2)



Page 1 of 3

## Report on Calibration of YSI 69201V2-M Multi-parameter Water Quality Meter

### Information Supplied by Client

Client : MaterialLab Consultants Limited

Client's address : Rm. 23, 25, 7/F, Profit Industrial Building, No. 1-15,  
Kwai Fung Crescent, Kwai Chung, N.T.

Project : CV/2013/04 – Providing Sufficient Water Depth for  
Kwai Tsing Container Basin and its Approach Channel

Sample description : One YSI 69201V2-M Multi-parameter Water Quality Meter

Client sample ID : Serial No. 14A102902

Test required : Calibration of the YSI 69201V2-M Multi-parameter Water Quality  
Meter

### Laboratory Information

Lab. sample ID : WA170045/3

Date sample received : 06/01/2017

Date of calibration : 06/01/2017

Next calibration date : 05/04/2017

Test method used : In-house comparison method

*Note : This report refers only to the sample(s) tested.*

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# MaterialLab

Report No. : 142626WA170045(2)

Page 2 of 3

**Results :**

**A. pH calibration**

pH reading at 21°C for Q.C. solution(6.86) and at 21°C for Q.C. solution(9.18)		
Theoretical	Measured	Deviation
9.18	9.12	-0.06
6.86	6.91	+0.05

**B. Dissolved Oxygen calibration**

Trial No.	Dissolved oxygen content, mg/L	
	By Titration	By D.O. meter
1	8.81	8.78
2	8.88	8.80
3	8.68	8.86
Average	8.79	8.81

Differences of D.O. Content between Wrinkler Titration and D.O. meter should be less than 0.4 mg/L

**C. Temperature calibration**

Thermometer reading, °C	Meter reading, °C
21.75	21.6

Supervised by : Y. M. Chung

Certified by : 

Approved Signatory : HO Kin Man, John  
Manager – Chemistry Department

Date : 26/1/2017

*Note : This report refers only to the sample(s) tested.*

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# MaterialLab

Report No. : 142626WA170045(2)

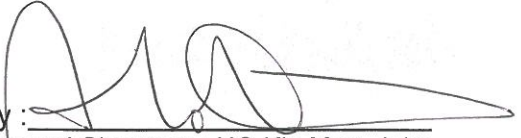
Page 3 of 3

## Results :

### D. Turbidity calibration

Turbidity, N.T.U.			
Theoretical	Measured	Deviation	Maximum acceptable Deviation
0	0.3	+0.30	± 0.8
4	4.5	+0.50	± 1.2
8	8.8	+0.80	± 1.5
40	39.2	-0.80	± 3.0
80	81.3	+1.30	± 4.0

Supervised by : Y. M. Chung

Certified by :   
Approved Signatory : HO Kin Man, John  
Manager – Chemistry Department

Date : 26/11/2017

\*\* End of Report \*\*

*Note : This report refers only to the sample(s) tested.*

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**MaterialLab**Photometer Check Log

Calibration Date:	20 February 2017		
Parameter:	NO <sub>2</sub> -N		
Check Solution ID:	0.2 mg/L NO <sub>3</sub> -N		
Check Solution Prepared by:	Fugro Technical Services		
Check Solution Concentration (mg/L):	0.2 mg N/L		
Equipment (Brand & Model, Equipment No.):	Lowband MD600 W-18	Lowband MD600 W-20	Lowband MD600 W-21
Concentration Reading on Photometer:	0.19 mg/L	0.21 mg/L	0.21 mg/L
Next Calibration Date:	19 March 2017		

Prepared by: AS  
Date: 20-2-2017

Checked by: [Signature]  
Date: 20 February 2017

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### Photometer Check Log

Calibration Date:	20 February 2017		
Parameter:	NH <sub>3</sub> -N		
Check Solution ID:	0.2 mg/L NH <sub>3</sub> -N		
Check Solution Prepared by:	Fugro Technical Services		
Check Solution Concentration (mg/L):	0.2 mg N/L		
Equipment (Brand & Model, Equipment No.):	Lowband MD600 W-18	Lowband MD600 W-20	Lowband MD600 W-21
Concentration Reading on Photometer:	0.19 mg/L	0.20 mg/L	0.20 mg/L
Next Calibration Date:	19 March 2017		

Prepared by:         

Date:         

          
 20-2-2017

Checked by:         

Date:         

          
 20 February 2017

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**MaterialLab****Photometer Check Log**

<b>Calibration Date:</b>	20 February 2017		
<b>Parameter:</b>	NO <sub>3</sub> -N		
<b>Check Solution ID:</b>	0.4 mg/L NO <sub>3</sub> -N		
<b>Check Solution Prepared by:</b>	Fugro Technical Services		
<b>Check Solution Concentration (mg/L):</b>	0.4 mg N/L		
<b>Equipment (Brand &amp; Model, Equipment No.):</b>	HACH DR900 N-09	HACH DR900 N-60	HACH DR900 N-11
<b>Concentration Reading on Photometer:</b>	0.415 mg/L	0.408 mg/L	0.383 mg/L
<b>Next Calibration Date:</b>	19 March 2017		

Prepared by: AYDate: 20-2-2017Checked by: [Signature]Date: 20 February 2017

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**MaterialLab**Photometer Check Log

Calibration Date:	18 March 2017		
Parameter:	NO <sub>2</sub> -N		
Check Solution ID:	0.2 mg/L NO <sub>2</sub> -N		
Check Solution Prepared by:	Fugro Technical Services		
Check Solution Concentration (mg/L):	0.2 mg N/L		
Equipment (Brand & Model, Equipment No.):	Loiibond MD600 N-18	Loiibond MD600 W-20	Loiibond MD600 W-21
Concentration Reading on Photometer:	0.20 mg/L	0.19 mg/L	0.19 mg/L
Next Calibration Date:	17 April 2017		

Prepared by:                   *AJ*                  Date:           18 March 2017          Checked by:                   *f*                  Date:           18 March 2017



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**MaterialLab****Photometer Check Log**

<b>Calibration Date:</b>	18 March 2017		
<b>Parameter:</b>	NH <sub>3</sub> -N		
<b>Check Solution ID:</b>	0.2 mg/L NH <sub>3</sub> -N		
<b>Check Solution Prepared by:</b>	Fugro Technical Services		
<b>Check Solution Concentration (mg/L):</b>	0.2 mg N/L		
<b>Equipment (Brand &amp; Model, Equipment No.):</b>	Lovibond MD600 W-18	Lovibond MD600 W-20	Lovibond MD600 W-21
<b>Concentration Reading on Photometer:</b>	0.21 mg/L	0.21 mg/L	0.21 mg/L
<b>Next Calibration Date:</b>	17 April 2017		

Prepared by: Date: 18 March 2017Checked by: Date: 18 March 2017

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**MaterialLab****Photometer Check Log**

Calibration Date:	18 March 2017		
Parameter:	NO <sub>3</sub> -N		
Check Solution ID:	0.4 mg/L NO <sub>3</sub> -N		
Check Solution Prepared by:	Fugro Technical Services		
Check Solution Concentration (mg/L):	0.4 mg N/L		
Equipment (Brand & Model, Equipment No.):	HACH DR900 W-09	HACH DR900 W-10	HACH DR900 W-11
Concentration Reading on Photometer:	0.392 mg/L	0.413 mg/L	0.427 mg/L
Next Calibration Date:	17 April 2017		

Prepared by: AYDate: 18 March 2017Checked by: [Signature]Date: 18 March 2017

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**MaterialLab**

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Report No.: 0394/13/ED/0356A

Calibration Certificate  
24-hr Monitoring

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Calibration Certificate  
24-hr Monitoring – SR4

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# MaterialLab

Report No. : 142626WA170223



Page 1 of 2

## Report on Calibration of YSI 69201V2-M Multi-parameter Water Quality Meter

### Information Supplied by Client

Client : MaterialLab Consultants Limited

Client's address : Rm. 23, 25, 7/F, Profit Industrial Building, No. 1-15,  
Kwai Fung Crescent, Kwai Chung, N.T.

Project : CV/2013/04 – Providing Sufficient Water Depth for  
Kwai Tsing Container Basin and its Approach Channel

Sample description : One YSI 69201V2-M Multi-parameter Water Quality Meter

Client sample ID : Serial No. 14E102239

Test required : Calibration of the YSI 69201V2-M Multi-parameter Water Quality  
Meter

### Laboratory Information

Lab. sample ID : WA170223/1

Date sample received : 20/02/2017

Date of calibration : 20/02/2017

Next calibration date : 19/05/2017

Test method used : In-house comparison method

*Note : This report refers only to the sample(s) tested.*

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Report No. : 142626WA170223

Page 2 of 2

**Results :****A. Dissolved Oxygen calibration**

Trial No.	Dissolved oxygen content, mg/L	
	By Titration	By D.O. meter
1	8.32	8.48
2	8.56	8.53
3	8.56	8.51
Average	8.48	8.51

Differences of D.O. Content between Winkler Titration and D.O. meter should be less than 0.4 mg/L

**B. Temperature calibration**

Thermometer reading, °C	Meter reading, °C
22.0	21.81

**C. Turbidity calibration**

Turbidity, N.T.U.			
Theoretical	Measured	Deviation	Maximum acceptable Deviation
0	-0.4	-0.40	± 0.8
4	4.1	+0.10	± 1.2
8	8.0	0.00	± 1.5
40	40.3	+0.30	± 3.0
80	80.3	+0.30	± 4.0

Supervised by : Y. M. Chung

Certified by :   
Approved Signatory : HO Kin Man, John  
Manager – Chemistry Department

Date : 6/3/2017

**\*\* End of Report \*\***

*Note : This report refers only to the sample(s) tested.*

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Calibration Certificate  
24-hr Monitoring – SR5

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The logo for MaterialLab, featuring the word "MaterialLab" in a bold, sans-serif font. The text is white and set against a dark rectangular background. Above and below the text are thin, horizontal gold-colored lines.

Report No. : 142626WA170223(1)



Page 1 of 2

## Report on Calibration of YSI 69201V2-M Multi-parameter Water Quality Meter

### Information Supplied by Client

Client : MaterialLab Consultants Limited

Client's address : Rm. 23, 25, 7/F, Profit Industrial Building, No. 1-15,  
Kwai Fung Crescent, Kwai Chung, N.T.

Project : CV/2013/04 – Providing Sufficient Water Depth for  
Kwai Tsing Container Basin and its Approach Channel

Sample description : One YSI 69201V2-M Multi-parameter Water Quality Meter

Client sample ID : Serial No. 14A102908

Test required : Calibration of the YSI 69201V2-M Multi-parameter Water Quality  
Meter

### Laboratory Information

Lab. sample ID : WA170223/2

Date sample received : 20/02/2017

Date of calibration : 20/02/2017

Next calibration date : 19/05/2017

Test method used : In-house comparison method

*Note : This report refers only to the sample(s) tested.*



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Report No. : 142626WA170223(1)

Page 2 of 2

**Results :****A. Dissolved Oxygen calibration**

Trial No.	Dissolved oxygen content, mg/L	
	By Titration	By D.O. meter
1	8.52	8.71
2	8.28	8.48
3	8.64	8.58
Average	8.48	8.59

Differences of D.O. Content between Wrinkler Titration and D.O. meter should be less than 0.4 mg/L

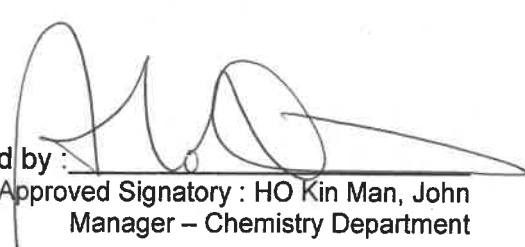
**B. Temperature calibration**

Thermometer reading, °C	Meter reading, °C
22.0	21.81

**C. Turbidity calibration**

Turbidity, N.T.U.			
Theoretical	Measured	Deviation	Maximum acceptable Deviation
0	-0.2	-0.20	± 0.8
4	4.2	+0.20	± 1.2
8	7.9	-0.10	± 1.5
40	39.0	-1.00	± 3.0
80	79.6	-0.40	± 4.0

Supervised by : Y. M. Chung

Certified by :   
Approved Signatory : HO Kin Man, John  
Manager – Chemistry Department

Date : 6/3/2017

**\*\* End of Report \*\***

*Note : This report refers only to the sample(s) tested.*

---

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**Materialab**

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Calibration Certificate  
24-hr Monitoring – SR12

# FUGRO TECHNICAL SERVICES LIMITED

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# MaterialLab

Report No. : 142626WA170045(1)



Page 1 of 2

## Report on Calibration of YSI 69201V2-M Multi-parameter Water Quality Meter

### Information Supplied by Client

Client : MaterialLab Consultants Limited

Client's address : Rm. 23, 25, 7/F, Profit Industrial Building, No. 1-15,  
Kwai Fung Crescent, Kwai Chung, N.T.

Project : CV/2013/04 – Providing Sufficient Water Depth for  
Kwai Tsing Container Basin and its Approach Channel

Sample description : One YSI 69201V2-M Multi-parameter Water Quality Meter

Client sample ID : Serial No. 14A102898

Test required : Calibration of the YSI 69201V2-M Multi-parameter Water Quality  
Meter

### Laboratory Information

Lab. sample ID : WA170045/2

Date sample received : 06/01/2017

Date of calibration : 06/01/2017

Next calibration date : 05/04/2017

Test method used : In-house comparison method

*Note : This report refers only to the sample(s) tested.*

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Report No. : 142626WA170045(1)

Page 2 of 2

**Results :****A. Dissolved Oxygen calibration**

Trial No.	Dissolved oxygen content, mg/L	
	By Titration	By D.O. meter
1	8.72	8.90
2	8.88	8.94
3	8.64	8.85
Average	8.75	8.90

Differences of D.O. Content between Wrinkler Titration and D.O. meter should be less than 0.4 mg/L


**B. Temperature calibration**

Thermometer reading, °C	Meter reading, °C
20.4	20.49

**C. Turbidity calibration**

Turbidity, N.T.U.			
Theoretical	Measured	Deviation	Maximum acceptable Deviation
0	0.0	0.00	± 0.8
4	4.4	+0.40	± 1.2
8	7.7	-0.30	± 1.5
40	39.4	-0.60	± 3.0
80	80.2	+0.20	± 4.0

Supervised by : Y. M. Chung

Certified by :   
Approved Signatory : HO Kin Man, John  
Manager – Chemistry Department

Date : 26/11/2017

**\*\* End of Report \*\***

*Note : This report refers only to the sample(s) tested.*

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**Materialab**

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Calibration Certificate  
24-hr Monitoring – SR13

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# MaterialLab

Report No. : 142626WA170045



Page 1 of 3

## Report on Calibration of YSI 69201V2-M Multi-parameter Water Quality Meter

### Information Supplied by Client

Client : MaterialLab Consultants Limited

Client's address : Rm. 23, 25, 7/F, Profit Industrial Building, No. 1-15,  
Kwai Fung Crescent, Kwai Chung, N.T.

Project : CV/2013/04 – Providing Sufficient Water Depth for  
Kwai Tsing Container Basin and its Approach Channel

Sample description : One YSI 69201V2-M Multi-parameter Water Quality Meter

Client sample ID : Serial No. 14E101875

Test required : Calibration of the YSI 69201V2-M Multi-parameter Water Quality  
Meter

### Laboratory Information

Lab. sample ID : WA170045/1

Date sample received : 06/01/2017

Date of calibration : 06/01/2017

Next calibration date : 05/04/2017

Test method used : In-house comparison method

*Note : This report refers only to the sample(s) tested.*



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Report No. : 142626WA170045

Page 2 of 3

**Results :**

**A. Salinity calibration**


Salinity, ppt			
Theoretical	Measured	Deviation	Maximum acceptable Deviation
10	9.85	-0.15	± 0.5
20	19.80	-0.20	± 1.0
30	30.03	+0.03	± 1.5
40	40.24	+0.24	± 2.0

**B. Dissolved Oxygen calibration**

Trial No.	Dissolved oxygen content, mg/L	
	By Titration	By D.O. meter
1	8.74	8.60
2	8.51	8.67
3	8.88	8.72
Average	8.71	8.66

Differences of D.O. Content between Wrinkler Titration and D.O. meter should be less than 0.4 mg/L

Supervised by : Y. M. Chung

Certified by :   
Approved Signatory : HO Kin Man, John  
Manager – Chemistry Department

Date : 26/1/2017

Note : This report refers only to the sample(s) tested.

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# MaterialLab

Report No. : 142626WA170045

Page 3 of 3

**Results :**

**C. Temperature calibration**

Thermometer reading, °C	Meter reading, °C
21.4	21.52

**D. Turbidity calibration**

Turbidity, N.T.U.			
Theoretical	Measured	Deviation	Maximum acceptable Deviation
0	0.6	+0.60	± 0.6
4	4.6	+0.60	± 0.7
8	8.6	+0.60	± 0.8
40	41.8	+1.80	± 3.0
80	84.7	+4.70	± 6.0

Supervised by : Y. M. Chung

Certified by : 

Approved Signatory : HO Kin Man, John  
Manager – Chemistry Department

Date : 26/11/2017

\*\* End of Report \*\*

*Note : This report refers only to the sample(s) tested.*



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Calibration Certificate  
24-hr Monitoring – Micromac 1000

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Instrument Number: M1/140701/1365 (SR4)

**Onsite Calibration Checking of Micromac 1000**

Date	Time	ODS	ODE	Reading of 0.5 ppm NH3-N checking standard (ppm)	Voltage checking (Y/N)*, Voltage (V)	Next NH3-N Checking Date	Calibrated by
24/2/2017	12:16	0.017	0.305	0.53	Y, 12.79	1/3/2017	Jimmy
27/2/2017	10:11	0.015	0.300	0.49	N	3/3/2017	Vanoss
1/3/2017	12:11	0.015	0.299	0.48	N	6/3/2017	Ken
6/3/2017	12:06	0.016	0.300	0.51	Y, 12.61	10/3/2017	Toby
10/3/2017	12:16	0.017	0.297	0.48	N	15/3/2017	Wilson
13/3/2017	9:46	0.016	0.300	0.53	N	17/3/2017	Vanoss
15/3/2017	12:06	0.019	0.301	0.50	N	20/3/2017	John C
20/3/2017	12:11	0.018	0.301	0.52	Y, 12.75	24/3/2017	Jimmy

Note: Voltage checking of the power supply of the system applied once per two weeks

Checked by: ↓  
 Date: 20 March 2017

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Instrument Number: M1/140702/1365 (SR12)

**Onsite Calibration Checking of Micromac 1000**

Date	Time	ODS	ODE	Reading of 0.5 ppm NH <sub>3</sub> -N checking standard (ppm)	Voltage checking (Y/N)*, Voltage (V)	Next NH <sub>3</sub> -N Checking Date	Calibrated by
24/2/2017	9:31	0.011	0.299	0.47	Y, 12.63	1/3/2017	Jimmy
27/2/2017	13:06	0.013	0.300	0.50	N	3/3/2017	Vanoss
1/3/2017	9:31	0.014	0.300	0.48	N	6/3/2017	Ken
6/3/2017	9:26	0.014	0.299	0.52	Y, 12.59	10/3/2017	Toby
10/3/2017	9:41	0.012	0.297	0.50	N	15/3/2017	Wilson
13/3/2017	13:06	0.014	0.301	0.54	N	17/3/2017	Vanoss
15/3/2017	9:31	0.013	0.297	0.49	N	20/3/2017	John C
20/3/2017	14:50	0.016	0.301	0.52	Y, 12.70	24/3/2017	Jimmy

Note: Voltage checking of the power supply of the system applied once per two weeks

Checked by: JR  
Date: 20 March 2017

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Report No.: 0394/13/ED/0356A

Appendix E

Schedules for Routine Impact Water Quality Monitoring

Water Quality Monitoring Schedule (Present Reporting Period)

Sun	Mon	Tue	Wed	Thur	Fri	Sat
				23 February 2017 Routine WQM Mid-Ebb (10:51) Mid-Flood (15:42)	24	25 Routine WQM Mid-Ebb (12:08) Mid-Flood (17:21)
26	27	28 Routine WQM Mid-Flood (07:43) Mid-Ebb (13:40)	1 March 2017	2 Routine WQM Mid-Flood (8:52) Mid-Ebb (15:01)	3	4 Routine WQM Mid-Flood (10:11) Mid-Ebb (16:44)
5	6	7 Routine WQM Mid-Ebb (07:50) Mid-Flood (13:18)	8	9 Routine WQM Mid-Ebb (10:40) Mid-Flood (15:54)	10	11 Routine WQM Mid-Flood (06:17) Mid-Ebb (12:01)
12	13	14 Routine WQM Mid-Flood (07:30) Mid-Ebb (13:27)	15	16 Routine WQM Mid-Flood (08:27) Mid-Ebb (14:34)	17	18 Routine WQM Mid-Flood (09:26) Mid-Ebb (15:50)
19	20	21 Routine WQM Mid-Flood (07:34) Mid-Ebb (19:28)	22			

**Remarks**

1. Actual monitoring will be subjected to change due to any safety concern or adverse weather condition.
2. According to the approved proposal (0394\_13\_ED\_03321), starting from 23 January 2017, routine impact water quality monitoring locations are SR2, SR3, SR4, SR5, SR12, SR13, G2, C1A and C2A.

Water Quality Monitoring Schedule (Next Reporting Period)

Sun	Mon	Tue	Wed	Thur	Fri	Sat
				23 March 2017 Routine WQM Mid-Ebb (9:42) Mid-Flood (14:15)	24	25 Routine WQM Mid-Ebb (11:06) Mid-Flood (16:15)
26	27	28 Routine WQM Mid-Flood (06:35) Mid-Ebb (12:38)	29	30 Routine WQM Mid-Flood (07:43) Mid-Ebb (13:58)	31	1 Routine WQM Mid-Flood (08:57) Mid-Ebb (15:28)
2	3	4 Routine WQM Mid-Flood (11:37) Mid-Ebb (19:41)	5	6 Routine WQM Mid-Ebb (09:37) Mid-Flood (14:44)	7	8 Routine WQM Mid-Ebb (11:02) Mid-Flood (16:42)
9	10	11 Routine WQM Mid-Flood (06:25) Mid-Ebb (12:31)	12	13 Routine WQM Mid-Flood (07:20) Mid-Ebb (13:34)	14	15 Routine WQM Mid-Flood (08:15) Mid-Ebb (14:41)
16	17	18 Routine WQM Mid-Flood (09:32) Mid-Ebb (16:53)	19	20 Routine WQM Mid-Flood (06:46) Mid-Ebb (19:18)	21	22 Routine WQM Mid-Ebb (09:56) Mid-Flood (14:55)

**Remarks**

1. Actual monitoring will be subjected to change due to any safety concern or adverse weather condition.
2. According to the approved proposal (0394\_13\_ED\_0332I), starting from 23 January 2017, routine impact water quality monitoring locations are SR2, SR3, SR4, SR5, SR12, SR13, G2, C1A and C2A.

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Report No.: 0394/13/ED/0356A

Appendix F

Water Quality Monitoring Results and Graphical Presentation – Routine Impact Monitoring

## Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																										
										pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)			Ammonia (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)				
										Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	S & M Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	
C1A	23/2/2017	Mid-Flood	Hazv	Rough	12:37	28	S	1	1	8.40		28.40	28.40	18.78	18.78	98.0	98.0	7.71	7.71		0.6	0.6		0.11	0.11		0.008	0.008		0.11	0.34	0.03	0.48			
C1A	23/2/2017	Mid-Flood	Hazv	Rough	12:37	28	S	1	2	8.40	8.40	28.40	28.40	18.78	18.78	98.0	98.0	7.71	7.71	7.70	0.6	0.6	0.8	0.11	0.11	0.11	0.008	0.008	0.007	0.11	0.35	0.03	0.49	0.49		
C1A	23/2/2017	Mid-Flood	Hazv	Rough	12:37	28	S	1	3	8.40	8.40	28.40	28.40	18.78	18.78	98.0	98.0	7.71	7.71	7.70	0.8	0.8	0.7	0.11	0.11	0.11	0.008	0.008	0.007	0.11	0.35	0.03	0.49	0.49		
C1A	23/2/2017	Mid-Flood	Hazv	Rough	12:37	28	M	14	1	8.41	8.41	28.39	28.39	18.77	18.77	97.4	97.4	7.68	7.68		0.8	0.8		0.11	0.11	0.11	0.008	0.008		0.11	0.35	0.03	0.49	0.49		0.48
C1A	23/2/2017	Mid-Flood	Hazv	Rough	12:37	28	M	14	2	8.41	8.41	28.39	28.39	18.77	18.77	97.4	97.4	7.68	7.68		0.7	0.8		0.11	0.11	0.11	0.008	0.008	0.007	0.10	0.35	0.03	0.48	0.49		0.48
C1A	23/2/2017	Mid-Flood	Hazv	Rough	12:37	28	M	14	3	8.39	8.39	28.76	28.77	18.63	18.63	95.4	95.4	7.49	7.50		1.0	1.0		0.10	0.10	0.10	0.007	0.007		0.10	0.35	0.03	0.48	0.47		0.47
C1A	23/2/2017	Mid-Flood	Hazv	Rough	12:37	28	B	27	1	8.39	8.39	28.77	28.77	18.63	18.63	95.3	95.3	7.50	7.50		1.0	1.0		0.10	0.10	0.10	0.007	0.007		0.10	0.35	0.03	0.48	0.47		0.47
C1A	23/2/2017	Mid-Flood	Hazv	Rough	12:37	28	B	27	2	8.39	8.39	28.77	28.77	18.63	18.63	95.3	95.3	7.50	7.50		1.0	1.0		0.10	0.10	0.10	0.007	0.007		0.10	0.35	0.03	0.48	0.47		0.47
C1A	23/2/2017	Mid-Flood	Hazv	Rough	12:37	28	B	27	3	8.39	8.39	28.77	28.77	18.63	18.63	95.3	95.3	7.50	7.50		1.0	1.0		0.10	0.10	0.10	0.007	0.007		0.10	0.35	0.03	0.48	0.47		0.47
C2A	23/2/2017	Mid-Flood	Hazv	Rough	15:01	13	S	1	1	8.28		28.47	28.48	18.24	18.25	93.1	93.2	7.37	7.38		2.0	2.0		0.50	0.50	0.50	0.026	0.026		0.50	0.25	0.03	0.78	0.78		0.78
C2A	23/2/2017	Mid-Flood	Hazv	Rough	15:01	13	S	1	2	8.28		28.49	28.48	18.25	18.25	93.2	93.2	7.38	7.38		1.9	2.0		0.50	0.50	0.50	0.026	0.026		0.50	0.25	0.02	0.77	0.78		0.78
C2A	23/2/2017	Mid-Flood	Hazv	Rough	15:01	13	S	1	3	8.28		28.49	28.48	18.25	18.25	93.2	93.2	7.38	7.38		1.9	2.0		0.50	0.50	0.50	0.026	0.026		0.50	0.25	0.03	0.78	0.78		0.78
C2A	23/2/2017	Mid-Flood	Hazv	Rough	15:01	13	M	6.5	1	8.29	8.29	28.58	28.58	18.26	18.26	92.4	92.5	7.21	7.22		2.1	2.1		0.40	0.40	0.43	0.021	0.021	0.023	0.40	0.26	0.02	0.68	0.68		0.71
C2A	23/2/2017	Mid-Flood	Hazv	Rough	15:01	13	M	6.5	2	8.29	8.29	28.58	28.58	18.26	18.26	92.5	92.5	7.22	7.22		2.0	2.1		0.40	0.40	0.43	0.021	0.021	0.023	0.40	0.26	0.02	0.68	0.68		0.71
C2A	23/2/2017	Mid-Flood	Hazv	Rough	15:01	13	M	6.5	3	8.29	8.29	28.58	28.58	18.26	18.26	92.5	92.5	7.22	7.22		2.0	2.1		0.40	0.40	0.43	0.021	0.021	0.023	0.40	0.26	0.02	0.68	0.68		0.71
C2A	23/2/2017	Mid-Flood	Hazv	Rough	15:01	13	B	12	1	8.30	8.30	28.59	28.60	18.24	18.25	90.8	90.8	7.16	7.16		1.9	1.9		0.40	0.40	0.40	0.021	0.021		0.40	0.24	0.03	0.67	0.67		0.67
C2A	23/2/2017	Mid-Flood	Hazv	Rough	15:01	13	B	12	2	8.30	8.30	28.60	28.60	18.25	18.25	90.8	90.8	7.15	7.16		1.9	1.9		0.40	0.40	0.40	0.021	0.021		0.40	0.24	0.03	0.67	0.67		0.67
C2A	23/2/2017	Mid-Flood	Hazv	Rough	15:01	13	B	12	3	8.30	8.30	28.60	28.60	18.25	18.25	90.8	90.8	7.15	7.16		1.9	1.9		0.40	0.40	0.40	0.021	0.021		0.40	0.24	0.03	0.67	0.67		0.67
G2	23/2/2017	Mid-Flood	Hazv	Rough	13:37	12	S	1	1	8.30		28.50	28.51	18.71	18.71	96.9	96.8	7.51	7.51		0.7	0.7		NA	NA	NA	NA	NA		0.12	0.34	0.03	0.49	0.48		0.48
G2	23/2/2017	Mid-Flood	Hazv	Rough	13:37	12	S	1	2	8.30	8.30	28.51	28.51	18.70	18.71	96.7	96.8	7.51	7.51		0.7	0.7		NA	NA	NA	NA	NA		0.12	0.32	0.03	0.47	0.48		0.48
G2	23/2/2017	Mid-Flood	Hazv	Rough	13:37	12	S	1	3	8.30	8.30	28.51	28.51	18.70	18.71	96.7	96.8	7.51	7.51		0.7	0.7		NA	NA	NA	NA	NA		0.12	0.33	0.03	0.48	0.48		0.48
G2	23/2/2017	Mid-Flood	Hazv	Rough	13:37	12	M	6	1	8.32		28.56	28.56	18.72	18.72	96.6	96.6	7.60	7.60		1.1	1.2		NA	NA	NA	NA	NA		0.10	0.33	0.03	0.46	0.46		0.46
G2	23/2/2017	Mid-Flood	Hazv	Rough	13:37	12	M	6	2	8.32		28.56	28.56	18.72	18.72	96.6	96.6	7.60	7.60		1.2	1.2		NA	NA	NA	NA	NA		0.10	0.33	0.03	0.46	0.46		0.46
G2	23/2/2017	Mid-Flood	Hazv	Rough	13:37	12	M	6	3	8.32		28.56	28.56	18.72	18.72	96.6	96.6	7.60	7.60		1.1	1.2		NA	NA	NA	NA	NA		0.10	0.33	0.03	0.46	0.46		0.46
G2	23/2/2017	Mid-Flood	Hazv	Rough	13:37	12	B	11	1	8.36	8.36	28.60	28.60	18.64	18.64	95.7	95.7	7.52	7.52		1.0	1.1		NA	NA	NA	NA	NA		0.12	0.33	0.03	0.48	0.48		0.48
G2	23/2/2017	Mid-Flood	Hazv	Rough	13:37	12	B	11	2	8.36	8.36	28.60	28.60	18.64	18.64	95.7	95.7	7.52	7.52		1.1	1.1		NA	NA	NA	NA	NA		0.12	0.32	0.03	0.47	0.48		0.48
G2	23/2/2017	Mid-Flood	Hazv	Rough	13:37	12	B	11	3	8.36	8.36	28.60	28.60	18.64	18.64	95.7	95.7	7.52	7.52		1.1	1.1		NA	NA	NA	NA	NA		0.12	0.33	0.03	0.48	0.48		0.48
SR2	23/2/2017	Mid-Flood	Hazv	Rough	13:23	9	S	1	1	8.39		28.55	28.56	18.70	18.71	96.1	96.2	7.61	7.61		0.5	0.5		0.12	0.12	0.12	0.008	0.008		NA	NA	NA	NA	NA		NA
SR2	23/2/2017	Mid-Flood	Hazv	Rough	13:23	9	S	1	2	8.39	8.39	28.56	28.56	18.71	18.71	96.2	96.2	7.61	7.61		0.5	0.5		0.12	0.12	0.12	0.008	0.008		NA	NA	NA	NA	NA		NA
SR2	23/2/2017	Mid-Flood	Hazv	Rough	13:23	9	S	1	3	8.39	8.39	28.56	28.56	18.71	18.71	96.2	96.2	7.61	7.61		0.5	0.5		0.12	0.12	0.12	0.008	0.008		NA	NA	NA	NA	NA		NA
SR2	23/2/2017	Mid-Flood	Hazv	Rough	13:23	9	M	4.5	1	8.40	8.40	28.52	28.53	18.72	18.72	94.9	94.9	7.54	7.54		1.0	1.0		0.11	0.11	0.12	0.008	0.008	0.008	NA	NA	NA	NA	NA		NA
SR2	23/2/2017	Mid-Flood	Hazv	Rough	13:23	9	M	4.5	2	8.40	8.40	28.53	28.53	18.72	18.72	94.8	94.9	7.54	7.54		0.9	1.0		0.11	0.11	0.12	0.008	0.008	0.008	NA	NA	NA	NA	NA		NA
SR2	23/2/2017	Mid-Flood	Hazv	Rough	13:23	9	M	4.5	3	8.40	8.40	28.53	28.53	18.72	18.72	94.8	94.9	7.54	7.54		0.9	1.0		0.11	0.11	0.12	0.008	0.008	0.008	NA	NA	NA	NA	NA		NA
SR2	23/2/2017	Mid-Flood	Hazv	Rough	13:23	9	B	8	1	8.37	8.37	28.68	28.68	18.65	18.65	95.7	95.7	7.51	7.51		0.7	0.7		0.12	0.12	0.12	0.008	0.008		NA	NA	NA	NA	NA		NA
SR2	23/2/2017	Mid-Flood	Hazv	Rough	13:23	9	B	8	2	8.37	8.37	28.68	28.68	18.65	18.65	95.6	95.6	7.51	7.51		0.7	0.7		0.12	0.12	0.12	0.008	0.008		NA	NA	NA	NA	NA		NA
SR2	23/2/2017	Mid-Flood	Hazv	Rough	13:23	9	B	8	3	8.37	8.37	28.68	28.68	18.65	18.65	95.6	95.6	7.51	7.51		0.7	0.7		0.12	0.12	0.12	0.008	0.008		NA	NA	NA	NA	NA		NA
SR3	23/2/2017	Mid-Flood	Hazv	Rough	13:59	8	S	1	1	8.33	8.33	28.41	28.41	18.76	18.76	96.6	96.6	7.61	7.61		0.5	0.5		0.12	0.12	0.12	0.007	0.007		NA	NA	NA	NA	NA		NA
SR3	23/2/2017	Mid-Flood	Hazv	Rough	13:59	8	S	1	2	8.33	8.33	28.40	28.41	18.76	18.76	96.5	96.6	7.61	7.61		0.5	0.5		0.12	0.12	0.12	0.007	0.007		NA	NA	NA	NA	NA		NA
SR3	23/2/2017	Mid-Flood	Hazv	Rough	13:59	8	S	1	3	8.33	8.33	28.40	28.41	18.76	18.76	96.5	96.6	7.61	7.61		0.5	0.5		0.12	0.12	0.12	0.007	0.007		NA	NA	NA	NA	NA		NA
SR3	23/2/2017	Mid-Flood	Hazv	Rough	13:59	8	M	4	1	8.35	8.35	28.44	28.44	18.74	18.74	97.0	97.0																			



Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																											
										pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Ammonia (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)						
										Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	S & M Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.		
SR5	23/2/2017	Mid-Flood	Hazv	Rough	12:58	11	S	1	1	8.38	8.38	28.55	28.57	28.56	18.70	18.71	97.8	97.9	7.69	7.70	7.70	7.70	0.5	0.6	0.6	NA	NA	NA	NA	0.10	0.35	0.03	0.48	0.48			
SR5	23/2/2017	Mid-Flood	Hazv	Rough	12:58	11	S	1	2	8.38																											
SR5	23/2/2017	Mid-Flood	Hazv	Rough	12:58	11	S	1	3																												
SR5	23/2/2017	Mid-Flood	Hazv	Rough	12:58	11	M	5.5	1	8.40	8.40	28.54	28.54	28.54	18.74	18.74	98.3	98.3	7.70	7.70	7.70	7.70	0.8	0.7	0.8	NA	NA	NA	NA	0.12	0.35	0.03	0.50	0.50			
SR5	23/2/2017	Mid-Flood	Hazv	Rough	12:58	11	M	5.5	2	8.40	8.40	28.54	28.54	28.54	18.74	18.74	98.3	98.3	7.70	7.70	7.70	7.70	0.7	0.7	0.8	NA	NA	NA	NA	0.12	0.34	0.03	0.49	0.50	0.49		
SR5	23/2/2017	Mid-Flood	Hazv	Rough	12:58	11	M	5.5	3																												
SR5	23/2/2017	Mid-Flood	Hazv	Rough	12:58	11	B	10	1	8.40	8.40	28.78	28.78	28.78	18.64	18.64	96.6	96.6	7.55	7.55	7.54	7.55	0.7	0.7	0.7	NA	NA	NA	NA	0.11	0.35	0.03	0.49	0.49			
SR5	23/2/2017	Mid-Flood	Hazv	Rough	12:58	11	B	10	2	8.40	8.40	28.77	28.78	28.78	18.64	18.64	96.6	96.6	7.54	7.55	7.54	7.55	0.7	0.7	0.7	NA	NA	NA	NA	0.11	0.35	0.03	0.49	0.49			
SR5	23/2/2017	Mid-Flood	Hazv	Rough	12:58	11	B	10	3																												
SR12	23/2/2017	Mid-Flood	Hazv	Rough	14:29	15	S	1	1	8.36	8.36	28.88	28.89	28.89	18.47	18.47	91.0	90.9	7.10	7.11	7.11	7.11	1.8	1.7	1.8	0.17	0.17	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	
SR12	23/2/2017	Mid-Flood	Hazv	Rough	14:29	15	S	1	2	8.36																											
SR12	23/2/2017	Mid-Flood	Hazv	Rough	14:29	15	S	1	3																												
SR12	23/2/2017	Mid-Flood	Hazv	Rough	14:29	15	M	7.5	1	8.36	8.36	29.00	28.95	28.95	18.48	18.48	90.7	90.7	7.01	7.01	7.01	7.01	1.6	1.6	1.6	0.17	0.17	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
SR12	23/2/2017	Mid-Flood	Hazv	Rough	14:29	15	M	7.5	2	8.36																											
SR12	23/2/2017	Mid-Flood	Hazv	Rough	14:29	15	M	7.5	3																												
SR12	23/2/2017	Mid-Flood	Hazv	Rough	14:29	15	B	14	1	8.35	8.35	29.01	29.01	29.01	18.46	18.46	87.9	88.5	6.98	6.98	6.98	6.98	1.5	1.6	1.6	0.16	0.16	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
SR12	23/2/2017	Mid-Flood	Hazv	Rough	14:29	15	B	14	2	8.35																											
SR12	23/2/2017	Mid-Flood	Hazv	Rough	14:29	15	B	14	3																												
SR13	23/2/2017	Mid-Flood	Hazv	Rough	14:43	14	S	1	1	8.26	8.26	29.10	29.11	29.11	18.41	18.41	92.19	92.1	7.13	7.14	7.14	7.14	2.0	1.8	1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	23/2/2017	Mid-Flood	Hazv	Rough	14:43	14	S	1	2	8.26																											
SR13	23/2/2017	Mid-Flood	Hazv	Rough	14:43	14	S	1	3																												
SR13	23/2/2017	Mid-Flood	Hazv	Rough	14:43	14	M	7	1	8.29	8.29	29.08	29.08	29.08	18.42	18.42	91.7	91.8	7.08	7.09	7.09	7.09	1.9	1.9	1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	23/2/2017	Mid-Flood	Hazv	Rough	14:43	14	M	7	2	8.29																											
SR13	23/2/2017	Mid-Flood	Hazv	Rough	14:43	14	M	7	3																												
SR13	23/2/2017	Mid-Flood	Hazv	Rough	14:43	14	B	13	1	8.32	8.32	29.10	29.11	29.11	18.44	18.44	90.0	89.8	7.01	7.01	7.01	7.01	1.8	1.9	1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	23/2/2017	Mid-Flood	Hazv	Rough	14:43	14	B	13	2	8.32																											
SR13	23/2/2017	Mid-Flood	Hazv	Rough	14:43	14	B	13	3																												

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.

Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																							
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)		
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.
C1A	23/2/2017	Mid-Flood	Hazy	Rough	12:37	28	S	1	1	4	0.11			0.008	0.008	0.008	0.11	0.34	0.03	0.48	0.49		21			NA	NA	NA	<1				
C1A	23/2/2017	Mid-Flood	Hazy	Rough	12:37	28	S	1	2	3	0.11	0.11		0.008	0.008	0.008	0.11	0.35	0.03	0.49	0.49		19	20		NA	NA	NA	1	1			
C1A	23/2/2017	Mid-Flood	Hazy	Rough	12:37	28	S	1	3		0.11	0.11		0.008	0.008	0.008	0.11	0.35	0.03	0.49	0.49					NA	NA	NA	1				
C1A	23/2/2017	Mid-Flood	Hazy	Rough	12:37	28	M	14	1	4	0.11	0.11	0.11	0.008	0.008	0.008	0.11	0.35	0.03	0.49	0.49		17			NA	NA	NA	<1				
C1A	23/2/2017	Mid-Flood	Hazy	Rough	12:37	28	M	14	2	5	0.11	0.11		0.008	0.008	0.008	0.11	0.35	0.03	0.49	0.49		26	21	18	NA	NA	NA	<1	1	1		
C1A	23/2/2017	Mid-Flood	Hazy	Rough	12:37	28	M	14	3		0.12	0.11		0.008	0.007	0.007	0.10	0.35	0.03	0.48	0.48		12			NA	NA	NA	<1				
C1A	23/2/2017	Mid-Flood	Hazy	Rough	12:37	28	B	27	2	4	0.10	0.11		0.007	0.007	0.007	0.10	0.35	0.03	0.48	0.48		16	14		NA	NA	NA	<1				
C2A	23/2/2017	Mid-Flood	Hazy	Rough	15:01	13	S	1	1	3	0.50			0.026	0.026	0.026	0.50	0.25	0.03	0.78	0.78		790			NA	NA	NA	3				
C2A	23/2/2017	Mid-Flood	Hazy	Rough	15:01	13	S	1	2	3	0.50	0.50		0.026	0.026	0.026	0.50	0.25	0.02	0.77	0.78		820	805		NA	NA	NA	2	3			
C2A	23/2/2017	Mid-Flood	Hazy	Rough	15:01	13	S	1	3		0.50	0.50		0.026	0.026	0.026	0.51	0.25	0.03	0.79	0.78					NA	NA	NA	2				
C2A	23/2/2017	Mid-Flood	Hazy	Rough	15:01	13	M	6.5	1	3	0.40			0.021	0.021	0.021	0.40	0.26	0.02	0.68	0.68		420			NA	NA	NA	2				
C2A	23/2/2017	Mid-Flood	Hazy	Rough	15:01	13	M	6.5	2	4	0.40	0.40	0.43	0.021	0.021	0.022	0.40	0.26	0.02	0.68	0.68	0.71	530	472	758	NA	NA	NA	2	2	2		
C2A	23/2/2017	Mid-Flood	Hazy	Rough	15:01	13	M	6.5	3		0.40	0.40		0.021	0.021	0.021	0.39	0.25	0.03	0.67	0.68					NA	NA	NA	2				
C2A	23/2/2017	Mid-Flood	Hazy	Rough	15:01	13	B	12	1	2	0.39			0.021	0.021	0.021	0.39	0.24	0.03	0.66	0.66		1200			NA	NA	NA	2				
C2A	23/2/2017	Mid-Flood	Hazy	Rough	15:01	13	B	12	2	2	0.38	0.39		0.020	0.021	0.021	0.38	0.24	0.03	0.65	0.66		1100	1149		NA	NA	NA	2	2			
C2A	23/2/2017	Mid-Flood	Hazy	Rough	15:01	13	B	12	3		0.38	0.39		0.020	0.021	0.021	0.40	0.25	0.03	0.68	0.68					NA	NA	NA	2				
G2	23/2/2017	Mid-Flood	Hazy	Rough	13:37	12	S	1	1	3	NA			NA	NA	NA	0.10	0.34	0.03	0.47	0.47		NA			NA	NA	NA	NA				
G2	23/2/2017	Mid-Flood	Hazy	Rough	13:37	12	S	1	2	4	NA			NA	NA	NA	0.12	0.32	0.03	0.47	0.47		NA			NA	NA	NA	NA				
G2	23/2/2017	Mid-Flood	Hazy	Rough	13:37	12	S	1	3		NA			NA	NA	NA	0.10	0.33	0.03	0.46	0.47		NA			NA	NA	NA	NA				
G2	23/2/2017	Mid-Flood	Hazy	Rough	13:37	12	M	6	1	3	NA	NA	NA	NA	NA	NA	0.10	0.33	0.03	0.46	0.47		NA			NA	NA	NA	NA				
G2	23/2/2017	Mid-Flood	Hazy	Rough	13:37	12	M	6	2	2	NA	NA	NA	NA	NA	NA	0.10	0.33	0.03	0.46	0.47		NA			NA	NA	NA	NA				
G2	23/2/2017	Mid-Flood	Hazy	Rough	13:37	12	M	6	3		NA			NA	NA	NA	0.11	0.34	0.03	0.48	0.48		NA			NA	NA	NA	NA				
G2	23/2/2017	Mid-Flood	Hazy	Rough	13:37	12	B	11	1	5	NA	NA	NA	NA	NA	NA	0.11	0.33	0.03	0.47	0.47		NA			NA	NA	NA	NA				
G2	23/2/2017	Mid-Flood	Hazy	Rough	13:37	12	B	11	2	4	NA	NA	NA	NA	NA	NA	0.12	0.32	0.03	0.47	0.47		NA			NA	NA	NA	NA				
G2	23/2/2017	Mid-Flood	Hazy	Rough	13:37	12	B	11	3		NA			NA	NA	NA	0.12	0.33	0.03	0.48	0.48		NA			NA	NA	NA	NA				
SR2	23/2/2017	Mid-Flood	Hazy	Rough	13:23	9	S	1	1	5	0.12			0.008	0.008	0.008	NA	NA	NA	NA	NA		NA			NA	NA	NA	NA				
SR2	23/2/2017	Mid-Flood	Hazy	Rough	13:23	9	S	1	2	4	0.12			0.008	0.008	0.008	NA	NA	NA	NA	NA		NA			NA	NA	NA	NA				
SR2	23/2/2017	Mid-Flood	Hazy	Rough	13:23	9	S	1	3		0.12			0.008	0.008	0.008	NA	NA	NA	NA	NA		NA			NA	NA	NA	NA				
SR2	23/2/2017	Mid-Flood	Hazy	Rough	13:23	9	M	4.5	1	4	0.13			0.009	0.008	0.008	NA	NA	NA	NA	NA		NA			NA	NA	NA	NA				
SR2	23/2/2017	Mid-Flood	Hazy	Rough	13:23	9	M	4.5	2	3	0.11	0.12	0.12	0.008	0.008	0.008	NA	NA	NA	NA	NA		NA			NA	NA	NA	NA				
SR2	23/2/2017	Mid-Flood	Hazy	Rough	13:23	9	M	4.5	3		0.12	0.12		0.008	0.008	0.008	NA	NA	NA	NA	NA		NA			NA	NA	NA	NA				
SR2	23/2/2017	Mid-Flood	Hazy	Rough	13:23	9	B	8	1	3	0.12			0.008	0.008	0.008	NA	NA	NA	NA	NA		NA			NA	NA	NA	NA				
SR2	23/2/2017	Mid-Flood	Hazy	Rough	13:23	9	B	8	2	3	0.12	0.12		0.008	0.008	0.008	NA	NA	NA	NA	NA		NA			NA	NA	NA	NA				
SR2	23/2/2017	Mid-Flood	Hazy	Rough	13:23	9	B	8	3		0.12	0.12		0.008	0.008	0.008	NA	NA	NA	NA	NA		NA			NA	NA	NA	NA				
SR3	23/2/2017	Mid-Flood	Hazy	Rough	13:59	8	S	1	1	3	0.12			0.007	0.007	0.007	NA	NA	NA	NA	NA		NA			NA	NA	NA	NA				
SR3	23/2/2017	Mid-Flood	Hazy	Rough	13:59	8	S	1	2	3	0.12	0.12		0.007	0.007	0.007	NA	NA	NA	NA	NA		NA			NA	NA	NA	NA				
SR3	23/2/2017	Mid-Flood	Hazy	Rough	13:59	8	S	1	3		0.12	0.12		0.007	0.007	0.007	NA	NA	NA	NA	NA		NA			NA	NA	NA	NA				
SR3	23/2/2017	Mid-Flood	Hazy	Rough	13:59	8	M	4	1	5	0.13			0.008	0.007	0.007	NA	NA	NA	NA	NA		NA			NA	NA	NA	NA				
SR3	23/2/2017	Mid-Flood	Hazy	Rough	13:59	8	M	4	2	6	0.11	0.12	0.12	0.007	0.007	0.007	NA	NA	NA	NA	NA		NA			NA	NA	NA	NA				
SR3	23/2/2017	Mid-Flood	Hazy	Rough	13:59	8	M	4	3		0.12	0.12		0.008	0.007	0.007	NA	NA	NA	NA	NA		NA			NA	NA	NA	NA				
SR3	23/2/2017	Mid-Flood	Hazy	Rough	13:59	8	B	7	1	8	0.12			0.008	0.009	0.009	NA	NA	NA	NA	NA		NA			NA	NA	NA	NA				
SR3	23/2/2017	Mid-Flood	Hazy	Rough	13:59	8	B	7	2	7	0.14	0.13		0.009	0.009	0.009	NA	NA	NA	NA	NA		NA			NA	NA	NA	NA				
SR3	23/2/2017	Mid-Flood	Hazy	Rough	13:59	8	B	7	3		0.14	0.16		0.009	0.009	0.009	NA	NA	NA	NA	NA		NA			NA	NA	NA	NA				
SR4	23/2/2017	Mid-Flood	Hazy	Rough	14:17	4	S	1	1	5	0.15			0.009	0.009	0.009	NA	NA	NA	NA	NA		1100			NA	NA	NA	<1				
SR4	23/2/2017	Mid-Flood	Hazy	Rough	14:17	4	S	1	2	4	0.15	0.15		0.009	0.009	0.009	NA	NA	NA	NA	NA		1100	1100		NA	NA	NA	<1	1			
SR4	23/2/2017	Mid-Flood	Hazy	Rough	14:17	4	S	1	3		0.15	0.15		0.009	0.009	0.009	NA	NA	NA	NA	NA					NA	NA	NA					
SR4	23/2/2017	Mid-Flood	Hazy	Rough	14:17	4	M		1			NA					NA	NA	NA	NA	NA					NA	NA	NA					
SR4	23/2/2017	Mid-Flood	Hazy	Rough	14:17	4	M		2			NA					NA	NA	NA	NA	NA					NA	NA	NA					
SR4	23/2/2017	Mid-Flood	Hazy	Rough	14:17	4	M		3			NA					NA	NA	NA	NA	NA					NA	NA	NA					
SR4	23/2/2017	Mid-Flood	Hazy	Rough	14:17	4	B	3	1	7	0.16			0.010	0.009	0.009	NA	NA	NA	NA	NA		1600			NA	NA	NA	<1				
SR4	23/2/2017	Mid-Flood	Hazy	Rough	14:17	4	B	3	2	6	0.15	0.16		0.009	0.009	0.009	NA	NA	NA	NA	NA		1400	1497		NA	NA	NA	<1	1			
SR4	23/2/2017	Mid-Flood	Hazy	Rough	14:17	4	B	3	3		0.15	0.16		0.009	0.009	0.009	NA	NA	NA	NA	NA					NA	NA	NA	<1				

Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																									
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)				
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.		
SR5	23/2/2017	Mid-Flood	Hazy	Rough	12:58	11	S	1	1	3	NA	NA	NA	NA	NA	NA	0.10	0.35	0.03	0.48	0.49	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	23/2/2017	Mid-Flood	Hazy	Rough	12:58	11	S	1	2	3	NA	NA	NA	NA	NA	NA	0.11	0.35	0.03	0.49	0.49	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	23/2/2017	Mid-Flood	Hazy	Rough	12:58	11	S	1	3		NA	NA	NA	NA	NA	NA	0.11	0.35	0.03	0.49	0.49	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	23/2/2017	Mid-Flood	Hazy	Rough	12:58	11	M	5.5	1	5	NA	NA	NA	NA	NA	NA	0.11	0.35	0.03	0.49	0.49	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	23/2/2017	Mid-Flood	Hazy	Rough	12:58	11	M	5.5	2	4	NA	NA	NA	NA	NA	NA	0.12	0.34	0.03	0.49	0.49	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	23/2/2017	Mid-Flood	Hazy	Rough	12:58	11	M	5.5	3		NA	NA	NA	NA	NA	NA	0.11	0.35	0.03	0.49	0.49	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	23/2/2017	Mid-Flood	Hazy	Rough	12:58	11	B	10	1	4	NA	NA	NA	NA	NA	NA	0.12	0.35	0.03	0.50	0.49	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	23/2/2017	Mid-Flood	Hazy	Rough	12:58	11	B	10	2	4	NA	NA	NA	NA	NA	NA	0.11	0.35	0.03	0.49	0.49	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	23/2/2017	Mid-Flood	Hazy	Rough	12:58	11	B	10	3		NA	NA	NA	NA	NA	NA	0.11	0.35	0.03	0.49	0.49	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR12	23/2/2017	Mid-Flood	Hazy	Rough	14:29	15	S	1	1	4	0.17			0.011			NA	NA	NA	NA	NA	3000	3050	3540	NA	NA	NA	NA	NA	<1					
SR12	23/2/2017	Mid-Flood	Hazy	Rough	14:29	15	S	1	2	3	0.16	0.17		0.010	0.010		NA	NA	NA	NA	NA	3100	3600	3540	NA	NA	NA	NA	NA	1					
SR12	23/2/2017	Mid-Flood	Hazy	Rough	14:29	15	S	1	3		0.17			0.011			NA	NA	NA	NA	NA	4200	3888	3540	NA	NA	NA	NA	NA	<1					
SR12	23/2/2017	Mid-Flood	Hazy	Rough	14:29	15	M	7.5	1	2	0.17	0.17	0.17	0.011	0.011	0.010	NA	NA	NA	NA	NA	3600	3742	3540	NA	NA	NA	NA	NA	<1					
SR12	23/2/2017	Mid-Flood	Hazy	Rough	14:29	15	M	7.5	2	3	0.17	0.17	0.17	0.011	0.011	0.010	NA	NA	NA	NA	NA	4000	3742	3540	NA	NA	NA	NA	NA	<1					
SR12	23/2/2017	Mid-Flood	Hazy	Rough	14:29	15	M	7.5	3		0.17	0.17	0.17	0.010	0.010	0.010	NA	NA	NA	NA	NA	3500	3742	3540	NA	NA	NA	NA	NA	<1					
SR12	23/2/2017	Mid-Flood	Hazy	Rough	14:29	15	B	14	1	3	0.16	0.17	0.17	0.010	0.010	0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1							
SR12	23/2/2017	Mid-Flood	Hazy	Rough	14:29	15	B	14	2	3	0.17	0.17	0.17	0.010	0.010	0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1							
SR12	23/2/2017	Mid-Flood	Hazy	Rough	14:29	15	B	14	3		0.17	0.17	0.17	0.010	0.010	0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1							
SR13	23/2/2017	Mid-Flood	Hazy	Rough	14:43	14	S	1	1	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	23/2/2017	Mid-Flood	Hazy	Rough	14:43	14	S	1	2	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	23/2/2017	Mid-Flood	Hazy	Rough	14:43	14	S	1	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	23/2/2017	Mid-Flood	Hazy	Rough	14:43	14	M	7	1	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	23/2/2017	Mid-Flood	Hazy	Rough	14:43	14	M	7	2	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	23/2/2017	Mid-Flood	Hazy	Rough	14:43	14	M	7	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	23/2/2017	Mid-Flood	Hazy	Rough	14:43	14	B	13	1	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	23/2/2017	Mid-Flood	Hazy	Rough	14:43	14	B	13	2	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	23/2/2017	Mid-Flood	Hazy	Rough	14:43	14	B	13	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.



Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																												
										pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Ammonia (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)							
										Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	S & M Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.			
SR5	23/2/2017	Mid-Ebb	Hazv	Rough	11:36	11	S	1	1	8.37	8.37	28.37	28.37	18.81	18.81	94.0	94.1	7.70	7.70	7.71	0.7	0.7	0.7	NA	NA	NA	NA	NA	NA	0.12	0.36	0.03	0.51	0.51	0.51			
SR5	23/2/2017	Mid-Ebb	Hazv	Rough	11:36	11	S	1	2	8.37		28.37	28.37	18.81	18.81	94.1	94.1	7.69	7.70		0.7	0.7		0.7	NA		NA	NA		NA	NA	0.12	0.36			0.03	0.51	
SR5	23/2/2017	Mid-Ebb	Hazv	Rough	11:36	11	S	1	3																													
SR5	23/2/2017	Mid-Ebb	Hazv	Rough	11:36	11	M	5.5	1	8.40	8.40	28.56	28.57	18.72	18.73	98.2	98.3	7.71	7.72	7.72	0.6	0.6	0.6	NA	NA	NA	NA	NA	NA	0.12	0.36	0.03	0.51	0.51	0.51			
SR5	23/2/2017	Mid-Ebb	Hazv	Rough	11:36	11	M	5.5	2	8.40		28.57	28.57	18.74	18.74	98.4	98.3	7.72	7.72		0.6	0.6		0.6	NA		NA	NA		NA	NA	0.12	0.36			0.03	0.51	
SR5	23/2/2017	Mid-Ebb	Hazv	Rough	11:36	11	M	5.5	3																													
SR5	23/2/2017	Mid-Ebb	Hazv	Rough	11:36	11	B	10	1	8.40	8.40	28.74	28.75	18.62	18.62	96.2	96.2	7.57	7.57	7.57	0.7	0.7	0.7	NA	NA	NA	NA	NA	NA	0.12	0.35	0.03	0.50	0.50	0.50			
SR5	23/2/2017	Mid-Ebb	Hazv	Rough	11:36	11	B	10	2	8.40		28.75	28.75	18.62	18.62	96.2	96.2	7.57	7.57		0.7	0.7		0.7	NA		NA	NA		NA	NA	0.12	0.35			0.03	0.50	
SR5	23/2/2017	Mid-Ebb	Hazv	Rough	11:36	11	B	10	3																													
SR12	23/2/2017	Mid-Ebb	Hazv	Rough	9:31	15	S	1	1	8.34	8.35	28.99	28.99	18.48	18.48	90.8	90.8	7.11	7.11	7.11	2.1	2.0	2.1	0.18	0.18	0.18	0.011	0.011	0.011	NA	NA	NA	NA	NA	NA			
SR12	23/2/2017	Mid-Ebb	Hazv	Rough	9:31	15	S	1	2	8.35		28.99	28.99	18.48	18.48	90.8	90.8	7.11	7.11		2.1	2.0		2.1	0.18		0.18	0.18		0.011	0.011	0.011	NA			NA	NA	NA
SR12	23/2/2017	Mid-Ebb	Hazv	Rough	9:31	15	S	1	3																													
SR12	23/2/2017	Mid-Ebb	Hazv	Rough	9:31	15	M	7.5	1	8.36	8.36	29.01	29.01	18.46	18.46	88.6	88.6	6.98	6.98	6.98	1.7	1.6	1.7	0.18	0.18	0.18	0.011	0.011	0.011	NA	NA	NA	NA	NA	NA			
SR12	23/2/2017	Mid-Ebb	Hazv	Rough	9:31	15	M	7.5	2	8.36		29.01	29.01	18.46	18.46	88.5	88.6	6.97	6.98		1.7	1.6		1.7	0.18		0.18	0.18		0.011	0.011	0.011	NA			NA	NA	NA
SR12	23/2/2017	Mid-Ebb	Hazv	Rough	9:31	15	M	7.5	3																													
SR12	23/2/2017	Mid-Ebb	Hazv	Rough	9:31	15	B	14	1	8.35	8.35	29.02	29.05	18.46	18.46	87.4	87.4	6.86	6.86	6.86	2.1	2.1	2.1	0.18	0.18	0.18	0.011	0.011	0.011	NA	NA	NA	NA	NA	NA			
SR12	23/2/2017	Mid-Ebb	Hazv	Rough	9:31	15	B	14	2	8.34		29.08	29.05	18.46	18.46	87.3	87.4	6.86	6.86		2.1	2.1		2.1	0.18		0.18	0.18		0.011	0.011	0.011	NA			NA	NA	NA
SR12	23/2/2017	Mid-Ebb	Hazv	Rough	9:31	15	B	14	3																													
SR13	23/2/2017	Mid-Ebb	Hazv	Rough	9:02	14	S	1	1	8.28	8.29	29.08	29.09	18.44	18.44	91.7	91.7	7.19	7.19	7.19	2.5	2.4	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	23/2/2017	Mid-Ebb	Hazv	Rough	9:02	14	S	1	2	8.30		29.09	29.09	18.44	18.44	91.7	91.7	7.18	7.19		2.5	2.4		2.5	NA		NA	NA		NA	NA	NA	NA			NA	NA	NA
SR13	23/2/2017	Mid-Ebb	Hazv	Rough	9:02	14	S	1	3																													
SR13	23/2/2017	Mid-Ebb	Hazv	Rough	9:02	14	M	7	1	8.32	8.32	29.09	29.09	18.43	18.43	90.0	90.0	7.10	7.10	7.10	2.4	2.4	2.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	23/2/2017	Mid-Ebb	Hazv	Rough	9:02	14	M	7	2	8.32		29.09	29.09	18.43	18.43	90.0	90.0	7.10	7.10		2.4	2.4		2.4	NA		NA	NA		NA	NA	NA	NA			NA	NA	NA
SR13	23/2/2017	Mid-Ebb	Hazv	Rough	9:02	14	M	7	3																													
SR13	23/2/2017	Mid-Ebb	Hazv	Rough	9:02	14	B	13	1	8.31	8.31	29.10	29.10	18.42	18.42	89.0	89.2	7.03	7.04	7.04	2.3	2.3	2.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	23/2/2017	Mid-Ebb	Hazv	Rough	9:02	14	B	13	2	8.31		29.10	29.10	18.42	18.42	89.4	89.2	7.04	7.04		2.3	2.3		2.3	NA		NA	NA		NA	NA	NA	NA			NA	NA	NA
SR13	23/2/2017	Mid-Ebb	Hazv	Rough	9:02	14	B	13	3																													

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 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.

Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																																	
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)												
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.				Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.										
										Value			Value			Value			Value			Value			Value			Value															
C1A	23/2/2017	Mid-Ebb	Hazy	Rough	12:11	28	S	1	1	4	0.12	0.12	0.008	0.008	0.008	0.12	0.36	0.03	0.51	0.51	30	25	27	NA	NA	NA	1																
C1A	23/2/2017	Mid-Ebb	Hazy	Rough	12:11	28	S	1	2	3														0.12	0.36	0.03	0.51	0.51	25	27	NA	NA	NA	<1			1						
C1A	23/2/2017	Mid-Ebb	Hazy	Rough	12:11	28	S	1	3																																		
C1A	23/2/2017	Mid-Ebb	Hazy	Rough	12:11	28	M	14	1	2	0.11	0.11	0.12	0.008	0.008	0.11	0.36	0.03	0.50	0.50	20	30	24	23	NA	NA	NA	1															
C1A	23/2/2017	Mid-Ebb	Hazy	Rough	12:11	28	M	14	2	4															0.11	0.35	0.03	0.49	0.49	30	24	NA	NA	NA	1			1					
C1A	23/2/2017	Mid-Ebb	Hazy	Rough	12:11	28	M	14	3																																		
C1A	23/2/2017	Mid-Ebb	Hazy	Rough	12:11	28	B	27	1	4	0.11	0.12	0.007	0.008	0.008	0.11	0.34	0.03	0.48	0.50	22	15	18	23	NA	NA	NA	1															
C1A	23/2/2017	Mid-Ebb	Hazy	Rough	12:11	28	B	27	2	4															0.12	0.35	0.03	0.50	0.50	15	18	NA	NA	NA	1			1					
C1A	23/2/2017	Mid-Ebb	Hazy	Rough	12:11	28	B	27	3																																		
C2A	23/2/2017	Mid-Ebb	Hazy	Rough	8:38	13	S	1	1	4	0.46	0.47	0.023	0.023	0.023	0.46	0.26	0.03	0.75	0.75	900	960	930	1224	NA	NA	NA	2															
C2A	23/2/2017	Mid-Ebb	Hazy	Rough	8:38	13	S	1	2	6															0.47	0.26	0.03	0.76	0.76	960	930	NA	NA	NA	3			3					
C2A	23/2/2017	Mid-Ebb	Hazy	Rough	8:38	13	S	1	3																																		
C2A	23/2/2017	Mid-Ebb	Hazy	Rough	8:38	13	M	6.5	1	6	0.41	0.41	0.43	0.024	0.024	0.41	0.25	0.03	0.69	0.68	1200	1500	1342	1224	NA	NA	NA	2															
C2A	23/2/2017	Mid-Ebb	Hazy	Rough	8:38	13	M	6.5	2	4															0.41	0.25	0.03	0.69	0.69	1500	1342	NA	NA	NA	2			2					
C2A	23/2/2017	Mid-Ebb	Hazy	Rough	8:38	13	M	6.5	3																																		
C2A	23/2/2017	Mid-Ebb	Hazy	Rough	8:38	13	B	12	1	8	0.40	0.40	0.023	0.023	0.023	0.40	0.25	0.03	0.68	0.69	1800	1200	1470	1224	NA	NA	NA	2															
C2A	23/2/2017	Mid-Ebb	Hazy	Rough	8:38	13	B	12	2	6															0.40	0.26	0.03	0.69	0.69	1200	1470	NA	NA	NA	2			2					
C2A	23/2/2017	Mid-Ebb	Hazy	Rough	8:38	13	B	12	3																																		
G2	23/2/2017	Mid-Ebb	Hazy	Rough	10:37	12	S	1	1	4	NA	NA	NA	NA	NA	0.13	0.34	0.03	0.50	0.50	NA	NA	NA	NA	NA	NA	NA	NA															
G2	23/2/2017	Mid-Ebb	Hazy	Rough	10:37	12	S	1	2	2															0.13	0.35	0.03	0.51	0.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
G2	23/2/2017	Mid-Ebb	Hazy	Rough	10:37	12	S	1	3																																		
G2	23/2/2017	Mid-Ebb	Hazy	Rough	10:37	12	M	6	1	5	NA	NA	NA	NA	NA	0.12	0.34	0.03	0.49	0.49	NA	NA	NA	NA	NA	NA	NA	NA															
G2	23/2/2017	Mid-Ebb	Hazy	Rough	10:37	12	M	6	2	7															0.12	0.34	0.03	0.49	0.49	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
G2	23/2/2017	Mid-Ebb	Hazy	Rough	10:37	12	M	6	3																																		
G2	23/2/2017	Mid-Ebb	Hazy	Rough	10:37	12	B	11	1	5	NA	NA	NA	NA	NA	0.12	0.33	0.03	0.49	0.48	NA	NA	NA	NA	NA	NA	NA	NA															
G2	23/2/2017	Mid-Ebb	Hazy	Rough	10:37	12	B	11	2	6															0.13	0.32	0.03	0.48	0.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
G2	23/2/2017	Mid-Ebb	Hazy	Rough	10:37	12	B	11	3																																		
SR2	23/2/2017	Mid-Ebb	Hazy	Rough	11:01	9	S	1	1	2	0.12	0.12	0.008	0.008	0.008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA															
SR2	23/2/2017	Mid-Ebb	Hazy	Rough	11:01	9	S	1	2	1															0.12	0.12	0.008	0.008	0.008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR2	23/2/2017	Mid-Ebb	Hazy	Rough	11:01	9	S	1	3																																		
SR2	23/2/2017	Mid-Ebb	Hazy	Rough	11:01	9	M	4.5	1	2	0.12	0.12	0.12	0.008	0.008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA															
SR2	23/2/2017	Mid-Ebb	Hazy	Rough	11:01	9	M	4.5	2	2															0.13	0.13	0.009	0.009	0.009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR2	23/2/2017	Mid-Ebb	Hazy	Rough	11:01	9	B	8	1	3																																	
SR2	23/2/2017	Mid-Ebb	Hazy	Rough	11:01	9	B	8	2	3	0.13	0.13	0.009	0.009	0.009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA															
SR2	23/2/2017	Mid-Ebb	Hazy	Rough	11:01	9	B	8	3																																		
SR2	23/2/2017	Mid-Ebb	Hazy	Rough	11:01	9	B	8	3																																		
SR3	23/2/2017	Mid-Ebb	Hazy	Rough	10:19	8	S	1	1	5	0.11	0.12	0.006	0.007	0.007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA															
SR3	23/2/2017	Mid-Ebb	Hazy	Rough	10:19	8	S	1	2	3															0.12	0.12	0.007	0.007	0.007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR3	23/2/2017	Mid-Ebb	Hazy	Rough	10:19	8	S	1	3																																		
SR3	23/2/2017	Mid-Ebb	Hazy	Rough	10:19	8	M	4	1	4	0.12	0.12	0.12	0.008	0.008	0.008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA															
SR3	23/2/2017	Mid-Ebb	Hazy	Rough	10:19	8	M	4	2	5															0.11	0.12	0.008	0.008	0.008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR3	23/2/2017	Mid-Ebb	Hazy	Rough	10:19	8	M	4	3																																		
SR3	23/2/2017	Mid-Ebb	Hazy	Rough	10:19	8	B	7	1	7	0.12	0.12	0.008	0.008	0.008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA															
SR3	23/2/2017	Mid-Ebb	Hazy	Rough	10:19	8	B	7	2	6															0.12	0.12	0.008	0.008	0.008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR3	23/2/2017	Mid-Ebb	Hazy	Rough	10:19	8	B	7	3																																		
SR4	23/2/2017	Mid-Ebb	Hazy	Rough	9:53	4	S	1	1	3	0.15	0.15	0.009	0.009	0.009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1															
SR4	23/2/2017	Mid-Ebb	Hazy	Rough	9:53	4	S	1	2	2															0.15	0.15	0.009	0.009	0.009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR4	23/2/2017	Mid-Ebb	Hazy	Rough	9:53	4	S	1	3																																		
SR4	23/2/2017	Mid-Ebb	Hazy	Rough	9:53	4	M			1	NA	NA	0.16	NA	0.009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA															
SR4	23/2/2017	Mid-Ebb	Hazy	Rough	9:53	4	M			2																	0.009	0.009	0.009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR4	23/2/2017	Mid-Ebb	Hazy	Rough	9:53	4	M			3																	0.009	0.009	0.009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR4	23/2/2017	Mid-Ebb	Hazy	Rough	9:53	4	B	3	1	4	0.16	0.16	0.009	0.009	0.009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1															
SR4	23/2/2017	Mid-Ebb	Hazy	Rough	9:53	4	B	3	2	3															0.16	0.16	0.009	0.009	0.009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR4	23/2/2017	Mid-Ebb	Hazy	Rough	9:53	4	B	3	3																																		

Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																							
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)		
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.
SR5	23/2/2017	Mid-Ebb	Hazy	Rough	11:36	11	S	1	1	4	NA	NA	NA	NA	NA	0.12	0.36	0.03	0.51	0.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	23/2/2017	Mid-Ebb	Hazy	Rough	11:36	11	S	1	2	3	NA	NA	NA	NA	NA	0.12	0.36	0.03	0.51	0.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	23/2/2017	Mid-Ebb	Hazy	Rough	11:36	11	S	1	3	4	NA	NA	NA	NA	NA	0.11	0.36	0.04	0.51	0.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	23/2/2017	Mid-Ebb	Hazy	Rough	11:36	11	M	5.5	1	2	NA	NA	NA	NA	NA	0.12	0.36	0.03	0.51	0.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	23/2/2017	Mid-Ebb	Hazy	Rough	11:36	11	M	5.5	2	2	NA	NA	NA	NA	NA	0.11	0.36	0.03	0.50	0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	23/2/2017	Mid-Ebb	Hazy	Rough	11:36	11	M	5.5	3	3	NA	NA	NA	NA	NA	0.11	0.36	0.03	0.50	0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	23/2/2017	Mid-Ebb	Hazy	Rough	11:36	11	B	10	1	4	NA	NA	NA	NA	NA	0.12	0.35	0.03	0.50	0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	23/2/2017	Mid-Ebb	Hazy	Rough	11:36	11	B	10	2	3	NA	NA	NA	NA	NA	0.12	0.35	0.03	0.50	0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	23/2/2017	Mid-Ebb	Hazy	Rough	11:36	11	B	10	3	3	NA	NA	NA	NA	NA	0.12	0.34	0.03	0.49	0.49	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR12	23/2/2017	Mid-Ebb	Hazy	Rough	9:31	15	S	1	1	2	0.19	0.19	0.011	0.011	0.011	NA	NA	NA	NA	NA	NA	3500	3186	3581	NA	NA	NA	1	1	1			
SR12	23/2/2017	Mid-Ebb	Hazy	Rough	9:31	15	S	1	2	3	0.18	0.18	0.011	0.011	0.011	NA	NA	NA	NA	NA	NA	2900	3186	3581	NA	NA	NA	1	1	1			
SR12	23/2/2017	Mid-Ebb	Hazy	Rough	9:31	15	S	1	3	3	0.18	0.18	0.011	0.011	0.011	NA	NA	NA	NA	NA	NA	4100	3622	3581	NA	NA	NA	1	1	1			
SR12	23/2/2017	Mid-Ebb	Hazy	Rough	9:31	15	M	7.5	1	2	0.18	0.18	0.011	0.011	0.011	NA	NA	NA	NA	NA	NA	3200	3622	3581	NA	NA	NA	1	1	1			
SR12	23/2/2017	Mid-Ebb	Hazy	Rough	9:31	15	M	7.5	2	3	0.18	0.18	0.011	0.011	0.011	NA	NA	NA	NA	NA	NA	3200	3622	3581	NA	NA	NA	1	1	1			
SR12	23/2/2017	Mid-Ebb	Hazy	Rough	9:31	15	M	7.5	3	3	0.18	0.18	0.011	0.011	0.011	NA	NA	NA	NA	NA	NA	3200	3622	3581	NA	NA	NA	1	1	1			
SR12	23/2/2017	Mid-Ebb	Hazy	Rough	9:31	15	B	14	1	6	0.17	0.18	0.010	0.010	0.010	NA	NA	NA	NA	NA	NA	3600	3980	3980	NA	NA	NA	1	1	1			
SR12	23/2/2017	Mid-Ebb	Hazy	Rough	9:31	15	B	14	2	4	0.18	0.18	0.011	0.011	0.011	NA	NA	NA	NA	NA	NA	4400	3980	3980	NA	NA	NA	1	1	1			
SR12	23/2/2017	Mid-Ebb	Hazy	Rough	9:31	15	B	14	3	3	0.18	0.18	0.011	0.011	0.011	NA	NA	NA	NA	NA	NA	4400	3980	3980	NA	NA	NA	1	1	1			
SR13	23/2/2017	Mid-Ebb	Hazy	Rough	9:02	14	S	1	1	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	23/2/2017	Mid-Ebb	Hazy	Rough	9:02	14	S	1	2	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	23/2/2017	Mid-Ebb	Hazy	Rough	9:02	14	S	1	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	23/2/2017	Mid-Ebb	Hazy	Rough	9:02	14	M	7	1	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	23/2/2017	Mid-Ebb	Hazy	Rough	9:02	14	M	7	2	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	23/2/2017	Mid-Ebb	Hazy	Rough	9:02	14	M	7	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	23/2/2017	Mid-Ebb	Hazy	Rough	9:02	14	B	13	1	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	23/2/2017	Mid-Ebb	Hazy	Rough	9:02	14	B	13	2	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	23/2/2017	Mid-Ebb	Hazy	Rough	9:02	14	B	13	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.





Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																																												
										pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)			Turbidity (NTU)			Ammonia (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)																					
										Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	S & M Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.																
SR5	25/2/2017	Mid-Flood	Cloudy	Moderate	9:22	11	S	1	1	8.41	8.42	29.28	29.27	18.02	18.02	96.0	96.0	7.63	7.64	7.53	3.2	3.2	2.7	NA	NA	NA	NA	NA	0.09	0.24	0.02	0.35																						
SR5	25/2/2017	Mid-Flood	Cloudy	Moderate	9:22	11	S	1	2	8.42		29.26		18.01		95.9		7.64			3.2			NA									NA	NA	0.09	0.23	0.02	0.34																
SR5	25/2/2017	Mid-Flood	Cloudy	Moderate	9:22	11	S	1	3																																													
SR5	25/2/2017	Mid-Flood	Cloudy	Moderate	9:22	11	M	5.5	1	8.45	8.45	29.27	29.27	18.04	18.04	96.1	96.0	7.41	7.42	7.53	3.0	3.0	2.7	NA	NA	NA	NA	NA	0.10	0.23	0.02	0.35																						
SR5	25/2/2017	Mid-Flood	Cloudy	Moderate	9:22	11	M	5.5	2	8.45		29.27		18.04		95.8		7.42			2.9			NA									NA	NA	0.10	0.23	0.02	0.35																
SR5	25/2/2017	Mid-Flood	Cloudy	Moderate	9:22	11	M	5.5	3																																													
SR5	25/2/2017	Mid-Flood	Cloudy	Moderate	9:22	11	B	10	1	8.43	8.43	29.21	29.22	18.04	18.04	93.1	93.2	7.33	7.33	7.53	2.0	2.1	2.7	NA	NA	NA	NA	NA	0.10	0.24	0.02	0.36																						
SR5	25/2/2017	Mid-Flood	Cloudy	Moderate	9:22	11	B	10	2	8.43		29.22		18.04		93.2		7.33			2.1			NA									NA	NA	0.10	0.23	0.02	0.35																
SR5	25/2/2017	Mid-Flood	Cloudy	Moderate	9:22	11	B	10	3																																													
SR12	25/2/2017	Mid-Flood	Cloudy	Moderate	7:49	15	S	1	1	8.38	8.38	29.50	29.51	18.01	18.01	92.9	93.0	7.34	7.34	7.28	3.5	3.7	3.7	0.10	0.10	0.11	0.006	0.006	0.007	NA	NA	NA	NA																					
SR12	25/2/2017	Mid-Flood	Cloudy	Moderate	7:49	15	S	1	2	8.38		29.51		18.01		90.8		7.21			3.6			0.10			0.006			0.006				0.10	0.10	0.11	0.006	0.006	0.007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
SR12	25/2/2017	Mid-Flood	Cloudy	Moderate	7:49	15	S	1	3																																													
SR12	25/2/2017	Mid-Flood	Cloudy	Moderate	7:49	15	M	7.5	1	8.39	8.39	29.51	29.51	18.01	18.01	90.7	90.8	7.21	7.22	7.28	3.6	3.7	3.7	0.10	0.10	0.11	0.006	0.006	0.007	NA	NA	NA	NA																					
SR12	25/2/2017	Mid-Flood	Cloudy	Moderate	7:49	15	M	7.5	2	8.39		29.51		18.01		90.8		7.22			3.7			0.10			0.006			0.006				0.10	0.10	0.11	0.006	0.006	0.007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
SR12	25/2/2017	Mid-Flood	Cloudy	Moderate	7:49	15	M	7.5	3																																													
SR12	25/2/2017	Mid-Flood	Cloudy	Moderate	7:49	15	B	14	1	8.38	8.38	29.50	29.50	18.02	18.02	90.2	90.1	7.12	7.12	7.28	3.8	3.8	3.8	0.13	0.13	0.13	0.008	0.008	0.008	NA	NA	NA	NA																					
SR12	25/2/2017	Mid-Flood	Cloudy	Moderate	7:49	15	B	14	2	8.38		29.50		18.02		90.0		7.12			3.8			0.13			0.008			0.008				0.13	0.13	0.13	0.008	0.008	0.008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
SR12	25/2/2017	Mid-Flood	Cloudy	Moderate	7:49	15	B	14	3																																													
SR13	25/2/2017	Mid-Flood	Cloudy	Moderate	7:29	14	S	1	1	8.39	8.39	29.61	29.62	17.93	17.93	95.0	94.9	7.48	7.47	7.38	2.4	2.6	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																		
SR13	25/2/2017	Mid-Flood	Cloudy	Moderate	7:29	14	S	1	2	8.39		29.62		17.93		94.7		7.47			2.6			NA			NA			NA							NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	25/2/2017	Mid-Flood	Cloudy	Moderate	7:29	14	S	1	3																																													
SR13	25/2/2017	Mid-Flood	Cloudy	Moderate	7:29	14	M	7	1	8.41	8.42	29.61	29.61	17.94	17.94	91.7	91.9	7.27	7.28	7.38	2.0	2.0	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																		
SR13	25/2/2017	Mid-Flood	Cloudy	Moderate	7:29	14	M	7	2	8.42		29.61		17.94		92.0		7.28			2.0			NA			NA			NA							NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	25/2/2017	Mid-Flood	Cloudy	Moderate	7:29	14	M	7	3																																													
SR13	25/2/2017	Mid-Flood	Cloudy	Moderate	7:29	14	B	13	1	8.41	8.41	29.65	29.66	17.94	17.94	91.6	91.7	7.27	7.28	7.38	2.7	2.6	2.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																	
SR13	25/2/2017	Mid-Flood	Cloudy	Moderate	7:29	14	B	13	2	8.41		29.66		17.94		91.7		7.28			2.6			NA			NA			NA								NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	25/2/2017	Mid-Flood	Cloudy	Moderate	7:29	14	B	13	3																																													

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.

Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																														
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)									
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.							
C1A	25/2/2017	Mid-Flood	Cloudy	Moderate	9:56	28	S	1	1	6	0.15 0.13		0.14	0.009 0.008		0.009	0.15	0.24	0.02	0.41	0.41			89 80			84			NA NA			<1 <1			1				
C1A	25/2/2017	Mid-Flood	Cloudy	Moderate	9:56	28	S	1	3		0.10 0.11		0.11	0.006 0.006		0.006	0.10	0.25	0.02	0.37	0.38			52 40			46			52			NA NA			<1 <1			1	1
C1A	25/2/2017	Mid-Flood	Cloudy	Moderate	9:56	28	M	14	1	6	0.25 0.25		0.25	0.013 0.013		0.013	0.25	0.25	0.02	0.52	0.51			35 38			36			36			NA NA			<1 <1			1	
C2A	25/2/2017	Mid-Flood	Cloudy	Moderate	7:05	13	S	1	1	7	0.21 0.21		0.21	0.017 0.017		0.017	0.21	0.20	0.02	0.43	0.43			1200 1600			1386			52			NA NA			<1 <1			1	
C2A	25/2/2017	Mid-Flood	Cloudy	Moderate	7:05	13	S	1	3		0.22 0.24		0.23	0.017 0.019		0.018	0.22	0.21	0.02	0.45	0.48			750 840			794			1266			NA NA			1 <1			1	1
C2A	25/2/2017	Mid-Flood	Cloudy	Moderate	7:05	13	M	6.5	1	6	0.25 0.26		0.26	0.019 0.020		0.020	0.28	0.21	0.02	0.51	0.48			1700 2000			1844			52			NA NA			<1 <1			1	
C2A	25/2/2017	Mid-Flood	Cloudy	Moderate	7:05	13	M	12	1	7	NA NA		NA	NA NA		NA	0.09	0.28	0.02	0.39	0.39			NA NA			NA			NA NA			NA NA			NA NA				
G2	25/2/2017	Mid-Flood	Cloudy	Moderate	8:57	12	S	1	1	6	NA NA		NA	NA NA		NA	0.10	0.27	0.02	0.39	0.39			NA NA			NA			NA NA			NA NA			NA NA				
G2	25/2/2017	Mid-Flood	Cloudy	Moderate	8:57	12	S	1	3		NA NA		NA	NA NA		NA	0.10	0.27	0.02	0.39	0.39			NA NA			NA			NA NA			NA NA			NA NA				
G2	25/2/2017	Mid-Flood	Cloudy	Moderate	8:57	12	M	6	1	4	NA NA		NA	NA NA		NA	0.10	0.27	0.02	0.39	0.39			NA NA			NA			NA NA			NA NA			NA NA				
G2	25/2/2017	Mid-Flood	Cloudy	Moderate	8:57	12	M	6	3		NA NA		NA	NA NA		NA	0.10	0.27	0.02	0.39	0.40			NA NA			NA			NA NA			NA NA			NA NA				
G2	25/2/2017	Mid-Flood	Cloudy	Moderate	8:57	12	B	11	1	5	NA NA		NA	NA NA		NA	0.10	0.28	0.02	0.40	0.40			NA NA			NA			NA NA			NA NA			NA NA				
G2	25/2/2017	Mid-Flood	Cloudy	Moderate	8:57	12	B	11	3		0.11 0.10		0.11	0.007 0.006		0.006	NA	NA	NA	NA	NA			NA NA			NA			NA NA			NA NA			NA NA				
SR2	25/2/2017	Mid-Flood	Cloudy	Moderate	9:10	9	S	1	1	4	0.10 0.09		0.10	0.007 0.006		0.006	NA	NA	NA	NA	NA			NA NA			NA			NA NA			NA NA			NA NA				
SR2	25/2/2017	Mid-Flood	Cloudy	Moderate	9:10	9	S	1	3		0.10 0.09		0.10	0.007 0.006		0.006	NA	NA	NA	NA	NA			NA NA			NA			NA NA			NA NA			NA NA				
SR2	25/2/2017	Mid-Flood	Cloudy	Moderate	9:10	9	M	4.5	1	5	0.11 0.11		0.11	0.008 0.008		0.008	NA	NA	NA	NA	NA			NA NA			NA			NA NA			NA NA			NA NA				
SR2	25/2/2017	Mid-Flood	Cloudy	Moderate	9:10	9	B	8	1	7	0.13 0.12		0.13	0.007 0.007		0.007	NA	NA	NA	NA	NA			NA NA			NA			NA NA			NA NA			NA NA				
SR2	25/2/2017	Mid-Flood	Cloudy	Moderate	9:10	9	B	8	2	9	0.13 0.13		0.13	0.009 0.009		0.009	NA	NA	NA	NA	NA			NA NA			NA			NA NA			NA NA			NA NA				
SR2	25/2/2017	Mid-Flood	Cloudy	Moderate	9:10	9	B	8	3		0.12 0.11		0.12	0.008 0.007		0.007	NA	NA	NA	NA	NA			NA NA			NA			NA NA			NA NA			NA NA				
SR3	25/2/2017	Mid-Flood	Cloudy	Moderate	8:32	8	S	1	1	6	0.13 0.12		0.13	0.007 0.007		0.007	NA	NA	NA	NA	NA			NA NA			NA			NA NA			NA NA			NA NA				
SR3	25/2/2017	Mid-Flood	Cloudy	Moderate	8:32	8	S	1	3		0.12 0.11		0.12	0.008 0.007		0.007	NA	NA	NA	NA	NA			NA NA			NA			NA NA			NA NA			NA NA				
SR3	25/2/2017	Mid-Flood	Cloudy	Moderate	8:32	8	M	4	1	5	0.13 0.13		0.13	0.009 0.009		0.009	NA	NA	NA	NA	NA			NA NA			NA			NA NA			NA NA			NA NA				
SR3	25/2/2017	Mid-Flood	Cloudy	Moderate	8:32	8	M	4	2	5	0.12 0.13		0.13	0.007 0.009		0.009	NA	NA	NA	NA	NA			NA NA			NA			NA NA			NA NA			NA NA				
SR3	25/2/2017	Mid-Flood	Cloudy	Moderate	8:32	8	M	4	3		0.12 0.13		0.13	0.009 0.009		0.009	NA	NA	NA	NA	NA			NA NA			NA			NA NA			NA NA			NA NA				
SR3	25/2/2017	Mid-Flood	Cloudy	Moderate	8:32	8	B	7	1	9	0.13 0.13		0.13	0.009 0.009		0.009	NA	NA	NA	NA	NA			NA NA			NA			NA NA			NA NA			NA NA				
SR3	25/2/2017	Mid-Flood	Cloudy	Moderate	8:32	8	B	7	3		0.12 0.12		0.12	0.007 0.007		0.007	NA	NA	NA	NA	NA			NA NA			NA			NA NA			NA NA			NA NA				
SR4	25/2/2017	Mid-Flood	Cloudy	Moderate	8:11	4	S	1	1	13	0.12 0.12		0.12	0.007 0.007		0.007	NA	NA	NA	NA	NA			700 820			758			731			NA NA			<1 <1			1	
SR4	25/2/2017	Mid-Flood	Cloudy	Moderate	8:11	4	S	1	2	11	NA NA		NA	NA NA		NA	NA	NA	NA	NA	NA			NA NA			NA			NA NA			NA NA			NA NA				
SR4	25/2/2017	Mid-Flood	Cloudy	Moderate	8:11	4	S	1	3		NA NA		NA	NA NA		NA	NA	NA	NA	NA	NA			NA NA			NA			NA NA			NA NA			NA NA				
SR4	25/2/2017	Mid-Flood	Cloudy	Moderate	8:11	4	M		1		NA NA		NA	NA NA		NA	NA	NA	NA	NA	NA			NA NA			NA			NA NA			NA NA			NA NA				
SR4	25/2/2017	Mid-Flood	Cloudy	Moderate	8:11	4	M		2		0.15 0.14		0.15	0.010 0.009		0.009	NA	NA	NA	NA	NA			690 720			705			731			NA NA			<1 <1			1	1
SR4	25/2/2017	Mid-Flood	Cloudy	Moderate	8:11	4	B	3	1	15	NA NA		NA	NA NA		NA	NA	NA	NA	NA	NA			NA NA			NA			NA NA			NA NA			NA NA				
SR4	25/2/2017	Mid-Flood	Cloudy	Moderate	8:11	4	B	3	2	12	NA NA		NA	NA NA		NA	NA	NA	NA	NA	NA			NA NA			NA			NA NA			NA NA			NA NA				
SR4	25/2/2017	Mid-Flood	Cloudy	Moderate	8:11	4	B	3	3		NA NA		NA	NA NA		NA	NA	NA	NA	NA	NA			NA NA			NA			NA NA			NA NA			NA NA				

Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																							
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)		
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.
SR5	25/2/2017	Mid-Flood	Cloudy	Moderate	9:22	11	S	1	1	6	NA	NA	NA	NA	NA	NA	0.09	0.24	0.02	0.35	0.35	NA	NA	NA	NA	NA	NA	NA	NA				
SR5	25/2/2017	Mid-Flood	Cloudy	Moderate	9:22	11	S	1	2	6	NA	NA	NA	NA	NA	NA	0.09	0.23	0.02	0.34	0.35	NA	NA	NA	NA	NA	NA	NA	NA				
SR5	25/2/2017	Mid-Flood	Cloudy	Moderate	9:22	11	S	1	3	6	NA	NA	NA	NA	NA	NA	0.09	0.24	0.02	0.35	0.35	NA	NA	NA	NA	NA	NA	NA	NA				
SR5	25/2/2017	Mid-Flood	Cloudy	Moderate	9:22	11	M	5.5	1	6	NA	NA	NA	NA	NA	NA	0.08	0.23	0.02	0.33	0.34	NA	NA	NA	NA	NA	NA	NA	NA				
SR5	25/2/2017	Mid-Flood	Cloudy	Moderate	9:22	11	M	5.5	2	6	NA	NA	NA	NA	NA	NA	0.09	0.23	0.02	0.34	0.34	NA	NA	NA	NA	NA	NA	NA	NA				
SR5	25/2/2017	Mid-Flood	Cloudy	Moderate	9:22	11	M	5.5	3	6	NA	NA	NA	NA	NA	NA	0.08	0.24	0.02	0.34	0.34	NA	NA	NA	NA	NA	NA	NA	NA				
SR5	25/2/2017	Mid-Flood	Cloudy	Moderate	9:22	11	B	10	1	6	NA	NA	NA	NA	NA	NA	0.09	0.24	0.02	0.35	0.34	NA	NA	NA	NA	NA	NA	NA	NA				
SR5	25/2/2017	Mid-Flood	Cloudy	Moderate	9:22	11	B	10	2	8	NA	NA	NA	NA	NA	NA	0.08	0.23	0.02	0.33	0.34	NA	NA	NA	NA	NA	NA	NA	NA				
SR5	25/2/2017	Mid-Flood	Cloudy	Moderate	9:22	11	B	10	3	6	NA	NA	NA	NA	NA	NA	0.10	0.23	0.02	0.35	0.34	NA	NA	NA	NA	NA	NA	NA	NA				
SR12	25/2/2017	Mid-Flood	Cloudy	Moderate	7:49	15	S	1	1	9	0.10	0.11	0.11	0.006	0.007	0.007	NA	NA	NA	NA	NA	770	718	889	NA	NA	<1	<1	1				
SR12	25/2/2017	Mid-Flood	Cloudy	Moderate	7:49	15	S	1	2	10	0.11	0.12	0.12	0.007	0.007	0.007	NA	NA	NA	NA	NA	670	718	889	NA	NA	<1	<1	1				
SR12	25/2/2017	Mid-Flood	Cloudy	Moderate	7:49	15	M	7.5	1	9	0.12	0.12	0.12	0.008	0.007	0.007	NA	NA	NA	NA	NA	1000	1095	889	NA	NA	<1	<1	1				
SR12	25/2/2017	Mid-Flood	Cloudy	Moderate	7:49	15	M	7.5	2	11	0.11	0.12	0.12	0.007	0.007	0.007	NA	NA	NA	NA	NA	1200	1095	889	NA	NA	<1	<1	1				
SR12	25/2/2017	Mid-Flood	Cloudy	Moderate	7:49	15	M	7.5	3	9	0.12	0.12	0.12	0.008	0.007	0.007	NA	NA	NA	NA	NA	860	894	889	NA	NA	<1	<1	1				
SR12	25/2/2017	Mid-Flood	Cloudy	Moderate	7:49	15	B	14	1	11	0.13	0.13	0.13	0.008	0.008	0.008	NA	NA	NA	NA	NA	930	894	889	NA	NA	<1	<1	1				
SR12	25/2/2017	Mid-Flood	Cloudy	Moderate	7:49	15	B	14	2	12	0.13	0.13	0.13	0.008	0.008	0.008	NA	NA	NA	NA	NA	930	894	889	NA	NA	<1	<1	1				
SR12	25/2/2017	Mid-Flood	Cloudy	Moderate	7:49	15	B	14	3	9	0.13	0.13	0.13	0.008	0.008	0.008	NA	NA	NA	NA	NA	930	894	889	NA	NA	<1	<1	1				
SR13	25/2/2017	Mid-Flood	Cloudy	Moderate	7:29	14	S	1	1	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
SR13	25/2/2017	Mid-Flood	Cloudy	Moderate	7:29	14	S	1	2	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
SR13	25/2/2017	Mid-Flood	Cloudy	Moderate	7:29	14	S	1	3	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
SR13	25/2/2017	Mid-Flood	Cloudy	Moderate	7:29	14	M	7	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
SR13	25/2/2017	Mid-Flood	Cloudy	Moderate	7:29	14	M	7	2	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
SR13	25/2/2017	Mid-Flood	Cloudy	Moderate	7:29	14	M	7	3	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
SR13	25/2/2017	Mid-Flood	Cloudy	Moderate	7:29	14	B	13	1	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
SR13	25/2/2017	Mid-Flood	Cloudy	Moderate	7:29	14	B	13	2	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
SR13	25/2/2017	Mid-Flood	Cloudy	Moderate	7:29	14	B	13	3	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.



Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																																											
										pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Ammonia (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)																						
										Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	S & M Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.															
SR5	25/2/2017	Mid-Ebb	Cloudy	Moderate	10:41	11	S	1	1	8.44	8.43	29.31	29.31	18.02	18.02	96.1	96.0	7.59	7.59	7.54	3.1	3.1	2.8	NA	NA	NA	NA	NA	0.09	0.23	0.02	0.34	0.35	0.35	0.35																		
SR5	25/2/2017	Mid-Ebb	Cloudy	Moderate	10:41	11	S	1	2	8.42		29.30		18.02		95.8		7.58			3.0			NA					NA	NA	0.09	0.24				0.02	0.35																
SR5	25/2/2017	Mid-Ebb	Cloudy	Moderate	10:41	11	S	1	3																																												
SR5	25/2/2017	Mid-Ebb	Cloudy	Moderate	10:41	11	M	5.5	1	8.41	8.41	29.27	29.26	18.05	18.05	97.1	96.8	7.49	7.49	7.54	2.8	2.8	2.8	NA	NA	NA	NA	NA	0.09	0.24	0.02	0.35	0.35	0.35	0.35																		
SR5	25/2/2017	Mid-Ebb	Cloudy	Moderate	10:41	11	M	5.5	2	8.41		29.25		18.05		96.5		7.48			2.8			NA					NA	NA	0.09	0.24				0.02	0.35																
SR5	25/2/2017	Mid-Ebb	Cloudy	Moderate	10:41	11	M	5.5	3																																												
SR5	25/2/2017	Mid-Ebb	Cloudy	Moderate	10:41	11	M	5.5	3																																												
SR5	25/2/2017	Mid-Ebb	Cloudy	Moderate	10:41	11	B	10	1	8.40	8.39	29.11	29.12	18.07	18.08	95.1	95.2	7.35	7.37	7.27	2.6	2.5	3.1	NA	NA	NA	NA	NA	0.10	0.24	0.02	0.36	0.35	0.35	0.37																		
SR5	25/2/2017	Mid-Ebb	Cloudy	Moderate	10:41	11	B	10	2	8.38		29.12		18.08		95.2		7.38			2.4			NA					NA	NA	0.11	0.24				0.02	0.37																
SR5	25/2/2017	Mid-Ebb	Cloudy	Moderate	10:41	11	B	10	3																																												
SR12	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:37	15	S	1	1	8.39	8.39	29.51	29.51	18.01	18.01	92.9	92.9	7.31	7.31	7.27	3.0	3.0	3.1	0.12	0.12	0.008	0.008	NA	NA	NA	NA	NA	NA	NA																			
SR12	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:37	15	S	1	2	8.39		29.50		18.01		92.8		7.31			2.9			0.12											0.007	0.007	0.008	0.008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR12	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:37	15	S	1	3																																												
SR12	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:37	15	M	7.5	1	8.35	8.37	29.56	29.56	18.04	18.05	90.8	90.9	7.22	7.23	7.27	3.1	3.1	3.1	0.11	0.11	0.007	0.007	0.008	0.007	0.008	NA	NA	NA	NA	NA																		
SR12	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:37	15	M	7.5	2	8.38		29.56		18.05		91.0		7.23			3.0			0.11												0.007	0.007	0.008	0.007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR12	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:37	15	M	7.5	3																																												
SR12	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:37	15	B	14	1	8.38	8.38	29.58	29.57	18.02	18.02	90.2	90.3	7.17	7.18	7.27	3.2	3.2	3.2	0.14	0.14	0.009	0.009	NA	NA	NA	NA	NA	NA	NA																			
SR12	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:37	15	B	14	2	8.37		29.55		18.01		90.3		7.18			3.1			0.14											0.009	0.009	0.009	0.009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR12	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:37	15	B	14	3																																												
SR13	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:55	14	S	1	1	8.35	8.36	29.65	29.65	17.99	17.99	94.5	94.6	7.45	7.46	7.40	2.2	2.3	2.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																		
SR13	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:55	14	S	1	2	8.36		29.65		17.98		94.6		7.46			2.3			NA												NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:55	14	S	1	3																																												
SR13	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:55	14	M	7	1	8.43	8.43	29.55	29.56	17.98	17.99	93.0	93.0	7.35	7.34	7.40	2.1	2.1	2.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																		
SR13	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:55	14	M	7	2	8.43		29.56		17.99		93.0		7.33			2.1			NA												NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:55	14	M	7	3																																												
SR13	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:55	14	B	13	1	8.45	8.46	29.71	29.71	17.95	17.95	92.0	92.0	7.25	7.26	7.26	2.5	2.5	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																		
SR13	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:55	14	B	13	2	8.46		29.70		17.95		92.0		7.26			2.4			NA												NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:55	14	B	13	3																																												

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.



Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																							
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)		
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.
SR5	25/2/2017	Mid-Ebb	Cloudy	Moderate	10:41	11	S	1	1	6	NA	NA	NA	NA	0.09	0.23	0.02	0.34	0.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	25/2/2017	Mid-Ebb	Cloudy	Moderate	10:41	11	S	1	2	8	NA	NA	NA	NA	0.09	0.24	0.02	0.35	0.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	25/2/2017	Mid-Ebb	Cloudy	Moderate	10:41	11	S	1	3					0.09	0.24	0.02	0.35																
SR5	25/2/2017	Mid-Ebb	Cloudy	Moderate	10:41	11	M	5.5	1	8	NA	NA	NA	NA	0.09	0.24	0.02	0.35	0.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	25/2/2017	Mid-Ebb	Cloudy	Moderate	10:41	11	M	5.5	2	9	NA	NA	NA	NA	0.09	0.24	0.02	0.35	0.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	25/2/2017	Mid-Ebb	Cloudy	Moderate	10:41	11	M	5.5	3					0.09	0.24	0.02	0.35																
SR5	25/2/2017	Mid-Ebb	Cloudy	Moderate	10:41	11	B	10	1	8	NA	NA	NA	NA	0.10	0.24	0.02	0.36	0.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	25/2/2017	Mid-Ebb	Cloudy	Moderate	10:41	11	B	10	2	8	NA	NA	NA	NA	0.11	0.24	0.02	0.37	0.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	25/2/2017	Mid-Ebb	Cloudy	Moderate	10:41	11	B	10	3					0.09	0.22	0.02	0.33																
SR12	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:37	15	S	1	1	7	0.12			0.008	NA	NA	NA	NA	NA	790			NA	NA	NA	NA	<1						
SR12	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:37	15	S	1	2	8	0.12	0.12		0.008	NA	NA	NA	NA	NA	850	819		NA	NA	NA	NA	<1	1					
SR12	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:37	15	S	1	3					NA	NA	NA	NA	NA															
SR12	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:37	15	M	7.5	1	6	0.11			0.007	NA	NA	NA	NA	NA	690			NA	NA	NA	NA	<1						
SR12	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:37	15	M	7.5	2	7	0.11	0.11	0.12	0.007	NA	NA	NA	NA	NA	470	569	507	NA	NA	NA	NA	<1	1	1				
SR12	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:37	15	M	7.5	3					NA	NA	NA	NA	NA															
SR12	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:37	15	B	14	1	8	0.14			0.009	NA	NA	NA	NA	NA	260			NA	NA	NA	NA	<1						
SR12	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:37	15	B	14	2	8	0.14	0.14		0.009	NA	NA	NA	NA	NA	300	279		NA	NA	NA	NA	<1	1					
SR12	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:37	15	B	14	3					NA	NA	NA	NA	NA															
SR13	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:55	14	S	1	1	7	NA			NA	NA	NA	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA			
SR13	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:55	14	S	1	2	7	NA			NA	NA	NA	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA			
SR13	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:55	14	S	1	3					NA	NA	NA	NA	NA	NA														
SR13	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:55	14	M	7	1	8	NA			NA	NA	NA	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA			
SR13	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:55	14	M	7	2	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA			
SR13	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:55	14	M	7	3					NA	NA	NA	NA	NA	NA														
SR13	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:55	14	B	13	1	8	NA			NA	NA	NA	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA			
SR13	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:55	14	B	13	2	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA			
SR13	25/2/2017	Mid-Ebb	Cloudy	Moderate	12:55	14	B	13	3					NA	NA	NA	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA			

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.





Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																													
										pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)			Turbidity (NTU)			Ammonia (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)						
										Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	S & M Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.				
SR5	2/3/2017	Mid-Flood	Fine	Smooth	11:36	11	S	1	1	8.46	8.46	20.27	20.27	18.38	18.36	18.37	93.1	93.0	7.72	7.71	7.72	7.66	2.9	2.8	2.9	NA	NA	NA	NA	NA	0.08	0.26	0.02	0.36	0.36	0.35			
SR5	2/3/2017	Mid-Flood	Fine	Smooth	11:36	11	S	1	2	8.46		18.36	18.37	92.9	7.71	7.72	2.9	2.8	2.9	NA	NA		NA	NA	NA	0.08	0.26	0.02	0.36										
SR5	2/3/2017	Mid-Flood	Fine	Smooth	11:36	11	S	1	3																														
SR5	2/3/2017	Mid-Flood	Fine	Smooth	11:36	11	M	6	1	8.46	8.46	22.24	22.24	18.31	18.31	92.8	92.8	7.60	7.61	7.61	7.66	2.5	2.6	2.6	NA	NA	NA	NA	NA	0.08	0.26	0.02	0.36	0.36	0.35				
SR5	2/3/2017	Mid-Flood	Fine	Smooth	11:36	11	M	6	2	8.46		18.31	18.31	92.8	7.61	7.61	2.5	2.6	2.6	NA		NA	NA	NA	NA	0.08	0.26	0.02	0.36										
SR5	2/3/2017	Mid-Flood	Fine	Smooth	11:36	11	M	6	3																														
SR5	2/3/2017	Mid-Flood	Fine	Smooth	11:36	11	B	10	1	8.47	8.47	22.69	22.69	18.31	18.31	92.4	92.5	7.58	7.59	7.59	7.66	2.4	2.5	2.5	NA	NA	NA	NA	NA	0.06	0.25	0.02	0.33	0.33	0.35				
SR5	2/3/2017	Mid-Flood	Fine	Smooth	11:36	11	B	10	2	8.47		18.31	18.31	92.5	7.59	7.59	2.4	2.5	2.5	NA		NA	NA	NA	NA	0.06	0.25	0.02	0.33										
SR5	2/3/2017	Mid-Flood	Fine	Smooth	11:36	11	B	10	3																														
SR12	2/3/2017	Mid-Flood	Fine	Moderate	9:55	15	S	1	1	8.50	8.50	28.70	28.70	17.99	17.99	90.3	90.3	8.55	8.55	8.55	8.51	2.9	2.8	2.9	0.16	0.16	0.16	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013		
SR12	2/3/2017	Mid-Flood	Fine	Moderate	9:55	15	S	1	2	8.50		17.99	17.99	90.2	8.54	8.55	2.9	2.8	2.9	0.16		0.16	0.16	0.13	0.13	0.13	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	
SR12	2/3/2017	Mid-Flood	Fine	Moderate	9:55	15	S	1	3																														
SR12	2/3/2017	Mid-Flood	Fine	Moderate	9:55	15	M	7.5	1	8.49	8.49	28.72	28.72	17.97	17.97	89.1	89.2	8.47	8.48	8.48	8.51	2.6	2.5	2.6	0.10	0.10	0.10	0.13	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
SR12	2/3/2017	Mid-Flood	Fine	Moderate	9:55	15	M	7.5	2	8.49		17.97	17.97	89.2	8.49	8.48	2.6	2.5	2.6	0.10		0.10	0.10	0.13	0.13	0.13	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
SR12	2/3/2017	Mid-Flood	Fine	Moderate	9:55	15	M	7.5	3																														
SR12	2/3/2017	Mid-Flood	Fine	Moderate	9:55	15	B	14	1	8.48	8.48	28.79	28.79	17.98	17.98	89.1	89.2	8.45	8.46	8.46	8.51	2.2	2.1	2.2	0.13	0.13	0.13	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
SR12	2/3/2017	Mid-Flood	Fine	Moderate	9:55	15	B	14	2	8.48		17.98	17.98	89.2	8.46	8.46	2.2	2.1	2.2	0.13		0.13	0.13	0.13	0.13	0.13	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
SR12	2/3/2017	Mid-Flood	Fine	Moderate	9:55	15	B	14	3																														
SR13	2/3/2017	Mid-Flood	Fine	Moderate	9:27	14	S	1	1	8.56	8.56	28.32	28.32	17.88	17.88	89.8	89.9	7.21	7.22	7.22	7.17	3.0	3.1	3.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	2/3/2017	Mid-Flood	Fine	Moderate	9:27	14	S	1	2	8.56		17.88	17.88	89.9	7.22	7.22	3.0	3.1	3.1	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	2/3/2017	Mid-Flood	Fine	Moderate	9:27	14	S	1	3																														
SR13	2/3/2017	Mid-Flood	Fine	Moderate	9:27	14	M	7	1	8.55	8.55	28.51	28.51	17.86	17.86	89.2	89.3	7.11	7.12	7.12	7.17	2.6	2.7	2.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	2/3/2017	Mid-Flood	Fine	Moderate	9:27	14	M	7	2	8.55		17.86	17.86	89.3	7.12	7.12	2.6	2.7	2.7	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	2/3/2017	Mid-Flood	Fine	Moderate	9:27	14	M	7	3																														
SR13	2/3/2017	Mid-Flood	Fine	Moderate	9:27	14	B	13	1	8.51	8.51	28.73	28.73	17.90	17.90	88.5	88.6	7.08	7.09	7.09	7.17	2.3	2.2	2.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	2/3/2017	Mid-Flood	Fine	Moderate	9:27	14	B	13	2	8.51		17.90	17.90	88.6	7.09	7.09	2.3	2.2	2.3	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	2/3/2017	Mid-Flood	Fine	Moderate	9:27	14	B	13	3																														

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.



Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																										
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)					
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.			
SR5	2/3/2017	Mid-Flood	Fine	Smooth	11:36	11	S	1	1	8	NA	NA	NA	NA	NA	NA	0.09	0.26	0.02	0.37	0.37	NA	NA	NA	NA	NA	NA	NA	NA							
SR5	2/3/2017	Mid-Flood	Fine	Smooth	11:36	11	S	1	2	6	NA	NA	NA	NA	NA	NA	0.09	0.26	0.02	0.37	0.37	NA	NA	NA	NA	NA	NA	NA	NA							
SR5	2/3/2017	Mid-Flood	Fine	Smooth	11:36	11	S	1	3		NA	NA	NA	NA	NA	NA	0.09	0.25	0.02	0.36	0.37	NA	NA	NA	NA	NA	NA	NA	NA							
SR5	2/3/2017	Mid-Flood	Fine	Smooth	11:36	11	M	6	1	6	NA	NA	NA	NA	NA	NA	0.09	0.26	0.02	0.37	0.37	NA	NA	NA	NA	NA	NA	NA	NA							
SR5	2/3/2017	Mid-Flood	Fine	Smooth	11:36	11	M	6	2	6	NA	NA	NA	NA	NA	NA	0.09	0.26	0.02	0.37	0.37	NA	NA	NA	NA	NA	NA	NA	NA							
SR5	2/3/2017	Mid-Flood	Fine	Smooth	11:36	11	M	6	3		NA	NA	NA	NA	NA	NA	0.09	0.26	0.02	0.37	0.36	NA	NA	NA	NA	NA	NA	NA	NA							
SR5	2/3/2017	Mid-Flood	Fine	Smooth	11:36	11	B	10	1	9	NA	NA	NA	NA	NA	NA	0.08	0.25	0.02	0.35	0.36	NA	NA	NA	NA	NA	NA	NA	NA							
SR5	2/3/2017	Mid-Flood	Fine	Smooth	11:36	11	B	10	2	7	NA	NA	NA	NA	NA	NA	0.09	0.25	0.02	0.36	0.36	NA	NA	NA	NA	NA	NA	NA	NA							
SR5	2/3/2017	Mid-Flood	Fine	Smooth	11:36	11	B	10	3		NA	NA	NA	NA	NA	NA	0.09	0.25	0.02	0.36	0.36	NA	NA	NA	NA	NA	NA	NA	NA							
SR12	2/3/2017	Mid-Flood	Fine	Moderate	9:55	15	S	1	1	5	0.16			0.013			NA	NA	NA	NA	NA	61	64	<0.5			<1									
SR12	2/3/2017	Mid-Flood	Fine	Moderate	9:55	15	S	1	2	4	0.16	0.16		0.013	0.013		NA	NA	NA	NA	NA	67	64	<0.5	0.50		<1	1								
SR12	2/3/2017	Mid-Flood	Fine	Moderate	9:55	15	S	1	3								NA	NA	NA	NA	NA															
SR12	2/3/2017	Mid-Flood	Fine	Moderate	9:55	15	M	7.5	1	6	0.12			0.010			NA	NA	NA	NA	NA	11	13	<0.5			<1									
SR12	2/3/2017	Mid-Flood	Fine	Moderate	9:55	15	M	7.5	2	6	0.11	0.12	0.14	0.009	0.009	0.011	NA	NA	NA	NA	NA	15	13	<0.5	0.50	0.50	<1	1	1							
SR12	2/3/2017	Mid-Flood	Fine	Moderate	9:55	15	M	7.5	3								NA	NA	NA	NA	NA															
SR12	2/3/2017	Mid-Flood	Fine	Moderate	9:55	15	B	14	1	5	0.13			0.010			NA	NA	NA	NA	NA	67	71	<0.5			<1									
SR12	2/3/2017	Mid-Flood	Fine	Moderate	9:55	15	B	14	2	4	0.13	0.13		0.010	0.010		NA	NA	NA	NA	NA	76	71	<0.5	0.50		<1	1								
SR12	2/3/2017	Mid-Flood	Fine	Moderate	9:55	15	B	14	3								NA	NA	NA	NA	NA															
SR13	2/3/2017	Mid-Flood	Fine	Moderate	9:27	14	S	1	1	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
SR13	2/3/2017	Mid-Flood	Fine	Moderate	9:27	14	S	1	2	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
SR13	2/3/2017	Mid-Flood	Fine	Moderate	9:27	14	S	1	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
SR13	2/3/2017	Mid-Flood	Fine	Moderate	9:27	14	M	7	1	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
SR13	2/3/2017	Mid-Flood	Fine	Moderate	9:27	14	M	7	2	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
SR13	2/3/2017	Mid-Flood	Fine	Moderate	9:27	14	M	7	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
SR13	2/3/2017	Mid-Flood	Fine	Moderate	9:27	14	B	13	1	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
SR13	2/3/2017	Mid-Flood	Fine	Moderate	9:27	14	B	13	2	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
SR13	2/3/2017	Mid-Flood	Fine	Moderate	9:27	14	B	13	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							

- Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.



Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																										
										pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Ammonia (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)					
										Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	S & M Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	
SR5	2/3/2017	Mid-Ebb	Fine	Smooth	12:34	11	S	1	1	8.46	8.46	21.34	21.34	18.34	18.34	18.34	92.9	93.0	7.70	7.71	7.70	2.8	2.9	2.6	NA	NA	NA	NA	NA	NA	0.10	0.27	0.02	0.39	0.39	0.38
SR5	2/3/2017	Mid-Ebb	Fine	Smooth	12:34	11	S	1	2	8.46		21.34	21.34	18.34	18.34	18.34	92.9	93.0	7.71	7.71		2.8	2.9		NA	NA		NA	NA		NA	0.10	0.28	0.02		
SR5	2/3/2017	Mid-Ebb	Fine	Smooth	12:34	11	S	1	3																											
SR5	2/3/2017	Mid-Ebb	Fine	Smooth	12:34	11	M	6	1	8.46	8.46	22.33	22.33	18.33	18.33	18.33	92.8	92.8	7.68	7.69	7.70	2.4	2.5	2.6	NA	NA	NA	NA	NA	NA	0.10	0.26	0.02	0.38	0.38	0.38
SR5	2/3/2017	Mid-Ebb	Fine	Smooth	12:34	11	M	6	2	8.46		22.33	22.33	18.33	18.33	18.33	92.7	92.8	7.69	7.69		2.4	2.5		NA	NA		NA	NA		NA	0.10	0.26	0.02		
SR5	2/3/2017	Mid-Ebb	Fine	Smooth	12:34	11	M	6	3																											
SR5	2/3/2017	Mid-Ebb	Fine	Smooth	12:34	11	B	10	1	8.47	8.47	22.71	22.71	18.33	18.33	18.33	92.7	92.7	7.62	7.62	7.70	2.5	2.5	2.6	NA	NA	NA	NA	NA	NA	0.10	0.26	0.02	0.38	0.38	0.38
SR5	2/3/2017	Mid-Ebb	Fine	Smooth	12:34	11	B	10	2	8.47		22.71	22.71	18.33	18.33	18.33	92.6	92.7	7.61	7.62		2.5	2.5		NA	NA		NA	NA		NA	0.10	0.26	0.02		
SR5	2/3/2017	Mid-Ebb	Fine	Smooth	12:34	11	B	10	3																											
SR12	2/3/2017	Mid-Ebb	Fine	Moderate	14:27	15	S	1	1	8.42	8.42	22.24	22.24	18.50	18.50	18.50	90.9	91.0	7.44	7.45	7.50	3.0	2.9	2.6	0.12	0.12	0.11	0.009	0.009	0.009	NA	NA	NA	NA	NA	NA
SR12	2/3/2017	Mid-Ebb	Fine	Moderate	14:27	15	S	1	2	8.42		22.24	22.24	18.50	18.50	18.50	91.0	91.0	7.45	7.45		3.0	2.9		0.12	0.12		0.11	0.009		0.009	0.009	NA	NA		
SR12	2/3/2017	Mid-Ebb	Fine	Moderate	14:27	15	S	1	3																											
SR12	2/3/2017	Mid-Ebb	Fine	Moderate	14:27	15	M	7.5	1	8.44	8.44	20.64	20.64	18.41	18.41	18.41	89.9	90.0	7.51	7.58	7.55	2.7	2.6	2.6	0.12	0.12	0.11	0.009	0.009	0.009	NA	NA	NA	NA	NA	NA
SR12	2/3/2017	Mid-Ebb	Fine	Moderate	14:27	15	M	7.5	2	8.44		20.64	20.64	18.41	18.41	18.41	90.0	90.0	7.58	7.55		2.7	2.6		0.12	0.12		0.11	0.009		0.009	0.009	NA	NA		
SR12	2/3/2017	Mid-Ebb	Fine	Moderate	14:27	15	M	7.5	3																											
SR12	2/3/2017	Mid-Ebb	Fine	Moderate	14:27	15	B	14	1	8.44	8.44	20.62	20.62	18.36	18.36	18.36	90.0	90.0	7.47	7.47	7.50	2.3	2.2	2.6	0.10	0.10	0.11	0.008	0.008	0.008	NA	NA	NA	NA	NA	NA
SR12	2/3/2017	Mid-Ebb	Fine	Moderate	14:27	15	B	14	2	8.44		20.62	20.62	18.36	18.36	18.36	89.9	90.0	7.46	7.47		2.3	2.2		0.10	0.10		0.11	0.008		0.008	0.008	NA	NA		
SR12	2/3/2017	Mid-Ebb	Fine	Moderate	14:27	15	B	14	3																											
SR13	2/3/2017	Mid-Ebb	Fine	Moderate	14:47	14	S	1	1	8.42	8.42	18.62	18.62	18.53	18.53	18.53	88.9	89.0	7.44	7.44	7.43	2.9	3.0	2.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	2/3/2017	Mid-Ebb	Fine	Moderate	14:47	14	S	1	2	8.42		18.62	18.62	18.53	18.53	18.53	89.0	89.0	7.43	7.44		2.9	3.0		NA	NA		NA	NA		NA	NA	NA	NA		
SR13	2/3/2017	Mid-Ebb	Fine	Moderate	14:47	14	S	1	3																											
SR13	2/3/2017	Mid-Ebb	Fine	Moderate	14:47	14	M	7	1	8.44	8.44	19.86	19.86	18.37	18.37	18.37	88.4	88.5	7.42	7.43	7.43	2.5	2.6	2.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	2/3/2017	Mid-Ebb	Fine	Moderate	14:47	14	M	7	2	8.44		19.86	19.86	18.37	18.37	18.37	88.5	88.5	7.43	7.43		2.5	2.6		NA	NA		NA	NA		NA	NA	NA	NA		
SR13	2/3/2017	Mid-Ebb	Fine	Moderate	14:47	14	M	7	3																											
SR13	2/3/2017	Mid-Ebb	Fine	Moderate	14:47	14	B	13	1	8.45	8.45	20.10	20.10	18.40	18.40	18.40	88.1	88.2	7.36	7.36	7.36	2.4	2.3	2.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	2/3/2017	Mid-Ebb	Fine	Moderate	14:47	14	B	13	2	8.45		20.10	20.10	18.40	18.40	18.40	88.2	88.2	7.35	7.36		2.4	2.3		NA	NA		NA	NA		NA	NA	NA	NA		
SR13	2/3/2017	Mid-Ebb	Fine	Moderate	14:47	14	B	13	3																											

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.



Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																							
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)		
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.
SR5	2/3/2017	Mid-Ebb	Fine	Smooth	12:34	11	S	1	1	7	NA	NA	NA	NA	0.11	0.27	0.02	0.40	0.39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	2/3/2017	Mid-Ebb	Fine	Smooth	12:34	11	S	1	2	7	NA	NA	NA	NA	0.09	0.28	0.02	0.39	0.39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	2/3/2017	Mid-Ebb	Fine	Smooth	12:34	11	S	1	3	7	NA	NA	NA	NA	0.10	0.27	0.02	0.39	0.39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	2/3/2017	Mid-Ebb	Fine	Smooth	12:34	11	M	6	1	7	NA	NA	NA	NA	0.09	0.26	0.02	0.37	0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	2/3/2017	Mid-Ebb	Fine	Smooth	12:34	11	M	6	2	5	NA	NA	NA	NA	0.10	0.26	0.02	0.38	0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	2/3/2017	Mid-Ebb	Fine	Smooth	12:34	11	M	6	3	7	NA	NA	NA	NA	0.09	0.26	0.02	0.37	0.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	2/3/2017	Mid-Ebb	Fine	Smooth	12:34	11	B	10	1	6	NA	NA	NA	NA	0.09	0.26	0.02	0.37	0.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	2/3/2017	Mid-Ebb	Fine	Smooth	12:34	11	B	10	2	8	NA	NA	NA	NA	0.10	0.26	0.02	0.38	0.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	2/3/2017	Mid-Ebb	Fine	Smooth	12:34	11	B	10	3	7	NA	NA	NA	NA	0.10	0.26	0.02	0.38	0.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR12	2/3/2017	Mid-Ebb	Fine	Moderate	14:27	15	S	1	1	4	0.13	0.13	0.13	0.010	0.009	0.009	0.009	0.009	NA	240	264	213	<0.5	0.50	<1	<1	1	1	1	1			
SR12	2/3/2017	Mid-Ebb	Fine	Moderate	14:27	15	S	1	2	5	0.12	0.12	0.12	0.009	0.009	0.009	0.009	0.009	NA	290	264	213	<0.5	0.50	<1	<1	1	1	1	1			
SR12	2/3/2017	Mid-Ebb	Fine	Moderate	14:27	15	S	1	3	5	0.12	0.12	0.12	0.009	0.009	0.009	0.009	0.009	NA	310	361	213	<0.5	0.50	<1	<1	1	1	1	1			
SR12	2/3/2017	Mid-Ebb	Fine	Moderate	14:27	15	M	7.5	1	5	0.11	0.12	0.11	0.009	0.009	0.009	0.009	0.009	NA	420	361	213	<0.5	0.50	<1	<1	1	1	1	1			
SR12	2/3/2017	Mid-Ebb	Fine	Moderate	14:27	15	M	7.5	2	4	0.11	0.12	0.11	0.008	0.008	0.008	0.008	0.008	NA	130	102	102	<0.5	0.50	<1	<1	1	1	1	1			
SR12	2/3/2017	Mid-Ebb	Fine	Moderate	14:27	15	B	14	1	4	0.09	0.10	0.09	0.007	0.007	0.007	0.007	0.007	NA	80	102	102	<0.5	0.50	<1	<1	1	1	1	1			
SR12	2/3/2017	Mid-Ebb	Fine	Moderate	14:27	15	B	14	2	4	0.09	0.10	0.09	0.007	0.007	0.007	0.007	0.007	NA	80	102	102	<0.5	0.50	<1	<1	1	1	1	1			
SR12	2/3/2017	Mid-Ebb	Fine	Moderate	14:27	15	B	14	3	4	0.09	0.10	0.09	0.007	0.007	0.007	0.007	0.007	NA	80	102	102	<0.5	0.50	<1	<1	1	1	1	1			
SR13	2/3/2017	Mid-Ebb	Fine	Moderate	14:47	14	S	1	1	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	2/3/2017	Mid-Ebb	Fine	Moderate	14:47	14	S	1	2	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	2/3/2017	Mid-Ebb	Fine	Moderate	14:47	14	S	1	3	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	2/3/2017	Mid-Ebb	Fine	Moderate	14:47	14	M	7	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	2/3/2017	Mid-Ebb	Fine	Moderate	14:47	14	M	7	2	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	2/3/2017	Mid-Ebb	Fine	Moderate	14:47	14	M	7	3	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	2/3/2017	Mid-Ebb	Fine	Moderate	14:47	14	B	13	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	2/3/2017	Mid-Ebb	Fine	Moderate	14:47	14	B	13	2	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	2/3/2017	Mid-Ebb	Fine	Moderate	14:47	14	B	13	3	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.





Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																																	
										pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Ammonia (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)												
										Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	S & M Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.								
SR5	4/3/2017	Mid-Flood	Fine	Moderate	12:03	11	S	1	1	8.31	8.31	29.06	29.06	18.12	18.12	18.12	92.6	92.6	7.18	7.19	7.20	0.5	0.6	0.6	NA	NA	NA	NA	NA	0.12	0.26	0.02	0.40	0.40	0.41								
SR5	4/3/2017	Mid-Flood	Fine	Moderate	12:03	11	S	1	2	8.31		29.06	29.06	18.12	18.12	18.12	92.5	92.6	7.19	7.19		0.6			0.6					0.6	NA	NA	NA			NA	0.12	0.27	0.02	0.41			
SR5	4/3/2017	Mid-Flood	Fine	Moderate	12:03	11	S	1	3	8.31		29.06	29.06	18.12	18.12	18.12	92.5	92.6	7.19	7.19		0.6			0.6					0.6	NA	NA	NA			NA	0.12	0.26	0.02	0.40			
SR5	4/3/2017	Mid-Flood	Fine	Moderate	12:03	11	M	5.5	1	8.39	8.39	29.10	29.10	18.05	18.05	18.05	91.7	91.8	7.20	7.21	7.21	0.9	0.8	0.9	NA	NA	NA	NA	NA	0.12	0.26	0.02	0.40	0.40	0.41								
SR5	4/3/2017	Mid-Flood	Fine	Moderate	12:03	11	M	5.5	2	8.39		29.10	29.10	18.05	18.05	18.05	91.8	91.8	7.22	7.21		0.8			0.9					0.9	NA	NA	NA			NA	0.12	0.27	0.02	0.41			
SR5	4/3/2017	Mid-Flood	Fine	Moderate	12:03	11	M	5.5	3	8.39		29.10	29.10	18.05	18.05	18.05	91.8	91.8	7.22	7.21		0.8			0.9					0.9	NA	NA	NA			NA	0.12	0.27	0.02	0.41			
SR5	4/3/2017	Mid-Flood	Fine	Moderate	12:03	11	B	10	1	8.40	8.40	29.24	29.24	18.04	18.04	18.04	91.1	91.0	7.18	7.17	7.17	0.7	0.8	0.8	NA	NA	NA	NA	NA	0.12	0.27	0.02	0.41	0.41	0.41								
SR5	4/3/2017	Mid-Flood	Fine	Moderate	12:03	11	B	10	2	8.40		29.24	29.24	18.04	18.04	18.04	90.9	91.0	7.16	7.17		0.8			0.8					0.8	NA	NA	NA			NA	0.12	0.27	0.02	0.41			
SR5	4/3/2017	Mid-Flood	Fine	Moderate	12:03	11	B	10	3	8.40		29.24	29.24	18.04	18.04	18.04	90.9	91.0	7.16	7.17		0.8			0.8					0.8	NA	NA	NA			NA	0.12	0.27	0.02	0.41			
SR12	4/3/2017	Mid-Flood	Fine	Moderate	10:40	15	S	1	1	8.37	8.37	36.09	36.09	18.03	18.03	18.03	88.5	88.6	6.92	6.92	6.92	0.5	0.7	0.6	0.22	0.22	0.22	0.013	0.013	NA	NA	NA	NA	NA	NA								
SR12	4/3/2017	Mid-Flood	Fine	Moderate	10:40	15	S	1	2	8.37		36.09	36.09	18.03	18.03	18.03	88.6	88.6	6.92	6.92		0.7			0.6					0.6	0.22	0.22	0.22			0.013	0.013	NA	NA	NA	NA		
SR12	4/3/2017	Mid-Flood	Fine	Moderate	10:40	15	S	1	3	8.37		36.09	36.09	18.03	18.03	18.03	88.6	88.6	6.92	6.92		0.7			0.6					0.6	0.22	0.22	0.22			0.013	0.013	NA	NA	NA	NA		
SR12	4/3/2017	Mid-Flood	Fine	Moderate	10:40	15	M	7.5	1	8.37	8.37	36.19	36.20	18.03	18.03	18.03	87.1	87.1	6.72	6.71	6.71	0.5	0.6	0.6	0.15	0.15	0.15	0.18	0.009	0.009	NA	NA	NA	NA	NA	NA							
SR12	4/3/2017	Mid-Flood	Fine	Moderate	10:40	15	M	7.5	2	8.37		36.20	36.20	18.03	18.03	18.03	87.1	87.1	6.70	6.71		0.6			0.6						0.6	0.15	0.15	0.15			0.18	0.009	0.009	NA	NA	NA	NA
SR12	4/3/2017	Mid-Flood	Fine	Moderate	10:40	15	M	7.5	3	8.37		36.20	36.20	18.03	18.03	18.03	87.1	87.1	6.70	6.71		0.6			0.6						0.6	0.15	0.15	0.15			0.18	0.009	0.009	NA	NA	NA	NA
SR12	4/3/2017	Mid-Flood	Fine	Moderate	10:40	15	B	14	1	8.38	8.38	36.22	36.24	18.03	18.03	18.03	85.2	85.3	6.71	6.71	6.71	0.6	0.6	0.6	0.18	0.18	0.18	0.011	0.011	NA	NA	NA	NA	NA	NA								
SR12	4/3/2017	Mid-Flood	Fine	Moderate	10:40	15	B	14	2	8.38		36.25	36.24	18.03	18.03	18.03	85.3	85.3	6.71	6.71		0.6			0.6					0.6	0.18	0.18	0.18			0.011	0.011	NA	NA	NA	NA		
SR12	4/3/2017	Mid-Flood	Fine	Moderate	10:40	15	B	14	3	8.38		36.25	36.24	18.03	18.03	18.03	85.3	85.3	6.71	6.71		0.6			0.6					0.6	0.18	0.18	0.18			0.011	0.011	NA	NA	NA	NA		
SR13	4/3/2017	Mid-Flood	Fine	Moderate	10:25	14	S	1	1	8.34	8.34	41.00	40.96	17.99	17.99	17.99	88.2	88.2	6.80	6.80	6.80	0.9	0.8	0.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA								
SR13	4/3/2017	Mid-Flood	Fine	Moderate	10:25	14	S	1	2	8.34		40.91	40.96	17.99	17.99	17.99	88.2	88.2	6.80	6.80		0.8			0.9					0.9	NA	NA	NA			NA	NA	NA	NA	NA	NA		
SR13	4/3/2017	Mid-Flood	Fine	Moderate	10:25	14	S	1	3	8.34		40.91	40.96	17.99	17.99	17.99	88.2	88.2	6.80	6.80		0.8			0.9					0.9	NA	NA	NA			NA	NA	NA	NA	NA	NA		
SR13	4/3/2017	Mid-Flood	Fine	Moderate	10:25	14	M	7	1	8.34	8.34	40.86	40.85	17.99	17.99	17.99	86.5	86.5	6.71	6.72	6.72	1.0	0.9	1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA								
SR13	4/3/2017	Mid-Flood	Fine	Moderate	10:25	14	M	7	2	8.34		40.84	40.85	17.99	17.99	17.99	86.5	86.5	6.71	6.72		0.9			1.0					1.0	NA	NA	NA			NA	NA	NA	NA	NA	NA		
SR13	4/3/2017	Mid-Flood	Fine	Moderate	10:25	14	M	7	3	8.34		40.84	40.85	17.99	17.99	17.99	86.5	86.5	6.71	6.72		0.9			1.0					1.0	NA	NA	NA			NA	NA	NA	NA	NA	NA		
SR13	4/3/2017	Mid-Flood	Fine	Moderate	10:25	14	B	13	1	8.34	8.34	40.92	40.92	17.98	17.98	17.98	85.9	85.9	6.75	6.76	6.76	0.9	0.9	0.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA								
SR13	4/3/2017	Mid-Flood	Fine	Moderate	10:25	14	B	13	2	8.34		40.91	40.92	17.98	17.98	17.98	85.8	85.9	6.75	6.76		0.9			0.9					0.9	NA	NA	NA			NA	NA	NA	NA	NA	NA		
SR13	4/3/2017	Mid-Flood	Fine	Moderate	10:25	14	B	13	3	8.34		40.91	40.92	17.98	17.98	17.98	85.8	85.9	6.75	6.76		0.9			0.9					0.9	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA	

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.



Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																							
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)		
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.
SR5	4/3/2017	Mid-Flood	Fine	Moderate	12:03	11	S	1	1	3	NA	NA	NA	NA	NA	0.11	0.26	0.02	0.39	0.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	4/3/2017	Mid-Flood	Fine	Moderate	12:03	11	S	1	2	5	NA	NA	NA	NA	NA	0.12	0.27	0.02	0.41	0.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	4/3/2017	Mid-Flood	Fine	Moderate	12:03	11	S	1	3		NA	NA	NA	NA	NA	0.11	0.26	0.02	0.39	0.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	4/3/2017	Mid-Flood	Fine	Moderate	12:03	11	M	5.5	1	6	NA	NA	NA	NA	NA	0.10	0.26	0.02	0.38	0.39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	4/3/2017	Mid-Flood	Fine	Moderate	12:03	11	M	5.5	2	4	NA	NA	NA	NA	NA	0.11	0.27	0.02	0.40	0.39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	4/3/2017	Mid-Flood	Fine	Moderate	12:03	11	M	5.5	3		NA	NA	NA	NA	NA	0.11	0.27	0.01	0.39	0.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	4/3/2017	Mid-Flood	Fine	Moderate	12:03	11	B	10	1	6	NA	NA	NA	NA	NA	0.12	0.27	0.02	0.41	0.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	4/3/2017	Mid-Flood	Fine	Moderate	12:03	11	B	10	2	7	NA	NA	NA	NA	NA	0.11	0.27	0.02	0.40	0.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	4/3/2017	Mid-Flood	Fine	Moderate	12:03	11	B	10	3		NA	NA	NA	NA	NA	0.11	0.27	0.02	0.40	0.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR12	4/3/2017	Mid-Flood	Fine	Moderate	10:40	15	S	1	1	6	0.23	0.23	0.013	0.013	NA	NA	NA	NA	NA	NA	120	143	93	NA	NA	NA	<1	<1	1	1	1		
SR12	4/3/2017	Mid-Flood	Fine	Moderate	10:40	15	S	1	2	5	0.22	0.23	0.013	0.013	NA	NA	NA	NA	NA	NA	170	143	93	NA	NA	NA	<1	<1	1	1	1		
SR12	4/3/2017	Mid-Flood	Fine	Moderate	10:40	15	S	1	3		0.16	0.15	0.009	0.009	NA	NA	NA	NA	NA	NA	59	63	93	NA	NA	NA	<1	<1	1	1	1		
SR12	4/3/2017	Mid-Flood	Fine	Moderate	10:40	15	M	7.5	1	6	0.14	0.15	0.008	0.008	NA	NA	NA	NA	NA	NA	68	63	93	NA	NA	NA	<1	<1	1	1	1		
SR12	4/3/2017	Mid-Flood	Fine	Moderate	10:40	15	M	7.5	2	7		0.18	0.18	0.011	0.011	NA	NA	NA	NA	NA	NA	82	90	93	NA	NA	NA	<1	<1	1	1	1	
SR12	4/3/2017	Mid-Flood	Fine	Moderate	10:40	15	B	14	1	9	0.17	0.18	0.010	0.010	NA	NA	NA	NA	NA	NA	98	90	93	NA	NA	NA	<1	<1	1	1	1		
SR12	4/3/2017	Mid-Flood	Fine	Moderate	10:40	15	B	14	2	9		0.17	0.18	0.010	0.010	NA	NA	NA	NA	NA	NA	98	90	93	NA	NA	NA	<1	<1	1	1	1	
SR12	4/3/2017	Mid-Flood	Fine	Moderate	10:40	15	B	14	3						NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	4/3/2017	Mid-Flood	Fine	Moderate	10:25	14	S	1	1	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	4/3/2017	Mid-Flood	Fine	Moderate	10:25	14	S	1	2	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	4/3/2017	Mid-Flood	Fine	Moderate	10:25	14	S	1	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	4/3/2017	Mid-Flood	Fine	Moderate	10:25	14	M	7	1	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	4/3/2017	Mid-Flood	Fine	Moderate	10:25	14	M	7	2	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	4/3/2017	Mid-Flood	Fine	Moderate	10:25	14	M	7	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	4/3/2017	Mid-Flood	Fine	Moderate	10:25	14	B	13	1	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	4/3/2017	Mid-Flood	Fine	Moderate	10:25	14	B	13	2	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	4/3/2017	Mid-Flood	Fine	Moderate	10:25	14	B	13	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.



Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																											
										pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Ammonia (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)						
										Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	S & M Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.		
SR5	4/3/2017	Mid-Ebb	Fine	Moderate	13:50	11	S	1	1	8.37	8.37	29.07	29.07	18.09	18.09	92.5	92.5	7.22	7.22	7.21	0.5	0.6	0.6	NA	NA	NA	NA	NA	0.10	0.27	0.02	0.39	0.39	0.41			
SR5	4/3/2017	Mid-Ebb	Fine	Moderate	13:50	11	S	1	2	8.37		29.07	29.07	18.09	18.09	92.4	92.5	7.21	7.22		0.7			NA					NA	NA	0.10	0.28			0.02	0.40	
SR5	4/3/2017	Mid-Ebb	Fine	Moderate	13:50	11	S	1	3	8.37		29.07	29.07	18.09	18.09	92.4	92.5	7.21	7.22		0.6			NA					NA	NA	0.10	0.27			0.02	0.39	
SR5	4/3/2017	Mid-Ebb	Fine	Moderate	13:50	11	M	5.5	1	8.39	8.39	29.22	29.22	18.04	18.04	92.2	92.2	7.21	7.21	7.21	0.6	0.6	0.6	NA	NA	NA	NA	NA	0.13	0.27	0.02	0.42	0.42	0.41			
SR5	4/3/2017	Mid-Ebb	Fine	Moderate	13:50	11	M	5.5	2	8.39		29.22	29.22	18.04	18.04	92.1	92.2	7.21	7.21		0.6			NA					NA	NA	0.13	0.27			0.02	0.42	
SR5	4/3/2017	Mid-Ebb	Fine	Moderate	13:50	11	M	5.5	3	8.39		29.22	29.22	18.04	18.04	92.1	92.2	7.21	7.21		0.6			NA					NA	NA	0.13	0.27			0.02	0.42	
SR5	4/3/2017	Mid-Ebb	Fine	Moderate	13:50	11	B	10	1	8.40	8.40	29.12	29.12	18.05	18.05	91.6	91.7	7.31	7.31	7.31	0.9	0.9	0.9	NA	NA	NA	NA	NA	0.13	0.27	0.02	0.42	0.42	0.41			
SR5	4/3/2017	Mid-Ebb	Fine	Moderate	13:50	11	B	10	2	8.40		29.12	29.12	18.05	18.05	91.7	91.7	7.30	7.31		0.9			NA					NA	NA	0.13	0.27			0.02	0.42	
SR5	4/3/2017	Mid-Ebb	Fine	Moderate	13:50	11	B	10	3	8.40		29.12	29.12	18.05	18.05	91.7	91.7	7.30	7.31		0.9			NA					NA	NA	0.13	0.27			0.02	0.42	
SR12	4/3/2017	Mid-Ebb	Fine	Moderate	15:03	18	S	1	1	8.37	8.37	31.55	31.56	17.99	17.99	88.5	88.6	6.91	6.92	6.87	0.7	0.8	0.8	0.20	0.20	0.19	0.012	0.012	NA	NA	NA	NA	NA	NA			
SR12	4/3/2017	Mid-Ebb	Fine	Moderate	15:03	18	S	1	2	8.37		31.56	31.56	17.99	17.99	88.7	88.6	6.92	6.92		0.9			0.20					0.20	0.012	0.012	NA			NA	NA	NA
SR12	4/3/2017	Mid-Ebb	Fine	Moderate	15:03	18	S	1	3	8.37		31.56	31.56	17.99	17.99	88.7	88.6	6.92	6.92		0.7			0.20					0.20	0.012	0.012	NA			NA	NA	NA
SR12	4/3/2017	Mid-Ebb	Fine	Moderate	15:03	18	M	7.5	1	8.37	8.37	31.58	31.58	17.99	17.99	87.5	87.5	6.82	6.83	6.83	0.7	0.7	0.7	0.20	0.20	0.19	0.012	0.012	NA	NA	NA	NA	NA	NA			
SR12	4/3/2017	Mid-Ebb	Fine	Moderate	15:03	18	M	7.5	2	8.37		31.58	31.58	17.99	17.99	87.5	87.5	6.83	6.83		0.7			0.20					0.20	0.012	0.012	NA			NA	NA	NA
SR12	4/3/2017	Mid-Ebb	Fine	Moderate	15:03	18	M	7.5	3	8.37		31.58	31.58	17.99	17.99	87.5	87.5	6.83	6.83		0.7			0.20					0.20	0.012	0.012	NA			NA	NA	NA
SR12	4/3/2017	Mid-Ebb	Fine	Moderate	15:03	18	B	14	1	8.37	8.37	31.61	31.61	17.99	17.99	86.9	87.0	6.79	6.80	6.80	0.8	0.8	0.8	0.17	0.17	0.17	0.010	0.010	NA	NA	NA	NA	NA	NA			
SR12	4/3/2017	Mid-Ebb	Fine	Moderate	15:03	18	B	14	2	8.37		31.61	31.61	17.99	17.99	87.0	87.0	6.81	6.80		0.7			0.17					0.17	0.010	0.010	NA			NA	NA	NA
SR12	4/3/2017	Mid-Ebb	Fine	Moderate	15:03	18	B	14	3	8.37		31.61	31.61	17.99	17.99	87.0	87.0	6.81	6.80		0.7			0.17					0.17	0.010	0.010	NA			NA	NA	NA
SR13	4/3/2017	Mid-Ebb	Fine	Moderate	15:22	14	S	1	1	8.35	8.35	36.64	36.77	17.96	17.96	89.2	89.2	6.88	6.89	6.90	1.3	1.3	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	4/3/2017	Mid-Ebb	Fine	Moderate	15:22	14	S	1	2	8.35		36.89	36.77	17.96	17.96	89.1	89.2	6.89	6.89		1.2			NA					NA	NA	NA	NA			NA	NA	
SR13	4/3/2017	Mid-Ebb	Fine	Moderate	15:22	14	S	1	3	8.35		36.89	36.77	17.96	17.96	89.1	89.2	6.89	6.89		1.2			NA					NA	NA	NA	NA			NA	NA	
SR13	4/3/2017	Mid-Ebb	Fine	Moderate	15:22	14	M	7	1	8.35	8.35	36.49	36.52	17.95	17.95	87.9	88.0	6.91	6.92	6.92	1.1	1.1	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	4/3/2017	Mid-Ebb	Fine	Moderate	15:22	14	M	7	2	8.35		36.54	36.52	17.95	17.95	88.1	88.0	6.92	6.92		1.0			NA					NA	NA	NA	NA			NA	NA	
SR13	4/3/2017	Mid-Ebb	Fine	Moderate	15:22	14	M	7	3	8.35		36.54	36.52	17.95	17.95	88.1	88.0	6.92	6.92		1.0			NA					NA	NA	NA	NA			NA	NA	
SR13	4/3/2017	Mid-Ebb	Fine	Moderate	15:22	14	B	13	1	8.35	8.35	35.25	35.25	17.94	17.94	88.0	88.0	6.88	6.88	6.88	0.9	0.9	0.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	4/3/2017	Mid-Ebb	Fine	Moderate	15:22	14	B	13	2	8.35		35.25	35.25	17.94	17.94	87.9	88.0	6.88	6.88		0.9			NA					NA	NA	NA	NA			NA	NA	
SR13	4/3/2017	Mid-Ebb	Fine	Moderate	15:22	14	B	13	3	8.35		35.25	35.25	17.94	17.94	87.9	88.0	6.88	6.88		0.9			NA					NA	NA	NA	NA			NA	NA	

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.



Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																							
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)		
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.
SR5	4/3/2017	Mid-Ebb	Fine	Moderate	13:50	11	S	1	1	5	NA	NA	NA	NA	NA	NA	0.12	0.27	0.02	0.41	0.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR5	4/3/2017	Mid-Ebb	Fine	Moderate	13:50	11	S	1	2	6	NA	NA	NA	NA	NA	NA	0.11	0.28	0.02	0.41	0.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	4/3/2017	Mid-Ebb	Fine	Moderate	13:50	11	S	1	3		NA	NA	NA	NA	NA	NA	0.10	0.27	0.02	0.39	0.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	4/3/2017	Mid-Ebb	Fine	Moderate	13:50	11	M	5.5	1	6	NA	NA	NA	NA	NA	NA	0.11	0.27	0.02	0.40	0.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	4/3/2017	Mid-Ebb	Fine	Moderate	13:50	11	M	5.5	2	5	NA	NA	NA	NA	NA	NA	0.12	0.27	0.02	0.41	0.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	4/3/2017	Mid-Ebb	Fine	Moderate	13:50	11	M	5.5	3		NA	NA	NA	NA	NA	NA	0.11	0.27	0.02	0.40	0.39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	4/3/2017	Mid-Ebb	Fine	Moderate	13:50	11	B	10	1	5	NA	NA	NA	NA	NA	NA	0.10	0.27	0.02	0.39	0.39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	4/3/2017	Mid-Ebb	Fine	Moderate	13:50	11	B	10	2	4	NA	NA	NA	NA	NA	NA	0.11	0.27	0.02	0.40	0.39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	4/3/2017	Mid-Ebb	Fine	Moderate	13:50	11	B	10	3		NA	NA	NA	NA	NA	NA	0.10	0.27	0.02	0.39	0.39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR12	4/3/2017	Mid-Ebb	Fine	Moderate	15:03	18	S	1	1	6	0.21	0.21	0.19	0.013	0.012	0.012	NA	NA	NA	NA	NA	NA	200	170	184	NA	NA	NA	<1	<1	1	NA	
SR12	4/3/2017	Mid-Ebb	Fine	Moderate	15:03	18	S	1	2	7	0.20	0.21	0.19	0.012	0.012	0.012	NA	NA	NA	NA	NA	NA	140	90	112	128	NA	NA	NA	<1	<1	1	1
SR12	4/3/2017	Mid-Ebb	Fine	Moderate	15:03	18	S	1	3		0.19	0.20	0.20	0.011	0.012	0.012	NA	NA	NA	NA	NA	NA	140	90	112	128	NA	NA	NA	<1	<1	1	1
SR12	4/3/2017	Mid-Ebb	Fine	Moderate	15:03	18	M	7.5	1	7	0.19	0.20	0.19	0.011	0.012	0.012	NA	NA	NA	NA	NA	NA	140	90	112	128	NA	NA	NA	<1	<1	1	1
SR12	4/3/2017	Mid-Ebb	Fine	Moderate	15:03	18	M	7.5	2	6	0.20	0.20	0.19	0.012	0.012	0.012	NA	NA	NA	NA	NA	NA	90	112	128	NA	NA	NA	<1	<1	1	1	
SR12	4/3/2017	Mid-Ebb	Fine	Moderate	15:03	18	M	7.5	3		0.20	0.20	0.19	0.012	0.012	0.012	NA	NA	NA	NA	NA	NA	140	90	112	128	NA	NA	NA	<1	<1	1	1
SR12	4/3/2017	Mid-Ebb	Fine	Moderate	15:03	18	B	14	1	5	0.17	0.18	0.17	0.010	0.011	0.011	NA	NA	NA	NA	NA	NA	130	80	102	NA	NA	NA	<1	<1	1	NA	
SR12	4/3/2017	Mid-Ebb	Fine	Moderate	15:03	18	B	14	2	6	0.19	0.18	0.18	0.011	0.011	0.011	NA	NA	NA	NA	NA	NA	130	80	102	NA	NA	NA	<1	<1	1	NA	
SR12	4/3/2017	Mid-Ebb	Fine	Moderate	15:03	18	B	14	3		0.19	0.18	0.18	0.011	0.011	0.011	NA	NA	NA	NA	NA	NA	130	80	102	NA	NA	NA	<1	<1	1	NA	
SR13	4/3/2017	Mid-Ebb	Fine	Moderate	15:22	14	S	1	1	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	4/3/2017	Mid-Ebb	Fine	Moderate	15:22	14	S	1	2	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	4/3/2017	Mid-Ebb	Fine	Moderate	15:22	14	S	1	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	4/3/2017	Mid-Ebb	Fine	Moderate	15:22	14	M	7	1	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	4/3/2017	Mid-Ebb	Fine	Moderate	15:22	14	M	7	2	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	4/3/2017	Mid-Ebb	Fine	Moderate	15:22	14	M	7	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	4/3/2017	Mid-Ebb	Fine	Moderate	15:22	14	B	13	1	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	4/3/2017	Mid-Ebb	Fine	Moderate	15:22	14	B	13	2	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	4/3/2017	Mid-Ebb	Fine	Moderate	15:22	14	B	13	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
2. ND: Not Detected  
3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.





Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																														
										pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Ammonia (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)									
										Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	S & M Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.					
SR5	7/3/2017	Mid-Flood	Cloudy	Moderate	9:46	11	S	1	1	8.55	8.54	29.31	29.31	18.45	18.45	88.5	88.6	6.71	6.72	6.69	0.9	0.9	0.9	NA	NA	NA	NA	NA	0.22	0.23	0.02	0.47	0.47							
SR5	7/3/2017	Mid-Flood	Cloudy	Moderate	9:46	11	S	1	2	8.52		29.31	29.31	18.45	18.45	88.6	88.6	6.72	6.72		0.9			0.9					0.9	NA	NA	NA		NA	NA	0.22	0.23	0.02	0.47	
SR5	7/3/2017	Mid-Flood	Cloudy	Moderate	9:46	11	S	1	3																															
SR5	7/3/2017	Mid-Flood	Cloudy	Moderate	9:46	11	M	5.5	1	8.52	8.52	29.29	29.29	18.41	18.41	88.7	88.8	6.67	6.67	6.69	0.8	0.8	0.8	NA	NA	NA	NA	NA	0.22	0.28	0.02	0.52	0.50							
SR5	7/3/2017	Mid-Flood	Cloudy	Moderate	9:46	11	M	5.5	2	8.51		29.29	29.29	18.41	18.41	88.9	88.8	6.67	6.67		0.8			0.8					0.8	NA	NA	NA		NA	NA	0.22	0.25	0.02	0.49	
SR5	7/3/2017	Mid-Flood	Cloudy	Moderate	9:46	11	M	5.5	3																															
SR5	7/3/2017	Mid-Flood	Cloudy	Moderate	9:46	11	B	10	1	8.50	8.50	29.31	29.31	18.39	18.39	88.8	88.9	6.69	6.69	6.69	1.0	1.1	1.1	NA	NA	NA	NA	NA	0.21	0.24	0.02	0.47	0.47							
SR5	7/3/2017	Mid-Flood	Cloudy	Moderate	9:46	11	B	10	2	8.49		29.31	29.31	18.39	18.39	88.9	88.9	6.69	6.69		1.1			1.1					1.1	NA	NA	NA		NA	NA	0.21	0.24	0.02	0.47	
SR5	7/3/2017	Mid-Flood	Cloudy	Moderate	9:46	11	B	10	3																															
SR12	7/3/2017	Mid-Flood	Cloudy	Moderate	11:51	15	S	1	1	7.70	7.70	30.87	30.87	17.95	17.95	85.7	85.7	6.80	6.80	6.67	2.6	2.4	2.5	0.20	0.20	0.20	0.003	0.003	NA	NA	NA	NA	NA							
SR12	7/3/2017	Mid-Flood	Cloudy	Moderate	11:51	15	S	1	2	7.70		30.87	30.87	17.95	17.95	85.6	85.6	6.79	6.80		2.4			2.5					2.5	0.20	0.20	0.20		0.003	0.003	NA	NA	NA	NA	
SR12	7/3/2017	Mid-Flood	Cloudy	Moderate	11:51	15	S	1	3																															
SR12	7/3/2017	Mid-Flood	Cloudy	Moderate	11:51	15	M	7.5	1	7.70	7.70	30.87	30.87	17.93	17.93	83.2	83.2	6.55	6.55	6.67	2.1	2.0	2.1	0.22	0.22	0.22	0.003	0.003	NA	NA	NA	NA	NA							
SR12	7/3/2017	Mid-Flood	Cloudy	Moderate	11:51	15	M	7.5	2	7.70		30.87	30.87	17.93	17.93	83.2	83.2	6.55	6.55		2.1			2.1					2.1	0.22	0.22	0.22		0.003	0.003	NA	NA	NA	NA	
SR12	7/3/2017	Mid-Flood	Cloudy	Moderate	11:51	15	M	7.5	3																															
SR12	7/3/2017	Mid-Flood	Cloudy	Moderate	11:51	15	B	14	1	7.71	7.71	30.85	30.85	17.92	17.92	82.9	82.9	6.53	6.53	6.67	2.1	2.2	2.2	0.20	0.20	0.20	0.003	0.003	NA	NA	NA	NA	NA							
SR12	7/3/2017	Mid-Flood	Cloudy	Moderate	11:51	15	B	14	2	7.71		30.85	30.85	17.92	17.92	82.8	82.8	6.53	6.53		2.2			2.2					2.2	0.20	0.20	0.20		0.003	0.003	NA	NA	NA	NA	
SR12	7/3/2017	Mid-Flood	Cloudy	Moderate	11:51	15	B	14	3																															
SR13	7/3/2017	Mid-Flood	Cloudy	Moderate	12:15	14	S	1	1	7.71	7.72	30.85	30.84	17.98	17.98	88.1	87.9	6.77	6.77	6.64	2.1	2.2	2.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
SR13	7/3/2017	Mid-Flood	Cloudy	Moderate	12:15	14	S	1	2	7.72		30.82	30.84	17.98	17.98	87.9	88.0	6.77	6.77		2.2			2.2					2.2	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA
SR13	7/3/2017	Mid-Flood	Cloudy	Moderate	12:15	14	S	1	3																															
SR13	7/3/2017	Mid-Flood	Cloudy	Moderate	12:15	14	M	7	1	7.75	7.76	30.82	30.82	18.01	18.01	88.1	87.9	6.51	6.51	6.64	2.5	2.4	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
SR13	7/3/2017	Mid-Flood	Cloudy	Moderate	12:15	14	M	7	2	7.77		30.82	30.82	18.01	18.01	87.6	87.9	6.50	6.51		2.4			2.5					2.5	NA	NA	NA		NA	NA	NA	NA	NA	NA	
SR13	7/3/2017	Mid-Flood	Cloudy	Moderate	12:15	14	M	7	3																															
SR13	7/3/2017	Mid-Flood	Cloudy	Moderate	12:15	14	B	13	1	7.71	7.71	30.85	30.85	18.02	18.02	86.2	86.3	6.48	6.48	6.64	2.6	2.6	2.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
SR13	7/3/2017	Mid-Flood	Cloudy	Moderate	12:15	14	B	13	2	7.71		30.85	30.85	18.02	18.02	86.3	86.3	6.49	6.49		2.6			2.6					2.6	NA	NA	NA		NA	NA	NA	NA	NA	NA	
SR13	7/3/2017	Mid-Flood	Cloudy	Moderate	12:15	14	B	13	3																															

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.



Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																							
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)		
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.
SR5	7/3/2017	Mid-Flood	Cloudy	Moderate	9:46	11	S	1	1	10	NA	NA	NA	0.21	0.23	0.02	0.46	0.47	NA	NA	NA	NA	NA	NA	NA								
SR5	7/3/2017	Mid-Flood	Cloudy	Moderate	9:46	11	S	1	2	11	NA	NA	NA	0.22	0.23	0.02	0.47	0.47	NA	NA	NA	NA	NA	NA	NA								
SR5	7/3/2017	Mid-Flood	Cloudy	Moderate	9:46	11	S	1	3				0.22	0.23	0.02	0.47	0.47																
SR5	7/3/2017	Mid-Flood	Cloudy	Moderate	9:46	11	M	5.5	1	10	NA	NA	NA	0.17	0.28	0.02	0.47	0.48	NA	NA	NA	NA	NA	NA	NA								
SR5	7/3/2017	Mid-Flood	Cloudy	Moderate	9:46	11	M	5.5	2	10	NA	NA	NA	0.23	0.25	0.02	0.50	0.48	NA	NA	NA	NA	NA	NA	NA								
SR5	7/3/2017	Mid-Flood	Cloudy	Moderate	9:46	11	M	5.5	3				0.22	0.24	0.02	0.48	0.46																
SR5	7/3/2017	Mid-Flood	Cloudy	Moderate	9:46	11	B	10	1	10	NA	NA	NA	0.21	0.24	0.02	0.47	0.46	NA	NA	NA	NA	NA	NA	NA								
SR5	7/3/2017	Mid-Flood	Cloudy	Moderate	9:46	11	B	10	2	11	NA	NA	NA	0.19	0.24	0.02	0.45	0.46	NA	NA	NA	NA	NA	NA	NA								
SR5	7/3/2017	Mid-Flood	Cloudy	Moderate	9:46	11	B	10	3				0.21	0.25	0.01	0.47	0.46																
SR12	7/3/2017	Mid-Flood	Cloudy	Moderate	11:51	15	S	1	1	5	0.20	0.21	0.003	0.003	0.003	NA	NA	NA	NA	NA	45	50	72	NA	NA	1							
SR12	7/3/2017	Mid-Flood	Cloudy	Moderate	11:51	15	S	1	2	5	0.22	0.23	0.003	0.003	0.003	NA	NA	NA	NA	NA	56	50	72	NA	NA	<1							
SR12	7/3/2017	Mid-Flood	Cloudy	Moderate	11:51	15	S	1	3				0.23	0.23	0.003	0.003	0.003	0.003	0.003	NA	NA	NA	NA	NA	NA	2							
SR12	7/3/2017	Mid-Flood	Cloudy	Moderate	11:51	15	M	7.5	1	8	0.22	0.23	0.22	0.003	0.003	0.003	0.003	0.003	0.003	NA	120	104	72	NA	NA	2							
SR12	7/3/2017	Mid-Flood	Cloudy	Moderate	11:51	15	M	7.5	2	8				0.20	0.21	0.003	0.003	0.003	0.003	NA	90	104	72	NA	NA	2							
SR12	7/3/2017	Mid-Flood	Cloudy	Moderate	11:51	15	M	7.5	3				0.22	0.21	0.003	0.003	0.003	0.003	0.003	NA				NA	NA	2							
SR12	7/3/2017	Mid-Flood	Cloudy	Moderate	11:51	15	B	14	1	10	0.20	0.21	0.003	0.003	0.003	NA	NA	NA	NA	NA	81	73		NA	NA	<1							
SR12	7/3/2017	Mid-Flood	Cloudy	Moderate	11:51	15	B	14	2	10	0.22	0.21	0.003	0.003	0.003	NA	NA	NA	NA	NA	65	73		NA	NA	2							
SR12	7/3/2017	Mid-Flood	Cloudy	Moderate	11:51	15	B	14	3				NA	NA	NA	NA	NA	NA	NA	NA				NA	NA	2							
SR13	7/3/2017	Mid-Flood	Cloudy	Moderate	12:15	14	S	1	1	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
SR13	7/3/2017	Mid-Flood	Cloudy	Moderate	12:15	14	S	1	2	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
SR13	7/3/2017	Mid-Flood	Cloudy	Moderate	12:15	14	S	1	3				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
SR13	7/3/2017	Mid-Flood	Cloudy	Moderate	12:15	14	M	7	1	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
SR13	7/3/2017	Mid-Flood	Cloudy	Moderate	12:15	14	M	7	2	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
SR13	7/3/2017	Mid-Flood	Cloudy	Moderate	12:15	14	M	7	3				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
SR13	7/3/2017	Mid-Flood	Cloudy	Moderate	12:15	14	B	13	1	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
SR13	7/3/2017	Mid-Flood	Cloudy	Moderate	12:15	14	B	13	2	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
SR13	7/3/2017	Mid-Flood	Cloudy	Moderate	12:15	14	B	13	3				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.



Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																																
										pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Ammonia (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)											
										Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	S & M Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.							
SR5	7/3/2017	Mid-Ebb	Cloudy	Moderate	8:41	11	S	1	1	8.49	8.50	29.41	29.42	18.23	18.23	85.6	85.6	6.69	6.67	6.68	6.69	0.6	0.7	0.7	NA	NA	NA	NA	NA	0.16	0.27	0.02	0.45	0.46								
SR5	7/3/2017	Mid-Ebb	Cloudy	Moderate	8:41	11	S	1	2	8.50		29.42	29.42	18.23	18.23	85.6	85.6	6.69	6.67			6.68			0.6					0.7	0.7	NA	NA		NA	NA	NA	0.16	0.28	0.02	0.46	
SR5	7/3/2017	Mid-Ebb	Cloudy	Moderate	8:41	11	S	1	3																																	
SR5	7/3/2017	Mid-Ebb	Cloudy	Moderate	8:41	11	M	5.5	1	8.50	8.50	29.46	29.46	18.22	18.22	85.4	85.4	6.69	6.69	6.69	6.69	0.7	0.7	0.7	NA	NA	NA	NA	NA	0.22	0.24	0.02	0.48	0.51								
SR5	7/3/2017	Mid-Ebb	Cloudy	Moderate	8:41	11	M	5.5	2	8.50		29.46	29.46	18.22	18.22	85.4	85.4	6.69	6.69			6.69			0.7					0.7	0.7	NA	NA		NA	NA	NA	0.22	0.29	0.01	0.52	
SR5	7/3/2017	Mid-Ebb	Cloudy	Moderate	8:41	11	M	5.5	3																																	
SR5	7/3/2017	Mid-Ebb	Cloudy	Moderate	8:41	11	B	10	1	8.51	8.51	29.45	29.45	18.21	18.21	86.8	86.8	6.70	6.70	6.70	6.70	0.6	0.6	0.6	NA	NA	NA	NA	NA	0.18	0.29	0.01	0.48	0.48								
SR5	7/3/2017	Mid-Ebb	Cloudy	Moderate	8:41	11	B	10	2	8.51		29.45	29.45	18.21	18.21	86.8	86.8	6.70	6.70			6.70			0.6					0.6	0.6	NA	NA		NA	NA	NA	0.18	0.29	0.01	0.48	
SR5	7/3/2017	Mid-Ebb	Cloudy	Moderate	8:41	11	B	10	3																																	
SR12	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:40	15	S	1	1	8.31	8.31	29.30	29.30	18.42	18.42	89.2	89.2	6.71	6.72	6.72	6.72	1.0	1.1	1.1	0.19	0.19	0.19	0.010	0.010	NA	NA	NA	NA	NA								
SR12	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:40	15	S	1	2	8.31		29.30	29.30	18.42	18.42	89.2	89.2	6.71	6.72			6.72			1.0			1.1		1.1	0.19	0.19	0.19		0.010	0.010	NA	NA	NA	NA	NA	
SR12	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:40	15	S	1	3																																	
SR12	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:40	15	M	7.5	1	8.39	8.39	29.29	29.29	18.42	18.41	89.5	89.5	6.51	6.51	6.51	6.51	0.9	0.9	0.9	0.18	0.18	0.18	0.012	0.012	NA	NA	NA	NA	NA								
SR12	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:40	15	M	7.5	2	8.39		29.29	29.29	18.39	18.41	89.5	89.5	6.51	6.51			6.51			0.9			0.9		0.9	0.18	0.18	0.18		0.012	0.012	NA	NA	NA	NA	NA	
SR12	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:40	15	M	7.5	3																																	
SR12	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:40	15	B	14	1	8.35	8.35	29.31	29.31	18.38	18.38	89.2	89.3	6.35	6.35	6.35	6.35	0.9	1.1	1.0	0.17	0.17	0.17	0.010	0.010	NA	NA	NA	NA	NA								
SR12	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:40	15	B	14	2	8.35		29.31	29.31	18.37	18.38	89.3	89.3	6.35	6.35			6.35			0.9			1.1		1.0	0.17	0.17	0.17		0.010	0.010	NA	NA	NA	NA	NA	
SR12	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:40	15	B	14	3																																	
SR13	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:22	14	S	1	1	8.26	8.27	29.59	29.59	18.35	18.35	89.8	89.8	6.21	6.24	6.23	6.23	0.7	0.8	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA								
SR13	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:22	14	S	1	2	8.27		29.59	29.59	18.35	18.35	89.8	89.8	6.24	6.24			6.23			0.7			0.8		0.8	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA
SR13	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:22	14	S	1	3																																	
SR13	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:22	14	M	7	1	8.39	8.39	29.60	29.60	18.35	18.35	89.7	89.7	6.10	6.10	6.10	6.10	0.9	1.0	1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA								
SR13	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:22	14	M	7	2	8.39		29.60	29.60	18.35	18.35	89.7	89.7	6.10	6.10			6.10			0.9			1.0		1.0	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA
SR13	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:22	14	M	7	3																																	
SR13	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:22	14	B	13	1	8.40	8.40	29.63	29.63	18.34	18.34	88.9	88.9	6.20	6.20	6.20	6.20	1.0	1.0	1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA								
SR13	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:22	14	B	13	2	8.40		29.63	29.63	18.34	18.34	88.9	88.9	6.20	6.20			6.20			1.0			1.0		1.0	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA
SR13	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:22	14	B	13	3																																	

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.



Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																							
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)		
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.
SR5	7/3/2017	Mid-Ebb	Cloudy	Moderate	8:41	11	S	1	1	9		NA	NA	NA	NA	0.17	0.27	0.02	0.46	0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR5	7/3/2017	Mid-Ebb	Cloudy	Moderate	8:41	11	S	1	2	9	9	NA	NA	NA	NA	0.16	0.28	0.02	0.46		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	7/3/2017	Mid-Ebb	Cloudy	Moderate	8:41	11	S	1	3			NA	NA	NA	NA	0.16	0.29	0.02	0.47		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	7/3/2017	Mid-Ebb	Cloudy	Moderate	8:41	11	M	5.5	1	8		NA	NA	NA	NA	0.23	0.24	0.02	0.49		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	7/3/2017	Mid-Ebb	Cloudy	Moderate	8:41	11	M	5.5	2	8	8	NA	NA	NA	NA	0.22	0.29	0.01	0.52	0.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	7/3/2017	Mid-Ebb	Cloudy	Moderate	8:41	11	M	5.5	3			NA	NA	NA	NA	0.23	0.28	0.02	0.53		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	7/3/2017	Mid-Ebb	Cloudy	Moderate	8:41	11	B	10	1	8		NA	NA	NA	NA	0.17	0.29	0.01	0.47	0.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	7/3/2017	Mid-Ebb	Cloudy	Moderate	8:41	11	B	10	2	10	9	NA	NA	NA	NA	0.18	0.29	0.01	0.48		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	7/3/2017	Mid-Ebb	Cloudy	Moderate	8:41	11	B	10	3			NA	NA	NA	NA	0.18	0.28	0.02	0.48		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR12	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:40	15	S	1	1	8		0.19			0.010	0.010	0.010	0.010	NA	NA	NA	NA	NA	280			NA	NA	2				
SR12	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:40	15	S	1	2	9	9	0.19	0.19		0.010	0.010	0.010	0.010	NA	NA	NA	NA	NA	180			NA	NA	2		2		
SR12	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:40	15	S	1	3						0.012	0.012	0.012	0.012	NA	NA	NA	NA	NA				NA	NA	1				
SR12	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:40	15	M	7.5	1	7		0.18			0.012	0.012	0.012	0.012	0.18	0.18	0.18	0.011	NA	81			NA	NA	2		2		
SR12	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:40	15	M	7.5	2	9	8	0.18	0.18		0.012	0.012	0.012	0.012					NA	71			NA	NA	2		2		
SR12	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:40	15	M	7.5	3						0.010	0.010	0.010	0.010					NA				NA	NA					
SR12	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:40	15	B	14	1	11		0.16			0.010	0.010	0.010	0.010					NA	13			NA	NA	<1				
SR12	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:40	15	B	14	2	10	11	0.17	0.17		0.010	0.010	0.010	0.010					NA	16			NA	NA	<1		1		
SR12	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:40	15	B	14	3						0.010	0.010	0.010	0.010					NA				NA	NA					
SR13	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:22	14	S	1	1	6		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:22	14	S	1	2	7	7	NA	NA	NA	NA	NA	NA	NA	NA					NA	NA	NA	NA	NA	NA	NA	NA		
SR13	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:22	14	S	1	3			NA	NA	NA	NA	NA	NA	NA	NA					NA	NA	NA	NA	NA	NA	NA	NA		
SR13	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:22	14	M	7	1	8		NA	NA	NA	NA	NA	NA	NA	NA					NA	NA	NA	NA	NA	NA	NA	NA		
SR13	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:22	14	M	7	2	8	8	NA	NA	NA	NA	NA	NA	NA	NA					NA	NA	NA	NA	NA	NA	NA	NA		
SR13	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:22	14	M	7	3			NA	NA	NA	NA	NA	NA	NA	NA					NA	NA	NA	NA	NA	NA	NA	NA		
SR13	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:22	14	B	13	1	11		NA	NA	NA	NA	NA	NA	NA	NA					NA	NA	NA	NA	NA	NA	NA	NA		
SR13	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:22	14	B	13	2	10	11	NA	NA	NA	NA	NA	NA	NA	NA					NA	NA	NA	NA	NA	NA	NA	NA		
SR13	7/3/2017	Mid-Ebb	Cloudy	Moderate	7:22	14	B	13	3			NA	NA	NA	NA	NA	NA	NA	NA					NA	NA	NA	NA	NA	NA	NA	NA		

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.





Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																										
										pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)			Turbidity (NTU)			Ammonia (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			
										Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	S & M Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value
SR5	9/3/2017	Mid-Flood	Cloudy	Moderate	12:58	11	S	1	1	8.41	8.41	29.41	29.42	18.50	18.50	90.0	89.8	7.39	7.38	7.39	7.41	0.9	1.1	1.0	1.2	NA	NA	NA	NA	0.12	0.23	0.02	0.37	0.37	0.37	
SR5	9/3/2017	Mid-Flood	Cloudy	Moderate	12:58	11	S	1	2	8.40		29.42		18.50		89.8		7.38		7.39		0.9		1.1		1.0		NA		NA		NA				NA
SR5	9/3/2017	Mid-Flood	Cloudy	Moderate	12:58	11	S	1	3																											
SR5	9/3/2017	Mid-Flood	Cloudy	Moderate	12:58	11	M	5.5	1	8.44	8.44	29.47	29.47	18.52	18.52	89.8	89.8	7.44	7.44	7.44	7.41	1.5	1.4	1.5	1.2	NA	NA	NA	NA	0.12	0.23	0.02	0.37	0.37	0.37	
SR5	9/3/2017	Mid-Flood	Cloudy	Moderate	12:58	11	M	5.5	2	8.43		29.47		18.52		89.8		7.44		7.44		1.5		1.4		1.5		NA		NA		NA				NA
SR5	9/3/2017	Mid-Flood	Cloudy	Moderate	12:58	11	M	5.5	3																											
SR5	9/3/2017	Mid-Flood	Cloudy	Moderate	12:58	11	B	10	1	8.45	8.45	29.57	29.57	18.48	18.49	89.6	89.5	7.45	7.45	7.45	6.82	1.2	1.1	1.2	1.0	NA	NA	NA	NA	0.12	0.24	0.02	0.38	0.37	0.37	
SR5	9/3/2017	Mid-Flood	Cloudy	Moderate	12:58	11	B	10	2	8.45		29.57		18.49		89.5		7.45		7.45		1.2		1.1		1.2		NA		NA		NA				NA
SR5	9/3/2017	Mid-Flood	Cloudy	Moderate	12:58	11	B	10	3																											
SR12	9/3/2017	Mid-Flood	Cloudy	Moderate	14:31	15	S	1	1	8.41	8.42	29.48	29.48	18.51	18.51	89.8	89.9	6.72	6.72	6.72	6.82	1.2	1.1	1.2	1.0	0.15	0.15	0.010	0.010	NA	NA	NA	NA	NA	NA	NA
SR12	9/3/2017	Mid-Flood	Cloudy	Moderate	14:31	15	S	1	2	8.42		29.48		18.51		89.9		6.71		6.72		1.2		1.1		1.2		0.15		0.15		0.010		0.010		0.010
SR12	9/3/2017	Mid-Flood	Cloudy	Moderate	14:31	15	S	1	3																											
SR12	9/3/2017	Mid-Flood	Cloudy	Moderate	14:31	15	M	7.5	1	8.40	8.40	29.45	29.45	18.52	18.53	89.3	89.3	6.92	6.92	6.92	6.82	1.0	1.1	1.1	1.0	0.15	0.15	0.010	0.010	NA	NA	NA	NA	NA	NA	NA
SR12	9/3/2017	Mid-Flood	Cloudy	Moderate	14:31	15	M	7.5	2	8.40		29.45		18.53		89.3		6.92		6.92		1.0		1.1		1.1		0.15		0.15		0.010		0.010		0.010
SR12	9/3/2017	Mid-Flood	Cloudy	Moderate	14:31	15	M	7.5	3																											
SR12	9/3/2017	Mid-Flood	Cloudy	Moderate	14:31	15	B	14	1	8.41	8.41	29.51	29.51	18.43	18.44	88.5	88.6	6.89	6.89	6.89	6.82	0.9	0.8	0.9	0.9	0.14	0.14	0.010	0.010	NA	NA	NA	NA	NA	NA	NA
SR12	9/3/2017	Mid-Flood	Cloudy	Moderate	14:31	15	B	14	2	8.41		29.51		18.44		88.6		6.89		6.89		0.9		0.8		0.9		0.14		0.14		0.010		0.010		0.010
SR12	9/3/2017	Mid-Flood	Cloudy	Moderate	14:31	15	B	14	3																											
SR13	9/3/2017	Mid-Flood	Cloudy	Moderate	14:43	14	S	1	1	8.41	8.41	29.59	29.60	18.57	18.57	90.8	90.8	6.87	6.88	6.88	6.90	1.4	1.4	1.4	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	9/3/2017	Mid-Flood	Cloudy	Moderate	14:43	14	S	1	2	8.41		29.60		18.57		90.7		6.88		6.88		1.4		1.4		1.4		NA		NA		NA		NA		NA
SR13	9/3/2017	Mid-Flood	Cloudy	Moderate	14:43	14	S	1	3																											
SR13	9/3/2017	Mid-Flood	Cloudy	Moderate	14:43	14	M	7	1	8.42	8.43	29.59	29.59	18.57	18.57	90.5	90.4	6.91	6.93	6.92	6.90	1.3	1.2	1.3	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	9/3/2017	Mid-Flood	Cloudy	Moderate	14:43	14	M	7	2	8.43		29.59		18.57		90.3		6.93		6.92		1.3		1.2		1.3		NA		NA		NA		NA		NA
SR13	9/3/2017	Mid-Flood	Cloudy	Moderate	14:43	14	M	7	3																											
SR13	9/3/2017	Mid-Flood	Cloudy	Moderate	14:43	14	B	13	1	8.45	8.45	29.60	29.61	18.57	18.57	89.1	89.2	7.02	7.02	7.02	6.90	1.1	1.0	1.1	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	9/3/2017	Mid-Flood	Cloudy	Moderate	14:43	14	B	13	2	8.45		29.61		18.57		89.2		7.01		7.02		1.1		1.0		1.1		NA		NA		NA		NA		NA
SR13	9/3/2017	Mid-Flood	Cloudy	Moderate	14:43	14	B	13	3																											

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.



Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																							
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)		
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.
SR5	9/3/2017	Mid-Flood	Cloudy	Moderate	12:58	11	S	1	1	4	NA	NA	NA	NA	0.12	0.23	0.02	0.37	0.37	NA	NA	NA	NA	NA	NA	NA							
SR5	9/3/2017	Mid-Flood	Cloudy	Moderate	12:58	11	S	1	2	4	NA	NA	NA	NA	0.12	0.23	0.02	0.37	0.37	NA	NA	NA	NA	NA	NA	NA							
SR5	9/3/2017	Mid-Flood	Cloudy	Moderate	12:58	11	S	1	3		NA	NA	NA	NA	0.12	0.23	0.02	0.37	0.37	NA	NA	NA	NA	NA	NA	NA							
SR5	9/3/2017	Mid-Flood	Cloudy	Moderate	12:58	11	M	5.5	1	3	NA	NA	NA	NA	0.12	0.23	0.02	0.37	0.37	NA	NA	NA	NA	NA	NA	NA							
SR5	9/3/2017	Mid-Flood	Cloudy	Moderate	12:58	11	M	5.5	2	4	NA	NA	NA	NA	0.12	0.22	0.02	0.36	0.37	NA	NA	NA	NA	NA	NA	NA							
SR5	9/3/2017	Mid-Flood	Cloudy	Moderate	12:58	11	M	5.5	3		NA	NA	NA	NA	0.12	0.23	0.02	0.37	0.37	NA	NA	NA	NA	NA	NA	NA							
SR5	9/3/2017	Mid-Flood	Cloudy	Moderate	12:58	11	B	10	1	6	NA	NA	NA	NA	0.12	0.24	0.02	0.38	0.37	NA	NA	NA	NA	NA	NA	NA							
SR5	9/3/2017	Mid-Flood	Cloudy	Moderate	12:58	11	B	10	2	8	NA	NA	NA	NA	0.11	0.23	0.02	0.36	0.37	NA	NA	NA	NA	NA	NA	NA							
SR5	9/3/2017	Mid-Flood	Cloudy	Moderate	12:58	11	B	10	3		NA	NA	NA	NA	0.12	0.23	0.02	0.37	0.37	NA	NA	NA	NA	NA	NA	NA							
SR12	9/3/2017	Mid-Flood	Cloudy	Moderate	14:31	15	S	1	1	5	0.15	0.15	0.010	0.010	NA	NA	NA	NA	NA	310	339	NA	NA	NA	<1	1							
SR12	9/3/2017	Mid-Flood	Cloudy	Moderate	14:31	15	S	1	2	7	0.15	0.15	0.010	0.010	NA	NA	NA	NA	NA	370	339	NA	NA	NA	<1	1							
SR12	9/3/2017	Mid-Flood	Cloudy	Moderate	14:31	15	S	1	3		0.15	0.15	0.010	0.010	NA	NA	NA	NA	NA	270	303	347	NA	NA	NA	<1	1						
SR12	9/3/2017	Mid-Flood	Cloudy	Moderate	14:31	15	M	7.5	1	6	0.14	0.15	0.009	0.010	NA	NA	NA	NA	NA	340	303	347	NA	NA	NA	<1	1						
SR12	9/3/2017	Mid-Flood	Cloudy	Moderate	14:31	15	M	7.5	2	8	0.14	0.15	0.009	0.010	NA	NA	NA	NA	NA	370	303	347	NA	NA	NA	<1	1						
SR12	9/3/2017	Mid-Flood	Cloudy	Moderate	14:31	15	M	7.5	3		0.14	0.14	0.010	0.010	NA	NA	NA	NA	NA	450	408	NA	NA	NA	NA	<1	1						
SR12	9/3/2017	Mid-Flood	Cloudy	Moderate	14:31	15	B	14	1	8	0.14	0.14	0.010	0.010	NA	NA	NA	NA	NA	370	408	NA	NA	NA	NA	<1	1						
SR12	9/3/2017	Mid-Flood	Cloudy	Moderate	14:31	15	B	14	2	10	0.14	0.14	0.010	0.010	NA	NA	NA	NA	NA	450	408	NA	NA	NA	NA	<1	1						
SR12	9/3/2017	Mid-Flood	Cloudy	Moderate	14:31	15	B	14	3		0.14	0.14	0.010	0.010	NA	NA	NA	NA	NA	450	408	NA	NA	NA	NA	<1	1						
SR13	9/3/2017	Mid-Flood	Cloudy	Moderate	14:43	14	S	1	1	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
SR13	9/3/2017	Mid-Flood	Cloudy	Moderate	14:43	14	S	1	2	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
SR13	9/3/2017	Mid-Flood	Cloudy	Moderate	14:43	14	S	1	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
SR13	9/3/2017	Mid-Flood	Cloudy	Moderate	14:43	14	M	7	1	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
SR13	9/3/2017	Mid-Flood	Cloudy	Moderate	14:43	14	M	7	2	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
SR13	9/3/2017	Mid-Flood	Cloudy	Moderate	14:43	14	M	7	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
SR13	9/3/2017	Mid-Flood	Cloudy	Moderate	14:43	14	B	13	1	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
SR13	9/3/2017	Mid-Flood	Cloudy	Moderate	14:43	14	B	13	2	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
SR13	9/3/2017	Mid-Flood	Cloudy	Moderate	14:43	14	B	13	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
2. ND: Not Detected  
3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.



Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																								
										pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)			Ammonia (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)		
										Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	S & M Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.
SR5	9/3/2017	Mid-Ebb	Cloudy	Moderate	11:47	11	S	1	1	8.44	8.45	29.40	29.39	18.52	18.52	88.7	88.6	7.52	7.52	7.55	1.2	1.3	1.3	NA	NA	NA	NA	NA	0.12	0.23	0.02	0.37	0.37	0.37
SR5	9/3/2017	Mid-Ebb	Cloudy	Moderate	11:47	11	S	1	2	8.45		29.38		18.52		88.5		7.52			1.4			NA					0.12	0.23	0.02	0.37		
SR5	9/3/2017	Mid-Ebb	Cloudy	Moderate	11:47	11	S	1	3																				0.12	0.24	0.01	0.37		
SR5	9/3/2017	Mid-Ebb	Cloudy	Moderate	11:47	11	M	5.5	1	8.46	8.46	29.47	29.49	18.50	18.50	89.0	89.1	7.58	7.58	7.55	1.5	1.5	1.3	NA	NA	NA	NA	NA	0.12	0.23	0.02	0.37	0.37	0.37
SR5	9/3/2017	Mid-Ebb	Cloudy	Moderate	11:47	11	M	5.5	2	8.46		29.51		18.50		89.1		7.58			1.4			NA					0.12	0.23	0.02	0.37		
SR5	9/3/2017	Mid-Ebb	Cloudy	Moderate	11:47	11	M	5.5	3																				0.12	0.23	0.01	0.36		
SR5	9/3/2017	Mid-Ebb	Cloudy	Moderate	11:47	11	B	10	1	8.46	8.46	29.55	29.55	18.50	18.50	88.8	88.8	7.60	7.60	7.55	1.1	1.1	1.3	NA	NA	NA	NA	NA	0.12	0.24	0.02	0.38	0.38	0.38
SR5	9/3/2017	Mid-Ebb	Cloudy	Moderate	11:47	11	B	10	2	8.46		29.55		18.50		88.7		7.59			1.0			NA					0.12	0.24	0.02	0.38		
SR5	9/3/2017	Mid-Ebb	Cloudy	Moderate	11:47	11	B	10	3																				0.12	0.24	0.02	0.38		
SR12	9/3/2017	Mid-Ebb	Cloudy	Moderate	10:01	15	S	1	1	8.35	8.35	29.88	29.88	18.27	18.27	89.2	89.2	6.97	6.97	6.99	1.2	1.2	1.2	0.17	0.17	0.17	0.010	0.010	NA	NA	NA	NA	NA	NA
SR12	9/3/2017	Mid-Ebb	Cloudy	Moderate	10:01	15	S	1	2	8.35		29.88		18.27		89.2		6.97			1.2			0.17			0.010		NA	NA	NA	NA		
SR12	9/3/2017	Mid-Ebb	Cloudy	Moderate	10:01	15	S	1	3																									
SR12	9/3/2017	Mid-Ebb	Cloudy	Moderate	10:01	15	M	7.5	1	8.34	8.34	29.85	29.85	18.31	18.31	89.5	89.5	7.01	7.01	6.99	1.4	1.4	1.2	0.17	0.17	0.17	0.010	0.010	NA	NA	NA	NA	NA	NA
SR12	9/3/2017	Mid-Ebb	Cloudy	Moderate	10:01	15	M	7.5	2	8.34		29.85		18.31		89.5		7.01			1.4			0.17			0.010		NA	NA	NA	NA		
SR12	9/3/2017	Mid-Ebb	Cloudy	Moderate	10:01	15	M	7.5	3																									
SR12	9/3/2017	Mid-Ebb	Cloudy	Moderate	10:01	15	B	14	1	8.32	8.32	29.85	29.86	18.33	18.33	89.5	89.6	7.05	7.05	6.99	1.1	1.1	1.2	0.16	0.16	0.16	0.009	0.009	NA	NA	NA	NA	NA	NA
SR12	9/3/2017	Mid-Ebb	Cloudy	Moderate	10:01	15	B	14	2	8.32		29.86		18.33		89.7		7.05			1.0			0.16			0.009		NA	NA	NA	NA		
SR12	9/3/2017	Mid-Ebb	Cloudy	Moderate	10:01	15	B	14	3																									
SR13	9/3/2017	Mid-Ebb	Cloudy	Moderate	9:48	14	S	1	1	8.29	8.29	30.07	30.07	18.25	18.25	88.2	88.3	6.85	6.85	6.88	1.2	1.2	1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	9/3/2017	Mid-Ebb	Cloudy	Moderate	9:48	14	S	1	2	8.29		30.07		18.25		88.3		6.85			1.1			NA			NA		NA	NA				
SR13	9/3/2017	Mid-Ebb	Cloudy	Moderate	9:48	14	S	1	3																									
SR13	9/3/2017	Mid-Ebb	Cloudy	Moderate	9:48	14	M	7	1	8.28	8.28	30.05	30.05	18.32	18.32	89.1	89.1	6.91	6.91	6.88	0.9	1.0	1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	9/3/2017	Mid-Ebb	Cloudy	Moderate	9:48	14	M	7	2	8.28		30.05		18.32		89.1		6.91			1.0			NA			NA		NA	NA				
SR13	9/3/2017	Mid-Ebb	Cloudy	Moderate	9:48	14	M	7	3																									
SR13	9/3/2017	Mid-Ebb	Cloudy	Moderate	9:48	14	B	13	1	8.28	8.28	30.10	30.10	18.35	18.35	89.5	89.5	6.95	6.95	6.88	1.0	1.0	1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	9/3/2017	Mid-Ebb	Cloudy	Moderate	9:48	14	B	13	2	8.28		30.09		18.35		89.4		6.95			1.0			NA			NA		NA	NA				
SR13	9/3/2017	Mid-Ebb	Cloudy	Moderate	9:48	14	B	13	3																									

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.



Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																							
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)		
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.
SR5	9/3/2017	Mid-Ebb	Cloudy	Moderate	11:47	11	S	1	1	2	NA	NA	NA	NA	NA	0.12	0.23	0.02	0.37	0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	9/3/2017	Mid-Ebb	Cloudy	Moderate	11:47	11	S	1	2	4	NA	NA	NA	NA	NA	0.12	0.23	0.02	0.37	0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	9/3/2017	Mid-Ebb	Cloudy	Moderate	11:47	11	S	1	3		NA	NA	NA	NA	NA	0.12	0.24	0.01	0.37		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	9/3/2017	Mid-Ebb	Cloudy	Moderate	11:47	11	M	5.5	1	6	NA	NA	NA	NA	NA	0.12	0.23	0.02	0.37	0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	9/3/2017	Mid-Ebb	Cloudy	Moderate	11:47	11	M	5.5	2	4	NA	NA	NA	NA	NA	0.12	0.23	0.02	0.37	0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	9/3/2017	Mid-Ebb	Cloudy	Moderate	11:47	11	M	5.5	3		NA	NA	NA	NA	NA	0.13	0.23	0.01	0.37		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	9/3/2017	Mid-Ebb	Cloudy	Moderate	11:47	11	B	10	1	7	NA	NA	NA	NA	NA	0.12	0.24	0.02	0.38	0.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	9/3/2017	Mid-Ebb	Cloudy	Moderate	11:47	11	B	10	2	8	NA	NA	NA	NA	NA	0.12	0.24	0.02	0.38	0.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	9/3/2017	Mid-Ebb	Cloudy	Moderate	11:47	11	B	10	3		NA	NA	NA	NA	NA	0.12	0.23	0.02	0.37		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR12	9/3/2017	Mid-Ebb	Cloudy	Moderate	10:01	15	S	1	1	10	0.16	0.17	0.010	0.010	0.010	NA	NA	NA	NA	NA	NA	820	779	610	NA	NA	NA	1	1	1			
SR12	9/3/2017	Mid-Ebb	Cloudy	Moderate	10:01	15	S	1	2	12	0.18	0.17	0.011	0.010	0.010	NA	NA	NA	NA	NA	NA	740	779	610	NA	NA	NA	1	1	1			
SR12	9/3/2017	Mid-Ebb	Cloudy	Moderate	10:01	15	S	1	3		0.17	0.17	0.010	0.010	0.010	NA	NA	NA	NA	NA	NA	520	489	610	NA	NA	NA	<1	<1	1			
SR12	9/3/2017	Mid-Ebb	Cloudy	Moderate	10:01	15	M	7.5	1	12	0.16	0.17	0.009	0.010	0.010	NA	NA	NA	NA	NA	NA	460	489	610	NA	NA	NA	<1	<1	1			
SR12	9/3/2017	Mid-Ebb	Cloudy	Moderate	10:01	15	M	7.5	2	10	0.16	0.16	0.009	0.010	0.010	NA	NA	NA	NA	NA	NA	620	594	610	NA	NA	NA	<1	<1	1			
SR12	9/3/2017	Mid-Ebb	Cloudy	Moderate	10:01	15	B	14	1	16	0.16	0.16	0.009	0.009	0.009	NA	NA	NA	NA	NA	NA	570	594	610	NA	NA	NA	<1	<1	1			
SR12	9/3/2017	Mid-Ebb	Cloudy	Moderate	10:01	15	B	14	2	14	0.16	0.16	0.009	0.009	0.009	NA	NA	NA	NA	NA	NA	570	594	610	NA	NA	NA	<1	<1	1			
SR12	9/3/2017	Mid-Ebb	Cloudy	Moderate	10:01	15	B	14	3		0.16	0.16	0.009	0.009	0.009	NA	NA	NA	NA	NA	NA	570	594	610	NA	NA	NA	<1	<1	1			
SR13	9/3/2017	Mid-Ebb	Cloudy	Moderate	9:48	14	S	1	1	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	9/3/2017	Mid-Ebb	Cloudy	Moderate	9:48	14	S	1	2	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	9/3/2017	Mid-Ebb	Cloudy	Moderate	9:48	14	S	1	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	9/3/2017	Mid-Ebb	Cloudy	Moderate	9:48	14	M	7	1	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	9/3/2017	Mid-Ebb	Cloudy	Moderate	9:48	14	M	7	2	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	9/3/2017	Mid-Ebb	Cloudy	Moderate	9:48	14	M	7	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	9/3/2017	Mid-Ebb	Cloudy	Moderate	9:48	14	B	13	1	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	9/3/2017	Mid-Ebb	Cloudy	Moderate	9:48	14	B	13	2	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	9/3/2017	Mid-Ebb	Cloudy	Moderate	9:48	14	B	13	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.





Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																															
										pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)			Ammonia (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)									
										Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	S & M Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.			
SR5	11/3/2017	Mid-Flood	Cloudy	Smooth	9:13	11	S	1	1	8.53		29.79		18.67		88.0		6.89																							
SR5	11/3/2017	Mid-Flood	Cloudy	Smooth	9:13	11	S	1	2	8.53		29.79		18.66		87.9		6.87		6.88																					
SR5	11/3/2017	Mid-Flood	Cloudy	Smooth	9:13	11	S	1	3																																
SR5	11/3/2017	Mid-Flood	Cloudy	Smooth	9:13	11	M	6	1	8.54		29.80		18.63		87.4		6.84																							
SR5	11/3/2017	Mid-Flood	Cloudy	Smooth	9:13	11	M	6	2	8.54		29.78		18.63		87.3		6.83		6.84																					
SR5	11/3/2017	Mid-Flood	Cloudy	Smooth	9:13	11	M	6	3																																
SR5	11/3/2017	Mid-Flood	Cloudy	Smooth	9:13	11	B	10	1	8.56		29.82		18.63		87.6		6.85																							
SR5	11/3/2017	Mid-Flood	Cloudy	Smooth	9:13	11	B	10	2	8.56		29.82		18.63		87.5		6.84		6.85																					
SR5	11/3/2017	Mid-Flood	Cloudy	Smooth	9:13	11	B	10	3																																
SR5	11/3/2017	Mid-Flood	Cloudy	Smooth	9:13	11	M	6	3																																
SR12	11/3/2017	Mid-Flood	Cloudy	Smooth	7:42	15	S	1	1	8.47		30.21		18.39		85.6		6.67																							
SR12	11/3/2017	Mid-Flood	Cloudy	Smooth	7:42	15	S	1	2	8.47		30.21		18.39		85.7		6.66		6.67																					
SR12	11/3/2017	Mid-Flood	Cloudy	Smooth	7:42	15	S	1	3																																
SR12	11/3/2017	Mid-Flood	Cloudy	Smooth	7:42	15	M	6	1	8.43		30.14		18.43		84.7		6.63																							
SR12	11/3/2017	Mid-Flood	Cloudy	Smooth	7:42	15	M	6	2	8.43		30.14		18.42		84.6		6.62		6.63																					
SR12	11/3/2017	Mid-Flood	Cloudy	Smooth	7:42	15	M	6	3																																
SR12	11/3/2017	Mid-Flood	Cloudy	Smooth	7:42	15	B	14	1	8.43		30.14		18.41		84.4		6.63																							
SR12	11/3/2017	Mid-Flood	Cloudy	Smooth	7:42	15	B	14	2	8.43		30.14		18.41		84.3		6.64		6.64																					
SR12	11/3/2017	Mid-Flood	Cloudy	Smooth	7:42	15	B	14	3																																
SR13	11/3/2017	Mid-Flood	Cloudy	Smooth	7:21	14	S	1	1	8.50		30.33		18.34		86.6		6.78																							
SR13	11/3/2017	Mid-Flood	Cloudy	Smooth	7:21	14	S	1	2	8.50		30.33		18.34		86.5		6.79		6.79																					
SR13	11/3/2017	Mid-Flood	Cloudy	Smooth	7:21	14	S	1	3																																
SR13	11/3/2017	Mid-Flood	Cloudy	Smooth	7:21	14	M	6	1	8.49		30.33		18.33		84.9		6.66																							
SR13	11/3/2017	Mid-Flood	Cloudy	Smooth	7:21	14	M	6	2	8.49		30.33		18.33		84.8		6.66		6.66																					
SR13	11/3/2017	Mid-Flood	Cloudy	Smooth	7:21	14	M	6	3																																
SR13	11/3/2017	Mid-Flood	Cloudy	Smooth	7:21	14	B	13	1	8.43		30.24		18.36		84.7		6.64																							
SR13	11/3/2017	Mid-Flood	Cloudy	Smooth	7:21	14	B	13	2	8.43		30.24		18.36		84.8		6.65		6.65																					
SR13	11/3/2017	Mid-Flood	Cloudy	Smooth	7:21	14	B	13	3																																

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in 1 in calculating the geometric mean.



Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																							
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)		
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.
SR5	11/3/2017	Mid-Flood	Cloudy	Smooth	9:13	11	S	1	1	8	NA	NA	NA	NA	NA	NA	0.13	0.23	<0.01	0.37	0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	11/3/2017	Mid-Flood	Cloudy	Smooth	9:13	11	S	1	2	8	NA	NA	NA	NA	NA	NA	0.14	0.22	0.01	0.37	0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	11/3/2017	Mid-Flood	Cloudy	Smooth	9:13	11	S	1	3	8	NA	NA	NA	NA	NA	NA	0.14	0.22	0.01	0.37	0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	11/3/2017	Mid-Flood	Cloudy	Smooth	9:13	11	M	6	1	8	NA	NA	NA	NA	NA	NA	0.14	0.21	0.01	0.36	0.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	11/3/2017	Mid-Flood	Cloudy	Smooth	9:13	11	M	6	2	8	NA	NA	NA	NA	NA	NA	0.13	0.19	0.02	0.34	0.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	11/3/2017	Mid-Flood	Cloudy	Smooth	9:13	11	M	6	3	8	NA	NA	NA	NA	NA	NA	0.14	0.21	0.01	0.36	0.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	11/3/2017	Mid-Flood	Cloudy	Smooth	9:13	11	B	10	1	7	NA	NA	NA	NA	NA	NA	0.13	0.21	<0.01	0.35	0.33	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	11/3/2017	Mid-Flood	Cloudy	Smooth	9:13	11	B	10	2	8	NA	NA	NA	NA	NA	NA	0.13	0.20	0.01	0.34	0.33	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	11/3/2017	Mid-Flood	Cloudy	Smooth	9:13	11	B	10	3	8	NA	NA	NA	NA	NA	NA	0.10	0.20	0.01	0.31	0.33	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR12	11/3/2017	Mid-Flood	Cloudy	Smooth	7:42	15	S	1	1	8	0.18	0.18	0.18	0.014	0.014	0.014	NA	NA	NA	NA	NA	510	420	463	NA	NA	NA	<1	<1	1	NA	NA	NA
SR12	11/3/2017	Mid-Flood	Cloudy	Smooth	7:42	15	S	1	2	8	0.18	0.18	0.18	0.014	0.014	0.014	NA	NA	NA	NA	NA	420	463	396	NA	NA	NA	<1	<1	1	1	1	1
SR12	11/3/2017	Mid-Flood	Cloudy	Smooth	7:42	15	S	1	3	8	0.30	0.31	0.31	0.021	0.022	0.017	NA	NA	NA	NA	NA	680	540	606	NA	NA	NA	<1	<1	1	1	1	1
SR12	11/3/2017	Mid-Flood	Cloudy	Smooth	7:42	15	M	6	1	10	0.30	0.31	0.31	0.021	0.022	0.017	NA	NA	NA	NA	NA	680	540	606	NA	NA	NA	<1	<1	1	1	1	1
SR12	11/3/2017	Mid-Flood	Cloudy	Smooth	7:42	15	M	6	2	11	0.30	0.31	0.31	0.021	0.022	0.017	NA	NA	NA	NA	NA	680	540	606	NA	NA	NA	<1	<1	1	1	1	1
SR12	11/3/2017	Mid-Flood	Cloudy	Smooth	7:42	15	M	6	3	11	0.30	0.31	0.31	0.021	0.022	0.017	NA	NA	NA	NA	NA	680	540	606	NA	NA	NA	<1	<1	1	1	1	1
SR12	11/3/2017	Mid-Flood	Cloudy	Smooth	7:42	15	B	14	1	12	0.24	0.22	0.23	0.017	0.016	0.016	NA	NA	NA	NA	NA	260	190	222	NA	NA	NA	<1	<1	1	NA	NA	NA
SR12	11/3/2017	Mid-Flood	Cloudy	Smooth	7:42	15	B	14	2	10	0.24	0.22	0.23	0.017	0.016	0.016	NA	NA	NA	NA	NA	260	190	222	NA	NA	NA	<1	<1	1	NA	NA	NA
SR12	11/3/2017	Mid-Flood	Cloudy	Smooth	7:42	15	B	14	3	11	0.24	0.22	0.23	0.017	0.016	0.016	NA	NA	NA	NA	NA	260	190	222	NA	NA	NA	<1	<1	1	NA	NA	NA
SR13	11/3/2017	Mid-Flood	Cloudy	Smooth	7:21	14	S	1	1	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	11/3/2017	Mid-Flood	Cloudy	Smooth	7:21	14	S	1	2	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	11/3/2017	Mid-Flood	Cloudy	Smooth	7:21	14	S	1	3	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	11/3/2017	Mid-Flood	Cloudy	Smooth	7:21	14	M	6	1	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	11/3/2017	Mid-Flood	Cloudy	Smooth	7:21	14	M	6	2	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	11/3/2017	Mid-Flood	Cloudy	Smooth	7:21	14	M	6	3	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	11/3/2017	Mid-Flood	Cloudy	Smooth	7:21	14	B	13	1	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	11/3/2017	Mid-Flood	Cloudy	Smooth	7:21	14	B	13	2	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	11/3/2017	Mid-Flood	Cloudy	Smooth	7:21	14	B	13	3	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																												
										pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)			Turbidity (NTU)			Ammonia (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)					
										Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	S & M Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.
SR5	11/3/2017	Mid-Ebb	Cloudy	Smooth	10:13	11	S	1	1	8.53		29.79	29.79	18.67	18.67	87.9	87.9	6.87	6.86	6.87		1.0	1.1	1.1		NA	NA	NA	0.13	0.22	0.01	0.36						
SR5	11/3/2017	Mid-Ebb	Cloudy	Smooth	10:13	11	S	1	2	8.53																												
SR5	11/3/2017	Mid-Ebb	Cloudy	Smooth	10:13	11	S	1	3																													
SR5	11/3/2017	Mid-Ebb	Cloudy	Smooth	10:13	11	M	6	1	8.53		29.79	29.79	18.62	18.62	87.3	87.3	6.83	6.83	6.83		1.2	1.2	1.2		NA	NA	NA	0.13	0.21	0.01	0.35						
SR5	11/3/2017	Mid-Ebb	Cloudy	Smooth	10:13	11	M	6	2	8.53	8.53	29.79	29.79	18.62	18.62	87.2	87.3	6.82	6.83	6.83		1.1	1.1	1.2	1.1	NA	NA	NA	0.13	0.20	0.01	0.34	0.35	0.35				
SR5	11/3/2017	Mid-Ebb	Cloudy	Smooth	10:13	11	M	6	3																													
SR5	11/3/2017	Mid-Ebb	Cloudy	Smooth	10:13	11	B	10	1	8.55		29.83	29.83	18.62	18.62	87.5	87.5	6.87	6.85	6.85		1.0	1.0	1.0		NA	NA	NA	0.13	0.20	0.01	0.34						
SR5	11/3/2017	Mid-Ebb	Cloudy	Smooth	10:13	11	B	10	2	8.55	8.55	29.83	29.83	18.62	18.62	87.4	87.5	6.83	6.85	6.85		0.9	1.0	1.0		NA	NA	NA	0.13	0.20	0.01	0.34	0.34	0.34				
SR5	11/3/2017	Mid-Ebb	Cloudy	Smooth	10:13	11	B	10	3																													
SR12	11/3/2017	Mid-Ebb	Cloudy	Smooth	11:55	15	S	1	1	8.46		30.22	30.22	18.40	18.40	85.5	85.5	6.65	6.66	6.66		2.2	2.3	2.3		0.21	0.21	0.016	0.016	0.016	0.016	0.016	0.016	NA				
SR12	11/3/2017	Mid-Ebb	Cloudy	Smooth	11:55	15	S	1	2	8.46																												
SR12	11/3/2017	Mid-Ebb	Cloudy	Smooth	11:55	15	S	1	3																													
SR12	11/3/2017	Mid-Ebb	Cloudy	Smooth	11:55	15	M	7.5	1	8.42		30.13	30.13	18.41	18.41	84.6	84.6	6.63	6.63	6.63		3.4	3.5	3.5		0.29	0.29	0.020	0.020	0.020	0.020	0.020	0.020	0.018	NA			
SR12	11/3/2017	Mid-Ebb	Cloudy	Smooth	11:55	15	M	7.5	2	8.42	8.42	30.13	30.13	18.41	18.41	84.7	84.7	6.62	6.63	6.63		3.5	3.5	3.5	3.8	0.29	0.29	0.020	0.020	0.020	0.020	0.020	0.018	NA	NA			
SR12	11/3/2017	Mid-Ebb	Cloudy	Smooth	11:55	15	M	7.5	3																													
SR12	11/3/2017	Mid-Ebb	Cloudy	Smooth	11:55	15	B	14	1	8.42		30.13	30.13	18.41	18.41	84.2	84.2	6.63	6.64	6.64		5.7	5.8	5.8		0.24	0.24	0.017	0.017	0.017	0.017	0.017	0.017	0.017	NA			
SR12	11/3/2017	Mid-Ebb	Cloudy	Smooth	11:55	15	B	14	2	8.42	8.42	30.13	30.13	18.41	18.41	84.1	84.1	6.64	6.64	6.64		5.8	5.8	5.8		0.24	0.24	0.017	0.017	0.017	0.017	0.017	0.017	0.017	NA			
SR12	11/3/2017	Mid-Ebb	Cloudy	Smooth	11:55	15	B	14	3																													
SR13	11/3/2017	Mid-Ebb	Cloudy	Smooth	12:16	14	S	1	1	8.49		30.32	30.32	18.33	18.33	85.9	85.9	6.73	6.74	6.74		3.7	3.8	3.8		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	11/3/2017	Mid-Ebb	Cloudy	Smooth	12:16	14	S	1	2	8.49		30.32	30.32	18.33	18.33	86.0	86.0	6.74	6.74	6.74		3.8	3.8	3.8		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	11/3/2017	Mid-Ebb	Cloudy	Smooth	12:16	14	S	1	3																													
SR13	11/3/2017	Mid-Ebb	Cloudy	Smooth	12:16	14	M	7	1	8.49		30.32	30.32	18.33	18.33	85.0	85.0	6.67	6.67	6.67		3.8	3.9	3.9		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	11/3/2017	Mid-Ebb	Cloudy	Smooth	12:16	14	M	7	2	8.49	8.49	30.32	30.32	18.37	18.35	84.9	85.0	6.66	6.67	6.67		3.9	3.9	3.9		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	11/3/2017	Mid-Ebb	Cloudy	Smooth	12:16	14	M	7	3																													
SR13	11/3/2017	Mid-Ebb	Cloudy	Smooth	12:16	14	B	13	1	8.44		30.25	30.25	18.35	18.35	85.0	85.0	6.68	6.68	6.68		5.7	5.7	5.7		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	11/3/2017	Mid-Ebb	Cloudy	Smooth	12:16	14	B	13	2	8.44	8.44	30.25	30.25	18.35	18.35	85.1	85.1	6.68	6.68	6.68		5.6	5.6	5.6		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	11/3/2017	Mid-Ebb	Cloudy	Smooth	12:16	14	B	13	3																													

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Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																							
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)		
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.
SR5	11/3/2017	Mid-Ebb	Cloudy	Smooth	10:13	11	S	1	1	4	NA	NA	NA	NA	NA	NA	0.12	0.22	<0.01	0.35	0.35	NA	NA	NA	NA	NA	NA	NA	NA				
SR5	11/3/2017	Mid-Ebb	Cloudy	Smooth	10:13	11	S	1	2	5	NA	NA	NA	NA	NA	NA	0.13	0.20	0.02	0.35	0.35	NA	NA	NA	NA	NA	NA	NA	NA				
SR5	11/3/2017	Mid-Ebb	Cloudy	Smooth	10:13	11	S	1	3		NA	NA	NA	NA	NA	NA	0.14	0.21	0.01	0.36	0.35	NA	NA	NA	NA	NA	NA	NA	NA				
SR5	11/3/2017	Mid-Ebb	Cloudy	Smooth	10:13	11	M	6	1	6	NA	NA	NA	NA	NA	NA	0.13	0.21	0.01	0.35	0.35	NA	NA	NA	NA	NA	NA	NA	NA				
SR5	11/3/2017	Mid-Ebb	Cloudy	Smooth	10:13	11	M	6	2	5	NA	NA	NA	NA	NA	NA	0.13	0.20	0.01	0.34	0.35	NA	NA	NA	NA	NA	NA	NA	NA				
SR5	11/3/2017	Mid-Ebb	Cloudy	Smooth	10:13	11	M	6	3		NA	NA	NA	NA	NA	NA	0.13	0.20	0.02	0.35	0.35	NA	NA	NA	NA	NA	NA	NA	NA				
SR5	11/3/2017	Mid-Ebb	Cloudy	Smooth	10:13	11	B	10	1	9	NA	NA	NA	NA	NA	NA	0.13	0.20	0.01	0.34	0.34	NA	NA	NA	NA	NA	NA	NA	NA				
SR5	11/3/2017	Mid-Ebb	Cloudy	Smooth	10:13	11	B	10	2	8	NA	NA	NA	NA	NA	NA	0.14	0.20	0.01	0.35	0.34	NA	NA	NA	NA	NA	NA	NA	NA				
SR5	11/3/2017	Mid-Ebb	Cloudy	Smooth	10:13	11	B	10	3		NA	NA	NA	NA	NA	NA	0.13	0.20	0.01	0.34	0.34	NA	NA	NA	NA	NA	NA	NA	NA				
SR12	11/3/2017	Mid-Ebb	Cloudy	Smooth	11:55	15	S	1	1	6	0.21	0.21	0.21	0.016	0.016	0.016	NA	NA	NA	NA	NA	580	628	NA	NA	NA	<1	<1	1				
SR12	11/3/2017	Mid-Ebb	Cloudy	Smooth	11:55	15	S	1	2	5	0.21	0.21	0.21	0.016	0.016	0.016	NA	NA	NA	NA	NA	680	628	NA	NA	NA	<1	<1	1				
SR12	11/3/2017	Mid-Ebb	Cloudy	Smooth	11:55	15	S	1	3		0.29	0.29	0.29	0.020	0.020	0.020	NA	NA	NA	NA	NA	720	622	NA	NA	NA	<1	<1	1				
SR12	11/3/2017	Mid-Ebb	Cloudy	Smooth	11:55	15	M	7.5	1	7	0.28	0.28	0.28	0.019	0.020	0.017	NA	NA	NA	NA	NA	840	778	NA	NA	NA	<1	<1	1				
SR12	11/3/2017	Mid-Ebb	Cloudy	Smooth	11:55	15	M	7.5	2	9	0.23	0.23	0.23	0.016	0.016	0.016	NA	NA	NA	NA	NA	720	622	NA	NA	NA	<1	<1	1				
SR12	11/3/2017	Mid-Ebb	Cloudy	Smooth	11:55	15	M	7.5	3		0.24	0.24	0.24	0.017	0.016	0.017	NA	NA	NA	NA	NA	840	622	NA	NA	NA	<1	<1	1				
SR12	11/3/2017	Mid-Ebb	Cloudy	Smooth	11:55	15	B	14	1	12	0.23	0.23	0.23	0.016	0.016	0.016	NA	NA	NA	NA	NA	540	622	NA	NA	NA	<1	<1	1				
SR12	11/3/2017	Mid-Ebb	Cloudy	Smooth	11:55	15	B	14	2	11	0.24	0.24	0.24	0.017	0.016	0.017	NA	NA	NA	NA	NA	450	493	NA	NA	NA	<1	<1	1				
SR12	11/3/2017	Mid-Ebb	Cloudy	Smooth	11:55	15	B	14	3		0.24	0.24	0.24	0.017	0.016	0.017	NA	NA	NA	NA	NA	450	493	NA	NA	NA	<1	<1	1				
SR13	11/3/2017	Mid-Ebb	Cloudy	Smooth	12:16	14	S	1	1	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
SR13	11/3/2017	Mid-Ebb	Cloudy	Smooth	12:16	14	S	1	2	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
SR13	11/3/2017	Mid-Ebb	Cloudy	Smooth	12:16	14	S	1	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
SR13	11/3/2017	Mid-Ebb	Cloudy	Smooth	12:16	14	M	7	1	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
SR13	11/3/2017	Mid-Ebb	Cloudy	Smooth	12:16	14	M	7	2	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
SR13	11/3/2017	Mid-Ebb	Cloudy	Smooth	12:16	14	M	7	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
SR13	11/3/2017	Mid-Ebb	Cloudy	Smooth	12:16	14	B	13	1	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
SR13	11/3/2017	Mid-Ebb	Cloudy	Smooth	12:16	14	B	13	2	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
SR13	11/3/2017	Mid-Ebb	Cloudy	Smooth	12:16	14	B	13	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				

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 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.





Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																									
										pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Ammonia (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)				
										Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	S & M Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.
SR5	14/3/2017	Mid-Flood	Cloudy	Rough	9:44	11	S	1	1	8.51	8.51	29.11	29.11	19.09	19.09	87.9	87.9	6.84	6.84	6.82	5.8	5.8	4.0	NA	NA	NA	NA	NA	NA	0.16	0.27	0.02	0.45	0.45	0.45
SR5	14/3/2017	Mid-Flood	Cloudy	Rough	9:44	11	S	1	2	8.51		29.11	29.11	19.09	19.09	87.9	87.9	6.84	6.84		5.8	5.8		NA	NA		NA	NA		NA	0.16	0.27	0.02		
SR5	14/3/2017	Mid-Flood	Cloudy	Rough	9:44	11	S	1	3		8.51									6.82			4.0			NA			NA					0.45	0.45
SR5	14/3/2017	Mid-Flood	Cloudy	Rough	9:44	11	M	5.5	1	8.51		29.15	29.15	19.04	19.04	87.1	87.1	6.79	6.79		3.0	3.0		NA	NA		NA	NA		NA	0.16	0.27	0.02		
SR5	14/3/2017	Mid-Flood	Cloudy	Rough	9:44	11	M	5.5	2	8.51	8.51	29.15	29.15	19.04	19.04	87.1	87.1	6.79	6.79	6.82	3.0	3.0	4.0	NA	NA	NA	NA	NA	NA	0.16	0.27	0.02	0.45	0.45	0.45
SR5	14/3/2017	Mid-Flood	Cloudy	Rough	9:44	11	M	5.5	3																										
SR5	14/3/2017	Mid-Flood	Cloudy	Rough	9:44	11	B	10	1	8.51	8.51	29.14	29.14	19.04	19.04	86.8	86.8	6.77	6.77	6.66	3.3	3.3	3.2	NA	NA	0.18	NA	NA	0.016	0.16	0.27	0.02	0.44	0.44	0.44
SR5	14/3/2017	Mid-Flood	Cloudy	Rough	9:44	11	B	10	2	8.51		29.14	29.14	19.04	19.04	86.8	86.8	6.77	6.77		3.3	3.3		NA	NA		NA	NA		NA	0.16	0.26	0.02		
SR5	14/3/2017	Mid-Flood	Cloudy	Rough	9:44	11	B	10	3		8.44									6.66			3.2			0.18			0.015					NA	NA
SR5	14/3/2017	Mid-Flood	Cloudy	Rough	9:44	11	B	10	3																										
SR12	14/3/2017	Mid-Flood	Cloudy	Rough	8:20	15	S	1	1	8.51	8.51	29.98	29.98	18.75	18.75	86.8	86.8	6.69	6.69	6.66	0.9	0.9	0.4	0.18	0.18	0.18	0.016	0.016	0.015	NA	NA	NA	NA	NA	NA
SR12	14/3/2017	Mid-Flood	Cloudy	Rough	8:20	15	S	1	2	8.51		29.98	29.98	18.75	18.75	86.8	86.8	6.69	6.69		0.9	0.9		0.18	0.18		0.18	0.016		0.016	0.015	NA	NA		
SR12	14/3/2017	Mid-Flood	Cloudy	Rough	8:20	15	S	1	3		8.50									6.66			0.4			0.18			0.015					NA	NA
SR12	14/3/2017	Mid-Flood	Cloudy	Rough	8:20	15	M	7.5	1	8.50		29.90	29.90	18.78	18.78	84.9	84.9	6.62	6.62		3.0	3.0		0.18	0.18		0.18	0.015		0.015	0.015	NA	NA		
SR12	14/3/2017	Mid-Flood	Cloudy	Rough	8:20	15	M	7.5	2	8.50	8.44									6.66			0.4			0.18			0.013					NA	NA
SR12	14/3/2017	Mid-Flood	Cloudy	Rough	8:20	15	M	7.5	3																										
SR12	14/3/2017	Mid-Flood	Cloudy	Rough	8:20	15	B	14	1	8.44	8.44	29.84	29.84	18.80	18.80	83.8	83.8	6.53	6.53	6.57	5.6	5.6	0.4	0.18	0.18	0.18	0.013	0.013	0.013	NA	NA	NA	NA	NA	NA
SR12	14/3/2017	Mid-Flood	Cloudy	Rough	8:20	15	B	14	2	8.44		29.84	29.84	18.80	18.80	83.8	83.8	6.53	6.53		5.6	5.6		0.18	0.18		0.18	0.013		0.013	0.013	NA	NA		
SR12	14/3/2017	Mid-Flood	Cloudy	Rough	8:20	15	B	14	3		8.44									6.57			0.4			0.18			0.013					NA	NA
SR12	14/3/2017	Mid-Flood	Cloudy	Rough	8:20	15	B	14	3																										
SR13	14/3/2017	Mid-Flood	Cloudy	Rough	7:58	14	S	1	1	8.44	8.44	29.94	29.94	18.71	18.71	84.3	84.3	6.58	6.58	6.57	0.5	0.5	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	14/3/2017	Mid-Flood	Cloudy	Rough	7:58	14	S	1	2	8.44		29.94	29.94	18.71	18.71	84.3	84.3	6.58	6.58		0.5	0.5		NA	NA		NA	NA		NA	NA	NA	NA		
SR13	14/3/2017	Mid-Flood	Cloudy	Rough	7:58	14	S	1	3		8.41									6.57			0.4			NA			NA					NA	NA
SR13	14/3/2017	Mid-Flood	Cloudy	Rough	7:58	14	M	7	1	8.41		29.96	29.96	18.69	18.69	83.9	83.9	6.56	6.56		0.2	0.2		NA	NA		NA	NA		NA	NA	NA	NA		
SR13	14/3/2017	Mid-Flood	Cloudy	Rough	7:58	14	M	7	2	8.41	8.41	29.96	29.96	18.69	18.69	83.9	83.9	6.56	6.56	6.57	0.2	0.2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	14/3/2017	Mid-Flood	Cloudy	Rough	7:58	14	M	7	3																										
SR13	14/3/2017	Mid-Flood	Cloudy	Rough	7:58	14	B	13	1	8.41	8.41	29.96	29.96	18.70	18.70	83.6	83.6	6.52	6.52	6.53	0.4	0.4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	14/3/2017	Mid-Flood	Cloudy	Rough	7:58	14	B	13	2	8.41		29.96	29.96	18.70	18.70	83.6	83.6	6.53	6.53		0.4	0.4		NA	NA		NA	NA		NA	NA	NA	NA		
SR13	14/3/2017	Mid-Flood	Cloudy	Rough	7:58	14	B	13	2	8.41	8.41	29.96	29.96	18.70	18.70	83.6	83.6	6.53	6.53	6.53	0.4	0.4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	14/3/2017	Mid-Flood	Cloudy	Rough	7:58	14	B	13	3																										

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.



Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																								
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)			
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	
SR5	14/3/2017	Mid-Flood	Cloudy	Rough	9:44	11	S	1	1	8		NA	NA		NA	NA		0.16	0.27	0.02	0.45	0.45	NA	NA		NA	NA		NA	NA		NA	NA	
SR5	14/3/2017	Mid-Flood	Cloudy	Rough	9:44	11	S	1	2	8	8	NA	NA		NA	NA		0.16	0.27	0.02	0.45	0.45	NA	NA		NA	NA		NA	NA		NA	NA	
SR5	14/3/2017	Mid-Flood	Cloudy	Rough	9:44	11	S	1	3			NA	NA		NA	NA		0.16	0.26	0.02	0.44		NA	NA		NA	NA		NA	NA		NA	NA	
SR5	14/3/2017	Mid-Flood	Cloudy	Rough	9:44	11	M	5.5	1	8		NA	NA		NA	NA		0.16	0.27	0.02	0.45	0.45	NA	NA		NA	NA		NA	NA		NA	NA	
SR5	14/3/2017	Mid-Flood	Cloudy	Rough	9:44	11	M	5.5	2	9	9	NA	NA		NA	NA		0.16	0.26	0.02	0.44	0.45	NA	NA		NA	NA		NA	NA		NA	NA	
SR5	14/3/2017	Mid-Flood	Cloudy	Rough	9:44	11	M	5.5	3			NA	NA		NA	NA		0.16	0.27	0.02	0.45		NA	NA		NA	NA		NA	NA		NA	NA	
SR5	14/3/2017	Mid-Flood	Cloudy	Rough	9:44	11	B	10	1	12		NA	NA		NA	NA		0.16	0.26	0.02	0.44	0.45	NA	NA		NA	NA		NA	NA		NA	NA	
SR5	14/3/2017	Mid-Flood	Cloudy	Rough	9:44	11	B	10	2	10	11	NA	NA		NA	NA		0.17	0.26	0.02	0.45	0.45	NA	NA		NA	NA		NA	NA		NA	NA	
SR5	14/3/2017	Mid-Flood	Cloudy	Rough	9:44	11	B	10	3			NA	NA		NA	NA		0.16	0.27	0.02	0.45		NA	NA		NA	NA		NA	NA		NA	NA	
SR12	14/3/2017	Mid-Flood	Cloudy	Rough	8:20	15	S	1	1	6		0.18			0.016	0.016		NA	NA	NA	NA	NA	NA	720		NA	NA		1					
SR12	14/3/2017	Mid-Flood	Cloudy	Rough	8:20	15	S	1	2	8	7	0.18	0.18		0.016	0.016		NA	NA	NA	NA	NA	NA	650	684	NA	NA		<1		1			
SR12	14/3/2017	Mid-Flood	Cloudy	Rough	8:20	15	S	1	3			0.18			0.015	0.015		NA	NA	NA	NA	NA	NA			NA	NA		<1					
SR12	14/3/2017	Mid-Flood	Cloudy	Rough	8:20	15	M	7.5	1	10	10	0.18	0.18	0.18	0.015	0.015	0.015	NA	NA	NA	NA	NA	NA	660	704	623	NA	NA		<1		1	1	
SR12	14/3/2017	Mid-Flood	Cloudy	Rough	8:20	15	M	7.5	2	9		0.18			0.013	0.013		NA	NA	NA	NA	NA	NA	750		NA	NA		<1					
SR12	14/3/2017	Mid-Flood	Cloudy	Rough	8:20	15	M	7.5	3			0.18	0.18		0.013	0.013		NA	NA	NA	NA	NA	NA			NA	NA		<1					
SR12	14/3/2017	Mid-Flood	Cloudy	Rough	8:20	15	B	14	1	9		0.17			0.013	0.013		NA	NA	NA	NA	NA	NA	450		NA	NA		1					
SR12	14/3/2017	Mid-Flood	Cloudy	Rough	8:20	15	B	14	2	10	10	0.17	0.18		0.013	0.013		NA	NA	NA	NA	NA	NA	560	502	NA	NA		1					
SR12	14/3/2017	Mid-Flood	Cloudy	Rough	8:20	15	B	14	3			0.17	0.18		0.013	0.013		NA	NA	NA	NA	NA	NA			NA	NA		1					
SR13	14/3/2017	Mid-Flood	Cloudy	Rough	7:58	14	S	1	1	4		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA		NA	NA		NA	NA		NA	NA	
SR13	14/3/2017	Mid-Flood	Cloudy	Rough	7:58	14	S	1	2	6	5	NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA		NA	NA		NA	NA		NA	NA	
SR13	14/3/2017	Mid-Flood	Cloudy	Rough	7:58	14	S	1	3			NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA		NA	NA		NA	NA		NA	NA	
SR13	14/3/2017	Mid-Flood	Cloudy	Rough	7:58	14	M	7	1	8		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA		NA	NA		NA	NA		NA	NA	
SR13	14/3/2017	Mid-Flood	Cloudy	Rough	7:58	14	M	7	2	8	8	NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA		NA	NA		NA	NA		NA	NA	
SR13	14/3/2017	Mid-Flood	Cloudy	Rough	7:58	14	M	7	3			NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA		NA	NA		NA	NA		NA	NA	
SR13	14/3/2017	Mid-Flood	Cloudy	Rough	7:58	14	B	13	1	28		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA		NA	NA		NA	NA		NA	NA	
SR13	14/3/2017	Mid-Flood	Cloudy	Rough	7:58	14	B	13	2	29	29	NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA		NA	NA		NA	NA		NA	NA	
SR13	14/3/2017	Mid-Flood	Cloudy	Rough	7:58	14	B	13	3			NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA		NA	NA		NA	NA		NA	NA	

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.



Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																												
										pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)			Turbidity (NTU)			Ammonia (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)					
										Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	S & M Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.
SR5	14/3/2017	Mid-Ebb	Cloudy	Rough	11:18	11	S	1	1	8.52		29.02	29.02	19.07	19.07	86.7	86.7	6.67	6.67								NA	NA	NA	NA	0.17	0.26	0.02	0.45				
SR5	14/3/2017	Mid-Ebb	Cloudy	Rough	11:18	11	S	1	2	8.52	8.52	29.02	29.02	19.07	19.07	86.7	86.7	6.67	6.67								NA	NA	NA	NA	0.17	0.26	0.02	0.45	0.45			
SR5	14/3/2017	Mid-Ebb	Cloudy	Rough	11:18	11	S	1	3																		NA	NA	NA	NA	0.17	0.26	0.02	0.45				
SR5	14/3/2017	Mid-Ebb	Cloudy	Rough	11:18	11	M	5.5	1	8.53		29.08	29.08	19.06	19.06	86.7	86.7	6.76	6.76								NA	NA	NA	NA	0.17	0.27	0.02	0.46				
SR5	14/3/2017	Mid-Ebb	Cloudy	Rough	11:18	11	M	5.5	2	8.53	8.53	29.08	29.08	19.06	19.06	86.7	86.7	6.76	6.76								NA	NA	NA	NA	0.17	0.27	0.02	0.46	0.46	0.45		
SR5	14/3/2017	Mid-Ebb	Cloudy	Rough	11:18	11	M	5.5	3																		NA	NA	NA	NA	0.17	0.27	0.02	0.46				
SR5	14/3/2017	Mid-Ebb	Cloudy	Rough	11:18	11	B	10	1	8.52		29.13	29.13	19.05	19.05	86.8	86.8	6.76	6.78								NA	NA	NA	NA	0.16	0.28	0.02	0.46				
SR5	14/3/2017	Mid-Ebb	Cloudy	Rough	11:18	11	B	10	2	8.52	8.52	29.13	29.13	19.05	19.05	86.8	86.8	6.78	6.77								NA	NA	NA	NA	0.16	0.26	0.02	0.44	0.45			
SR5	14/3/2017	Mid-Ebb	Cloudy	Rough	11:18	11	B	10	3																		NA	NA	NA	NA	0.16	0.26	0.02	0.44				
SR12	14/3/2017	Mid-Ebb	Cloudy	Rough	12:48	14	S	1	1	8.52		29.41	29.41	19.08	19.08	86.9	86.9	6.55	6.55								NA	NA	NA	NA	0.17	0.17	0.015	0.015	NA	NA		
SR12	14/3/2017	Mid-Ebb	Cloudy	Rough	12:48	14	S	1	2	8.52	8.52	29.41	29.41	19.08	19.08	86.9	86.9	6.55	6.55								NA	NA	NA	NA	0.17	0.17	0.015	0.015	NA	NA		
SR12	14/3/2017	Mid-Ebb	Cloudy	Rough	12:48	14	S	1	3																		NA	NA	NA	NA	0.17	0.17	0.015	0.015	NA	NA		
SR12	14/3/2017	Mid-Ebb	Cloudy	Rough	12:48	14	M	7	1	8.49		29.45	29.45	19.06	19.06	83.8	83.8	6.54	6.54								NA	NA	NA	NA	0.16	0.16	0.014	0.014	0.015	0.015		
SR12	14/3/2017	Mid-Ebb	Cloudy	Rough	12:48	14	M	7	2	8.49	8.49	29.45	29.45	19.06	19.06	83.8	83.8	6.54	6.54								NA	NA	NA	NA	0.16	0.16	0.014	0.014	0.015	0.015		
SR12	14/3/2017	Mid-Ebb	Cloudy	Rough	12:48	14	M	7	3																		NA	NA	NA	NA	0.16	0.16	0.014	0.014	0.015	0.015		
SR12	14/3/2017	Mid-Ebb	Cloudy	Rough	12:48	14	B	13	1	8.49		29.39	29.39	18.95	18.95	84.2	84.2	6.54	6.54								NA	NA	NA	NA	0.18	0.18	0.015	0.015	NA	NA		
SR12	14/3/2017	Mid-Ebb	Cloudy	Rough	12:48	14	B	13	2	8.49	8.49	29.39	29.39	18.95	18.95	84.2	84.2	6.54	6.54								NA	NA	NA	NA	0.18	0.18	0.015	0.015	NA	NA		
SR12	14/3/2017	Mid-Ebb	Cloudy	Rough	12:48	14	B	13	3																		NA	NA	NA	NA	0.18	0.18	0.015	0.015	NA	NA		
SR13	14/3/2017	Mid-Ebb	Cloudy	Rough	13:05	14	S	1	1	8.50		29.66	29.66	18.96	18.96	84.6	84.6	6.57	6.57								NA	NA	NA	NA	1.0	1.0	1.0	1.0	NA	NA		
SR13	14/3/2017	Mid-Ebb	Cloudy	Rough	13:05	14	S	1	2	8.50	8.50	29.66	29.66	18.96	18.96	84.6	84.6	6.56	6.57								NA	NA	NA	NA	1.0	1.0	1.0	1.0	NA	NA		
SR13	14/3/2017	Mid-Ebb	Cloudy	Rough	13:05	14	S	1	3																		NA	NA	NA	NA	1.0	1.0	1.0	1.0	NA	NA		
SR13	14/3/2017	Mid-Ebb	Cloudy	Rough	13:05	14	M	7	1	8.51		29.67	29.67	18.89	18.89	83.7	83.7	6.50	6.50								NA	NA	NA	NA	2.3	2.3	2.3	2.3	NA	NA		
SR13	14/3/2017	Mid-Ebb	Cloudy	Rough	13:05	14	M	7	2	8.51	8.51	29.67	29.67	18.89	18.89	83.7	83.7	6.50	6.50								NA	NA	NA	NA	2.3	2.3	2.3	2.3	NA	NA		
SR13	14/3/2017	Mid-Ebb	Cloudy	Rough	13:05	14	M	7	3																		NA	NA	NA	NA	2.3	2.3	2.3	2.3	NA	NA		
SR13	14/3/2017	Mid-Ebb	Cloudy	Rough	13:05	14	B	13	1	8.51		29.67	29.67	18.91	18.91	83.2	83.2	6.45	6.45								NA	NA	NA	NA	3.6	3.6	3.6	3.6	NA	NA		
SR13	14/3/2017	Mid-Ebb	Cloudy	Rough	13:05	14	B	13	2	8.51	8.51	29.67	29.67	18.91	18.91	83.2	83.2	6.45	6.45								NA	NA	NA	NA	3.6	3.6	3.6	3.6	NA	NA		
SR13	14/3/2017	Mid-Ebb	Cloudy	Rough	13:05	14	B	13	3																		NA	NA	NA	NA	3.6	3.6	3.6	3.6	NA	NA		

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.



Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																							
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)		
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.
SR5	14/3/2017	Mid-Ebb	Cloudy	Rough	11:18	11	S	1	1	10	NA	NA	NA	NA	NA	0.17	0.26	0.02	0.45	0.45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR5	14/3/2017	Mid-Ebb	Cloudy	Rough	11:18	11	S	1	2	8	NA	NA	NA	NA	NA	0.16	0.26	0.02	0.44	0.45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR5	14/3/2017	Mid-Ebb	Cloudy	Rough	11:18	11	S	1	3		NA	NA	NA	NA	NA	0.17	0.26	0.02	0.45	0.45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR5	14/3/2017	Mid-Ebb	Cloudy	Rough	11:18	11	M	5.5	1	10	NA	NA	NA	NA	NA	0.16	0.27	0.02	0.45	0.45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR5	14/3/2017	Mid-Ebb	Cloudy	Rough	11:18	11	M	5.5	2	8	NA	NA	NA	NA	NA	0.17	0.27	0.02	0.46	0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR5	14/3/2017	Mid-Ebb	Cloudy	Rough	11:18	11	M	5.5	3		NA	NA	NA	NA	NA	0.17	0.27	0.02	0.46	0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR5	14/3/2017	Mid-Ebb	Cloudy	Rough	11:18	11	B	10	1	8	NA	NA	NA	NA	NA	0.16	0.28	0.01	0.45	0.45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR5	14/3/2017	Mid-Ebb	Cloudy	Rough	11:18	11	B	10	2	8	NA	NA	NA	NA	NA	0.16	0.26	0.02	0.44	0.45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR5	14/3/2017	Mid-Ebb	Cloudy	Rough	11:18	11	B	10	3		NA	NA	NA	NA	NA	0.17	0.26	0.02	0.45	0.45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR12	14/3/2017	Mid-Ebb	Cloudy	Rough	12:48	14	S	1	1	4	0.17	0.17	0.015	0.015	0.015	NA	NA	NA	NA	NA	NA	420	463	506	NA	NA	NA	<1	1	1	1		
SR12	14/3/2017	Mid-Ebb	Cloudy	Rough	12:48	14	S	1	2	4	0.16	0.17	0.014	0.014	0.015	NA	NA	NA	NA	NA	NA	510	463	506	NA	NA	NA	<1	1	1	1		
SR12	14/3/2017	Mid-Ebb	Cloudy	Rough	12:48	14	S	1	3		0.16	0.16	0.014	0.014	0.015	NA	NA	NA	NA	NA	NA	520	568	506	NA	NA	NA	<1	1	1	1		
SR12	14/3/2017	Mid-Ebb	Cloudy	Rough	12:48	14	M	7	1	4	0.16	0.16	0.014	0.014	0.015	NA	NA	NA	NA	NA	NA	620	568	506	NA	NA	NA	<1	1	1	1		
SR12	14/3/2017	Mid-Ebb	Cloudy	Rough	12:48	14	M	7	2	6	0.16	0.16	0.014	0.014	0.015	NA	NA	NA	NA	NA	NA	620	568	506	NA	NA	NA	<1	1	1	1		
SR12	14/3/2017	Mid-Ebb	Cloudy	Rough	12:48	14	M	7	3		0.19	0.19	0.016	0.016	0.016	NA	NA	NA	NA	NA	NA	460	494	506	NA	NA	NA	<1	1	1	1		
SR12	14/3/2017	Mid-Ebb	Cloudy	Rough	12:48	14	B	13	2	7	0.18	0.19	0.015	0.016	0.016	NA	NA	NA	NA	NA	NA	530	494	506	NA	NA	NA	<1	1	1	1		
SR12	14/3/2017	Mid-Ebb	Cloudy	Rough	12:48	14	B	13	3		0.19	0.19	0.015	0.016	0.016	NA	NA	NA	NA	NA	NA	530	494	506	NA	NA	NA	<1	1	1	1		
SR13	14/3/2017	Mid-Ebb	Cloudy	Rough	13:05	14	S	1	1	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	14/3/2017	Mid-Ebb	Cloudy	Rough	13:05	14	S	1	2	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	14/3/2017	Mid-Ebb	Cloudy	Rough	13:05	14	S	1	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	14/3/2017	Mid-Ebb	Cloudy	Rough	13:05	14	M	7	1	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	14/3/2017	Mid-Ebb	Cloudy	Rough	13:05	14	M	7	2	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	14/3/2017	Mid-Ebb	Cloudy	Rough	13:05	14	M	7	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	14/3/2017	Mid-Ebb	Cloudy	Rough	13:05	14	B	13	1	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	14/3/2017	Mid-Ebb	Cloudy	Rough	13:05	14	B	13	2	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	14/3/2017	Mid-Ebb	Cloudy	Rough	13:05	14	B	13	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.





Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																										
										pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Ammonia (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)					
										Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	S & M Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	
SR5	16/3/2017	Mid-Flood	Fine	Smooth	10:49	11	S	1	1	8.55	8.55	28.96	28.96	19.11	19.11	87.6	87.6	6.82	6.82	6.80	1.3	1.4	1.7	NA	NA	NA	NA	NA	NA	0.16	0.29	0.01	0.46	0.45	0.45	
SR5	16/3/2017	Mid-Flood	Fine	Smooth	10:49	11	S	1	2	8.55		28.96	28.96	19.11	19.11	87.5	87.6	6.81	6.82		1.4	1.4		NA	NA		NA	NA		NA	0.16	0.28	0.01			0.45
SR5	16/3/2017	Mid-Flood	Fine	Smooth	10:49	11	S	1	3	8.55		28.96	28.96	19.11	19.11	87.5	87.6	6.81	6.82		1.4	1.4		NA	NA		NA	NA		NA	0.16	0.27	0.02			0.45
SR5	16/3/2017	Mid-Flood	Fine	Smooth	10:49	11	M	5.5	1	8.55	8.55	28.97	28.97	19.05	19.05	87.1	87.1	6.79	6.79	6.80	1.4	1.5	1.7	NA	NA	NA	NA	NA	NA	0.16	0.28	0.02	0.46	0.45	0.45	
SR5	16/3/2017	Mid-Flood	Fine	Smooth	10:49	11	M	5.5	2	8.55		28.97	28.97	19.05	19.05	87.0	87.1	6.78	6.79		1.5	1.5		NA	NA		NA	NA		NA	0.16	0.26	0.02			0.44
SR5	16/3/2017	Mid-Flood	Fine	Smooth	10:49	11	M	5.5	3	8.55		28.97	28.97	19.05	19.05	87.0	87.1	6.78	6.79		1.5	1.5		NA	NA		NA	NA		NA	0.16	0.28	0.02			0.46
SR5	16/3/2017	Mid-Flood	Fine	Smooth	10:49	11	B	10	1	8.55	8.55	28.98	28.98	19.04	19.04	87.1	87.1	6.79	6.80	6.80	2.2	2.1	1.7	NA	NA	NA	NA	NA	NA	0.16	0.27	0.02	0.45	0.45	0.45	
SR5	16/3/2017	Mid-Flood	Fine	Smooth	10:49	11	B	10	2	8.55		28.98	28.98	19.04	19.04	87.0	87.1	6.80	6.80		2.1	2.2		NA	NA		NA	NA		NA	0.16	0.27	0.02			0.45
SR5	16/3/2017	Mid-Flood	Fine	Smooth	10:49	11	B	10	3	8.55		28.98	28.98	19.04	19.04	87.0	87.1	6.80	6.80		2.1	2.2		NA	NA		NA	NA		NA	0.16	0.27	0.02			0.45
SR12	16/3/2017	Mid-Flood	Fine	Smooth	9:09	15	S	1	1	8.51	8.51	29.62	29.62	18.95	18.95	85.1	85.1	6.60	6.60	6.55	1.7	1.6	1.7	0.20	0.20	0.018	0.018	0.018	0.016	NA	NA	NA	NA	NA	NA	
SR12	16/3/2017	Mid-Flood	Fine	Smooth	9:09	15	S	1	2	8.51		29.62	29.62	18.95	18.95	85.0	85.1	6.59	6.60		1.6	1.7		0.20	0.20		0.018	0.018		NA	NA	NA	NA			
SR12	16/3/2017	Mid-Flood	Fine	Smooth	9:09	15	S	1	3	8.51		29.62	29.62	18.95	18.95	85.0	85.1	6.59	6.60		1.6	1.7		0.20	0.20		0.018	0.018		NA	NA	NA	NA			
SR12	16/3/2017	Mid-Flood	Fine	Smooth	9:09	15	M	7.5	1	8.52	8.52	29.67	29.67	18.84	18.84	83.3	83.4	6.50	6.51	6.51	2.1	2.0	1.7	0.20	0.20	0.020	0.013	0.013	0.016	NA	NA	NA	NA	NA	NA	
SR12	16/3/2017	Mid-Flood	Fine	Smooth	9:09	15	M	7.5	2	8.52		29.67	29.67	18.84	18.84	83.4	83.4	6.51	6.51		2.0	2.1		0.20	0.20		0.013	0.013		NA	NA	NA	NA			
SR12	16/3/2017	Mid-Flood	Fine	Smooth	9:09	15	M	7.5	3	8.52		29.67	29.67	18.84	18.84	83.4	83.4	6.51	6.51		2.0	2.1		0.20	0.20		0.013	0.013		NA	NA	NA	NA			
SR12	16/3/2017	Mid-Flood	Fine	Smooth	9:09	15	B	14	1	8.52	8.52	29.68	29.68	18.80	18.80	83.1	83.4	6.48	6.49	6.49	1.4	1.3	1.4	0.20	0.20	0.018	0.018	0.018	0.018	NA	NA	NA	NA	NA	NA	
SR12	16/3/2017	Mid-Flood	Fine	Smooth	9:09	15	B	14	2	8.52		29.68	29.68	18.80	18.80	83.7	83.4	6.49	6.49		1.3	1.4		0.20	0.20		0.018	0.018		NA	NA	NA	NA			
SR12	16/3/2017	Mid-Flood	Fine	Smooth	9:09	15	B	14	3	8.52		29.68	29.68	18.80	18.80	83.7	83.4	6.49	6.49		1.3	1.4		0.20	0.20		0.018	0.018		NA	NA	NA	NA			
SR13	16/3/2017	Mid-Flood	Fine	Smooth	8:51	14	S	1	1	8.53	8.53	29.65	29.65	18.94	18.94	85.0	85.1	6.60	6.61	6.61	1.5	1.6	1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	16/3/2017	Mid-Flood	Fine	Smooth	8:51	14	S	1	2	8.53		29.65	29.65	18.94	18.94	85.1	85.1	6.61	6.61		1.6	1.6		NA	NA		NA	NA		NA	NA	NA	NA			
SR13	16/3/2017	Mid-Flood	Fine	Smooth	8:51	14	S	1	3	8.53		29.65	29.65	18.94	18.94	85.1	85.1	6.61	6.61		1.6	1.6		NA	NA		NA	NA		NA	NA	NA	NA			
SR13	16/3/2017	Mid-Flood	Fine	Smooth	8:51	14	M	7	1	8.50	8.50	29.72	29.72	18.81	18.81	83.7	83.7	6.53	6.53	6.53	1.6	1.5	1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	16/3/2017	Mid-Flood	Fine	Smooth	8:51	14	M	7	2	8.50		29.72	29.72	18.81	18.81	83.7	83.7	6.52	6.53		1.5	1.6		NA	NA		NA	NA		NA	NA	NA	NA			
SR13	16/3/2017	Mid-Flood	Fine	Smooth	8:51	14	M	7	3	8.50		29.72	29.72	18.81	18.81	83.7	83.7	6.52	6.53		1.5	1.6		NA	NA		NA	NA		NA	NA	NA	NA			
SR13	16/3/2017	Mid-Flood	Fine	Smooth	8:51	14	B	13	1	8.52	8.52	29.81	29.81	18.75	18.75	83.4	83.4	6.51	6.52	6.52	2.2	2.3	2.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	16/3/2017	Mid-Flood	Fine	Smooth	8:51	14	B	13	2	8.52		29.81	29.81	18.75	18.75	83.3	83.4	6.52	6.52		2.3	2.3		NA	NA		NA	NA		NA	NA	NA	NA			
SR13	16/3/2017	Mid-Flood	Fine	Smooth	8:51	14	B	13	3	8.52		29.81	29.81	18.75	18.75	83.3	83.4	6.52	6.52		2.3	2.3		NA	NA		NA	NA		NA	NA	NA	NA			

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.



## Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																										
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)					
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.			
SR5	16/3/2017	Mid-Flood	Fine	Smooth	10:49	11	S	1	1	6	NA	NA	NA	NA	NA	NA	0.17	0.29	0.01	0.47	0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	16/3/2017	Mid-Flood	Fine	Smooth	10:49	11	S	1	2	7	NA	NA	NA	NA	NA	NA	0.16	0.28	0.01	0.45	0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	16/3/2017	Mid-Flood	Fine	Smooth	10:49	11	S	1	3		NA	NA	NA	NA	NA	NA	0.17	0.27	0.02	0.46	0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	16/3/2017	Mid-Flood	Fine	Smooth	10:49	11	M	5.5	1	8	NA	NA	NA	NA	NA	NA	0.16	0.28	0.02	0.46	0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	16/3/2017	Mid-Flood	Fine	Smooth	10:49	11	M	5.5	2	6	NA	NA	NA	NA	NA	NA	0.16	0.26	0.02	0.44	0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	16/3/2017	Mid-Flood	Fine	Smooth	10:49	11	M	5.5	3		NA	NA	NA	NA	NA	NA	0.17	0.28	0.02	0.47	0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	16/3/2017	Mid-Flood	Fine	Smooth	10:49	11	B	10	1	9	NA	NA	NA	NA	NA	NA	0.17	0.27	0.02	0.46	0.45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	16/3/2017	Mid-Flood	Fine	Smooth	10:49	11	B	10	2	10	NA	NA	NA	NA	NA	NA	0.16	0.27	0.02	0.45	0.45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	16/3/2017	Mid-Flood	Fine	Smooth	10:49	11	B	10	3		NA	NA	NA	NA	NA	NA	0.16	0.28	0.01	0.45	0.45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR12	16/3/2017	Mid-Flood	Fine	Smooth	9:09	15	S	1	1	10	0.21			0.018	0.018	0.016	NA	NA	NA	NA	NA	NA	54	61	74	NA	NA	NA	<1							
SR12	16/3/2017	Mid-Flood	Fine	Smooth	9:09	15	S	1	2	10	0.20	0.21		0.018	0.018	0.016	NA	NA	NA	NA	NA	NA	68			NA	NA	NA	<1		1					
SR12	16/3/2017	Mid-Flood	Fine	Smooth	9:09	15	S	1	3								NA	NA	NA	NA	NA	NA														
SR12	16/3/2017	Mid-Flood	Fine	Smooth	9:09	15	M	7.5	1	10	0.20			0.013	0.012	0.012	NA	NA	NA	NA	NA	NA	220			NA	NA	NA	<1							
SR12	16/3/2017	Mid-Flood	Fine	Smooth	9:09	15	M	7.5	2	9	0.19	0.20	0.20	0.012	0.012	0.016	NA	NA	NA	NA	NA	NA	170	193	74	NA	NA	NA	<1		1		1			
SR12	16/3/2017	Mid-Flood	Fine	Smooth	9:09	15	M	7.5	3								NA	NA	NA	NA	NA	NA														
SR12	16/3/2017	Mid-Flood	Fine	Smooth	9:09	15	B	14	1	8	0.20			0.018	0.018	0.018	NA	NA	NA	NA	NA	NA	32			NA	NA	NA	<1							
SR12	16/3/2017	Mid-Flood	Fine	Smooth	9:09	15	B	14	2	9	0.20	0.20		0.018	0.018	0.018	NA	NA	NA	NA	NA	NA	37	34	74	NA	NA	NA	<1		1					
SR12	16/3/2017	Mid-Flood	Fine	Smooth	9:09	15	B	14	3								NA	NA	NA	NA	NA	NA														
SR13	16/3/2017	Mid-Flood	Fine	Smooth	8:51	14	S	1	1	6	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	16/3/2017	Mid-Flood	Fine	Smooth	8:51	14	S	1	2	7	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	16/3/2017	Mid-Flood	Fine	Smooth	8:51	14	S	1	3								NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	16/3/2017	Mid-Flood	Fine	Smooth	8:51	14	M	7	1	8	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	16/3/2017	Mid-Flood	Fine	Smooth	8:51	14	M	7	2	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	16/3/2017	Mid-Flood	Fine	Smooth	8:51	14	M	7	3								NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	16/3/2017	Mid-Flood	Fine	Smooth	8:51	14	B	13	1	8	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	16/3/2017	Mid-Flood	Fine	Smooth	8:51	14	B	13	2	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	16/3/2017	Mid-Flood	Fine	Smooth	8:51	14	B	13	3								NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
2. ND: Not Detected  
3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.



Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																											
										pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Ammonia (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)						
										Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	S & M Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.		
SR5	16/3/2017	Mid-Ebb	Fine	Smooth	12:00	11	S	1	1	8.56	8.56	28.96	28.97	19.12	19.12	87.3	87.4	7.79	7.80	7.30	1.4	1.4	1.6	NA	NA	NA	NA	NA	0.17	0.27	0.02	0.46	0.46	0.46			
SR5	16/3/2017	Mid-Ebb	Fine	Smooth	12:00	11	S	1	2	8.56		28.98	28.97	19.12	19.12	87.4	87.4	7.80	7.80		1.3	1.3		NA	NA	NA	NA	NA	0.17	0.27	0.02	0.46					
SR5	16/3/2017	Mid-Ebb	Fine	Smooth	12:00	11	S	1	3																												
SR5	16/3/2017	Mid-Ebb	Fine	Smooth	12:00	11	M	5.5	1	8.56	8.56	28.97	28.97	19.05	19.05	87.0	87.1	6.80	6.81	7.30	1.2	1.3	1.6	NA	NA	NA	NA	NA	0.17	0.27	0.02	0.46	0.46	0.46			
SR5	16/3/2017	Mid-Ebb	Fine	Smooth	12:00	11	M	5.5	2	8.56		28.97	28.97	19.05	19.05	87.1	87.1	6.81	6.81		1.3	1.3		NA	NA	NA	NA	NA	0.17	0.27	0.02	0.46					
SR5	16/3/2017	Mid-Ebb	Fine	Smooth	12:00	11	M	5.5	3																												
SR5	16/3/2017	Mid-Ebb	Fine	Smooth	12:00	11	B	10	1	8.56	8.56	28.97	28.97	19.05	19.05	87.2	87.3	6.82	6.83	7.30	2.1	2.1	1.6	NA	NA	NA	NA	NA	0.18	0.28	0.01	0.47	0.47	0.47			
SR5	16/3/2017	Mid-Ebb	Fine	Smooth	12:00	11	B	10	2	8.56		28.97	28.97	19.05	19.05	87.3	87.3	6.83	6.83		2.0	2.1		NA	NA	NA	NA	NA	0.18	0.27	0.02	0.47					
SR5	16/3/2017	Mid-Ebb	Fine	Smooth	12:00	11	B	10	3																												
SR12	16/3/2017	Mid-Ebb	Cloudy	Smooth	13:41	15	S	1	1	8.53	8.53	29.21	29.21	19.13	19.13	84.7	84.8	6.60	6.60	6.54	1.0	1.1	1.2	0.18	0.18	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017		
SR12	16/3/2017	Mid-Ebb	Cloudy	Smooth	13:41	15	S	1	2	8.53		29.21	29.21	19.13	19.13	84.8	84.8	6.59	6.60		1.2	1.1		0.18	0.18		0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
SR12	16/3/2017	Mid-Ebb	Cloudy	Smooth	13:41	15	S	1	3																												
SR12	16/3/2017	Mid-Ebb	Cloudy	Smooth	13:41	15	M	7.5	1	8.54	8.54	29.22	29.22	19.12	19.12	83.5	83.6	6.49	6.49	6.54	1.0	1.1	1.2	0.18	0.18	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
SR12	16/3/2017	Mid-Ebb	Cloudy	Smooth	13:41	15	M	7.5	2	8.54		29.22	29.22	19.12	19.12	83.6	83.6	6.49	6.49		1.1	1.1		0.18	0.18		0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
SR12	16/3/2017	Mid-Ebb	Cloudy	Smooth	13:41	15	M	7.5	3																												
SR12	16/3/2017	Mid-Ebb	Cloudy	Smooth	13:41	15	B	14	1	8.52	8.52	29.15	29.15	19.19	19.19	84.0	84.0	6.52	6.52	6.54	1.5	1.5	1.2	0.18	0.18	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
SR12	16/3/2017	Mid-Ebb	Cloudy	Smooth	13:41	15	B	14	2	8.52		29.15	29.15	19.19	19.19	83.9	84.0	6.51	6.52		1.4	1.5		0.18	0.18		0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
SR12	16/3/2017	Mid-Ebb	Cloudy	Smooth	13:41	15	B	14	3																												
SR13	16/3/2017	Mid-Ebb	Cloudy	Smooth	14:00	14	S	1	1	8.50	8.50	29.35	29.35	19.23	19.23	85.9	86.0	6.49	6.50	6.46	2.3	2.4	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	16/3/2017	Mid-Ebb	Cloudy	Smooth	14:00	14	S	1	2	8.50		29.35	29.35	19.23	19.23	86.0	86.0	6.50	6.50		2.4	2.4		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	16/3/2017	Mid-Ebb	Cloudy	Smooth	14:00	14	S	1	3																												
SR13	16/3/2017	Mid-Ebb	Cloudy	Smooth	14:00	14	M	7	1	8.52	8.52	29.34	29.34	19.20	19.20	84.2	84.2	6.41	6.42	6.46	2.1	2.2	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	16/3/2017	Mid-Ebb	Cloudy	Smooth	14:00	14	M	7	2	8.52		29.34	29.34	19.20	19.20	84.1	84.2	6.42	6.42		2.2	2.2		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	16/3/2017	Mid-Ebb	Cloudy	Smooth	14:00	14	M	7	3																												
SR13	16/3/2017	Mid-Ebb	Cloudy	Smooth	14:00	14	B	13	1	8.53	8.53	29.33	29.33	19.20	19.20	83.7	83.6	6.40	6.40	6.46	3.0	3.1	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	16/3/2017	Mid-Ebb	Cloudy	Smooth	14:00	14	B	13	2	8.53		29.33	29.33	19.20	19.20	83.5	83.6	6.39	6.40		3.1	3.1		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	16/3/2017	Mid-Ebb	Cloudy	Smooth	14:00	14	B	13	3																												

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.



Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																							
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			Urea (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)		
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.
SR5	16/3/2017	Mid-Ebb	Fine	Smooth	12:00	11	S	1	1	6	NA	NA	NA	NA	NA	0.17	0.27	0.02	0.46	0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	16/3/2017	Mid-Ebb	Fine	Smooth	12:00	11	S	1	2	7	NA	NA	NA	NA	NA	0.17	0.27	0.02	0.46	0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	16/3/2017	Mid-Ebb	Fine	Smooth	12:00	11	S	1	3	9	NA	NA	NA	NA	NA	0.16	0.28	0.02	0.46	0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	16/3/2017	Mid-Ebb	Fine	Smooth	12:00	11	M	5.5	1	9	NA	NA	NA	NA	NA	0.17	0.27	0.02	0.46	0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	16/3/2017	Mid-Ebb	Fine	Smooth	12:00	11	M	5.5	2	9	NA	NA	NA	NA	NA	0.16	0.27	0.02	0.45	0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	16/3/2017	Mid-Ebb	Fine	Smooth	12:00	11	M	5.5	3	9	NA	NA	NA	NA	NA	0.17	0.28	0.01	0.46	0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	16/3/2017	Mid-Ebb	Fine	Smooth	12:00	11	B	10	1	8	NA	NA	NA	NA	NA	0.18	0.28	0.01	0.47	0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	16/3/2017	Mid-Ebb	Fine	Smooth	12:00	11	B	10	2	8	NA	NA	NA	NA	NA	0.16	0.27	0.02	0.45	0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	16/3/2017	Mid-Ebb	Fine	Smooth	12:00	11	B	10	3	8	NA	NA	NA	NA	NA	0.18	0.27	0.02	0.47	0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR12	16/3/2017	Mid-Ebb	Cloudy	Smooth	13:41	15	S	1	1	6	0.18	0.19	0.19	0.017	0.017	NA	NA	NA	NA	NA	NA	470	423	521	NA	NA	NA	<1	1	1			
SR12	16/3/2017	Mid-Ebb	Cloudy	Smooth	13:41	15	S	1	2	5	0.19	0.19	0.19	0.018	0.017	NA	NA	NA	NA	NA	NA	380	423	521	NA	NA	NA	<1	1	1			
SR12	16/3/2017	Mid-Ebb	Cloudy	Smooth	13:41	15	S	1	3	6	0.19	0.19	0.19	0.018	0.017	NA	NA	NA	NA	NA	NA	620	668	521	NA	NA	NA	<1	1	1			
SR12	16/3/2017	Mid-Ebb	Cloudy	Smooth	13:41	15	M	7.5	1	5	0.18	0.19	0.19	0.017	0.018	NA	NA	NA	NA	NA	NA	720	668	521	NA	NA	NA	<1	1	1			
SR12	16/3/2017	Mid-Ebb	Cloudy	Smooth	13:41	15	M	7.5	2	7	0.19	0.19	0.19	0.017	0.018	NA	NA	NA	NA	NA	NA	560	502	521	NA	NA	NA	<1	1	1			
SR12	16/3/2017	Mid-Ebb	Cloudy	Smooth	13:41	15	M	7.5	3	6	0.18	0.19	0.19	0.016	0.017	NA	NA	NA	NA	NA	NA	450	502	521	NA	NA	NA	<1	1	1			
SR12	16/3/2017	Mid-Ebb	Cloudy	Smooth	13:41	15	B	14	1	5	0.19	0.19	0.19	0.017	0.017	NA	NA	NA	NA	NA	NA	NA	560	502	521	NA	NA	NA	<1	1	1		
SR12	16/3/2017	Mid-Ebb	Cloudy	Smooth	13:41	15	B	14	2	7	0.18	0.19	0.19	0.016	0.017	NA	NA	NA	NA	NA	NA	450	502	521	NA	NA	NA	<1	1	1			
SR12	16/3/2017	Mid-Ebb	Cloudy	Smooth	13:41	15	B	14	3	6	0.18	0.19	0.19	0.016	0.017	NA	NA	NA	NA	NA	NA	450	502	521	NA	NA	NA	<1	1	1			
SR13	16/3/2017	Mid-Ebb	Cloudy	Smooth	14:00	14	S	1	1	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	16/3/2017	Mid-Ebb	Cloudy	Smooth	14:00	14	S	1	2	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	16/3/2017	Mid-Ebb	Cloudy	Smooth	14:00	14	S	1	3	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	16/3/2017	Mid-Ebb	Cloudy	Smooth	14:00	14	M	7	1	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	16/3/2017	Mid-Ebb	Cloudy	Smooth	14:00	14	M	7	2	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	16/3/2017	Mid-Ebb	Cloudy	Smooth	14:00	14	M	7	3	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	16/3/2017	Mid-Ebb	Cloudy	Smooth	14:00	14	B	13	1	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	16/3/2017	Mid-Ebb	Cloudy	Smooth	14:00	14	B	13	2	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	16/3/2017	Mid-Ebb	Cloudy	Smooth	14:00	14	B	13	3	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.





Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																											
										pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)			Ammonia (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)					
										Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	S & M Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.		
SR5	18/3/2017	Mid-Flood	Cloudy	Moderate	13:15	11	S	1	1	8.52	8.72	28.85	28.83	28.84	19.21	19.21	88.8	88.7	88.8	6.92	6.92	6.89	0.9	1.0	1.0	NA	NA	NA	NA	0.16	0.29	0.02	0.47	0.47			
SR5	18/3/2017	Mid-Flood	Cloudy	Moderate	13:15	11	S	1	2	8.92												6.89															
SR5	18/3/2017	Mid-Flood	Cloudy	Moderate	13:15	11	S	1	3																												
SR5	18/3/2017	Mid-Flood	Cloudy	Moderate	13:15	11	M	5	1	8.53	8.53	29.05	29.07		19.11	19.11	87.8	87.8	87.8	6.85	6.85	6.85	1.5	1.6	1.6	NA	NA	NA	NA	0.16	0.30	0.02	0.48	0.47			
SR5	18/3/2017	Mid-Flood	Cloudy	Moderate	13:15	11	M	5	2	8.53																											
SR5	18/3/2017	Mid-Flood	Cloudy	Moderate	13:15	11	M	5	3																												
SR5	18/3/2017	Mid-Flood	Cloudy	Moderate	13:15	11	B	10	1	8.55	8.55	29.13	29.13		19.05	19.05	88.2	88.1	88.2	6.89	6.90	6.90	2.0	1.9	2.0	NA	NA	NA	NA	0.16	0.29	0.02	0.47	0.47			
SR5	18/3/2017	Mid-Flood	Cloudy	Moderate	13:15	11	B	10	2	8.54																											
SR5	18/3/2017	Mid-Flood	Cloudy	Moderate	13:15	11	B	10	3																												
SR12	18/3/2017	Mid-Flood	Cloudy	Moderate	15:11	15	S	1	1	8.43	8.43	29.55	29.55		18.85	18.85	84.9	84.8	84.9	6.45	6.46	6.46	0.9	1.0	1.0	0.23	0.24	0.24	0.017	0.018	0.017	0.017	0.017	NA			
SR12	18/3/2017	Mid-Flood	Cloudy	Moderate	15:11	15	S	1	2	8.43																											
SR12	18/3/2017	Mid-Flood	Cloudy	Moderate	15:11	15	S	1	3																												
SR12	18/3/2017	Mid-Flood	Cloudy	Moderate	15:11	15	M	7	1	8.41	8.41	29.52	29.52		18.87	18.87	84.1	84.1	84.1	6.58	6.58	6.58	1.0	1.1	1.1	0.23	0.25	0.24	0.016	0.017	0.017	0.017	0.018	0.017	0.018	NA	
SR12	18/3/2017	Mid-Flood	Cloudy	Moderate	15:11	15	M	7	2	8.40																											
SR12	18/3/2017	Mid-Flood	Cloudy	Moderate	15:11	15	M	7	3																												
SR12	18/3/2017	Mid-Flood	Cloudy	Moderate	15:11	15	B	14	1	8.41	8.41	29.44	29.45		18.89	18.89	83.5	83.5	83.5	6.70	6.71	6.71	1.4	1.5	1.5	0.27	0.29	0.28	0.019	0.020	0.020	0.020	0.020	0.020	0.020	NA	
SR12	18/3/2017	Mid-Flood	Cloudy	Moderate	15:11	15	B	14	2	8.40																											
SR12	18/3/2017	Mid-Flood	Cloudy	Moderate	15:11	15	B	14	3																												
SR13	18/3/2017	Mid-Flood	Cloudy	Moderate	15:37	14	S	1	1	8.51	8.51	29.80	29.81		18.71	18.72	84.5	84.4	84.5	6.71	6.71	6.71	3.1	3.0	3.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	18/3/2017	Mid-Flood	Cloudy	Moderate	15:37	14	S	1	2	8.50																											
SR13	18/3/2017	Mid-Flood	Cloudy	Moderate	15:37	14	S	1	3																												
SR13	18/3/2017	Mid-Flood	Cloudy	Moderate	15:37	14	M	6.5	1	8.47	8.47	29.75	29.75		18.75	18.75	84.2	84.2	84.2	6.62	6.57	6.57	3.2	3.2	3.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	18/3/2017	Mid-Flood	Cloudy	Moderate	15:37	14	M	6.5	2	8.47																											
SR13	18/3/2017	Mid-Flood	Cloudy	Moderate	15:37	14	B	13	1	8.45	8.43	29.73	29.73		18.71	18.71	84.1	83.9	84.0	6.55	6.55	6.55	3.5	3.6	3.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	18/3/2017	Mid-Flood	Cloudy	Moderate	15:37	14	B	13	2	8.40																											
SR13	18/3/2017	Mid-Flood	Cloudy	Moderate	15:37	14	B	13	3																												

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.



Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																							
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)		
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.
SR5	18/3/2017	Mid-Flood	Cloudy	Moderate	13:15	11	S	1	1	5	NA	NA	NA	NA	NA	0.16	0.29	0.02	0.47	0.47	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	18/3/2017	Mid-Flood	Cloudy	Moderate	13:15	11	S	1	2	6	NA	NA	NA	NA	NA	0.16	0.29	0.02	0.47	0.47	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	18/3/2017	Mid-Flood	Cloudy	Moderate	13:15	11	S	1	3							0.16	0.29	0.02	0.47														
SR5	18/3/2017	Mid-Flood	Cloudy	Moderate	13:15	11	M	5	1	5	NA	NA	NA	NA	NA	0.16	0.30	0.02	0.48	0.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	18/3/2017	Mid-Flood	Cloudy	Moderate	13:15	11	M	5	2	5	NA	NA	NA	NA	NA	0.17	0.29	0.02	0.48	0.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	18/3/2017	Mid-Flood	Cloudy	Moderate	13:15	11	M	5	3							0.18	0.29	0.02	0.49														
SR5	18/3/2017	Mid-Flood	Cloudy	Moderate	13:15	11	B	10	1	8	NA	NA	NA	NA	NA	0.17	0.28	0.02	0.47	0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	18/3/2017	Mid-Flood	Cloudy	Moderate	13:15	11	B	10	2	6	NA	NA	NA	NA	NA	0.17	0.28	0.02	0.47	0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	18/3/2017	Mid-Flood	Cloudy	Moderate	13:15	11	B	10	3							0.16	0.27	0.02	0.45														
SR12	18/3/2017	Mid-Flood	Cloudy	Moderate	15:11	15	S	1	1	9	0.23	0.24	0.24	0.017	0.017	NA	NA	NA	NA	NA	NA	180	130	153	NA	NA	NA	1	2	2			
SR12	18/3/2017	Mid-Flood	Cloudy	Moderate	15:11	15	S	1	2	8						NA	NA	NA	NA	NA	NA												
SR12	18/3/2017	Mid-Flood	Cloudy	Moderate	15:11	15	S	1	3							NA	NA	NA	NA	NA	NA												
SR12	18/3/2017	Mid-Flood	Cloudy	Moderate	15:11	15	M	7	1	10	0.23	0.25	0.24	0.016	0.017	NA	NA	NA	NA	NA	NA	26	40	32	96	NA	NA	NA	<1	<1	1		
SR12	18/3/2017	Mid-Flood	Cloudy	Moderate	15:11	15	M	7	2	9						NA	NA	NA	NA	NA	NA												
SR12	18/3/2017	Mid-Flood	Cloudy	Moderate	15:11	15	M	7	3							NA	NA	NA	NA	NA	NA												
SR12	18/3/2017	Mid-Flood	Cloudy	Moderate	15:11	15	B	14	1	10	0.27	0.28	0.28	0.019	0.020	NA	NA	NA	NA	NA	NA	250	130	180	NA	NA	NA	<1	<1	1			
SR12	18/3/2017	Mid-Flood	Cloudy	Moderate	15:11	15	B	14	2	8						NA	NA	NA	NA	NA	NA												
SR12	18/3/2017	Mid-Flood	Cloudy	Moderate	15:11	15	B	14	3							NA	NA	NA	NA	NA	NA												
SR13	18/3/2017	Mid-Flood	Cloudy	Moderate	15:37	14	S	1	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	18/3/2017	Mid-Flood	Cloudy	Moderate	15:37	14	S	1	2	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	18/3/2017	Mid-Flood	Cloudy	Moderate	15:37	14	S	1	3							NA	NA	NA	NA	NA	NA												
SR13	18/3/2017	Mid-Flood	Cloudy	Moderate	15:37	14	M	6.5	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	18/3/2017	Mid-Flood	Cloudy	Moderate	15:37	14	M	6.5	2	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	18/3/2017	Mid-Flood	Cloudy	Moderate	15:37	14	M	6.5	3							NA	NA	NA	NA	NA	NA												
SR13	18/3/2017	Mid-Flood	Cloudy	Moderate	15:37	14	B	13	1	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	18/3/2017	Mid-Flood	Cloudy	Moderate	15:37	14	B	13	2	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	18/3/2017	Mid-Flood	Cloudy	Moderate	15:37	14	B	13	3							NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.



Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																												
										pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)			Turbidity (NTU)			Ammonia (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)					
										Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	S & M Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.
SR5	18/3/2017	Mid-Ebb	Cloudy	Moderate	11:52	11	S	1	1	8.50	8.50	28.84	28.84	19.24	19.24	19.24	88.9	88.9	6.94	6.96	6.95	6.91	0.8	0.9	0.9	NA	NA	NA	NA	NA	0.17	0.29	0.02	0.48	0.48			
SR5	18/3/2017	Mid-Ebb	Cloudy	Moderate	11:52	11	S	1	2	8.50																												
SR5	18/3/2017	Mid-Ebb	Cloudy	Moderate	11:52	11	S	1	3																													
SR5	18/3/2017	Mid-Ebb	Cloudy	Moderate	11:52	11	M	5	1	8.52	8.52	29.07	29.09	19.07	19.07	19.07	87.9	88.0	6.86	6.87	6.87	6.91	1.8	1.7	1.8	NA	NA	NA	NA	NA	0.17	0.30	0.02	0.49	0.49			
SR5	18/3/2017	Mid-Ebb	Cloudy	Moderate	11:52	11	M	5	2	8.52																												
SR5	18/3/2017	Mid-Ebb	Cloudy	Moderate	11:52	11	M	5	3																													
SR5	18/3/2017	Mid-Ebb	Cloudy	Moderate	11:52	11	B	10	1	8.53	8.53	29.15	29.15	19.05	19.03	19.04	88.0	88.0	6.89	6.88	6.88		2.2	2.1	2.2	NA	NA	NA	NA	NA	0.17	0.29	0.01	0.47	0.47			
SR5	18/3/2017	Mid-Ebb	Cloudy	Moderate	11:52	11	B	10	2	8.53																												
SR5	18/3/2017	Mid-Ebb	Cloudy	Moderate	11:52	11	B	10	3																													
SR12	18/3/2017	Mid-Ebb	Cloudy	Moderate	10:17	15	S	1	1	8.45	8.46	29.52	29.52	18.83	18.83	18.83	85.3	85.2	6.61	6.60	6.61	6.58	3.5	3.6	3.6	0.22	0.22	0.22	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	
SR12	18/3/2017	Mid-Ebb	Cloudy	Moderate	10:17	15	S	1	2	8.46																												
SR12	18/3/2017	Mid-Ebb	Cloudy	Moderate	10:17	15	S	1	3																													
SR12	18/3/2017	Mid-Ebb	Cloudy	Moderate	10:17	15	M	7	1	8.44	8.45	29.50	29.50	18.83	18.83	18.83	83.9	84.3	6.55	6.55	6.55		3.6	3.7	3.7	0.22	0.22	0.22	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
SR12	18/3/2017	Mid-Ebb	Cloudy	Moderate	10:17	15	M	7	2	8.45																												
SR12	18/3/2017	Mid-Ebb	Cloudy	Moderate	10:17	15	M	7	3																													
SR12	18/3/2017	Mid-Ebb	Cloudy	Moderate	10:17	15	B	14	1	8.44	8.44	29.45	29.45	18.86	18.86	18.86	83.7	83.8	6.54	6.54	6.54		3.4	3.6	3.5	0.28	0.28	0.28	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
SR12	18/3/2017	Mid-Ebb	Cloudy	Moderate	10:17	15	B	14	2	8.44																												
SR12	18/3/2017	Mid-Ebb	Cloudy	Moderate	10:17	15	B	14	3																													
SR13	18/3/2017	Mid-Ebb	Cloudy	Moderate	9:51	14	S	1	1	8.49	8.49	29.74	29.74	18.73	18.73	18.73	84.2	84.3	6.66	6.62	6.64	6.60	4.0	3.9	4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	18/3/2017	Mid-Ebb	Cloudy	Moderate	9:51	14	S	1	2	8.49																												
SR13	18/3/2017	Mid-Ebb	Cloudy	Moderate	9:51	14	S	1	3																													
SR13	18/3/2017	Mid-Ebb	Cloudy	Moderate	9:51	14	M	6.5	1	8.48	8.48	29.73	29.73	18.71	18.71	18.71	83.9	83.9	6.55	6.56	6.56		4.2	4.4	4.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	18/3/2017	Mid-Ebb	Cloudy	Moderate	9:51	14	M	6.5	2	8.48																												
SR13	18/3/2017	Mid-Ebb	Cloudy	Moderate	9:51	14	M	6.5	3																													
SR13	18/3/2017	Mid-Ebb	Cloudy	Moderate	9:51	14	B	13	1	8.48	8.48	29.70	29.71	18.75	18.75	18.75	83.8	83.9	6.53	6.54	6.54		4.6	4.7	4.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	18/3/2017	Mid-Ebb	Cloudy	Moderate	9:51	14	B	13	2	8.48																												
SR13	18/3/2017	Mid-Ebb	Cloudy	Moderate	9:51	14	B	13	3																													

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.



Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																									
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)				
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.		
SR5	18/3/2017	Mid-Ebb	Cloudy	Moderate	11:52	11	S	1	1	6	NA	NA	NA	NA	NA	NA	0.17	0.29	0.02	0.48	0.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	18/3/2017	Mid-Ebb	Cloudy	Moderate	11:52	11	S	1	2	6	NA	NA	NA	NA	NA	NA	0.16	0.29	0.02	0.47	0.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	18/3/2017	Mid-Ebb	Cloudy	Moderate	11:52	11	S	1	3		NA	NA	NA	NA	NA	NA	0.17	0.30	0.02	0.49	0.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	18/3/2017	Mid-Ebb	Cloudy	Moderate	11:52	11	M	5	1	6	NA	NA	NA	NA	NA	NA	0.17	0.30	0.02	0.49	0.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	18/3/2017	Mid-Ebb	Cloudy	Moderate	11:52	11	M	5	2	5	NA	NA	NA	NA	NA	NA	0.16	0.30	0.02	0.48	0.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	18/3/2017	Mid-Ebb	Cloudy	Moderate	11:52	11	M	5	3		NA	NA	NA	NA	NA	NA	0.16	0.29	0.02	0.47	0.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	18/3/2017	Mid-Ebb	Cloudy	Moderate	11:52	11	B	10	1	6	NA	NA	NA	NA	NA	NA	0.17	0.29	0.01	0.47	0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	18/3/2017	Mid-Ebb	Cloudy	Moderate	11:52	11	B	10	2	5	NA	NA	NA	NA	NA	NA	0.15	0.28	0.02	0.45	0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	18/3/2017	Mid-Ebb	Cloudy	Moderate	11:52	11	B	10	3		NA	NA	NA	NA	NA	NA	0.17	0.27	0.02	0.46	0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR12	18/3/2017	Mid-Ebb	Cloudy	Moderate	10:17	15	S	1	1	8	0.21	0.23	0.22	0.016	0.018	0.017	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	46	51	NA	NA	NA	<1	<1	1	
SR12	18/3/2017	Mid-Ebb	Cloudy	Moderate	10:17	15	S	1	3		0.21	0.23	0.22	0.016	0.017	0.017	NA	NA	NA	NA	NA	NA	NA	NA	NA	51	58	54	NA	NA	NA	<1	<1	1	
SR12	18/3/2017	Mid-Ebb	Cloudy	Moderate	10:17	15	M	7	1	7	0.26	0.30	0.28	0.020	0.023	0.021	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	24	37	NA	NA	NA	<1	<1	1	
SR12	18/3/2017	Mid-Ebb	Cloudy	Moderate	10:17	15	M	7	2	6	NA	NA	NA	0.016	0.017	0.018	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	24	37	NA	NA	NA	<1	<1	1	
SR12	18/3/2017	Mid-Ebb	Cloudy	Moderate	10:17	15	M	7	3		NA	NA	NA	0.016	0.017	0.017	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	24	37	NA	NA	NA	<1	<1	1	
SR12	18/3/2017	Mid-Ebb	Cloudy	Moderate	10:17	15	B	14	1	7	NA	NA	NA	0.016	0.017	0.017	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	24	37	NA	NA	NA	<1	<1	1	
SR12	18/3/2017	Mid-Ebb	Cloudy	Moderate	10:17	15	B	14	2	6	NA	NA	NA	0.016	0.017	0.017	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	24	37	NA	NA	NA	<1	<1	1	
SR12	18/3/2017	Mid-Ebb	Cloudy	Moderate	10:17	15	B	14	3		NA	NA	NA	0.016	0.017	0.017	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	24	37	NA	NA	NA	<1	<1	1	
SR13	18/3/2017	Mid-Ebb	Cloudy	Moderate	9:51	14	S	1	1	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	18/3/2017	Mid-Ebb	Cloudy	Moderate	9:51	14	S	1	2	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	18/3/2017	Mid-Ebb	Cloudy	Moderate	9:51	14	S	1	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	18/3/2017	Mid-Ebb	Cloudy	Moderate	9:51	14	M	6.5	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	18/3/2017	Mid-Ebb	Cloudy	Moderate	9:51	14	M	6.5	2	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	18/3/2017	Mid-Ebb	Cloudy	Moderate	9:51	14	M	6.5	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	18/3/2017	Mid-Ebb	Cloudy	Moderate	9:51	14	B	13	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	18/3/2017	Mid-Ebb	Cloudy	Moderate	9:51	14	B	13	2	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	18/3/2017	Mid-Ebb	Cloudy	Moderate	9:51	14	B	13	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
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Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																							
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)		
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.
SR5	21/3/2017	Mid-Flood	Find	Calm	12:55	11	S	1	1	2	NA	NA	NA	NA	NA	NA	0.16	0.42	0.02	0.60	0.61	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	21/3/2017	Mid-Flood	Find	Calm	12:55	11	S	1	2	2	NA	NA	NA	NA	NA	NA	0.18	0.41	0.03	0.62	0.61	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	21/3/2017	Mid-Flood	Find	Calm	12:55	11	S	1	3		NA	NA	NA	NA	NA	NA	0.17	0.42	0.02	0.61	0.59	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	21/3/2017	Mid-Flood	Find	Calm	12:55	11	M	5.5	1	4	NA	NA	NA	NA	NA	NA	0.16	0.40	0.02	0.58	0.58	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	21/3/2017	Mid-Flood	Find	Calm	12:55	11	M	5.5	2	3	NA	NA	NA	NA	NA	NA	0.17	0.40	0.02	0.59	0.59	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	21/3/2017	Mid-Flood	Find	Calm	12:55	11	M	5.5	3		NA	NA	NA	NA	NA	NA	0.17	0.40	0.02	0.59	0.55	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	21/3/2017	Mid-Flood	Find	Calm	12:55	11	B	10	1	6	NA	NA	NA	NA	NA	NA	0.17	0.37	0.02	0.56	0.55	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	21/3/2017	Mid-Flood	Find	Calm	12:55	11	B	10	2	4	NA	NA	NA	NA	NA	NA	0.16	0.37	0.02	0.55	0.55	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	21/3/2017	Mid-Flood	Find	Calm	12:55	11	B	10	3		NA	NA	NA	NA	NA	NA	0.16	0.37	0.02	0.55	0.55	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR12	21/3/2017	Mid-Flood	Find	Smooth	11:12	15	S	1	1	3							NA	NA	NA	NA	NA	NA	6										
SR12	21/3/2017	Mid-Flood	Find	Smooth	11:12	15	S	1	2	4	0.20			0.019			NA	NA	NA	NA	NA	NA	4	5			NA	NA	<1	1			
SR12	21/3/2017	Mid-Flood	Find	Smooth	11:12	15	S	1	3		0.21	0.21		0.020			0.020						NA	NA	NA	NA	NA	NA	<1	1			
SR12	21/3/2017	Mid-Flood	Find	Smooth	11:12	15	M	7.5	1	3							NA	NA	NA	NA	NA	NA	13										
SR12	21/3/2017	Mid-Flood	Find	Smooth	11:12	15	M	7.5	2	2	0.17			0.016			0.016						16	14	14	NA	NA	NA	<1	1			
SR12	21/3/2017	Mid-Flood	Find	Smooth	11:12	15	M	7.5	3		0.19	0.18	0.19	0.018	0.017	0.018	0.018						NA	NA	NA	NA	NA	NA	<1	1			
SR12	21/3/2017	Mid-Flood	Find	Smooth	11:12	15	M	7.5	3								NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	1			
SR12	21/3/2017	Mid-Flood	Find	Smooth	11:12	15	B	14	1	5	0.18			0.018			0.018						46										
SR12	21/3/2017	Mid-Flood	Find	Smooth	11:12	15	B	14	2	3	0.19	0.19		0.019	0.018		0.019					32	38										
SR12	21/3/2017	Mid-Flood	Find	Smooth	11:12	15	B	14	3								NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	1			
SR13	21/3/2017	Mid-Flood	Find	Smooth	10:51	14	S	1	1	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	21/3/2017	Mid-Flood	Find	Smooth	10:51	14	S	1	2	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	21/3/2017	Mid-Flood	Find	Smooth	10:51	14	S	1	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	21/3/2017	Mid-Flood	Find	Smooth	10:51	14	M	7	1	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	21/3/2017	Mid-Flood	Find	Smooth	10:51	14	M	7	2	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	21/3/2017	Mid-Flood	Find	Smooth	10:51	14	M	7	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	21/3/2017	Mid-Flood	Find	Smooth	10:51	14	B	13	1	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	21/3/2017	Mid-Flood	Find	Smooth	10:51	14	B	13	2	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	21/3/2017	Mid-Flood	Find	Smooth	10:51	14	B	13	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
2. ND: Not Detected  
3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.







Impact Monitoring Data

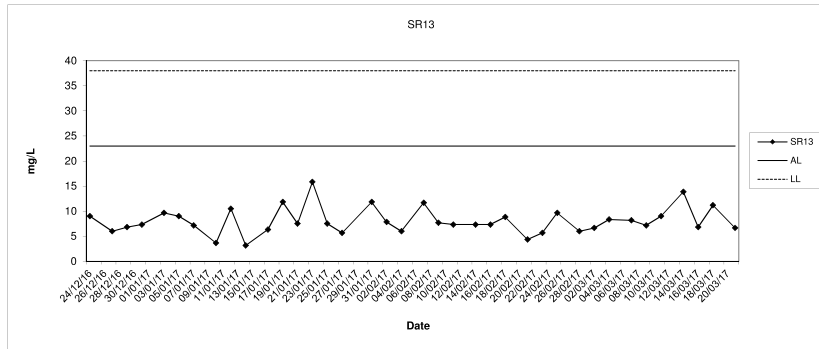
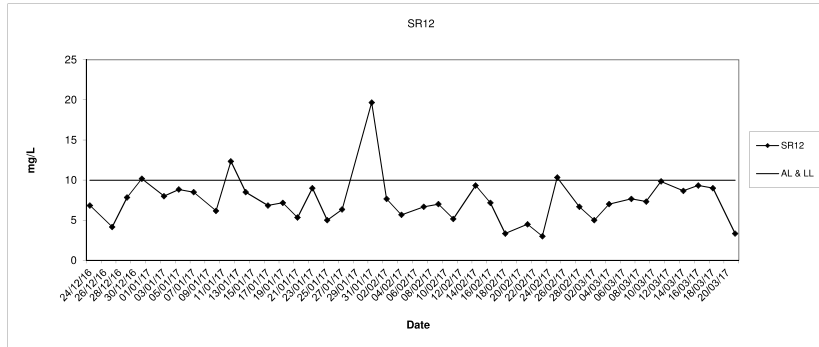
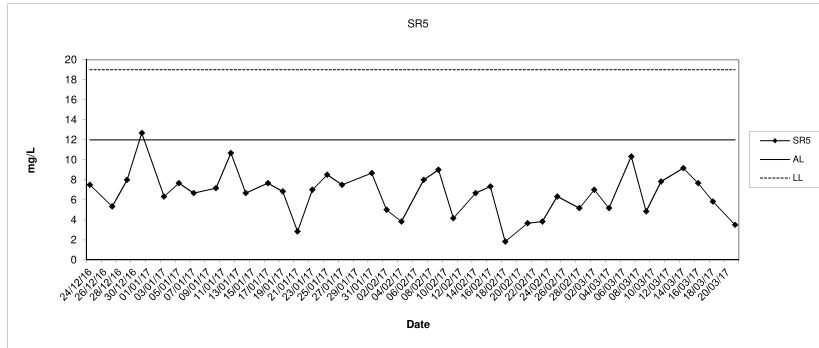
Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																							
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)		
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.
SR5	21/3/2017	Mid-Ebb	Find	Calm	15:34	11	S	1	1	2	NA	NA	NA	NA	NA	0.17	0.40	0.03	0.60	0.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	21/3/2017	Mid-Ebb	Find	Calm	15:34	11	S	1	2	3	NA	NA	NA	NA	NA	0.17	0.39	0.03	0.59	0.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	21/3/2017	Mid-Ebb	Find	Calm	15:34	11	S	1	3		NA	NA	NA	NA	NA	0.16	0.40	0.03	0.59	0.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	21/3/2017	Mid-Ebb	Find	Calm	15:34	11	M	5.5	1	3	NA	NA	NA	NA	NA	0.17	0.39	0.03	0.59	0.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	21/3/2017	Mid-Ebb	Find	Calm	15:34	11	M	5.5	2	5	NA	NA	NA	NA	NA	0.16	0.40	0.02	0.58	0.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	21/3/2017	Mid-Ebb	Find	Calm	15:34	11	M	5.5	3		NA	NA	NA	NA	NA	0.16	0.41	0.02	0.59	0.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	21/3/2017	Mid-Ebb	Find	Calm	15:34	11	B	10	1	3	NA	NA	NA	NA	NA	0.16	0.36	0.02	0.54	0.55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	21/3/2017	Mid-Ebb	Find	Calm	15:34	11	B	10	2	5	NA	NA	NA	NA	NA	0.16	0.36	0.02	0.54	0.55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	21/3/2017	Mid-Ebb	Find	Calm	15:34	11	B	10	3		NA	NA	NA	NA	NA	0.17	0.37	0.02	0.56	0.55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR12	21/3/2017	Mid-Ebb	Find	Calm	17:09	15	S	1	1	3	0.20	0.20	0.018	0.018	0.017	NA	NA	NA	NA	NA	NA	210	238	NA	NA	NA	NA	<1	1	NA			
SR12	21/3/2017	Mid-Ebb	Find	Calm	17:09	15	S	1	2	5	0.20	0.20	0.018	0.018	0.017	NA	NA	NA	NA	NA	NA	270	238	NA	NA	NA	NA	<1	1	NA			
SR12	21/3/2017	Mid-Ebb	Find	Calm	17:09	15	S	1	3		0.19	0.19	0.016	0.016	0.017	NA	NA	NA	NA	NA	NA	16	19	56	NA	NA	NA	<1	1	1			
SR12	21/3/2017	Mid-Ebb	Find	Calm	17:09	15	M	7.5	1	4	0.19	0.19	0.016	0.016	0.017	NA	NA	NA	NA	NA	NA	23	38	56	NA	NA	NA	<1	1	1			
SR12	21/3/2017	Mid-Ebb	Find	Calm	17:09	15	M	7.5	2	3	0.19	0.19	0.016	0.016	0.017	NA	NA	NA	NA	NA	NA	16	19	56	NA	NA	NA	<1	1	1			
SR12	21/3/2017	Mid-Ebb	Find	Calm	17:09	15	M	7.5	3		0.19	0.19	0.017	0.017	0.017	NA	NA	NA	NA	NA	NA	35	38	56	NA	NA	NA	<1	1	1			
SR12	21/3/2017	Mid-Ebb	Find	Calm	17:09	15	B	14	2	4	0.19	0.19	0.017	0.017	0.017	NA	NA	NA	NA	NA	NA	42	38	56	NA	NA	NA	<1	1	1			
SR12	21/3/2017	Mid-Ebb	Find	Calm	17:09	15	B	14	3		0.19	0.19	0.017	0.017	0.017	NA	NA	NA	NA	NA	NA	42	38	56	NA	NA	NA	<1	1	1			
SR13	21/3/2017	Mid-Ebb	Find	Calm	17:24	14	S	1	1	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	21/3/2017	Mid-Ebb	Find	Calm	17:24	14	S	1	2	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	21/3/2017	Mid-Ebb	Find	Calm	17:24	14	S	1	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	21/3/2017	Mid-Ebb	Find	Calm	17:24	14	M	7	1	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	21/3/2017	Mid-Ebb	Find	Calm	17:24	14	M	7	2	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	21/3/2017	Mid-Ebb	Find	Calm	17:24	14	M	7	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	21/3/2017	Mid-Ebb	Find	Calm	17:24	14	B	13	1	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	21/3/2017	Mid-Ebb	Find	Calm	17:24	14	B	13	2	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	21/3/2017	Mid-Ebb	Find	Calm	17:24	14	B	13	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.

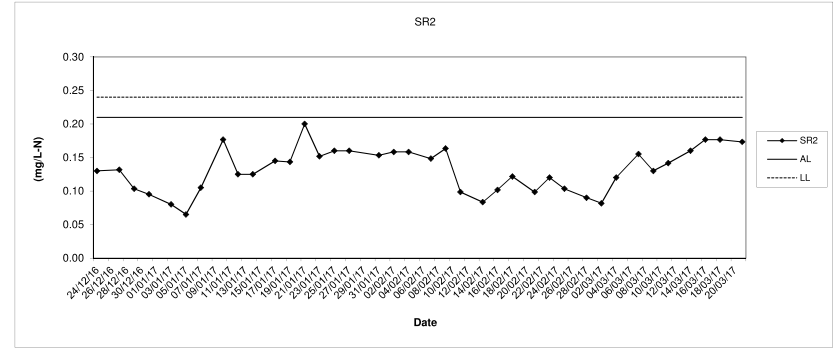
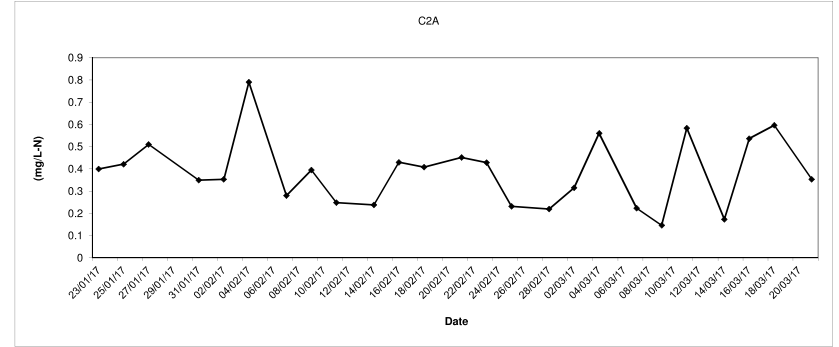
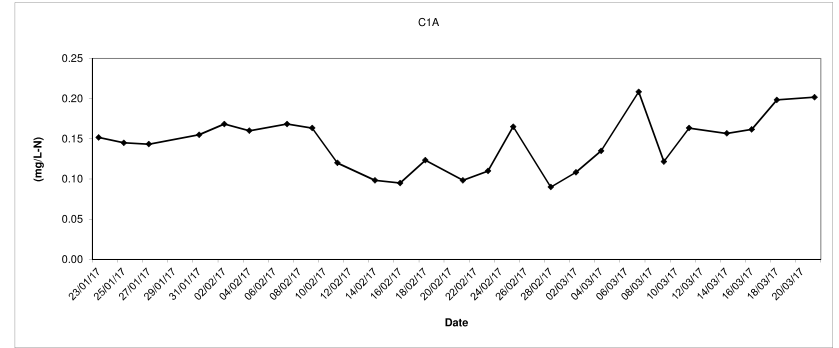




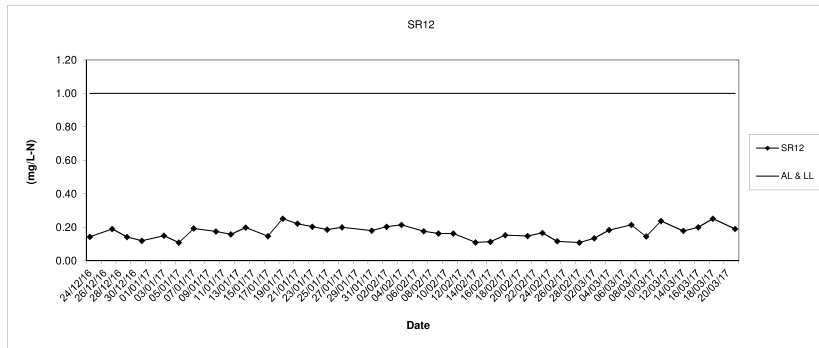
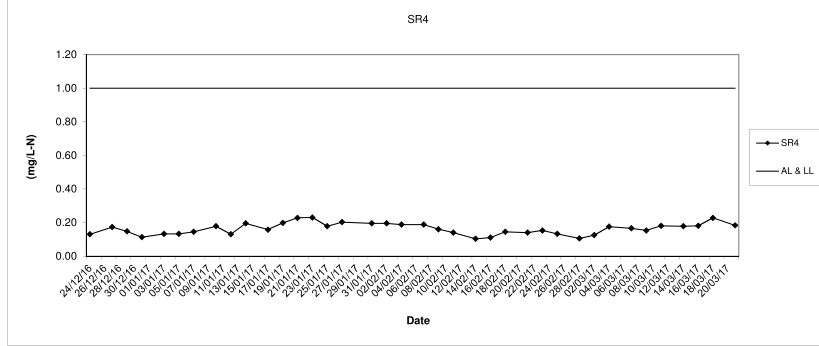
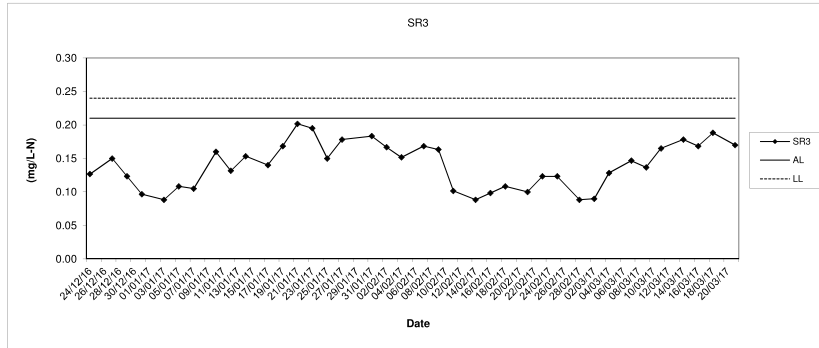
Total Suspended Solids (Depth average) at Mid-Flood Tide



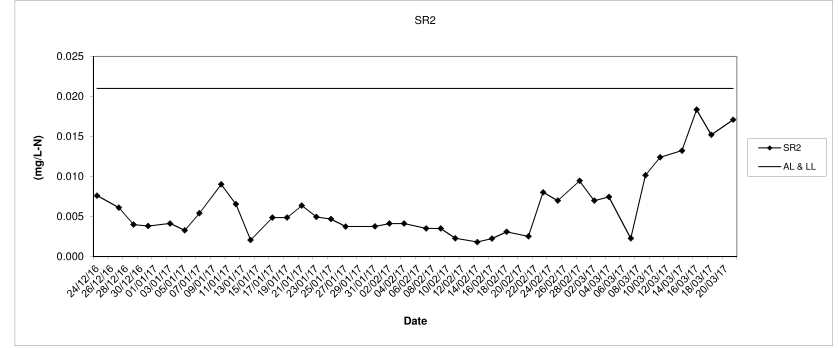
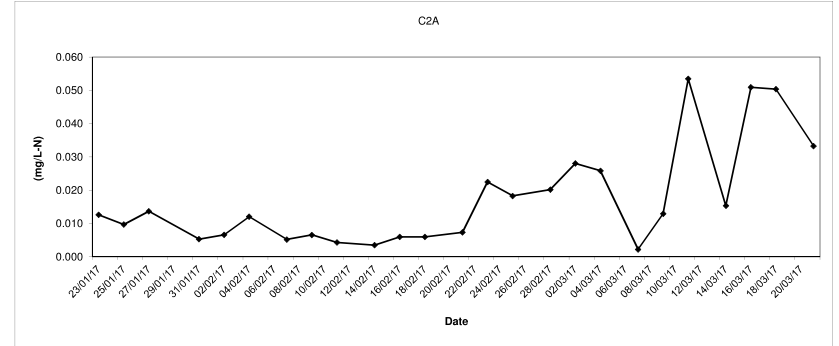
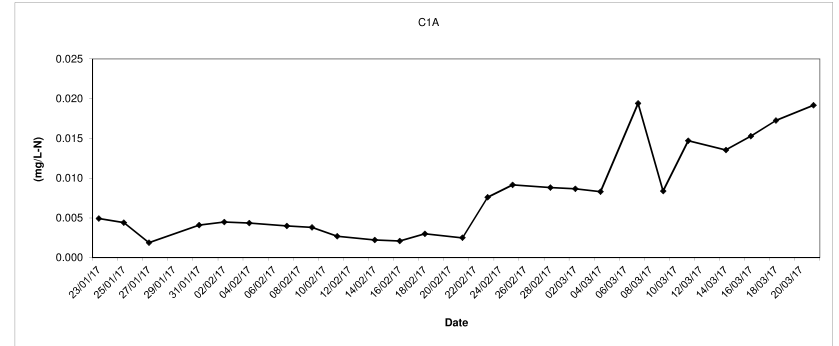
Ammonia Nitrogen (Depth average) at Mid-Flood Tide



Ammonia Nitrogen (Depth average) at Mid-Flood Tide

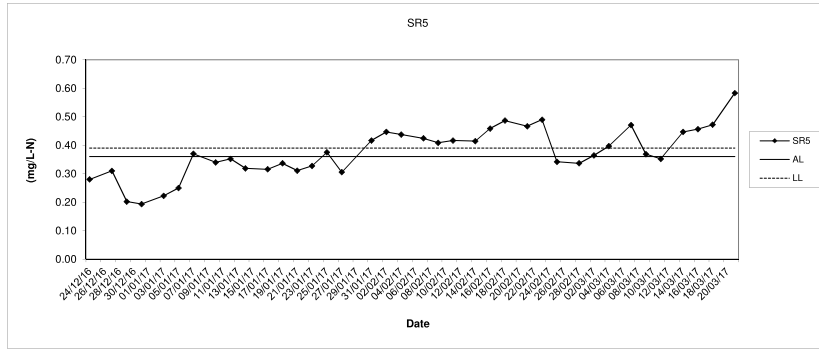


Laboratory Analysis UIA (Depth average) at Mid-Flood Tide

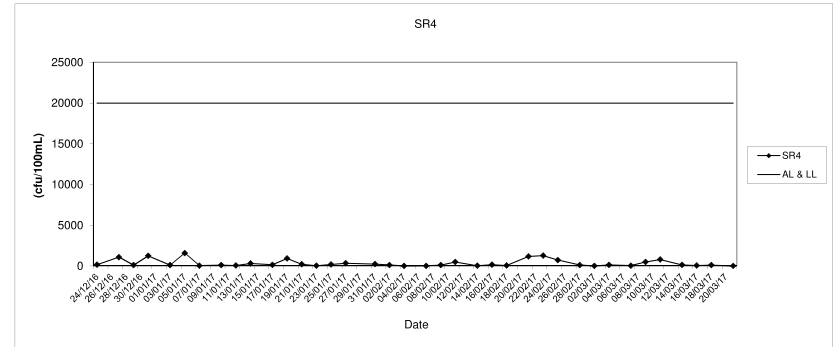
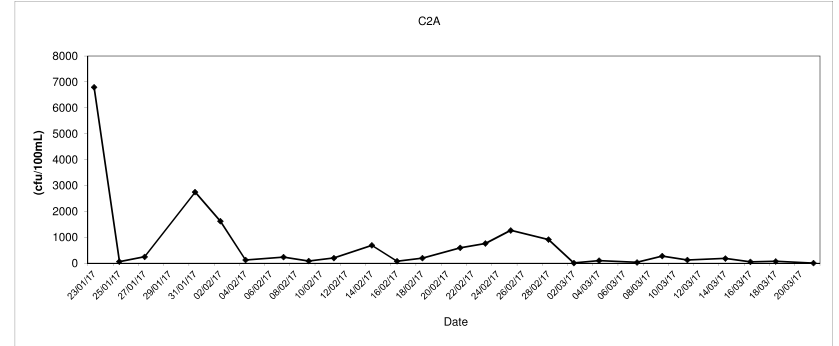
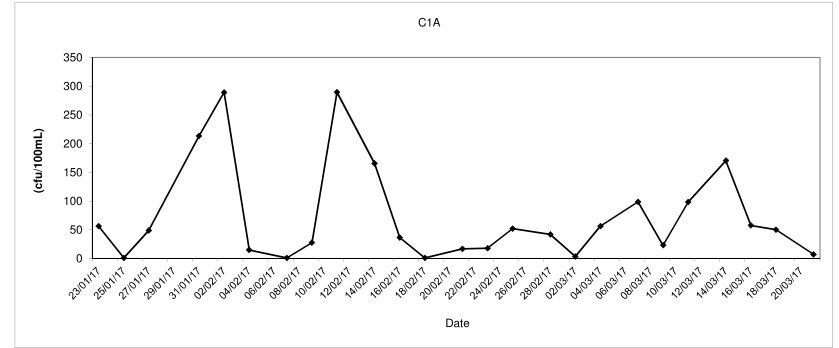




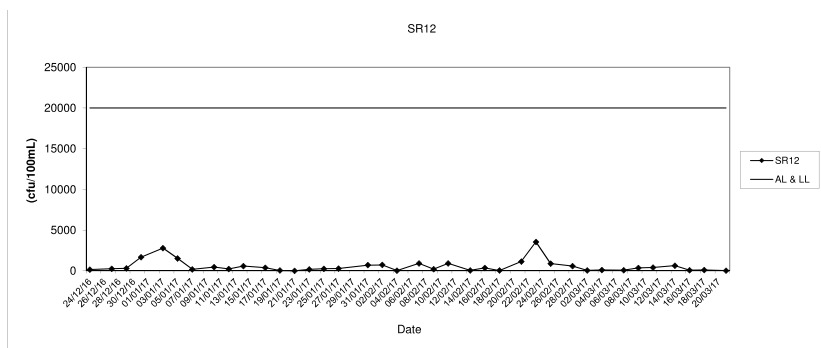
Laboratory Analysis TIN (Depth average) at Mid-Flood Tide



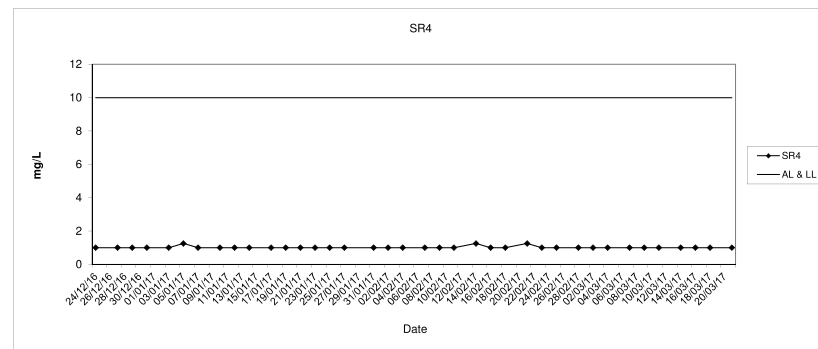
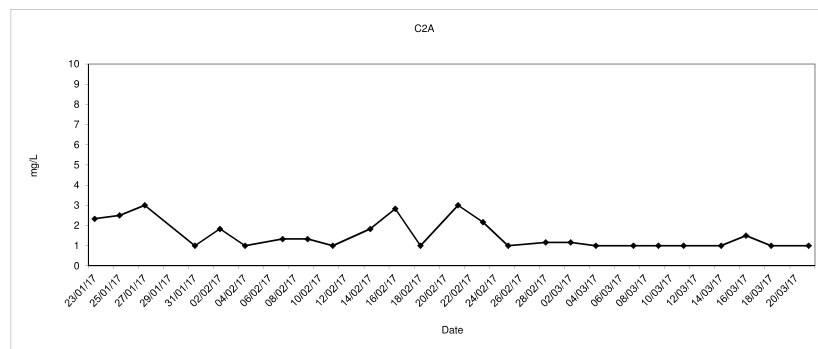
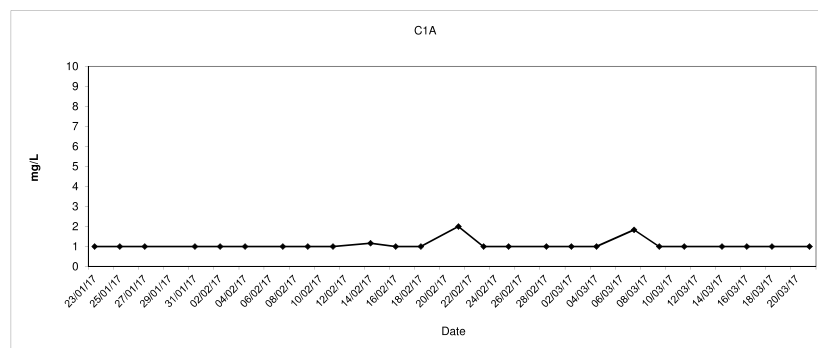
E.coli (Depth average) at Mid-Flood Tide



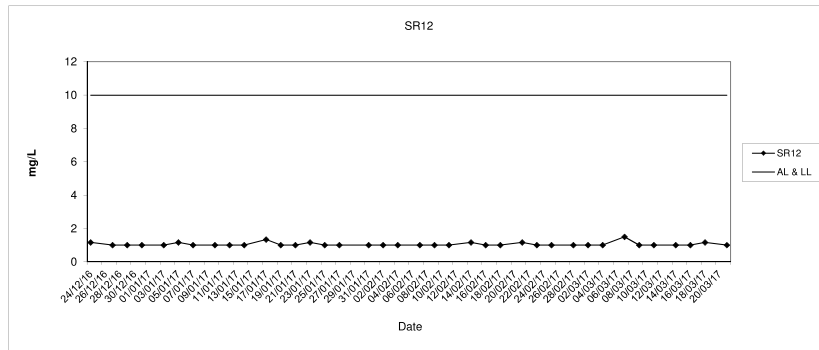
**E.coli (Depth average) at Mid-Flood Tide**



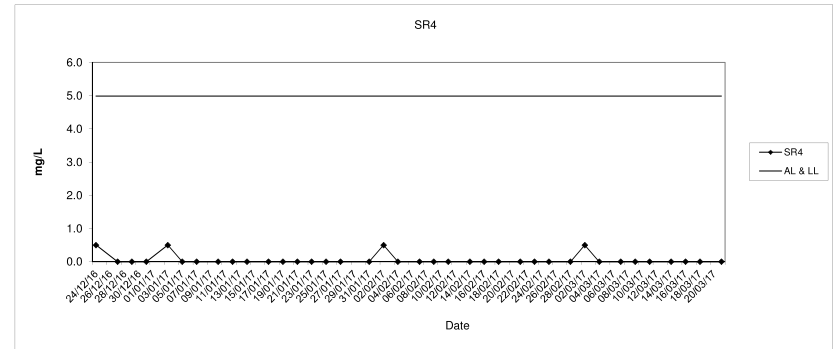
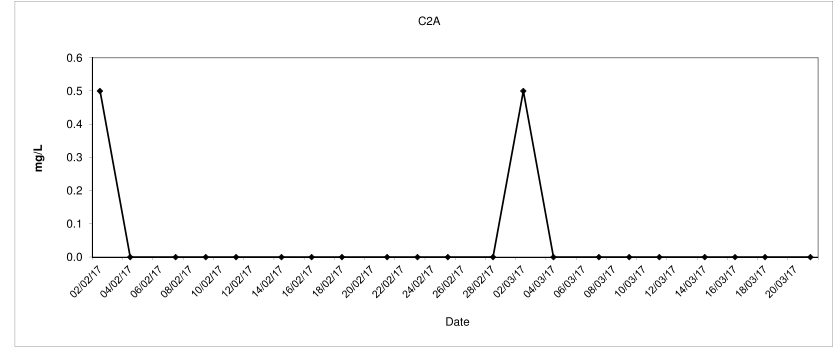
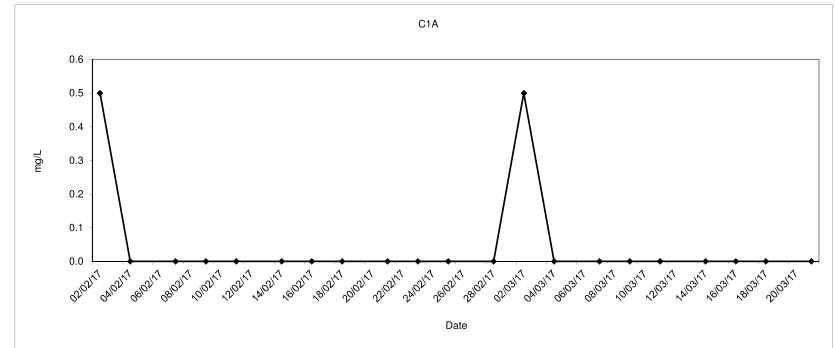
**BOD<sub>5</sub> (Depth average) at Mid-Flood Tide**



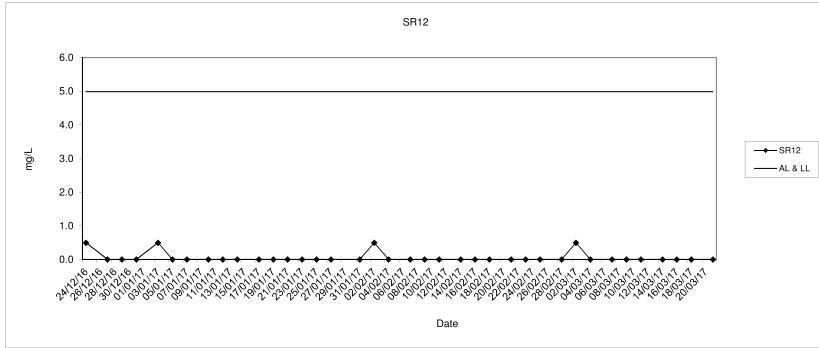
BOD<sub>5</sub> (Depth average) at Mid-Flood Tide



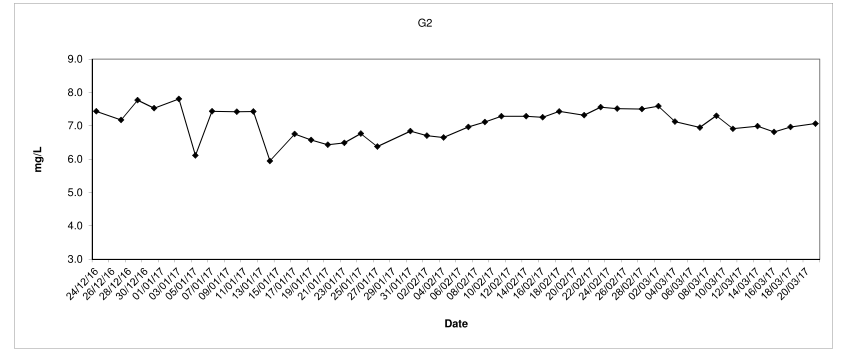
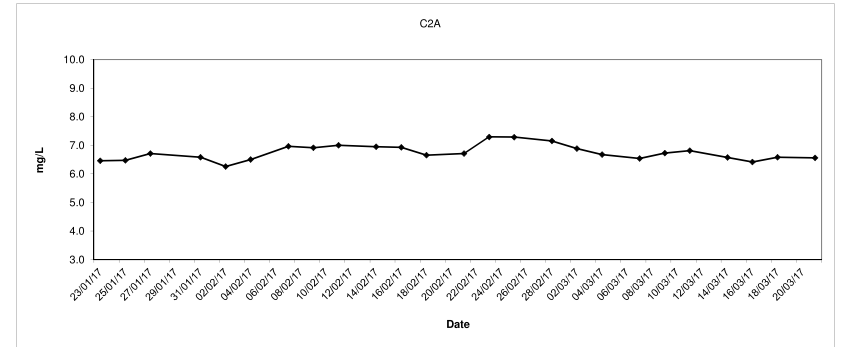
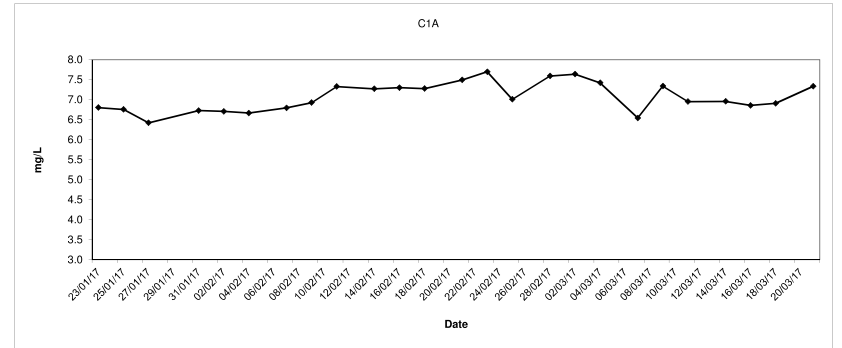
Synthetic Detergent (Depth average) at Mid-Flood Tide



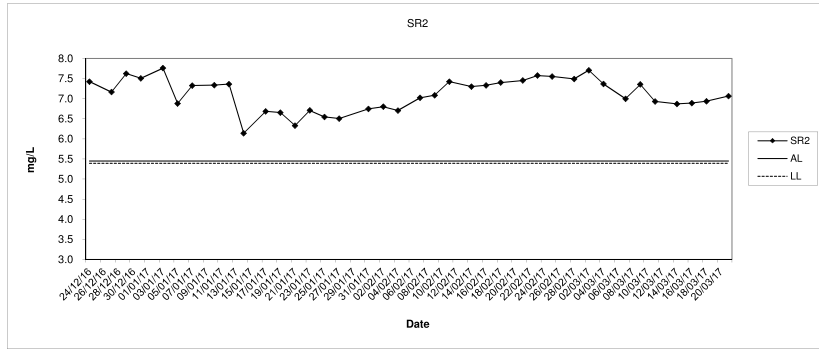
Synthetic Detergent (Depth average) at Mid-Flood Tide



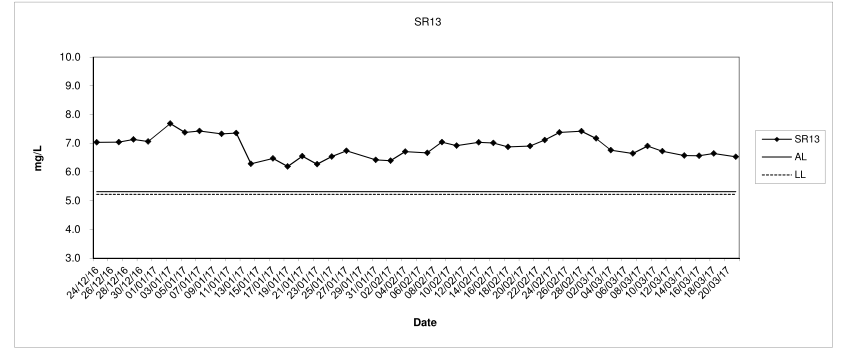
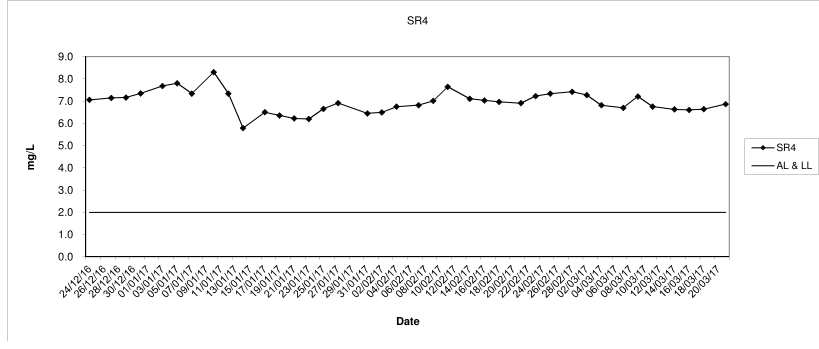
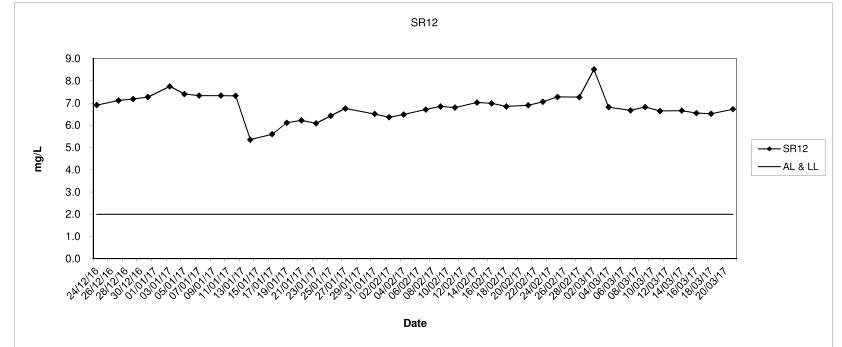
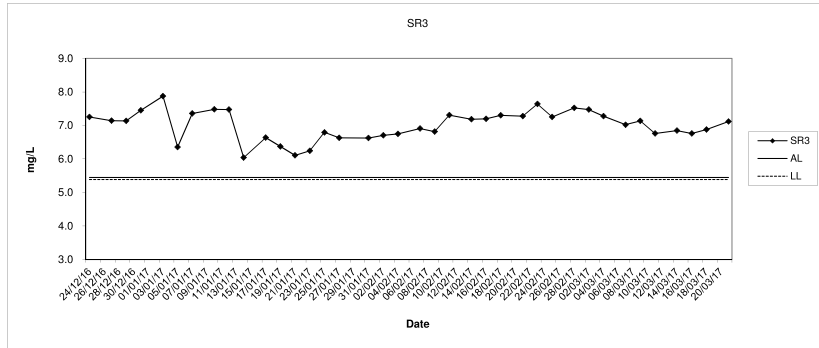
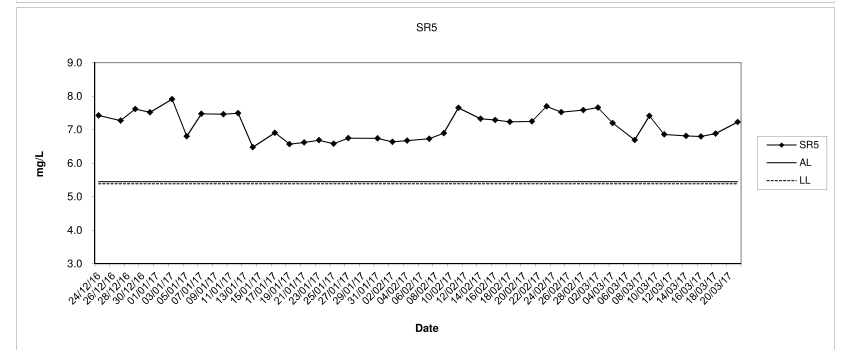
Dissolved Oxygen (Surface and Middle) at Mid-Flood Tide



Dissolved Oxygen (Surface and Middle) at Mid-Flood Tide

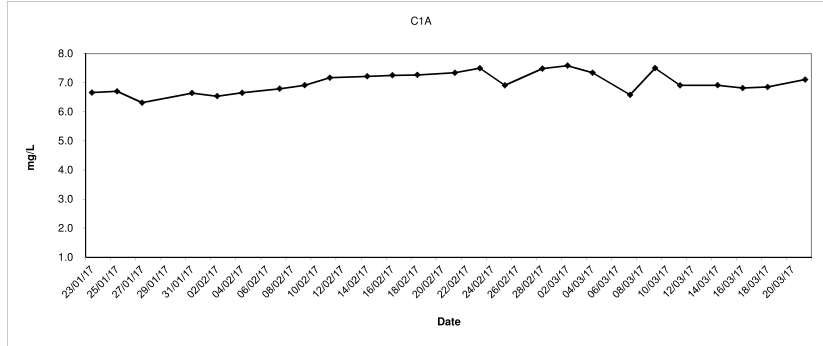


Dissolved Oxygen (Surface and Middle) at Mid-Flood Tide

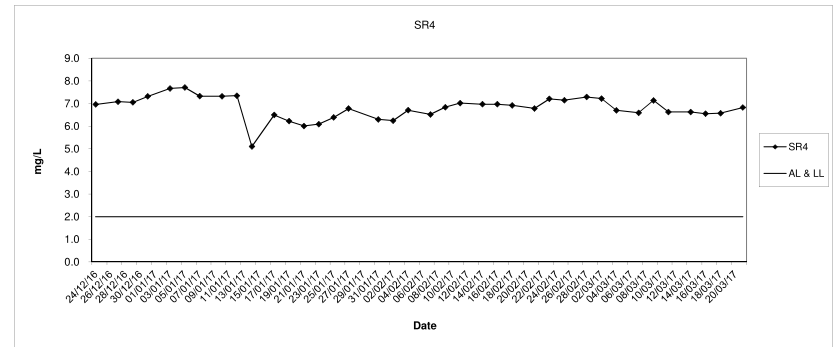
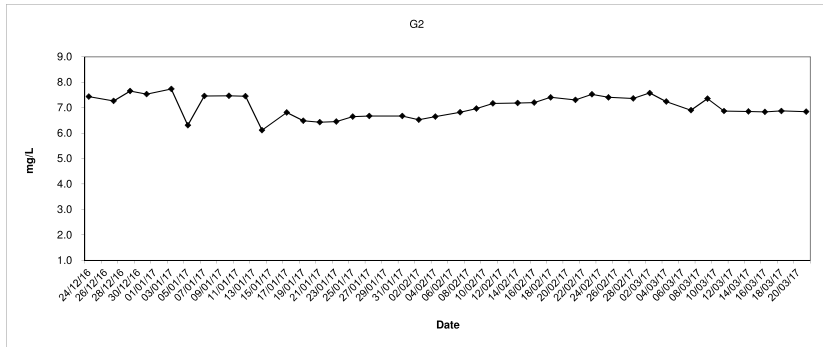
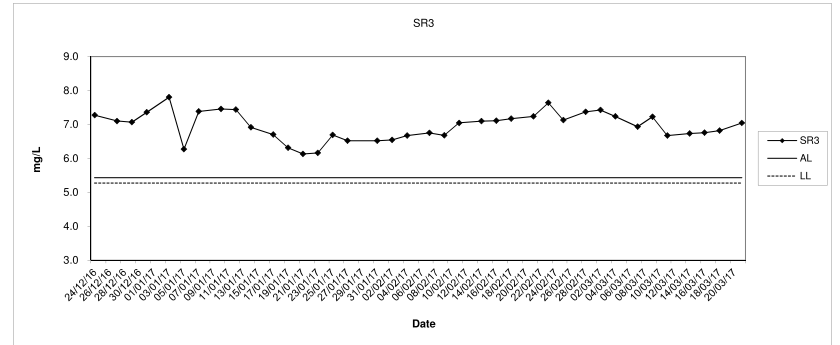
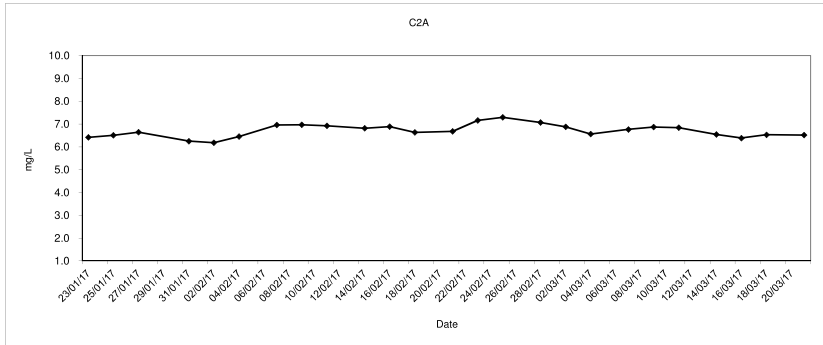
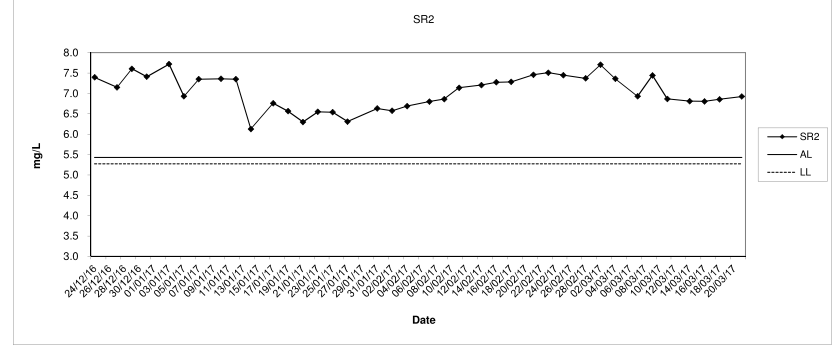




Dissolved Oxygen (Bottom) at Mid-Flood Tide

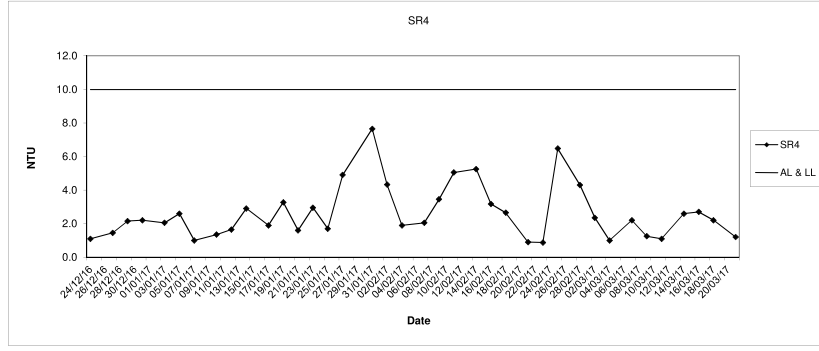
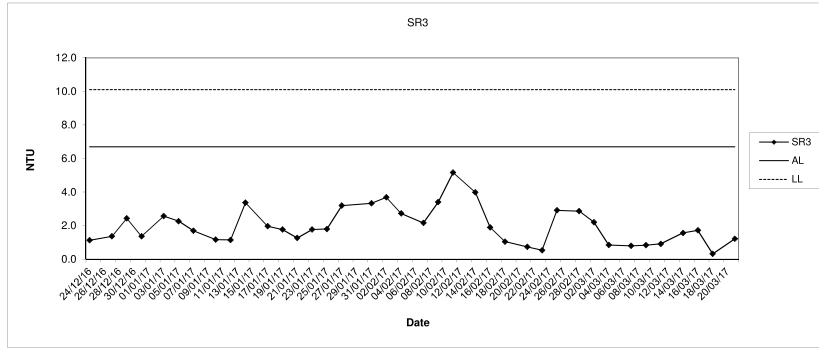
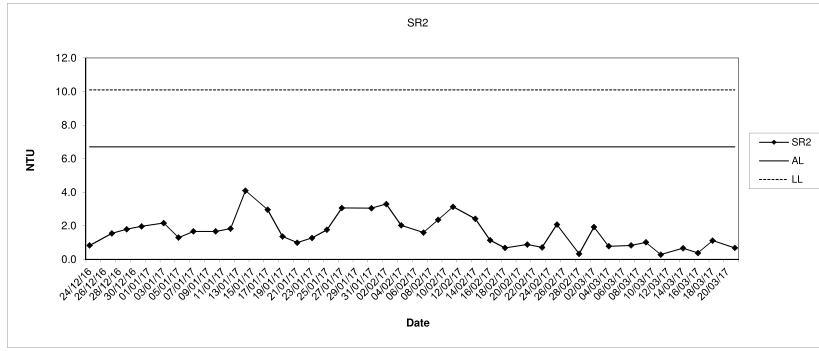


Dissolved Oxygen (Bottom) at Mid-Flood Tide

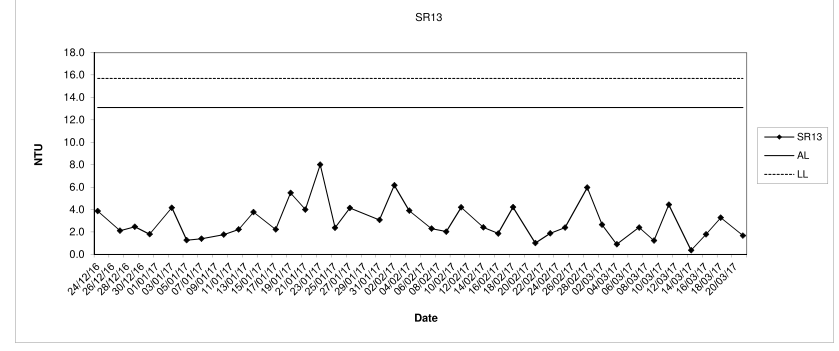
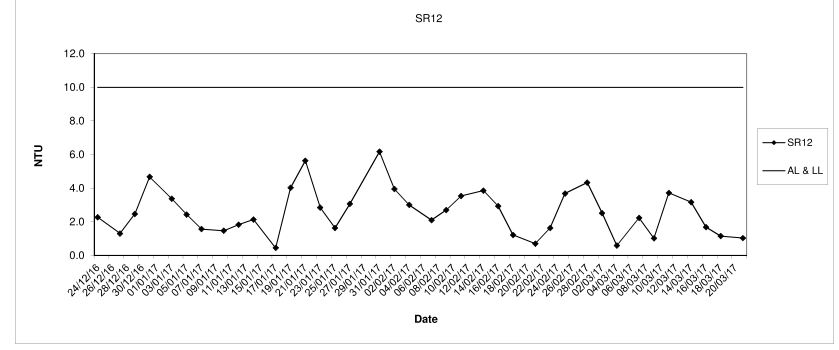
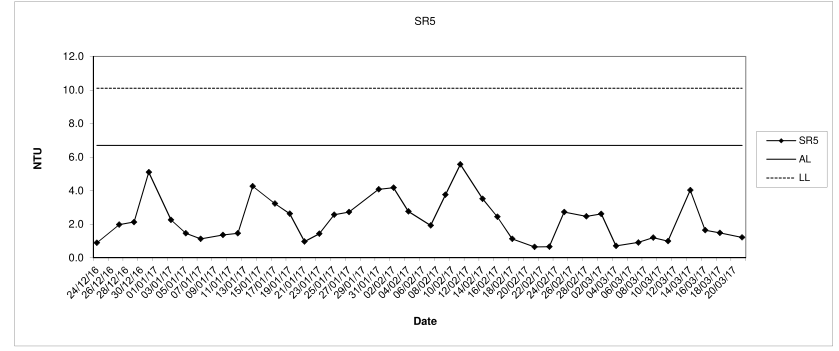




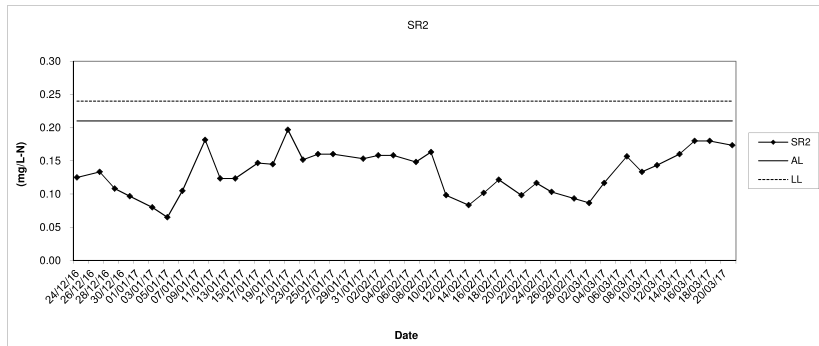
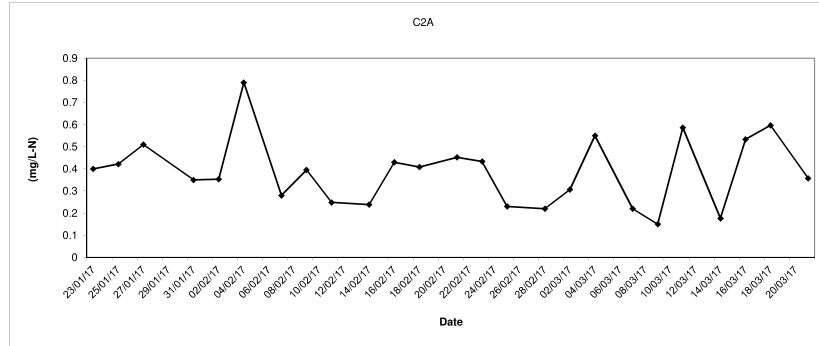
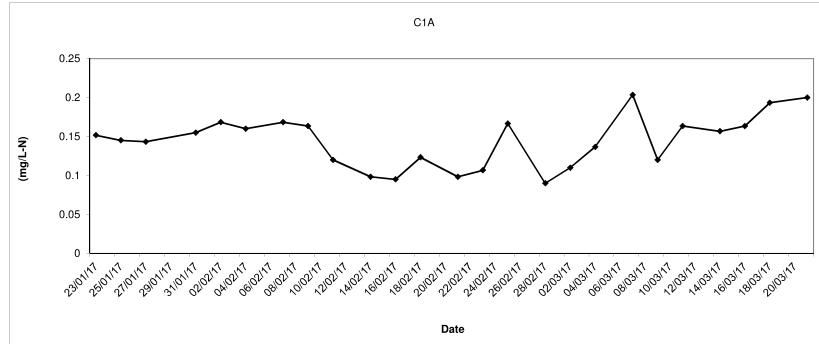
Turbidity (Depth average) at Mid-Flood Tide



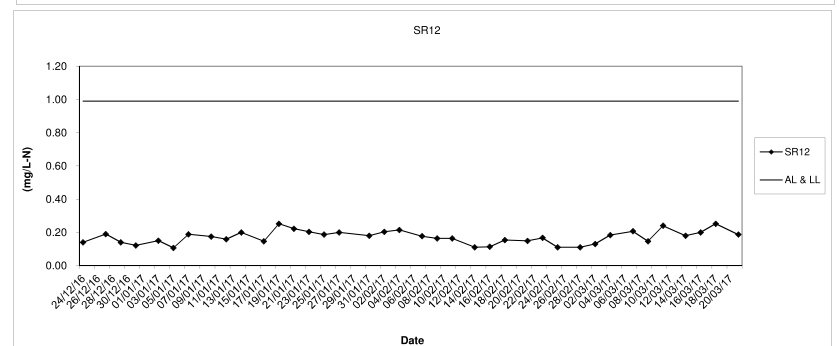
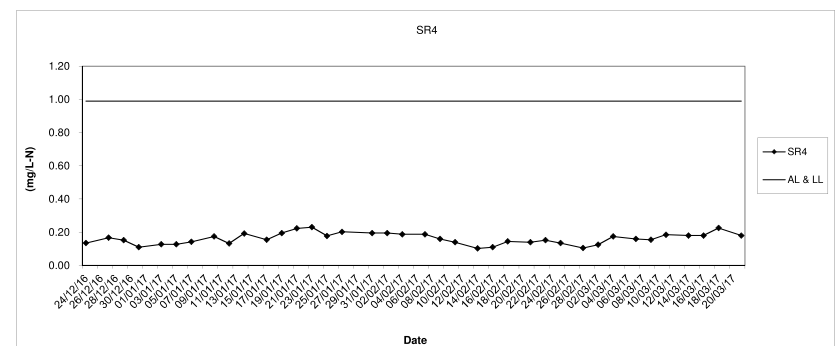
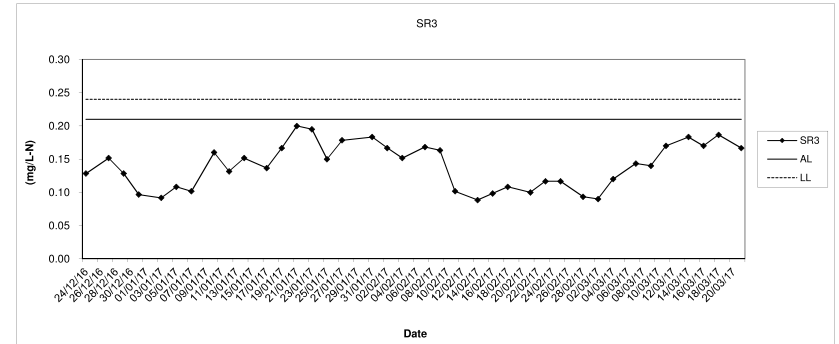
Turbidity (Depth average) at Mid-Flood Tide



In-situ Ammonia (Depth average) at Mid-Flood Tide

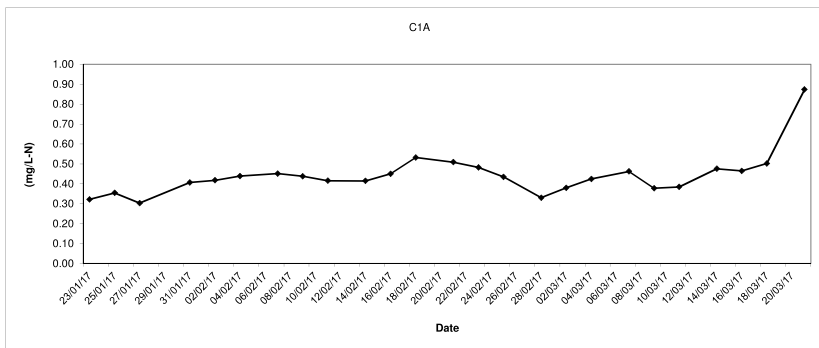


In-situ Ammonia (Depth average) at Mid-Flood Tide

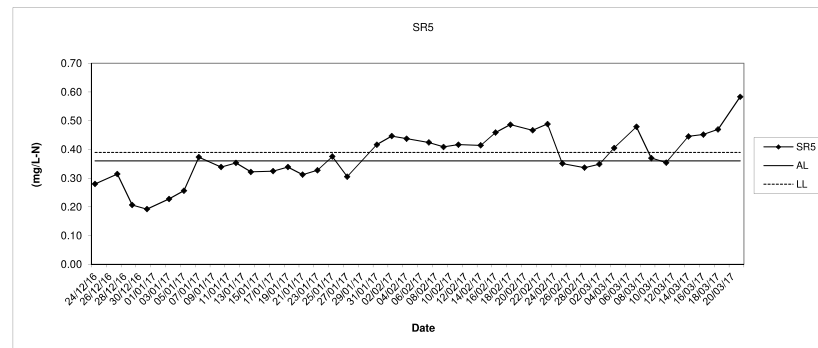




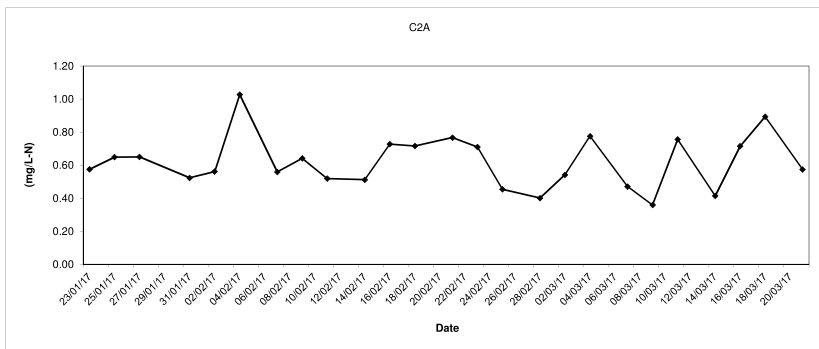
In-situ TIN (Depth average) at Mid-Flood Tide



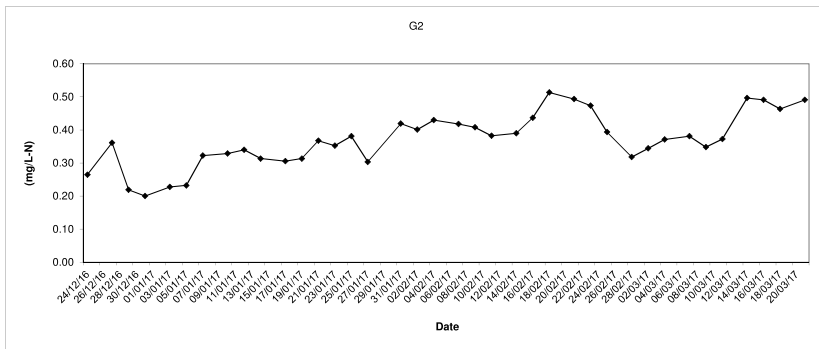
In-situ TIN (Depth average) at Mid-Flood Tide



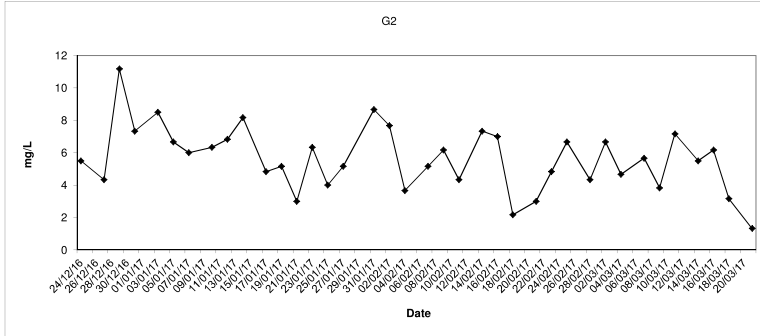
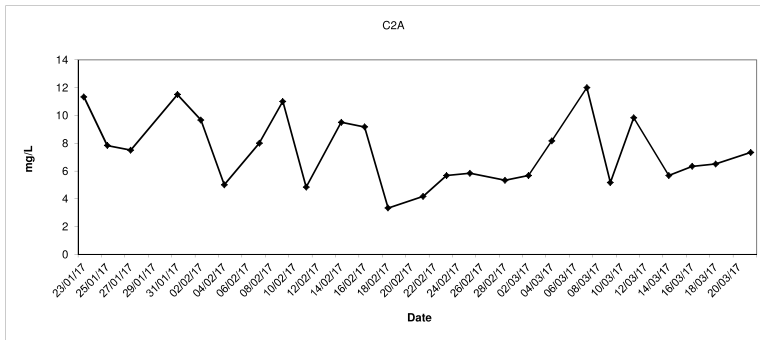
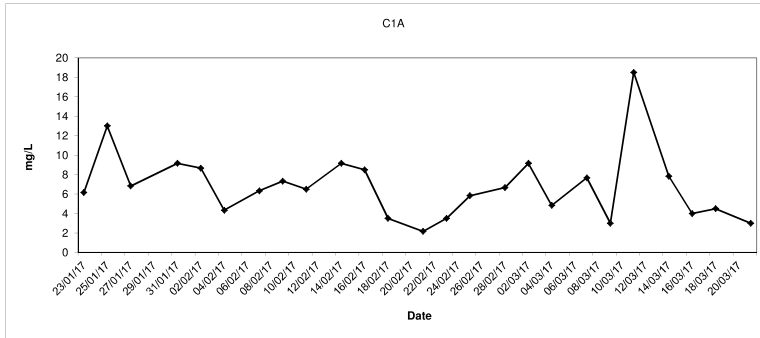
C2A



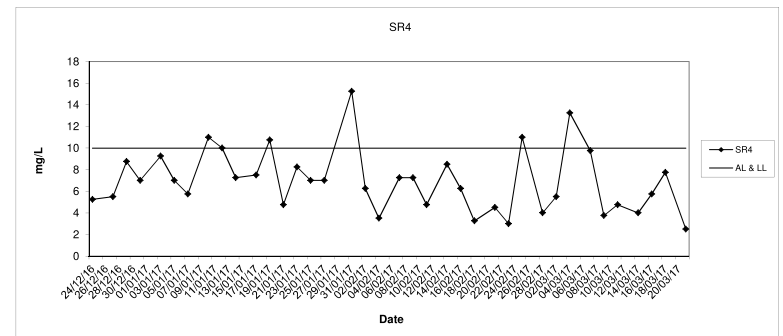
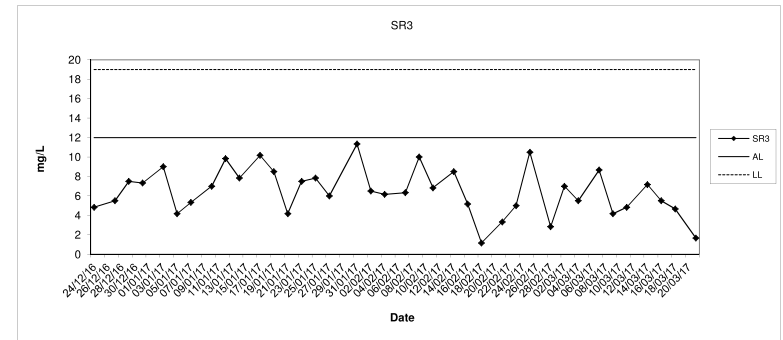
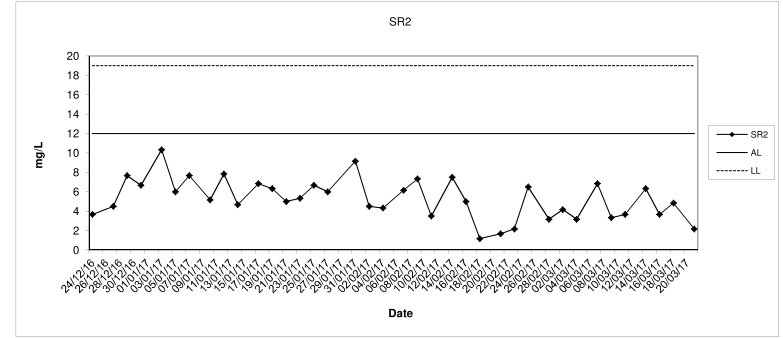
G2



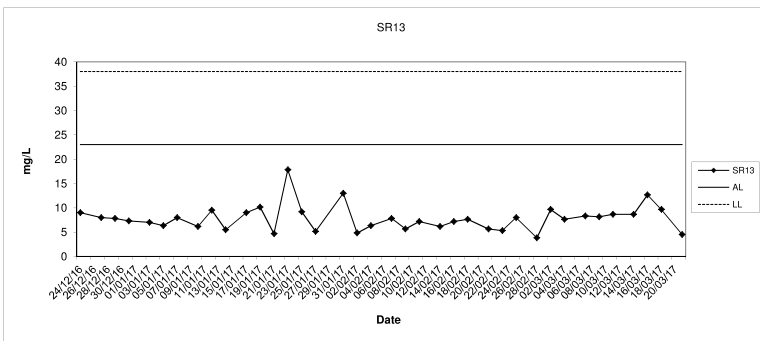
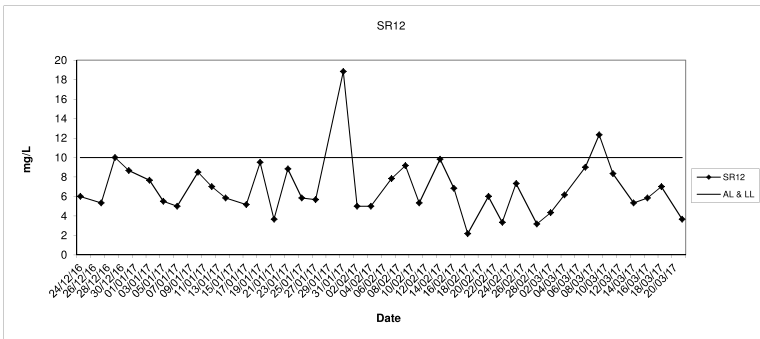
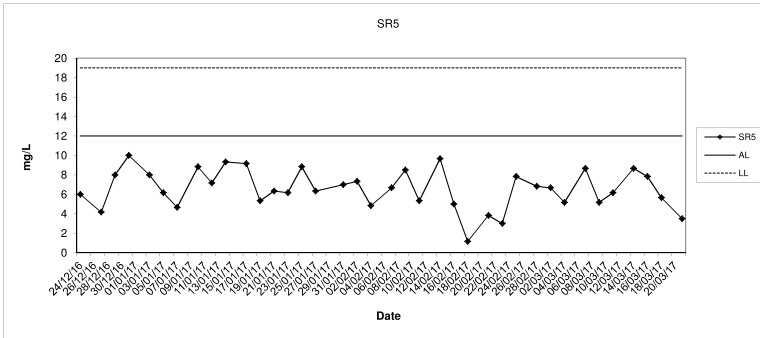
Total Suspended Solids (Depth average) at Mid-Ebb Tide



Total Suspended Solids (Depth average) at Mid-Ebb Tide

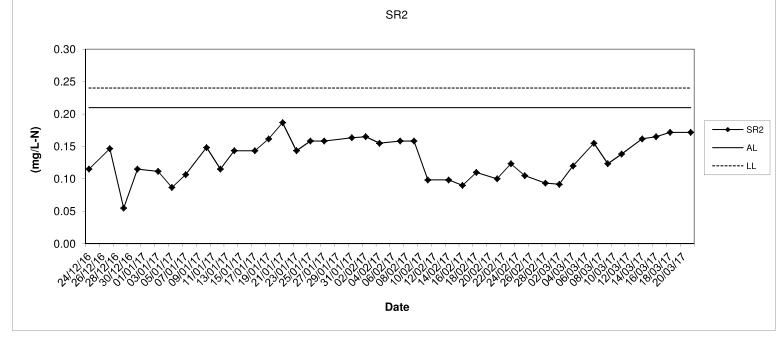
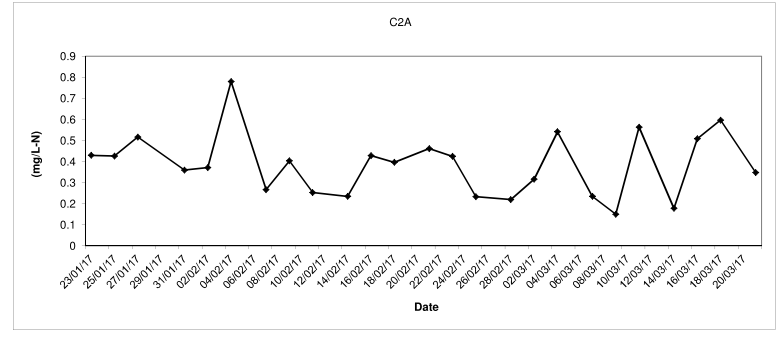
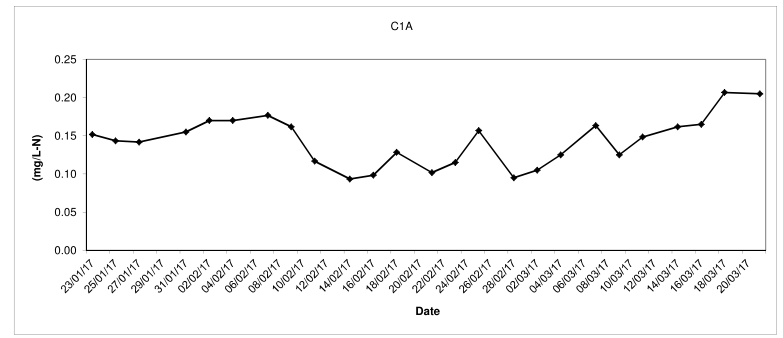


Total Suspended Solids (Depth average) at Mid-Ebb Tide



Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel

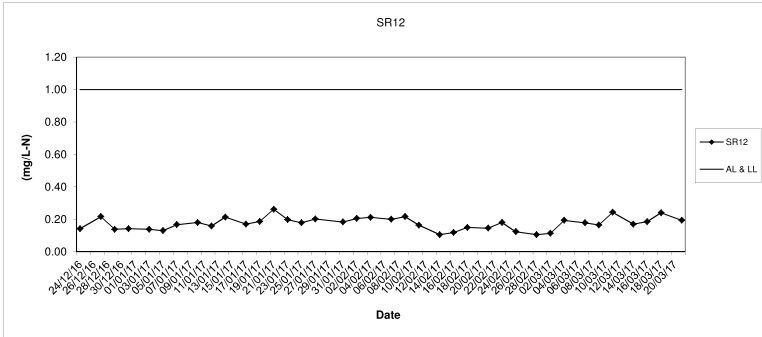
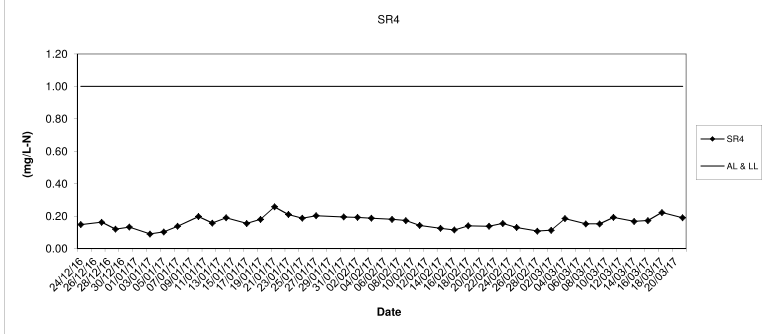
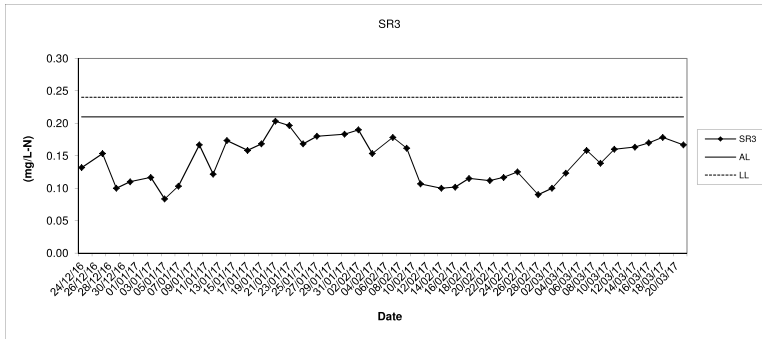
Ammonia Nitrogen (Depth average) at Mid-Ebb Tide



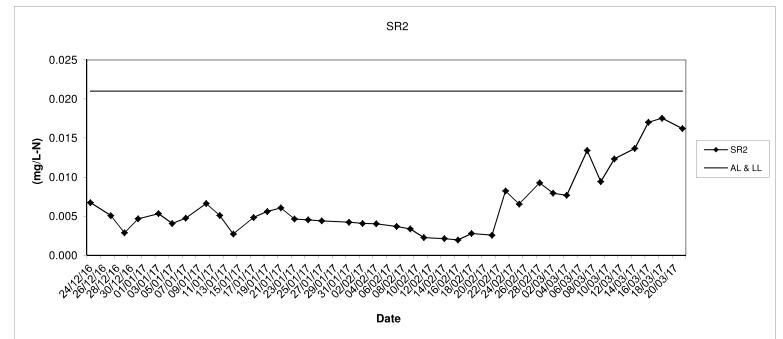
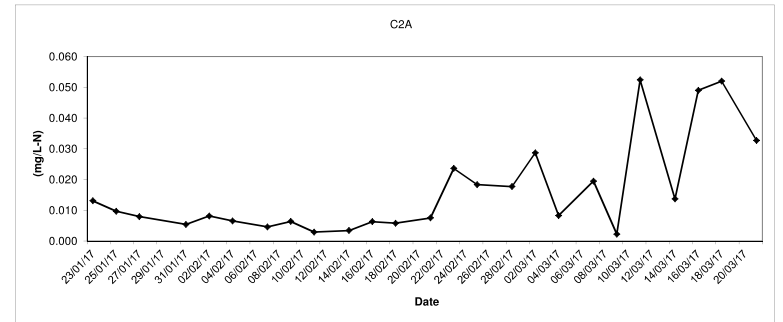
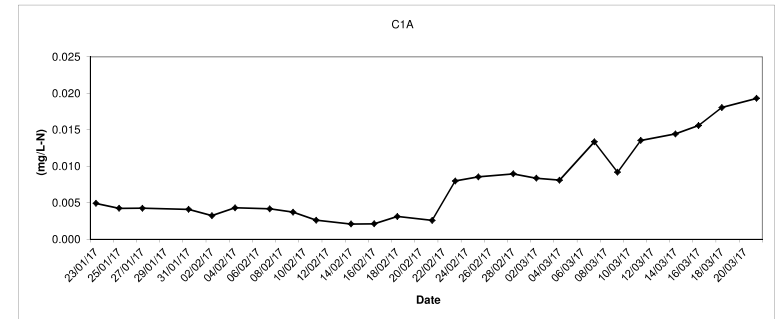
Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel



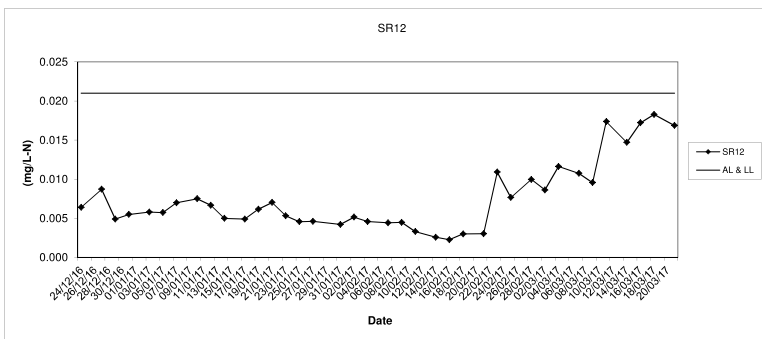
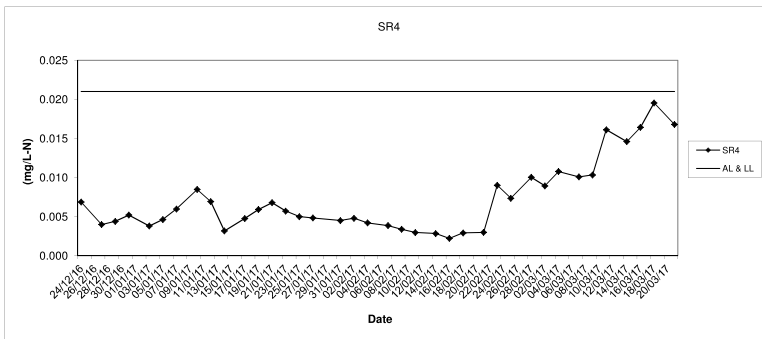
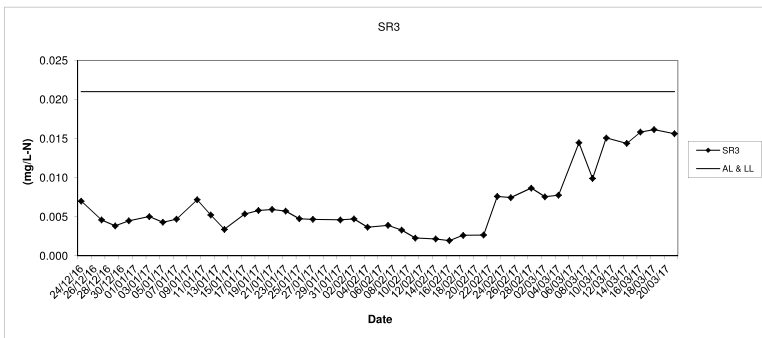
Ammonia Nitrogen (Depth average) at Mid-Ebb Tide



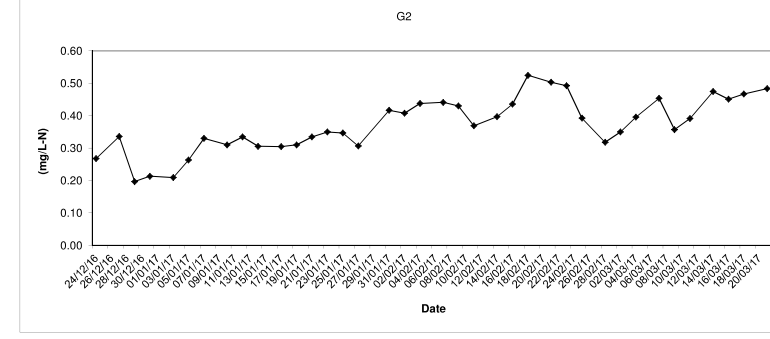
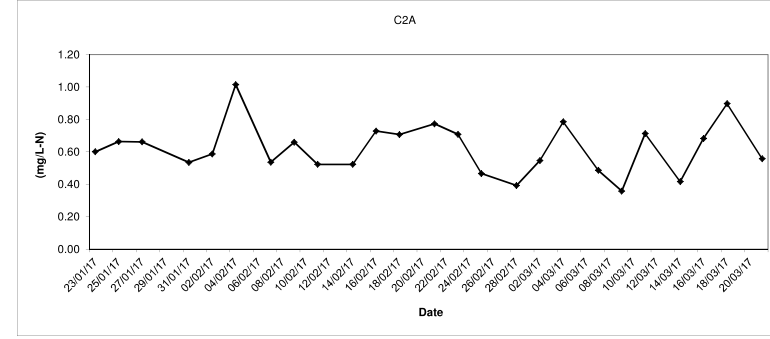
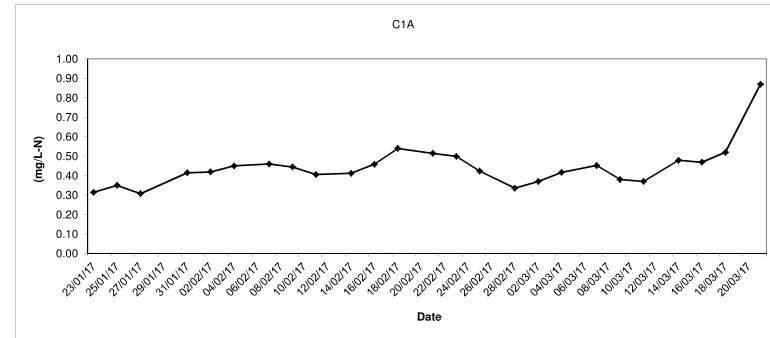
Laboratory Analysis UIA (Depth average) at Mid-Ebb Tide



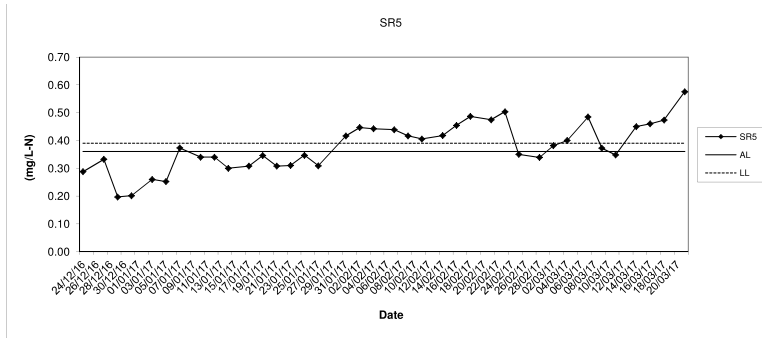
Laboratory Analysis UIA (Depth average) at Mid-Ebb Tide



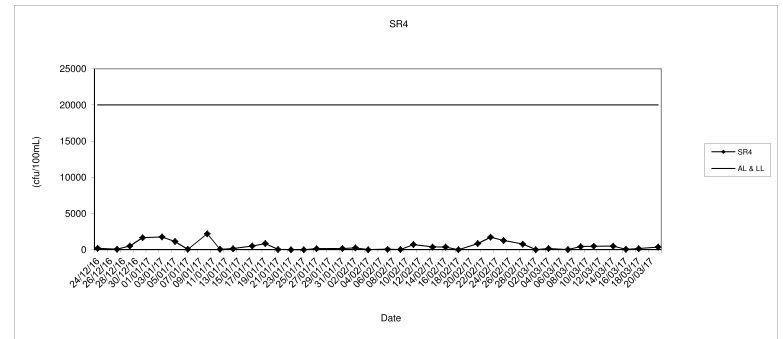
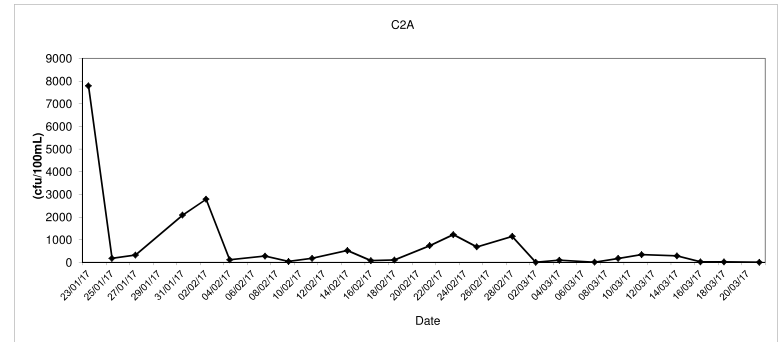
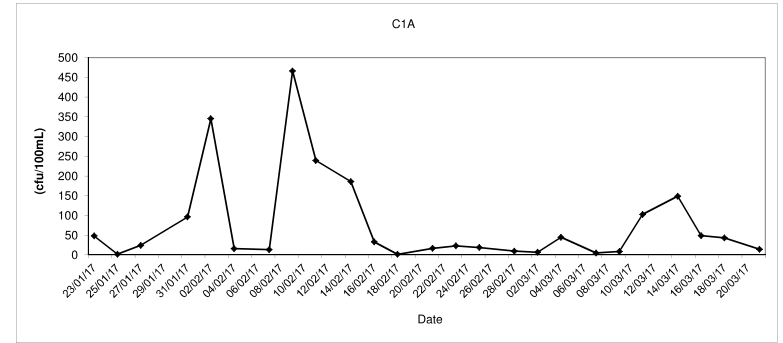
Laboratory Analysis TIN (Depth average) at Mid-Ebb Tide



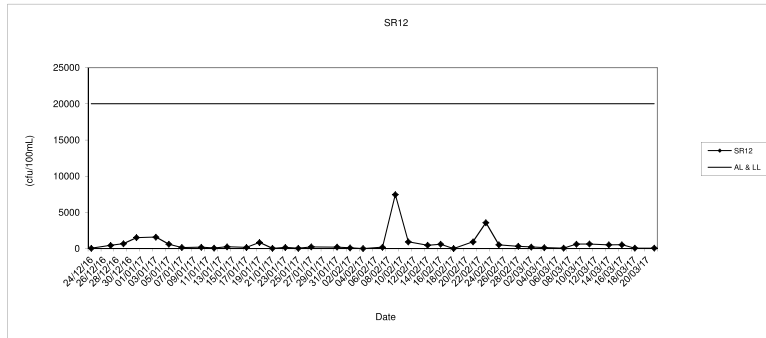
Laboratory Analysis TIN (Depth average) at Mid-Ebb Tide



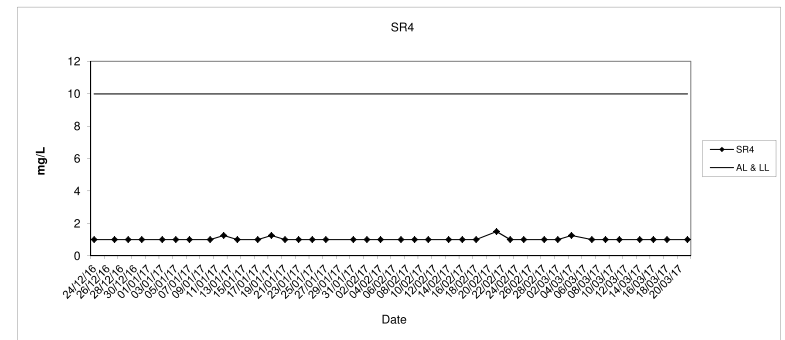
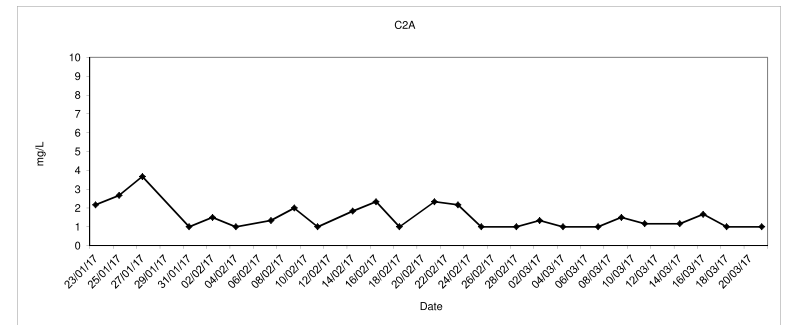
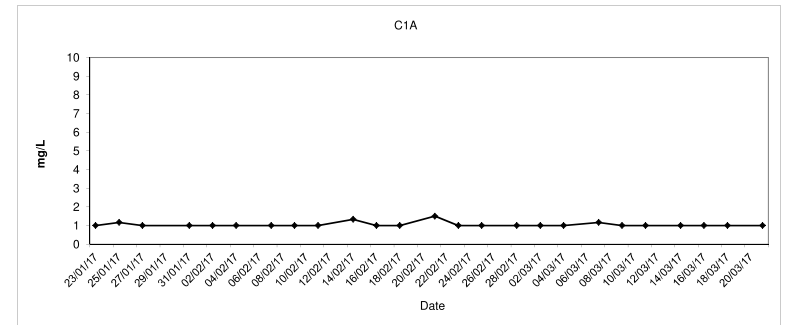
E.coli (Depth average) at Mid-Ebb Tide



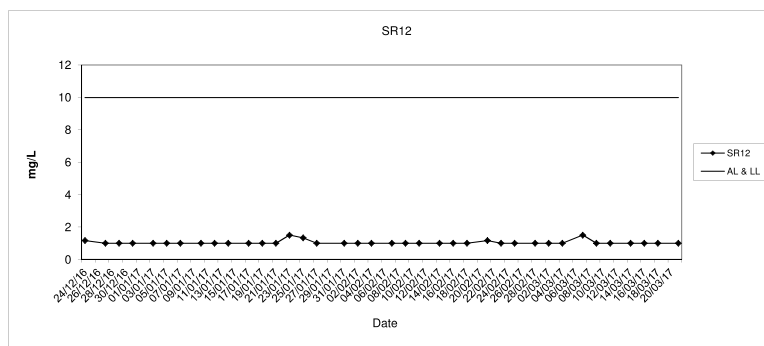
E.coli (Depth average) at Mid-Ebb Tide



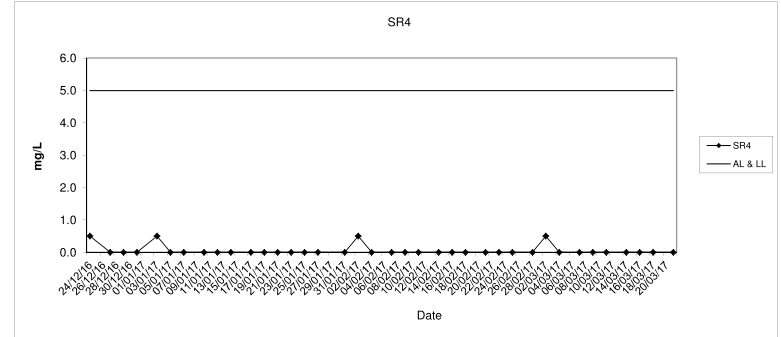
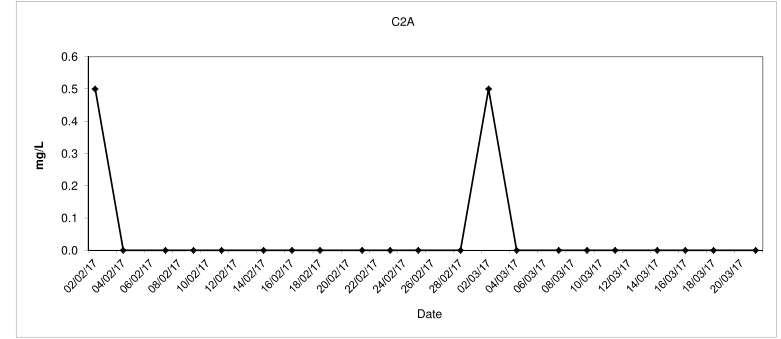
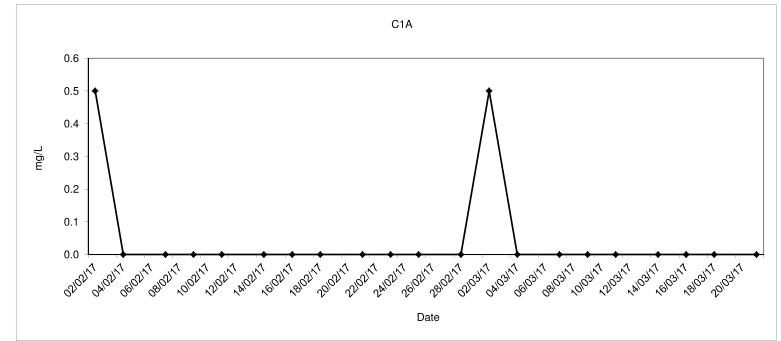
BOD<sub>5</sub> (Depth average) at Mid-Ebb Tide



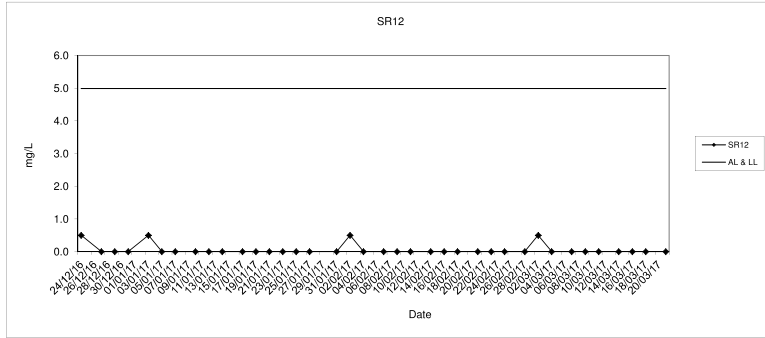
BOD<sub>5</sub> (Depth average) at Mid-Ebb Tide



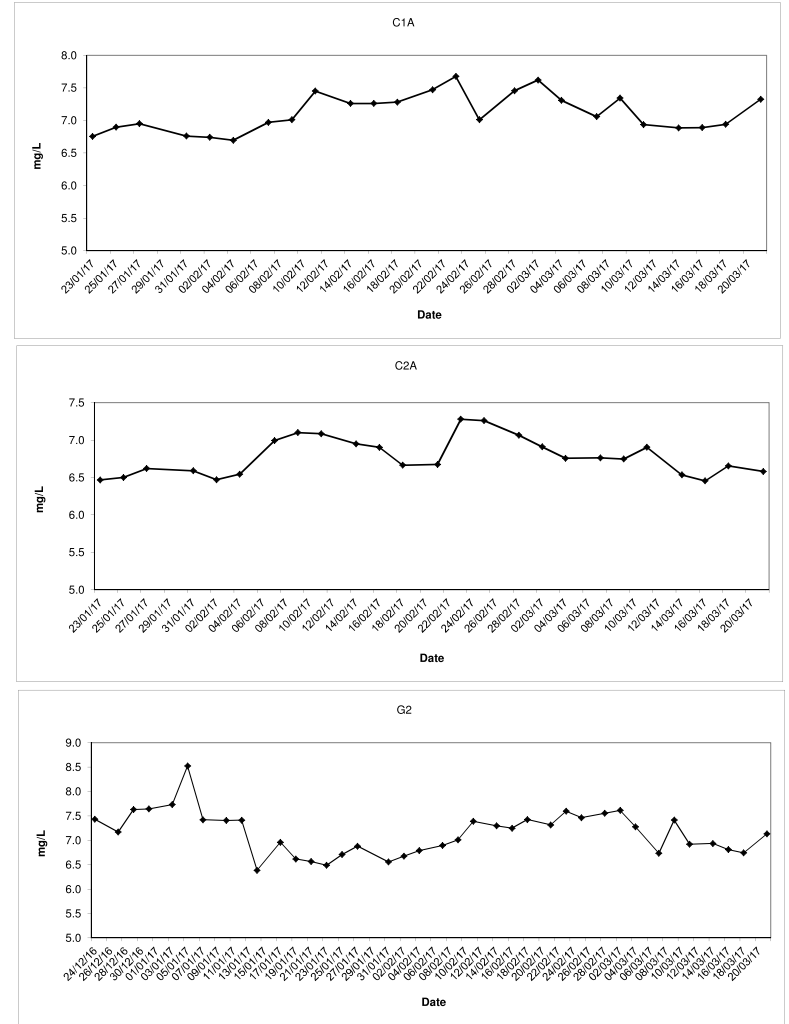
Synthetic Detergent (Depth average) at Mid-Ebb Tide



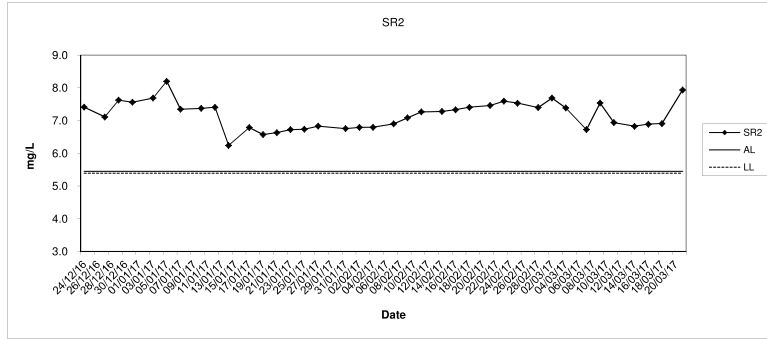
Synthetic Detergent (Depth average) at Mid-Ebb Tide



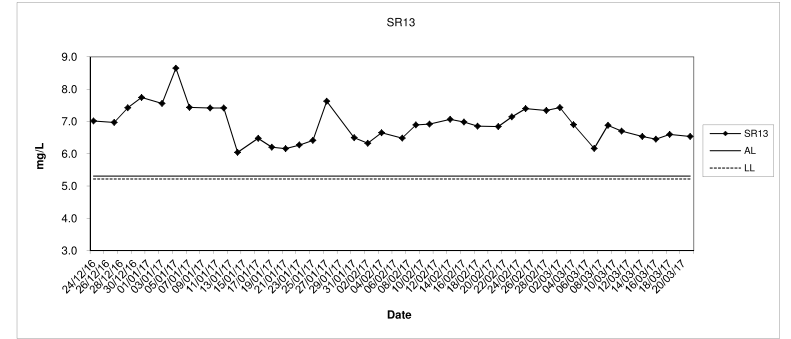
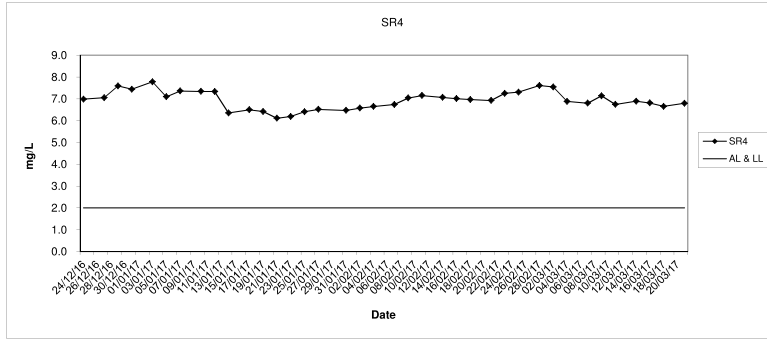
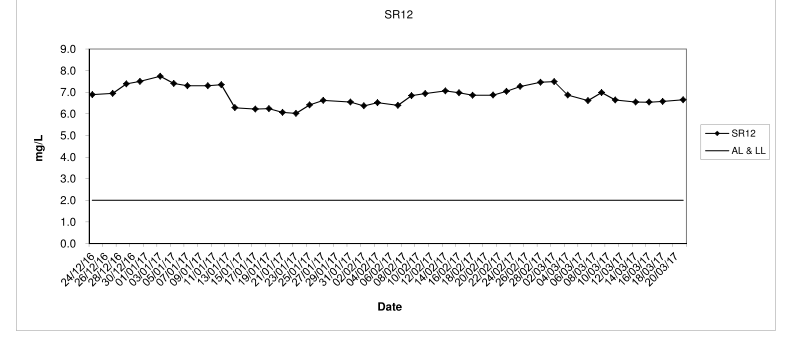
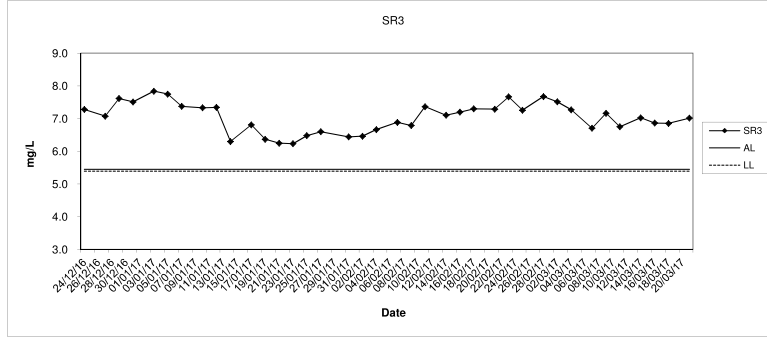
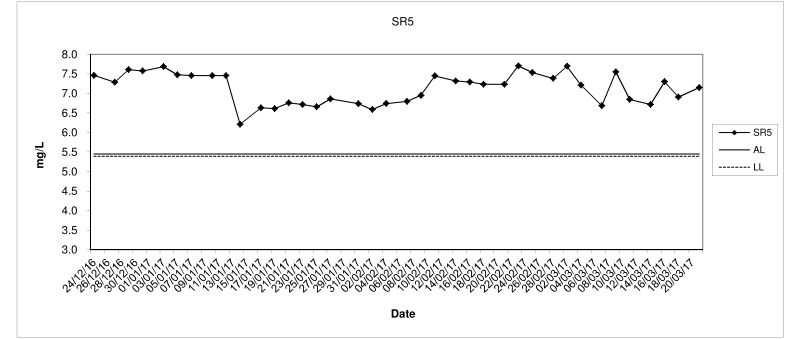
Dissolved Oxygen (Surface and Middle) at Mid-Ebb Tide



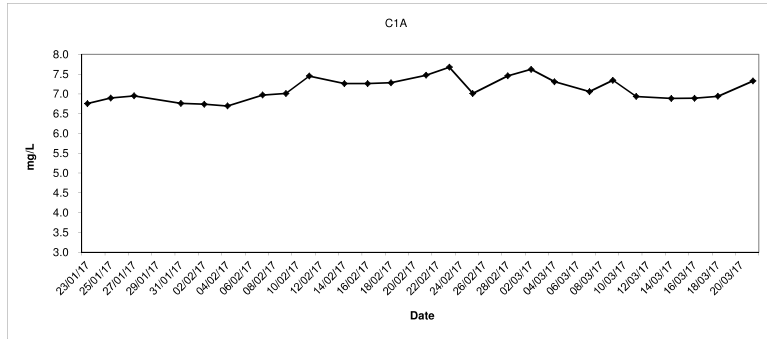
Dissolved Oxygen (Surface and Middle) at Mid-Ebb Tide



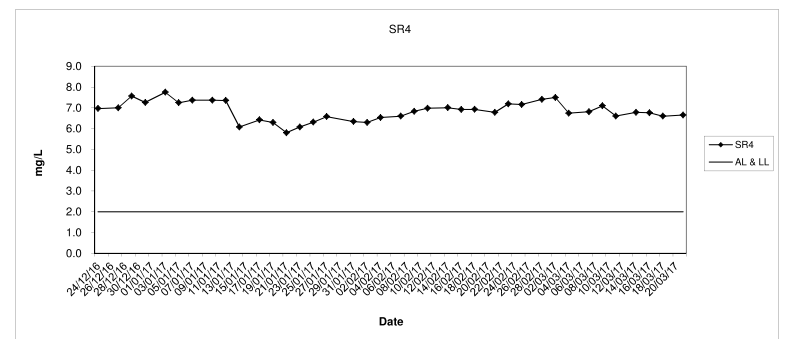
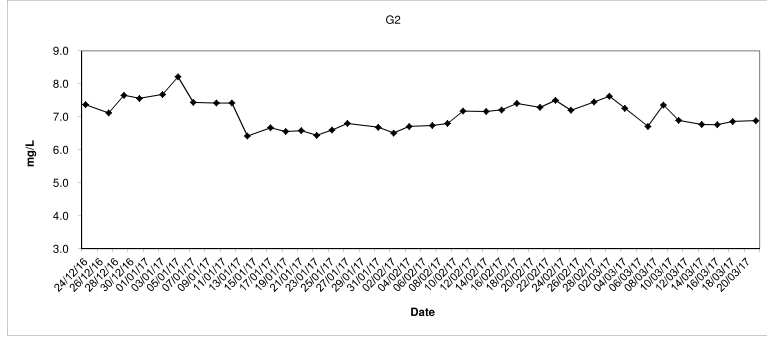
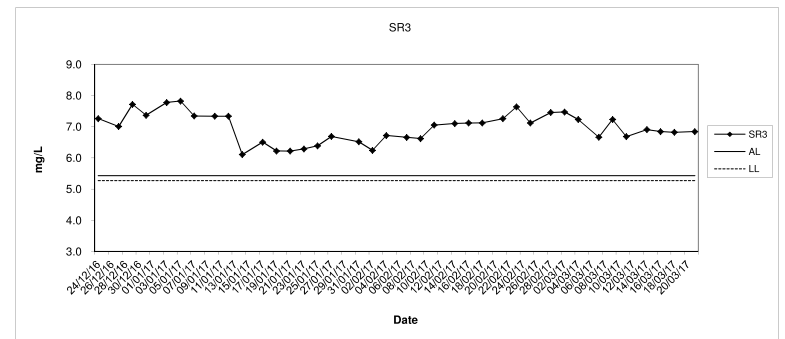
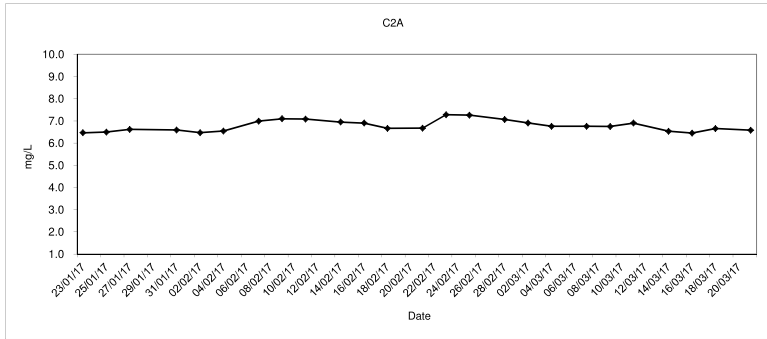
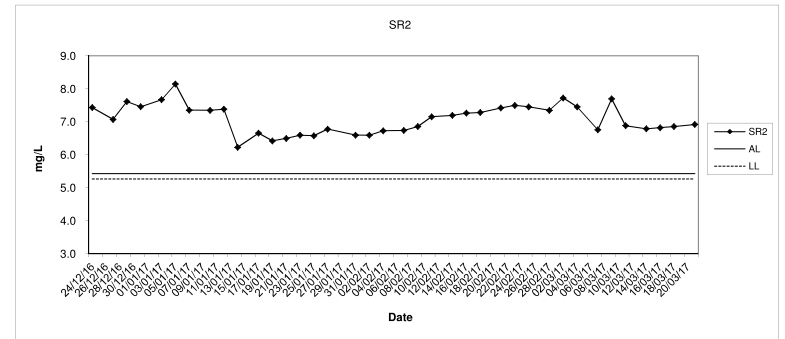
Dissolved Oxygen (Surface and Middle) at Mid-Ebb Tide



Dissolved Oxygen (Bottom) at Mid-Ebb Tide

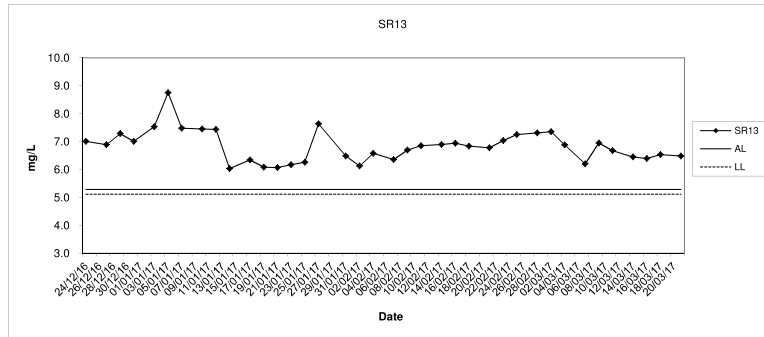
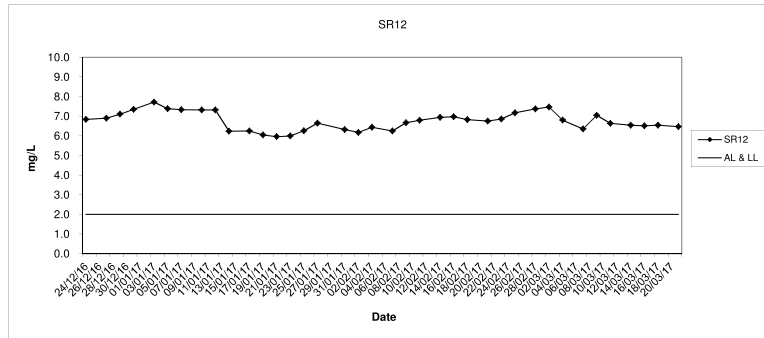
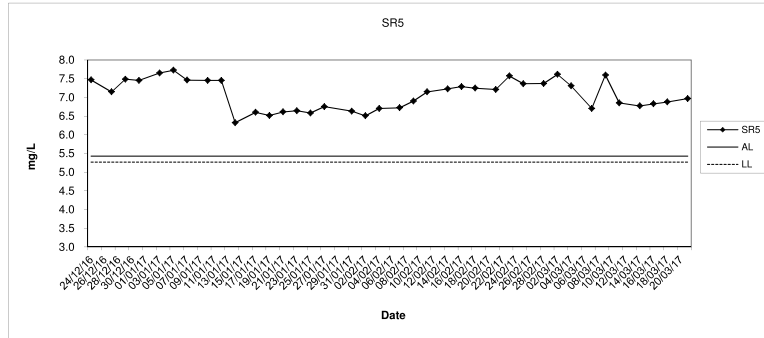


Dissolved Oxygen (Bottom) at Mid-Ebb Tide

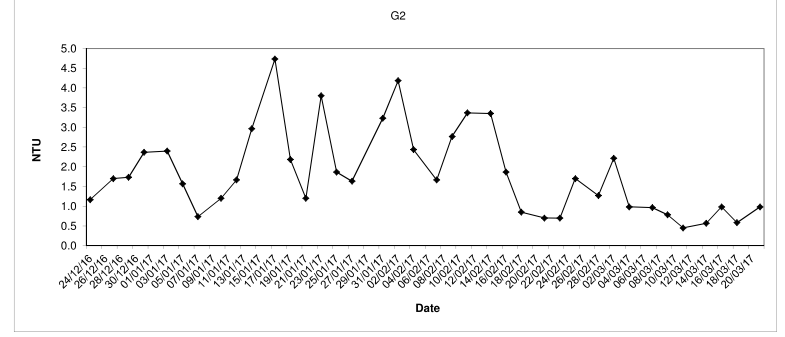
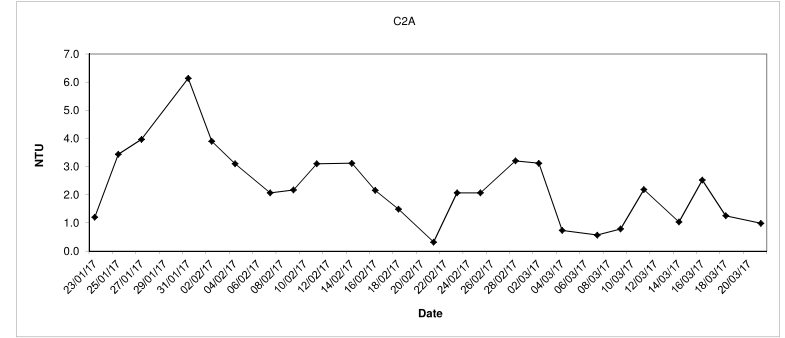
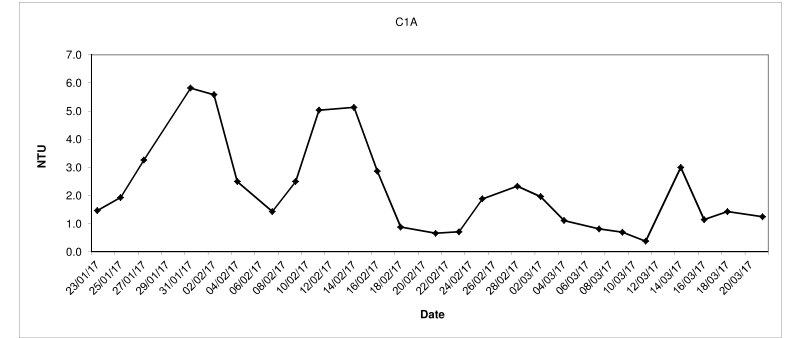




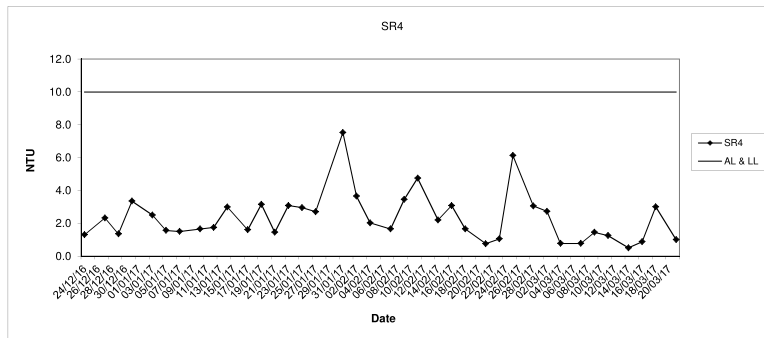
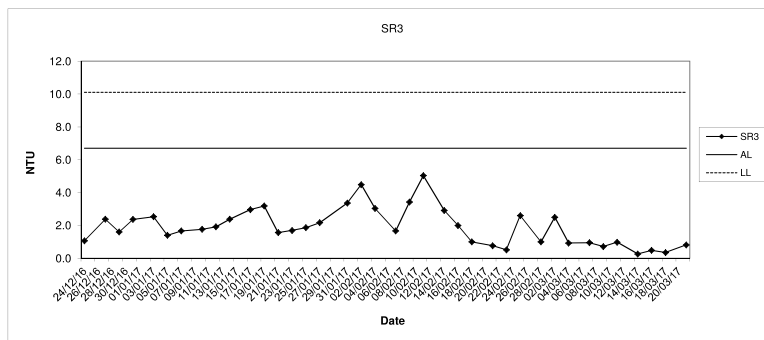
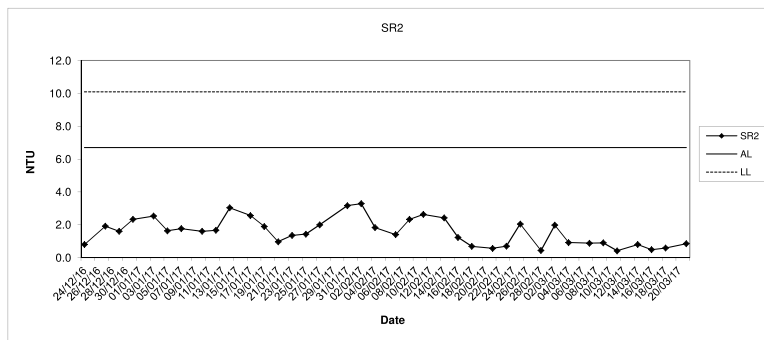
Dissolved Oxygen (Bottom) at Mid-Ebb Tide



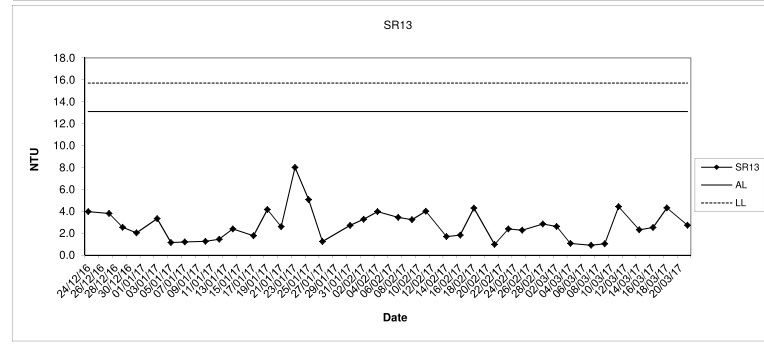
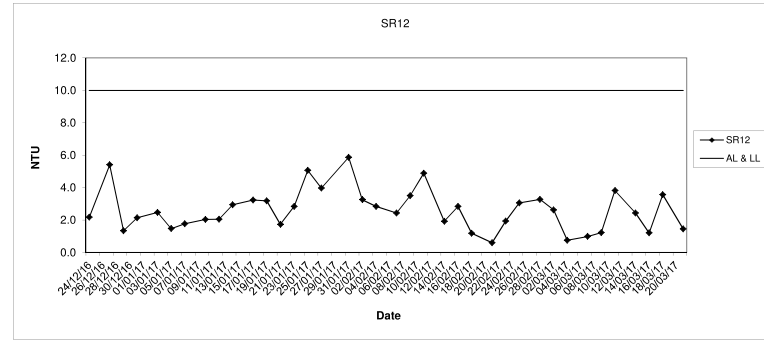
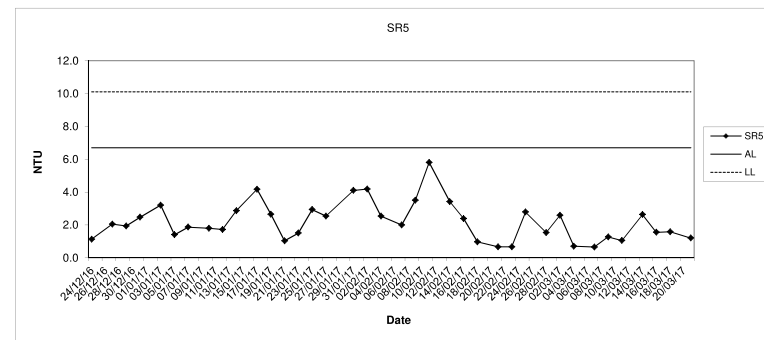
Turbidity (Depth average) at Mid-Ebb Tide



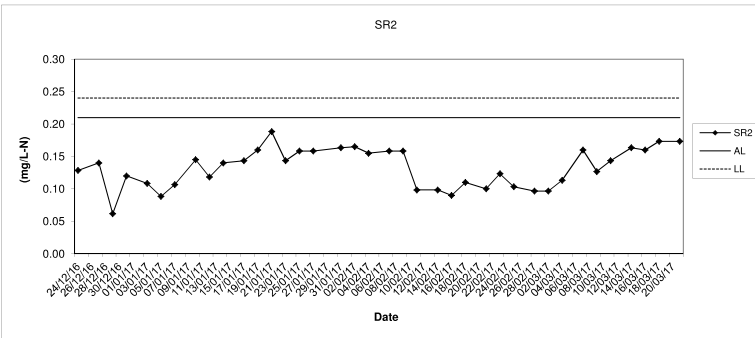
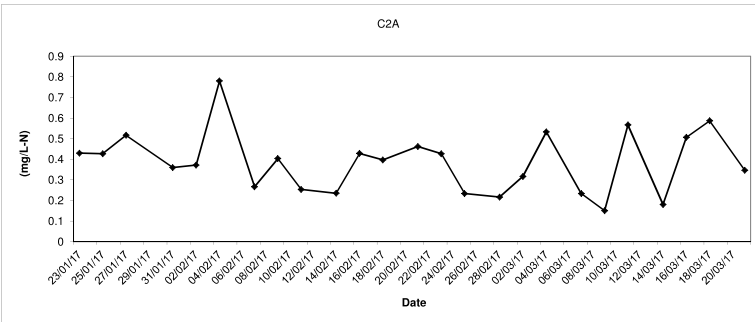
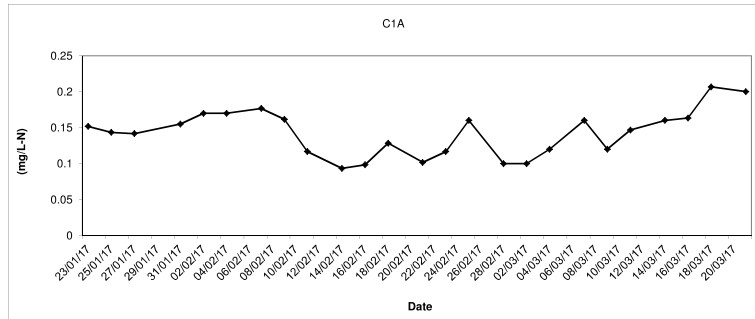
Turbidity (Depth average) at Mid-Ebb Tide



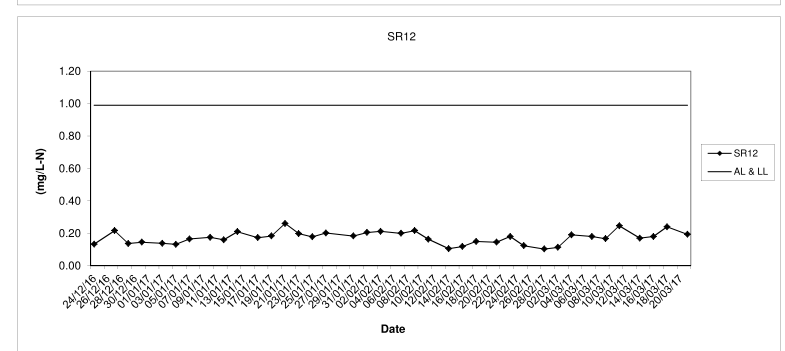
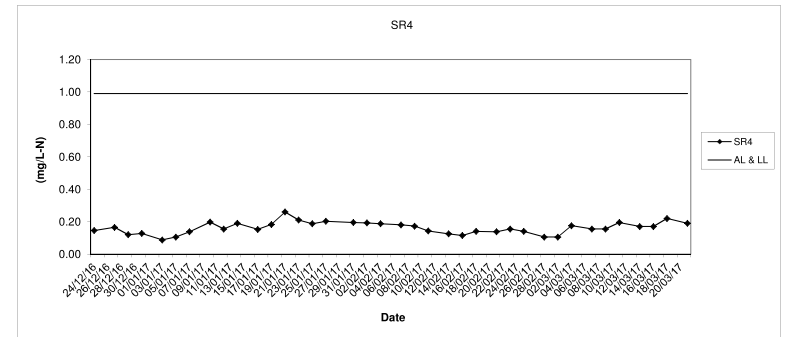
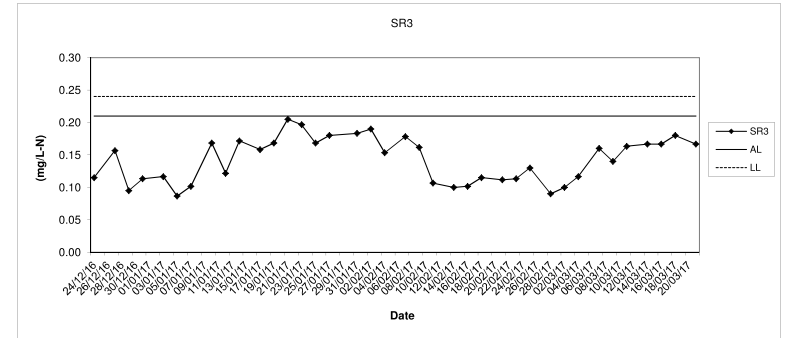
Turbidity (Depth average) at Mid-Ebb Tide



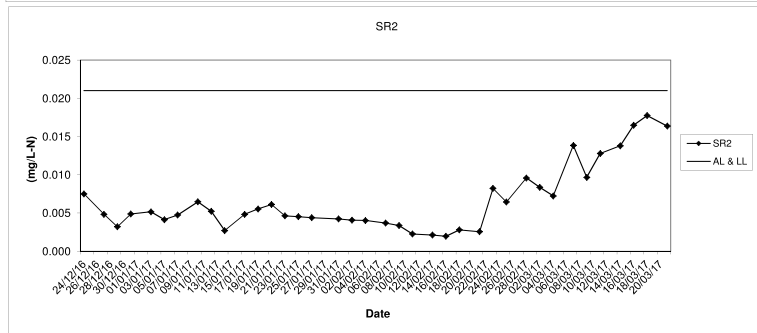
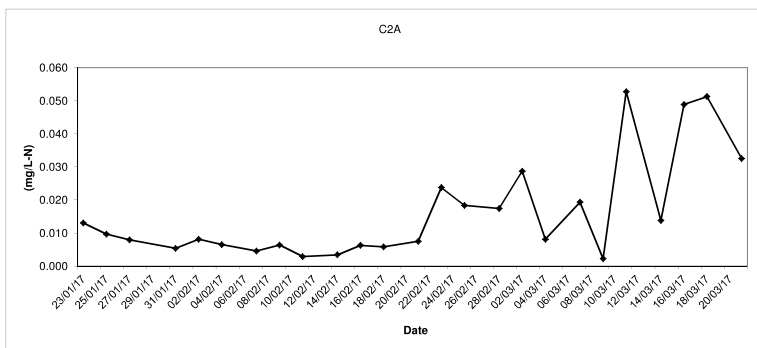
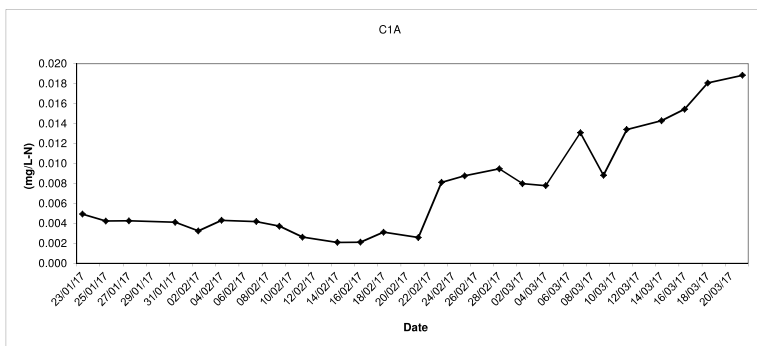
In-situ Ammonia (Depth average) at Mid-Ebb Tide



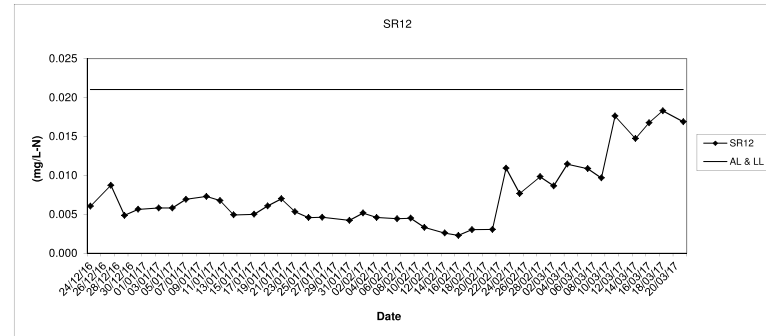
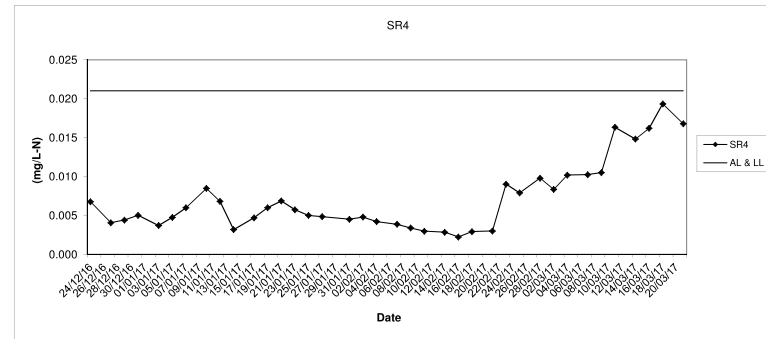
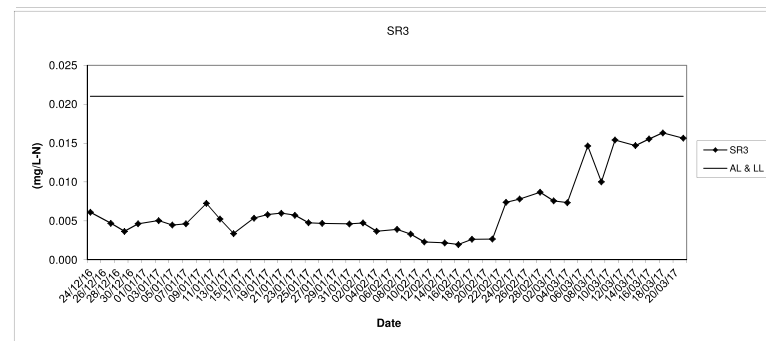
In-situ Ammonia (Depth average) at Mid-Ebb Tide



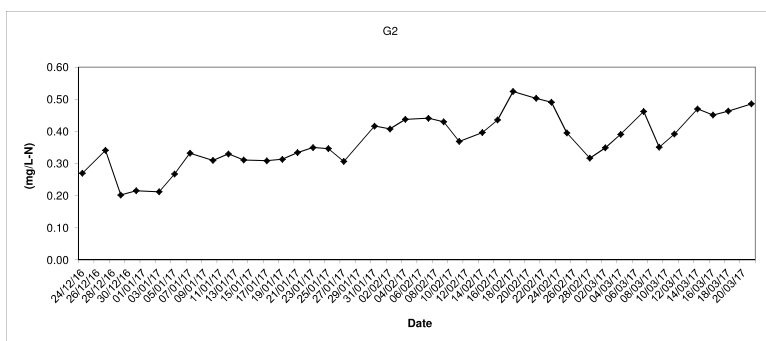
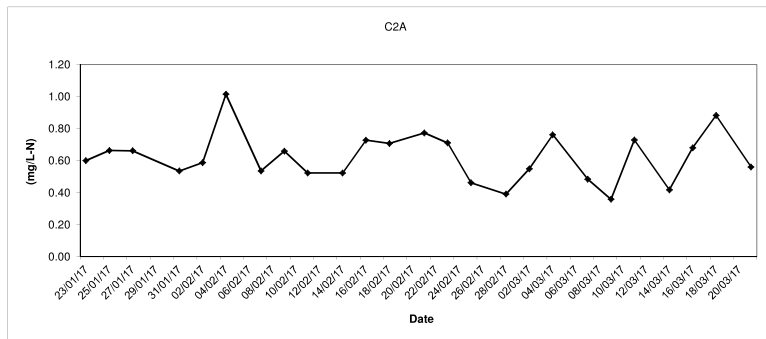
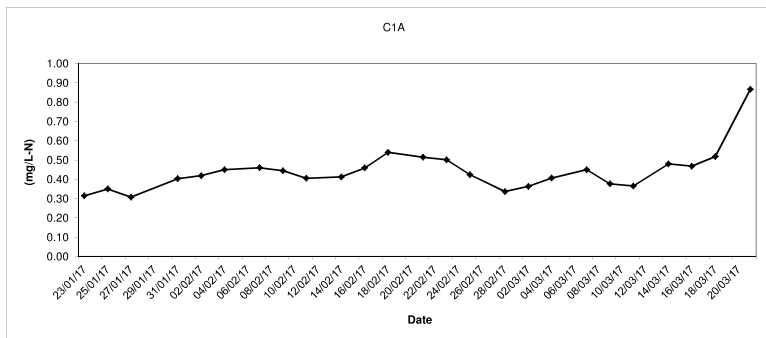
In-situ UIA (Depth average) at Mid-Ebb Tide



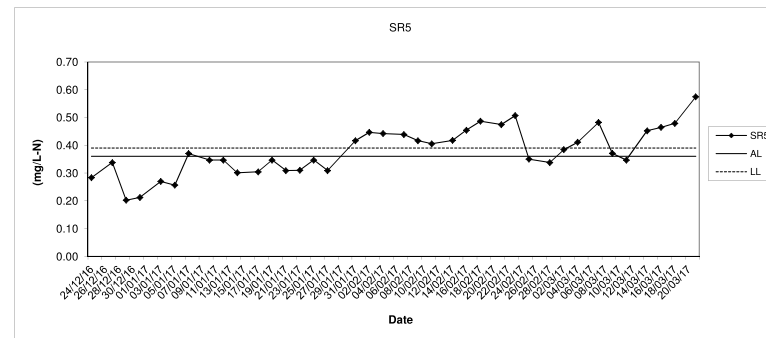
In-situ UIA (Depth average) at Mid-Ebb Tide



In-situ TIN (Depth average) at Mid-Ebb Tide



In-situ TIN (Depth average) at Mid-Ebb Tide



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**MaterialLab**

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Report No.: 0394/13/ED/0356A

Appendix G

Water Quality Monitoring Results and Graphical Presentation – 24-hr Monitoring











24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	2/23/2017 0:17	0.15				SR12	2/23/2017 0:17	0.15			
SR4	2/23/2017 0:37	0.14				SR12	2/23/2017 0:37	0.14			
SR4	2/23/2017 0:57	0.15				SR12	2/23/2017 0:57	0.15			
SR4	2/23/2017 1:17	0.16				SR12	2/23/2017 1:17	0.16			
SR4	2/23/2017 1:37	0.15				SR12	2/23/2017 1:37	0.16			
SR4	2/23/2017 1:57	0.14				SR12	2/23/2017 1:57	0.18			
SR4	2/23/2017 2:17	0.15				SR12	2/23/2017 2:17	0.17			
SR4	2/23/2017 2:37	0.13				SR12	2/23/2017 2:37	0.16			
SR4	2/23/2017 2:57	0.16				SR12	2/23/2017 2:57	0.16			
SR4	2/23/2017 3:17	0.16				SR12	2/23/2017 3:17	0.17			
SR4	2/23/2017 3:37	0.15				SR12	2/23/2017 3:37	0.16			
SR4	2/23/2017 3:57	0.14				SR12	2/23/2017 3:57	0.17			
SR4	2/23/2017 4:17	0.16				SR12	2/23/2017 4:17	0.17			
SR4	2/23/2017 4:37	0.15				SR12	2/23/2017 4:37	0.19			
SR4	2/23/2017 4:57	0.15				SR12	2/23/2017 4:57	0.17			
SR4	2/23/2017 5:17	0.13				SR12	2/23/2017 5:17	0.16			
SR4	2/23/2017 5:37	0.13				SR12	2/23/2017 5:37	0.16			
SR4	2/23/2017 5:57	0.13				SR12	2/23/2017 5:57	0.16			
SR4						SR12					
SR4	2/23/2017 6:37	0.14				SR12	2/23/2017 6:37	0.16			
SR4	2/23/2017 6:57	0.16				SR12	2/23/2017 6:57	0.16			
SR4	2/23/2017 7:17	0.13				SR12	2/23/2017 7:17	0.18			
SR4	2/23/2017 7:37	0.13				SR12	2/23/2017 7:37	0.18			
SR4	2/23/2017 7:57	0.15				SR12	2/23/2017 7:57	0.19			
SR4	2/23/2017 8:17	0.13				SR12	2/23/2017 8:17	0.17			
SR4	2/23/2017 8:37	0.16				SR12	2/23/2017 8:37	0.16			
SR4	2/23/2017 8:57	0.15				SR12	2/23/2017 8:57	0.17			
SR4	2/23/2017 9:17	0.16				SR12	2/23/2017 9:17	0.16			
SR4	2/23/2017 9:37	0.14				SR12	2/23/2017 9:37	0.19			
SR4	2/23/2017 9:57	0.15				SR12	2/23/2017 9:57	0.18			
SR4	2/23/2017 10:17	0.15				SR12	2/23/2017 10:17	0.16			
SR4	2/23/2017 10:37	0.15				SR12	2/23/2017 10:37	0.19			
SR4	2/23/2017 10:57	0.15				SR12	2/23/2017 10:57	0.18			
SR4	2/23/2017 11:17	0.15				SR12	2/23/2017 11:17	0.19			
SR4	2/23/2017 11:37	0.13				SR12	2/23/2017 11:37	0.16			
SR4	2/23/2017 11:57	0.16				SR12	2/23/2017 11:57	0.17			
SR4	2/23/2017 12:17	0.16				SR12	2/23/2017 12:17	0.18			
SR4	2/23/2017 12:37	0.14				SR12	2/23/2017 12:37	0.17			
SR4	2/23/2017 12:57	0.13				SR12	2/23/2017 12:57	0.18			
SR4	2/23/2017 13:17	0.16				SR12	2/23/2017 13:17	0.17			
SR4	2/23/2017 13:37	0.13				SR12	2/23/2017 13:37	0.16			
SR4	2/23/2017 13:57	0.15				SR12	2/23/2017 13:57	0.18			
SR4	2/23/2017 14:17	0.15				SR12	2/23/2017 14:17	0.19			
SR4	2/23/2017 14:37	0.15				SR12	2/23/2017 14:37	0.19			
SR4	2/23/2017 14:57	0.13				SR12	2/23/2017 14:57	0.17			
SR4	2/23/2017 15:17	0.16				SR12	2/23/2017 15:17	0.17			
SR4	2/23/2017 15:37	0.13				SR12	2/23/2017 15:37	0.19			
SR4	2/23/2017 15:57	0.15				SR12	2/23/2017 15:57	0.18			
SR4	2/23/2017 16:17	0.16				SR12	2/23/2017 16:17	0.18			
SR4	2/23/2017 16:37	0.15				SR12	2/23/2017 16:37	0.19			
SR4	2/23/2017 16:57	0.16				SR12	2/23/2017 16:57	0.18			
SR4	2/23/2017 17:17	0.14				SR12	2/23/2017 17:17	0.19			
SR4	2/23/2017 17:37	0.16				SR12	2/23/2017 17:37	0.16			
SR4	2/23/2017 17:57	0.15				SR12	2/23/2017 17:57	0.19			
SR4	2/23/2017 18:17	0.14				SR12	2/23/2017 18:17	0.19			
SR4	2/23/2017 18:37	0.13				SR12	2/23/2017 18:37	0.18			
SR4	2/23/2017 18:57	0.14				SR12	2/23/2017 18:57	0.15			
SR4	2/23/2017 19:17	0.16				SR12	2/23/2017 19:17	0.17			
SR4	2/23/2017 19:37	0.13				SR12	2/23/2017 19:37	0.14			
SR4	2/23/2017 19:57	0.16				SR12	2/23/2017 19:57	0.14			
SR4	2/23/2017 20:17	0.13				SR12	2/23/2017 20:17	0.18			
SR4	2/23/2017 20:37	0.16				SR12	2/23/2017 20:37	0.15			
SR4	2/23/2017 20:57	0.14				SR12	2/23/2017 20:57	0.18			
SR4	2/23/2017 21:17	0.16				SR12	2/23/2017 21:17	0.16			
SR4	2/23/2017 21:37	0.15				SR12	2/23/2017 21:37	0.18			
SR4	2/23/2017 21:57	0.13				SR12	2/23/2017 21:57	0.16			
SR4	2/23/2017 22:17	0.15				SR12	2/23/2017 22:17	0.16			
SR4	2/23/2017 22:37	0.16				SR12	2/23/2017 22:37	0.15			
SR4	2/23/2017 22:57	0.16				SR12	2/23/2017 22:57	0.14			
SR4	2/23/2017 23:17	0.16				SR12	2/23/2017 23:17	0.14			
SR4	2/23/2017 23:37	0.16				SR12	2/23/2017 23:37	0.14			
SR4	2/23/2017 23:57	0.13				SR12	2/23/2017 23:57	0.15			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12.  
SR5 monitoring station was under maintenance during 12:10-12:30.









24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	2/24/2017 0:17	0.16				SR12	2/24/2017 0:17	0.18			
SR4	2/24/2017 0:37	0.13				SR12	2/24/2017 0:37	0.16			
SR4	2/24/2017 0:57	0.13				SR12	2/24/2017 0:57	0.16			
SR4	2/24/2017 1:17	0.13				SR12	2/24/2017 1:17	0.14			
SR4	2/24/2017 1:37	0.16				SR12	2/24/2017 1:37	0.18			
SR4	2/24/2017 1:57	0.15				SR12	2/24/2017 1:57	0.15			
SR4	2/24/2017 2:17	0.13				SR12	2/24/2017 2:17	0.16			
SR4	2/24/2017 2:37	0.13				SR12	2/24/2017 2:37	0.18			
SR4	2/24/2017 2:57	0.16				SR12	2/24/2017 2:57	0.17			
SR4	2/24/2017 3:17	0.13				SR12	2/24/2017 3:17	0.14			
SR4	2/24/2017 3:37	0.15				SR12	2/24/2017 3:37	0.14			
SR4	2/24/2017 3:57	0.13				SR12	2/24/2017 3:57	0.13			
SR4	2/24/2017 4:17	0.13				SR12	2/24/2017 4:17	0.13			
SR4	2/24/2017 4:37	0.14				SR12	2/24/2017 4:37	0.11			
SR4	2/24/2017 4:57	0.13				SR12	2/24/2017 4:57	0.11			
SR4	2/24/2017 5:17	0.15				SR12	2/24/2017 5:17	0.13			
SR4	2/24/2017 5:37	0.16				SR12	2/24/2017 5:37	0.11			
SR4	2/24/2017 5:57	0.13				SR12	2/24/2017 5:57	0.13			
SR4						SR12					
SR4	2/24/2017 6:37	0.16				SR12	2/24/2017 6:37	0.13			
SR4	2/24/2017 6:57	0.15				SR12	2/24/2017 6:57	0.13			
SR4	2/24/2017 7:17	0.14				SR12	2/24/2017 7:17	0.13			
SR4	2/24/2017 7:37	0.15				SR12	2/24/2017 7:37	0.14			
SR4	2/24/2017 7:57	0.13				SR12	2/24/2017 7:57	0.13			
SR4	2/24/2017 8:17	0.14				SR12	2/24/2017 8:17	0.12			
SR4	2/24/2017 8:37	0.16				SR12	2/24/2017 8:37	0.14			
SR4	2/24/2017 8:57	0.16				SR12	2/24/2017 8:57	0.11			
SR4	2/24/2017 9:17	0.14				SR12	2/24/2017 9:17	0.14			
SR4	2/24/2017 9:37	0.16				SR12					
SR4	2/24/2017 9:57	0.14				SR12					
SR4	2/24/2017 10:17	0.16				SR12					
SR4	2/24/2017 10:37	0.16				SR12					
SR4	2/24/2017 10:57	0.14				SR12					
SR4	2/24/2017 11:17	0.15				SR12	2/24/2017 11:17	0.14			
SR4	2/24/2017 11:37	0.13				SR12	2/24/2017 11:37	0.13			
SR4	2/24/2017 11:57	0.13				SR12	2/24/2017 11:57	0.14			
SR4						SR12	2/24/2017 12:17	0.14			
SR4						SR12	2/24/2017 12:37	0.12			
SR4						SR12	2/24/2017 12:57	0.12			
SR4						SR12	2/24/2017 13:17	0.12			
SR4						SR12	2/24/2017 13:37	0.12			
SR4						SR12	2/24/2017 13:57	0.11			
SR4	2/24/2017 14:17	0.12				SR12	2/24/2017 14:17	0.12			
SR4	2/24/2017 14:37	0.14				SR12	2/24/2017 14:37	0.14			
SR4	2/24/2017 14:57	0.12				SR12	2/24/2017 14:57	0.12			
SR4	2/24/2017 15:17	0.13				SR12	2/24/2017 15:17	0.12			
SR4	2/24/2017 15:37	0.15				SR12	2/24/2017 15:37	0.12			
SR4	2/24/2017 15:57	0.14				SR12	2/24/2017 15:57	0.14			
SR4	2/24/2017 16:17	0.14				SR12	2/24/2017 16:17	0.14			
SR4	2/24/2017 16:37	0.13				SR12	2/24/2017 16:37	0.12			
SR4	2/24/2017 16:57	0.14				SR12	2/24/2017 16:57	0.12			
SR4	2/24/2017 17:17	0.13				SR12	2/24/2017 17:17	0.12			
SR4	2/24/2017 17:37	0.15				SR12	2/24/2017 17:37	0.13			
SR4	2/24/2017 17:57	0.14				SR12	2/24/2017 17:57	0.11			
SR4	2/24/2017 18:17	0.15				SR12	2/24/2017 18:17	0.13			
SR4	2/24/2017 18:37	0.15				SR12	2/24/2017 18:37	0.12			
SR4	2/24/2017 18:57	0.15				SR12	2/24/2017 18:57	0.11			
SR4	2/24/2017 19:17	0.12				SR12	2/24/2017 19:17	0.12			
SR4	2/24/2017 19:37	0.14				SR12	2/24/2017 19:37	0.14			
SR4	2/24/2017 19:57	0.13				SR12	2/24/2017 19:57	0.12			
SR4	2/24/2017 20:17	0.15				SR12	2/24/2017 20:17	0.12			
SR4	2/24/2017 20:37	0.15				SR12	2/24/2017 20:37	0.12			
SR4	2/24/2017 20:57	0.14				SR12	2/24/2017 20:57	0.13			
SR4	2/24/2017 21:17	0.15				SR12	2/24/2017 21:17	0.12			
SR4	2/24/2017 21:37	0.12				SR12	2/24/2017 21:37	0.11			
SR4	2/24/2017 21:57	0.14				SR12	2/24/2017 21:57	0.11			
SR4	2/24/2017 22:17	0.12				SR12	2/24/2017 22:17	0.14			
SR4	2/24/2017 22:37	0.13				SR12	2/24/2017 22:37	0.11			
SR4	2/24/2017 22:57	0.13				SR12	2/24/2017 22:57	0.10			
SR4	2/24/2017 23:17	0.13				SR12	2/24/2017 23:17	0.14			
SR4	2/24/2017 23:37	0.13				SR12	2/24/2017 23:37	0.13			
SR4	2/24/2017 23:57	0.14				SR12	2/24/2017 23:57	0.11			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH<sub>3</sub>-N monitor was carried out during 5:57-6:37 at SR4 and SR12.

SR4 monitoring station was under maintenance during 12:16-13:41.

SR12 monitoring station was under maintenance during 9:31-10:56.











24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	2/25/2017 0:17	0.15				SR12	2/25/2017 0:17	0.13			
SR4	2/25/2017 0:37	0.12				SR12	2/25/2017 0:37	0.11			
SR4	2/25/2017 0:57	0.13				SR12	2/25/2017 0:57	0.13			
SR4	2/25/2017 1:17	0.13				SR12	2/25/2017 1:17	0.10			
SR4	2/25/2017 1:37	0.13				SR12	2/25/2017 1:37	0.11			
SR4	2/25/2017 1:57	0.13				SR12	2/25/2017 1:57	0.10			
SR4	2/25/2017 2:17	0.13				SR12	2/25/2017 2:17	0.11			
SR4	2/25/2017 2:37	0.15				SR12	2/25/2017 2:37	0.11			
SR4	2/25/2017 2:57	0.15				SR12	2/25/2017 2:57	0.14			
SR4	2/25/2017 3:17	0.13				SR12	2/25/2017 3:17	0.14			
SR4	2/25/2017 3:37	0.12				SR12	2/25/2017 3:37	0.10			
SR4	2/25/2017 3:57	0.15				SR12	2/25/2017 3:57	0.14			
SR4	2/25/2017 4:17	0.14				SR12	2/25/2017 4:17	0.14			
SR4	2/25/2017 4:37	0.15				SR12	2/25/2017 4:37	0.14			
SR4	2/25/2017 4:57	0.12				SR12	2/25/2017 4:57	0.10			
SR4	2/25/2017 5:17	0.13				SR12	2/25/2017 5:17	0.12			
SR4	2/25/2017 5:37	0.15				SR12	2/25/2017 5:37	0.13			
SR4	2/25/2017 5:57	0.12				SR12	2/25/2017 5:57	0.14			
SR4						SR12					
SR4	2/25/2017 6:37	0.14				SR12	2/25/2017 6:37	0.11			
SR4	2/25/2017 6:57	0.15				SR12	2/25/2017 6:57	0.11			
SR4	2/25/2017 7:17	0.13				SR12	2/25/2017 7:17	0.12			
SR4	2/25/2017 7:37	0.13				SR12	2/25/2017 7:37	0.11			
SR4	2/25/2017 7:57	0.12				SR12	2/25/2017 7:57	0.14			
SR4	2/25/2017 8:17	0.13				SR12	2/25/2017 8:17	0.11			
SR4	2/25/2017 8:37	0.15				SR12	2/25/2017 8:37	0.12			
SR4	2/25/2017 8:57	0.13				SR12	2/25/2017 8:57	0.10			
SR4	2/25/2017 9:17	0.15				SR12	2/25/2017 9:17	0.12			
SR4	2/25/2017 9:37	0.15				SR12	2/25/2017 9:37	0.11			
SR4	2/25/2017 9:57	0.15				SR12	2/25/2017 9:57	0.11			
SR4	2/25/2017 10:17	0.14				SR12	2/25/2017 10:17	0.14			
SR4	2/25/2017 10:37	0.15				SR12	2/25/2017 10:37	0.14			
SR4	2/25/2017 10:57	0.15				SR12	2/25/2017 10:57	0.14			
SR4	2/25/2017 11:17	0.14				SR12	2/25/2017 11:17	0.12			
SR4	2/25/2017 11:37	0.15				SR12	2/25/2017 11:37	0.12			
SR4	2/25/2017 11:57	0.15				SR12	2/25/2017 11:57	0.13			
SR4	2/25/2017 12:17	0.15				SR12	2/25/2017 12:17	0.11			
SR4	2/25/2017 12:37	0.14				SR12	2/25/2017 12:37	0.10			
SR4	2/25/2017 12:57	0.14				SR12	2/25/2017 12:57	0.12			
SR4	2/25/2017 13:17	0.12				SR12	2/25/2017 13:17	0.10			
SR4	2/25/2017 13:37	0.13				SR12	2/25/2017 13:37	0.14			
SR4	2/25/2017 13:57	0.15				SR12	2/25/2017 13:57	0.14			
SR4	2/25/2017 14:17	0.14				SR12	2/25/2017 14:17	0.13			
SR4	2/25/2017 14:37	0.14				SR12	2/25/2017 14:37	0.10			
SR4	2/25/2017 14:57	0.13				SR12	2/25/2017 14:57	0.10			
SR4	2/25/2017 15:17	0.14				SR12	2/25/2017 15:17	0.11			
SR4	2/25/2017 15:37	0.14				SR12	2/25/2017 15:37	0.11			
SR4	2/25/2017 15:57	0.14				SR12	2/25/2017 15:57	0.13			
SR4	2/25/2017 16:17	0.13				SR12	2/25/2017 16:17	0.10			
SR4	2/25/2017 16:37	0.12				SR12	2/25/2017 16:37	0.13			
SR4	2/25/2017 16:57	0.15				SR12	2/25/2017 16:57	0.11			
SR4	2/25/2017 17:17	0.14				SR12	2/25/2017 17:17	0.12			
SR4	2/25/2017 17:37	0.13				SR12	2/25/2017 17:37	0.10			
SR4	2/25/2017 17:57	0.15				SR12	2/25/2017 17:57	0.13			
SR4	2/25/2017 18:17	0.15				SR12	2/25/2017 18:17	0.12			
SR4	2/25/2017 18:37	0.12				SR12	2/25/2017 18:37	0.10			
SR4	2/25/2017 18:57	0.12				SR12	2/25/2017 18:57	0.11			
SR4	2/25/2017 19:17	0.13				SR12	2/25/2017 19:17	0.10			
SR4	2/25/2017 19:37	0.13				SR12	2/25/2017 19:37	0.14			
SR4	2/25/2017 19:57	0.15				SR12	2/25/2017 19:57	0.12			
SR4	2/25/2017 20:17	0.12				SR12	2/25/2017 20:17	0.14			
SR4	2/25/2017 20:37	0.15				SR12	2/25/2017 20:37	0.10			
SR4	2/25/2017 20:57	0.15				SR12	2/25/2017 20:57	0.12			
SR4	2/25/2017 21:17	0.12				SR12	2/25/2017 21:17	0.12			
SR4	2/25/2017 21:37	0.15				SR12	2/25/2017 21:37	0.10			
SR4	2/25/2017 21:57	0.13				SR12	2/25/2017 21:57	0.12			
SR4	2/25/2017 22:17	0.14				SR12	2/25/2017 22:17	0.11			
SR4	2/25/2017 22:37	0.13				SR12	2/25/2017 22:37	0.11			
SR4	2/25/2017 22:57	0.10				SR12	2/25/2017 22:57	0.13			
SR4	2/25/2017 23:17	0.12				SR12	2/25/2017 23:17	0.12			
SR4	2/25/2017 23:37	0.12				SR12	2/25/2017 23:37	0.13			
SR4	2/25/2017 23:57	0.11				SR12	2/25/2017 23:57	0.11			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH<sub>3</sub>-N monitor was carried out during 5:57-6:37 at SR4 and SR12.











24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	2/26/2017 0:17	0.11				SR12	2/26/2017 0:17	0.14			
SR4	2/26/2017 0:37	0.11				SR12	2/26/2017 0:37	0.12			
SR4	2/26/2017 0:57	0.11				SR12	2/26/2017 0:57	0.11			
SR4	2/26/2017 1:17	0.10				SR12	2/26/2017 1:17	0.10			
SR4	2/26/2017 1:37	0.14				SR12	2/26/2017 1:37	0.11			
SR4	2/26/2017 1:57	0.11				SR12	2/26/2017 1:57	0.10			
SR4	2/26/2017 2:17	0.10				SR12	2/26/2017 2:17	0.13			
SR4	2/26/2017 2:37	0.13				SR12	2/26/2017 2:37	0.13			
SR4	2/26/2017 2:57	0.10				SR12	2/26/2017 2:57	0.11			
SR4	2/26/2017 3:17	0.14				SR12	2/26/2017 3:17	0.13			
SR4	2/26/2017 3:37	0.10				SR12	2/26/2017 3:37	0.11			
SR4	2/26/2017 3:57	0.14				SR12	2/26/2017 3:57	0.14			
SR4	2/26/2017 4:17	0.11				SR12	2/26/2017 4:17	0.13			
SR4	2/26/2017 4:37	0.14				SR12	2/26/2017 4:37	0.11			
SR4	2/26/2017 4:57	0.11				SR12	2/26/2017 4:57	0.10			
SR4	2/26/2017 5:17	0.14				SR12	2/26/2017 5:17	0.11			
SR4	2/26/2017 5:37	0.14				SR12	2/26/2017 5:37	0.13			
SR4	2/26/2017 5:57	0.13				SR12	2/26/2017 5:57	0.14			
SR4						SR12					
SR4	2/26/2017 6:37	0.13				SR12	2/26/2017 6:37	0.12			
SR4	2/26/2017 6:57	0.14				SR12	2/26/2017 6:57	0.12			
SR4	2/26/2017 7:17	0.10				SR12	2/26/2017 7:17	0.12			
SR4	2/26/2017 7:37	0.12				SR12	2/26/2017 7:37	0.11			
SR4	2/26/2017 7:57	0.14				SR12	2/26/2017 7:57	0.14			
SR4	2/26/2017 8:17	0.10				SR12	2/26/2017 8:17	0.10			
SR4	2/26/2017 8:37	0.11				SR12	2/26/2017 8:37	0.13			
SR4	2/26/2017 8:57	0.11				SR12	2/26/2017 8:57	0.13			
SR4	2/26/2017 9:17	0.14				SR12	2/26/2017 9:17	0.15			
SR4	2/26/2017 9:37	0.11				SR12	2/26/2017 9:37	0.16			
SR4	2/26/2017 9:57	0.10				SR12	2/26/2017 9:57	0.16			
SR4	2/26/2017 10:17	0.12				SR12	2/26/2017 10:17	0.15			
SR4	2/26/2017 10:37	0.12				SR12	2/26/2017 10:37	0.14			
SR4	2/26/2017 10:57	0.10				SR12	2/26/2017 10:57	0.12			
SR4	2/26/2017 11:17	0.10				SR12	2/26/2017 11:17	0.12			
SR4	2/26/2017 11:37	0.14				SR12	2/26/2017 11:37	0.14			
SR4	2/26/2017 11:57	0.12				SR12	2/26/2017 11:57	0.12			
SR4	2/26/2017 12:17	0.12				SR12	2/26/2017 12:17	0.12			
SR4	2/26/2017 12:37	0.10				SR12	2/26/2017 12:37	0.13			
SR4	2/26/2017 12:57	0.13				SR12	2/26/2017 12:57	0.15			
SR4	2/26/2017 13:17	0.11				SR12	2/26/2017 13:17	0.13			
SR4	2/26/2017 13:37	0.13				SR12	2/26/2017 13:37	0.15			
SR4	2/26/2017 13:57	0.11				SR12	2/26/2017 13:57	0.15			
SR4	2/26/2017 14:17	0.14				SR12	2/26/2017 14:17	0.13			
SR4	2/26/2017 14:37	0.11				SR12	2/26/2017 14:37	0.13			
SR4	2/26/2017 14:57	0.13				SR12	2/26/2017 14:57	0.14			
SR4	2/26/2017 15:17	0.10				SR12	2/26/2017 15:17	0.12			
SR4	2/26/2017 15:37	0.10				SR12	2/26/2017 15:37	0.13			
SR4	2/26/2017 15:57	0.12				SR12	2/26/2017 15:57	0.15			
SR4	2/26/2017 16:17	0.10				SR12	2/26/2017 16:17	0.12			
SR4	2/26/2017 16:37	0.13				SR12	2/26/2017 16:37	0.12			
SR4	2/26/2017 16:57	0.15				SR12	2/26/2017 16:57	0.13			
SR4	2/26/2017 17:17	0.14				SR12	2/26/2017 17:17	0.16			
SR4	2/26/2017 17:37	0.13				SR12	2/26/2017 17:37	0.13			
SR4	2/26/2017 17:57	0.13				SR12	2/26/2017 17:57	0.16			
SR4	2/26/2017 18:17	0.14				SR12	2/26/2017 18:17	0.16			
SR4	2/26/2017 18:37	0.12				SR12	2/26/2017 18:37	0.13			
SR4	2/26/2017 18:57	0.14				SR12	2/26/2017 18:57	0.16			
SR4	2/26/2017 19:17	0.14				SR12	2/26/2017 19:17	0.15			
SR4	2/26/2017 19:37	0.15				SR12	2/26/2017 19:37	0.15			
SR4	2/26/2017 19:57	0.12				SR12	2/26/2017 19:57	0.12			
SR4	2/26/2017 20:17	0.13				SR12	2/26/2017 20:17	0.16			
SR4	2/26/2017 20:37	0.12				SR12	2/26/2017 20:37	0.15			
SR4	2/26/2017 20:57	0.12				SR12	2/26/2017 20:57	0.15			
SR4	2/26/2017 21:17	0.12				SR12	2/26/2017 21:17	0.15			
SR4	2/26/2017 21:37	0.14				SR12	2/26/2017 21:37	0.15			
SR4	2/26/2017 21:57	0.12				SR12	2/26/2017 21:57	0.16			
SR4	2/26/2017 22:17	0.15				SR12	2/26/2017 22:17	0.15			
SR4	2/26/2017 22:37	0.13				SR12	2/26/2017 22:37	0.16			
SR4	2/26/2017 22:57	0.14				SR12	2/26/2017 22:57	0.12			
SR4	2/26/2017 23:17	0.11				SR12	2/26/2017 23:17	0.12			
SR4	2/26/2017 23:37	0.12				SR12	2/26/2017 23:37	0.12			
SR4	2/26/2017 23:57	0.14				SR12	2/26/2017 23:57	0.15			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH<sub>3</sub>-N monitor was carried out during 5:57-6:37 at SR4 and SR12.









24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	2/27/2017 0:17	0.15				SR12	2/27/2017 0:17	0.13			
SR4	2/27/2017 0:37	0.15				SR12	2/27/2017 0:37	0.16			
SR4	2/27/2017 0:57	0.11				SR12	2/27/2017 0:57	0.14			
SR4	2/27/2017 1:17	0.13				SR12	2/27/2017 1:17	0.15			
SR4	2/27/2017 1:37	0.14				SR12	2/27/2017 1:37	0.14			
SR4	2/27/2017 1:57	0.12				SR12	2/27/2017 1:57	0.15			
SR4	2/27/2017 2:17	0.12				SR12	2/27/2017 2:17	0.14			
SR4	2/27/2017 2:37	0.13				SR12	2/27/2017 2:37	0.14			
SR4	2/27/2017 2:57	0.15				SR12	2/27/2017 2:57	0.13			
SR4	2/27/2017 3:17	0.12				SR12	2/27/2017 3:17	0.11			
SR4	2/27/2017 3:37	0.14				SR12	2/27/2017 3:37	0.12			
SR4	2/27/2017 3:57	0.15				SR12	2/27/2017 3:57	0.14			
SR4	2/27/2017 4:17	0.12				SR12	2/27/2017 4:17	0.12			
SR4	2/27/2017 4:37	0.14				SR12	2/27/2017 4:37	0.13			
SR4	2/27/2017 4:57	0.11				SR12	2/27/2017 4:57	0.13			
SR4	2/27/2017 5:17	0.13				SR12	2/27/2017 5:17	0.14			
SR4	2/27/2017 5:37	0.14				SR12	2/27/2017 5:37	0.13			
SR4	2/27/2017 5:57	0.14				SR12	2/27/2017 5:57	0.12			
SR4						SR12					
SR4	2/27/2017 6:37	0.12				SR12	2/27/2017 6:37	0.13			
SR4	2/27/2017 6:57	0.11				SR12	2/27/2017 6:57	0.14			
SR4	2/27/2017 7:17	0.14				SR12	2/27/2017 7:17	0.11			
SR4	2/27/2017 7:37	0.14				SR12	2/27/2017 7:37	0.12			
SR4	2/27/2017 7:57	0.11				SR12	2/27/2017 7:57	0.11			
SR4	2/27/2017 8:17	0.13				SR12	2/27/2017 8:17	0.14			
SR4	2/27/2017 8:37	0.13				SR12	2/27/2017 8:37	0.12			
SR4	2/27/2017 8:57	0.14				SR12	2/27/2017 8:57	0.13			
SR4	2/27/2017 9:17	0.15				SR12	2/27/2017 9:17	0.11			
SR4	2/27/2017 9:37	0.14				SR12	2/27/2017 9:37	0.12			
SR4	2/27/2017 9:57	0.12				SR12	2/27/2017 9:57	0.11			
SR4						SR12	2/27/2017 10:17	0.12			
SR4						SR12	2/27/2017 10:37	0.11			
SR4						SR12	2/27/2017 10:57	0.12			
SR4						SR12	2/27/2017 11:17	0.14			
SR4						SR12	2/27/2017 11:37	0.13			
SR4	2/27/2017 11:57	0.14				SR12	2/27/2017 11:57	0.11			
SR4	2/27/2017 12:17	0.12				SR12	2/27/2017 12:17	0.12			
SR4	2/27/2017 12:37	0.14				SR12	2/27/2017 12:37	0.13			
SR4	2/27/2017 12:57	0.13				SR12	2/27/2017 12:57	0.13			
SR4	2/27/2017 13:17	0.16				SR12					
SR4	2/27/2017 13:37	0.15				SR12					
SR4	2/27/2017 13:57	0.14				SR12					
SR4	2/27/2017 14:17	0.13				SR12					
SR4	2/27/2017 14:37	0.12				SR12					
SR4	2/27/2017 14:57	0.15				SR12	2/27/2017 14:57	0.13			
SR4	2/27/2017 15:17	0.16				SR12	2/27/2017 15:17	0.11			
SR4	2/27/2017 15:37	0.15				SR12	2/27/2017 15:37	0.12			
SR4	2/27/2017 15:57	0.15				SR12	2/27/2017 15:57	0.13			
SR4	2/27/2017 16:17	0.13				SR12	2/27/2017 16:17	0.13			
SR4	2/27/2017 16:37	0.15				SR12	2/27/2017 16:37	0.11			
SR4	2/27/2017 16:57	0.16				SR12	2/27/2017 16:57	0.12			
SR4	2/27/2017 17:17	0.14				SR12	2/27/2017 17:17	0.14			
SR4	2/27/2017 17:37	0.16				SR12	2/27/2017 17:37	0.11			
SR4	2/27/2017 17:57	0.16				SR12	2/27/2017 17:57	0.12			
SR4	2/27/2017 18:17	0.12				SR12	2/27/2017 18:17	0.13			
SR4	2/27/2017 18:37	0.15				SR12	2/27/2017 18:37	0.11			
SR4	2/27/2017 18:57	0.12				SR12	2/27/2017 18:57	0.13			
SR4	2/27/2017 19:17	0.16				SR12	2/27/2017 19:17	0.12			
SR4	2/27/2017 19:37	0.16				SR12	2/27/2017 19:37	0.13			
SR4	2/27/2017 19:57	0.13				SR12	2/27/2017 19:57	0.11			
SR4	2/27/2017 20:17	0.14				SR12	2/27/2017 20:17	0.11			
SR4	2/27/2017 20:37	0.16				SR12	2/27/2017 20:37	0.12			
SR4	2/27/2017 20:57	0.15				SR12	2/27/2017 20:57	0.14			
SR4	2/27/2017 21:17	0.15				SR12	2/27/2017 21:17	0.14			
SR4	2/27/2017 21:37	0.16				SR12	2/27/2017 21:37	0.13			
SR4	2/27/2017 21:57	0.13				SR12	2/27/2017 21:57	0.12			
SR4	2/27/2017 22:17	0.14				SR12	2/27/2017 22:17	0.11			
SR4	2/27/2017 22:37	0.13				SR12	2/27/2017 22:37	0.12			
SR4	2/27/2017 22:57	0.14				SR12	2/27/2017 22:57	0.14			
SR4	2/27/2017 23:17	0.15				SR12	2/27/2017 23:17	0.11			
SR4	2/27/2017 23:37	0.14				SR12	2/27/2017 23:37	0.14			
SR4	2/27/2017 23:57	0.13				SR12	2/27/2017 23:57	0.11			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12.

SR4 monitoring station was under maintenance during 10:11-11:26.

SR12 monitoring station was under maintenance during 13:06-14:26.

SR13 monitoring station was under maintenance during 15:50-16:10.











24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	2/28/2017 0:17	0.13				SR12	2/28/2017 0:17	0.12			
SR4	2/28/2017 0:37	0.16				SR12	2/28/2017 0:37	0.14			
SR4	2/28/2017 0:57	0.12				SR12	2/28/2017 0:57	0.11			
SR4	2/28/2017 1:17	0.15				SR12	2/28/2017 1:17	0.12			
SR4	2/28/2017 1:37	0.14				SR12	2/28/2017 1:37	0.14			
SR4	2/28/2017 1:57	0.14				SR12	2/28/2017 1:57	0.14			
SR4	2/28/2017 2:17	0.15				SR12	2/28/2017 2:17	0.12			
SR4	2/28/2017 2:37	0.14				SR12	2/28/2017 2:37	0.14			
SR4	2/28/2017 2:57	0.14				SR12	2/28/2017 2:57	0.11			
SR4	2/28/2017 3:17	0.14				SR12	2/28/2017 3:17	0.14			
SR4	2/28/2017 3:37	0.15				SR12	2/28/2017 3:37	0.11			
SR4	2/28/2017 3:57	0.14				SR12	2/28/2017 3:57	0.11			
SR4	2/28/2017 4:17	0.14				SR12	2/28/2017 4:17	0.12			
SR4	2/28/2017 4:37	0.15				SR12	2/28/2017 4:37	0.13			
SR4	2/28/2017 4:57	0.15				SR12	2/28/2017 4:57	0.13			
SR4	2/28/2017 5:17	0.16				SR12	2/28/2017 5:17	0.11			
SR4	2/28/2017 5:37	0.14				SR12	2/28/2017 5:37	0.14			
SR4	2/28/2017 5:57	0.14				SR12	2/28/2017 5:57	0.11			
SR4						SR12					
SR4	2/28/2017 6:37	0.16				SR12	2/28/2017 6:37	0.11			
SR4	2/28/2017 6:57	0.14				SR12	2/28/2017 6:57	0.12			
SR4	2/28/2017 7:17	0.15				SR12	2/28/2017 7:17	0.13			
SR4	2/28/2017 7:37	0.14				SR12	2/28/2017 7:37	0.13			
SR4	2/28/2017 7:57	0.14				SR12	2/28/2017 7:57	0.12			
SR4	2/28/2017 8:17	0.13				SR12	2/28/2017 8:17	0.11			
SR4	2/28/2017 8:37	0.13				SR12	2/28/2017 8:37	0.13			
SR4	2/28/2017 8:57	0.14				SR12	2/28/2017 8:57	0.11			
SR4	2/28/2017 9:17	0.13				SR12	2/28/2017 9:17	0.14			
SR4	2/28/2017 9:37	0.13				SR12	2/28/2017 9:37	0.13			
SR4	2/28/2017 9:57	0.16				SR12	2/28/2017 9:57	0.14			
SR4	2/28/2017 10:17	0.15				SR12	2/28/2017 10:17	0.13			
SR4	2/28/2017 10:37	0.13				SR12	2/28/2017 10:37	0.14			
SR4	2/28/2017 10:57	0.14				SR12	2/28/2017 10:57	0.11			
SR4	2/28/2017 11:17	0.15				SR12	2/28/2017 11:17	0.14			
SR4	2/28/2017 11:37	0.13				SR12	2/28/2017 11:37	0.13			
SR4	2/28/2017 11:57	0.13				SR12	2/28/2017 11:57	0.11			
SR4	2/28/2017 12:17	0.16				SR12	2/28/2017 12:17	0.11			
SR4	2/28/2017 12:37	0.15				SR12	2/28/2017 12:37	0.12			
SR4	2/28/2017 12:57	0.16				SR12	2/28/2017 12:57	0.11			
SR4	2/28/2017 13:17	0.16				SR12	2/28/2017 13:17	0.12			
SR4	2/28/2017 13:37	0.16				SR12	2/28/2017 13:37	0.14			
SR4	2/28/2017 13:57	0.16				SR12	2/28/2017 13:57	0.12			
SR4	2/28/2017 14:17	0.14				SR12	2/28/2017 14:17	0.12			
SR4	2/28/2017 14:37	0.15				SR12	2/28/2017 14:37	0.12			
SR4	2/28/2017 14:57	0.16				SR12	2/28/2017 14:57	0.14			
SR4	2/28/2017 15:17	0.15				SR12	2/28/2017 15:17	0.13			
SR4	2/28/2017 15:37	0.14				SR12	2/28/2017 15:37	0.11			
SR4	2/28/2017 15:57	0.16				SR12	2/28/2017 15:57	0.11			
SR4	2/28/2017 16:17	0.15				SR12	2/28/2017 16:17	0.12			
SR4	2/28/2017 16:37	0.13				SR12	2/28/2017 16:37	0.13			
SR4	2/28/2017 16:57	0.16				SR12	2/28/2017 16:57	0.11			
SR4	2/28/2017 17:17	0.16				SR12	2/28/2017 17:17	0.14			
SR4	2/28/2017 17:37	0.15				SR12	2/28/2017 17:37	0.13			
SR4	2/28/2017 17:57	0.16				SR12	2/28/2017 17:57	0.11			
SR4	2/28/2017 18:17	0.16				SR12	2/28/2017 18:17	0.12			
SR4	2/28/2017 18:37	0.13				SR12	2/28/2017 18:37	0.13			
SR4	2/28/2017 18:57	0.16				SR12	2/28/2017 18:57	0.12			
SR4	2/28/2017 19:17	0.16				SR12	2/28/2017 19:17	0.13			
SR4	2/28/2017 19:37	0.15				SR12	2/28/2017 19:37	0.14			
SR4	2/28/2017 19:57	0.16				SR12	2/28/2017 19:57	0.13			
SR4	2/28/2017 20:17	0.16				SR12	2/28/2017 20:17	0.14			
SR4	2/28/2017 20:37	0.14				SR12	2/28/2017 20:37	0.11			
SR4	2/28/2017 20:57	0.15				SR12	2/28/2017 20:57	0.13			
SR4	2/28/2017 21:17	0.16				SR12	2/28/2017 21:17	0.11			
SR4	2/28/2017 21:37	0.13				SR12	2/28/2017 21:37	0.11			
SR4	2/28/2017 21:57	0.13				SR12	2/28/2017 21:57	0.11			
SR4	2/28/2017 22:17	0.13				SR12	2/28/2017 22:17	0.14			
SR4	2/28/2017 22:37	0.14				SR12	2/28/2017 22:37	0.12			
SR4	2/28/2017 22:57	0.11				SR12	2/28/2017 22:57	0.13			
SR4	2/28/2017 23:17	0.13				SR12	2/28/2017 23:17	0.12			
SR4	2/28/2017 23:37	0.12				SR12	2/28/2017 23:37	0.11			
SR4	2/28/2017 23:57	0.12				SR12	2/28/2017 23:57	0.13			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12.  
SR5 monitoring station was under maintenance during 10:35-10:55.











24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	3/1/2017 0:17	0.14				SR12	3/1/2017 0:17	0.12			
SR4	3/1/2017 0:37	0.11				SR12	3/1/2017 0:37	0.14			
SR4	3/1/2017 0:57	0.11				SR12	3/1/2017 0:57	0.13			
SR4	3/1/2017 1:17	0.12				SR12	3/1/2017 1:17	0.12			
SR4	3/1/2017 1:37	0.13				SR12	3/1/2017 1:37	0.14			
SR4	3/1/2017 1:57	0.11				SR12	3/1/2017 1:57	0.14			
SR4	3/1/2017 2:17	0.11				SR12	3/1/2017 2:17	0.14			
SR4	3/1/2017 2:37	0.11				SR12	3/1/2017 2:37	0.16			
SR4	3/1/2017 2:57	0.12				SR12	3/1/2017 2:57	0.12			
SR4	3/1/2017 3:17	0.13				SR12	3/1/2017 3:17	0.12			
SR4	3/1/2017 3:37	0.13				SR12	3/1/2017 3:37	0.14			
SR4	3/1/2017 3:57	0.12				SR12	3/1/2017 3:57	0.13			
SR4	3/1/2017 4:17	0.11				SR12	3/1/2017 4:17	0.13			
SR4	3/1/2017 4:37	0.14				SR12	3/1/2017 4:37	0.14			
SR4	3/1/2017 4:57	0.14				SR12	3/1/2017 4:57	0.14			
SR4	3/1/2017 5:17	0.11				SR12	3/1/2017 5:17	0.14			
SR4	3/1/2017 5:37	0.12				SR12	3/1/2017 5:37	0.15			
SR4	3/1/2017 5:57	0.13				SR12	3/1/2017 5:57	0.12			
SR4						SR12					
SR4	3/1/2017 6:37	0.12				SR12	3/1/2017 6:37	0.12			
SR4	3/1/2017 6:57	0.12				SR12	3/1/2017 6:57	0.15			
SR4	3/1/2017 7:17	0.11				SR12	3/1/2017 7:17	0.12			
SR4	3/1/2017 7:37	0.14				SR12	3/1/2017 7:37	0.14			
SR4	3/1/2017 7:57	0.14				SR12	3/1/2017 7:57	0.14			
SR4	3/1/2017 8:17	0.12				SR12	3/1/2017 8:17	0.16			
SR4	3/1/2017 8:37	0.12				SR12	3/1/2017 8:37	0.15			
SR4	3/1/2017 8:57	0.13				SR12	3/1/2017 8:57	0.13			
SR4	3/1/2017 9:17	0.12				SR12	3/1/2017 9:17	0.15			
SR4	3/1/2017 9:37	0.13				SR12					
SR4	3/1/2017 9:57	0.12				SR12					
SR4	3/1/2017 10:17	0.14				SR12					
SR4	3/1/2017 10:37	0.14				SR12					
SR4	3/1/2017 10:57	0.14				SR12					
SR4	3/1/2017 11:17	0.14				SR12	3/1/2017 11:17	0.13			
SR4	3/1/2017 11:37	0.11				SR12	3/1/2017 11:37	0.14			
SR4	3/1/2017 11:57	0.14				SR12	3/1/2017 11:57	0.13			
SR4						SR12	3/1/2017 12:17	0.12			
SR4						SR12	3/1/2017 12:37	0.13			
SR4						SR12	3/1/2017 12:57	0.13			
SR4						SR12	3/1/2017 13:17	0.14			
SR4	3/1/2017 13:37	0.13				SR12	3/1/2017 13:37	0.14			
SR4	3/1/2017 13:57	0.13				SR12	3/1/2017 13:57	0.15			
SR4	3/1/2017 14:17	0.14				SR12	3/1/2017 14:17	0.16			
SR4	3/1/2017 14:37	0.14				SR12	3/1/2017 14:37	0.13			
SR4	3/1/2017 14:57	0.11				SR12	3/1/2017 14:57	0.14			
SR4	3/1/2017 15:17	0.14				SR12	3/1/2017 15:17	0.13			
SR4	3/1/2017 15:37	0.13				SR12	3/1/2017 15:37	0.12			
SR4	3/1/2017 15:57	0.13				SR12	3/1/2017 15:57	0.14			
SR4	3/1/2017 16:17	0.11				SR12	3/1/2017 16:17	0.14			
SR4	3/1/2017 16:37	0.13				SR12	3/1/2017 16:37	0.15			
SR4	3/1/2017 16:57	0.12				SR12	3/1/2017 16:57	0.16			
SR4	3/1/2017 17:17	0.11				SR12	3/1/2017 17:17	0.12			
SR4	3/1/2017 17:37	0.11				SR12	3/1/2017 17:37	0.15			
SR4	3/1/2017 17:57	0.14				SR12	3/1/2017 17:57	0.11			
SR4	3/1/2017 18:17	0.12				SR12	3/1/2017 18:17	0.14			
SR4	3/1/2017 18:37	0.14				SR12	3/1/2017 18:37	0.12			
SR4	3/1/2017 18:57	0.13				SR12	3/1/2017 18:57	0.11			
SR4	3/1/2017 19:17	0.15				SR12	3/1/2017 19:17	0.10			
SR4	3/1/2017 19:37	0.12				SR12	3/1/2017 19:37	0.11			
SR4	3/1/2017 19:57	0.13				SR12	3/1/2017 19:57	0.14			
SR4	3/1/2017 20:17	0.14				SR12	3/1/2017 20:17	0.12			
SR4	3/1/2017 20:37	0.12				SR12	3/1/2017 20:37	0.13			
SR4	3/1/2017 20:57	0.16				SR12	3/1/2017 20:57	0.13			
SR4	3/1/2017 21:17	0.12				SR12	3/1/2017 21:17	0.12			
SR4	3/1/2017 21:37	0.14				SR12	3/1/2017 21:37	0.10			
SR4	3/1/2017 21:57	0.12				SR12	3/1/2017 21:57	0.11			
SR4	3/1/2017 22:17	0.16				SR12	3/1/2017 22:17	0.14			
SR4	3/1/2017 22:37	0.16				SR12	3/1/2017 22:37	0.13			
SR4	3/1/2017 22:57	0.16				SR12	3/1/2017 22:57	0.12			
SR4	3/1/2017 23:17	0.13				SR12	3/1/2017 23:17	0.12			
SR4	3/1/2017 23:37	0.14				SR12	3/1/2017 23:37	0.10			
SR4	3/1/2017 23:57	0.16				SR12	3/1/2017 23:57	0.14			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH<sub>3</sub>-N monitor was carried out during 5:57-6:37 at SR4 and SR12.

SR4 monitoring station was under maintenance during 12:11-13:36.

SR12 monitoring station was under maintenance during 9:31-10:46.

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR4	3/2/2017 0:01	17.22	100.6	6.94	3.1	SR4	3/2/2017 6:01	17.21	103.8	7.16	5.6	SR4	3/2/2017 12:01	17.31	105.0	7.24	7.1	SR4	3/2/2017 18:01	17.25	108.2	7.46	5.1
SR4	3/2/2017 0:06	17.23	101.9	7.03	3.9	SR4	3/2/2017 6:06	17.16	101.1	6.97	7.2	SR4	3/2/2017 12:06	17.21	101.2	6.98	3.6	SR4	3/2/2017 18:06	17.21	105.6	7.28	5.8
SR4	3/2/2017 0:11	17.32	101.5	7.00	3.6	SR4	3/2/2017 6:11	17.23	103.5	7.14	5.1	SR4	3/2/2017 12:11	17.29	100.6	6.94	3.9	SR4	3/2/2017 18:11	17.33	105.9	7.30	4.5
SR4	3/2/2017 0:16	17.34	108.2	7.46	6.7	SR4	3/2/2017 6:16	17.20	106.7	7.36	2.9	SR4	3/2/2017 12:16	17.28	106.0	7.31	4.8	SR4	3/2/2017 18:16	17.32	103.0	7.10	6.9
SR4	3/2/2017 0:21	17.20	108.0	7.45	3.5	SR4	3/2/2017 6:21	17.17	103.5	7.14	2.9	SR4	3/2/2017 12:21	17.24	107.7	7.43	4.2	SR4	3/2/2017 18:21	17.19	102.1	7.04	6.4
SR4	3/2/2017 0:26	17.33	105.3	7.26	4.5	SR4	3/2/2017 6:26	17.16	104.8	7.23	2.9	SR4	3/2/2017 12:26	17.32	100.1	6.90	7.7	SR4	3/2/2017 18:26	17.20	108.2	7.46	7.1
SR4	3/2/2017 0:31	17.30	108.2	7.46	3.2	SR4	3/2/2017 6:31	17.25	103.2	7.12	5.1	SR4	3/2/2017 12:31	17.20	101.4	6.99	6.4	SR4	3/2/2017 18:31	17.22	105.3	7.26	6.9
SR4	3/2/2017 0:36	17.29	104.3	7.19	3.1	SR4	3/2/2017 6:36	17.29	100.5	6.93	5.8	SR4	3/2/2017 12:36	17.33	104.5	7.21	4.9	SR4	3/2/2017 18:36	17.33	101.5	7.00	3.9
SR4	3/2/2017 0:41	17.32	104.0	7.17	3.5	SR4	3/2/2017 6:41	17.35	104.5	7.21	7.1	SR4	3/2/2017 12:41	17.22	105.7	7.29	3.7	SR4	3/2/2017 18:41	17.33	101.5	7.00	7.6
SR4	3/2/2017 0:46	17.32	105.7	7.29	6.7	SR4	3/2/2017 6:46	17.25	107.9	7.44	2.7	SR4	3/2/2017 12:46	17.31	103.8	7.16	4.4	SR4	3/2/2017 18:46	17.27	103.0	7.10	5.4
SR4	3/2/2017 0:51	17.18	105.1	7.25	7.9	SR4	3/2/2017 6:51	17.21	105.4	7.27	3.4	SR4	3/2/2017 12:51	17.17	103.0	7.10	7.6	SR4	3/2/2017 18:51	17.23	106.3	7.33	2.6
SR4	3/2/2017 0:56	17.29	102.4	7.06	5.3	SR4	3/2/2017 6:56	17.30	101.5	7.00	3.3	SR4	3/2/2017 12:56	17.31	102.5	7.07	6.9	SR4	3/2/2017 18:56	17.33	102.5	7.07	5.3
SR4	3/2/2017 1:01	17.20	106.1	7.32	5.9	SR4	3/2/2017 7:01	17.27	105.4	7.27	7.9	SR4	3/2/2017 13:01	17.17	101.6	7.01	7.1	SR4	3/2/2017 19:01	17.31	108.3	7.47	5.5
SR4	3/2/2017 1:06	17.18	103.2	7.12	5.5	SR4	3/2/2017 7:06	17.32	105.3	7.26	4.4	SR4	3/2/2017 13:06	17.16	102.8	7.09	2.5	SR4	3/2/2017 19:06	17.35	103.2	7.12	6.9
SR4	3/2/2017 1:11	17.19	102.5	7.07	5.0	SR4	3/2/2017 7:11	17.31	103.7	7.15	5.5	SR4	3/2/2017 13:11	17.18	101.6	7.01	3.3	SR4	3/2/2017 19:11	17.34	102.8	7.09	2.5
SR4	3/2/2017 1:16	17.18	102.7	7.08	5.8	SR4	3/2/2017 7:16	17.26	100.1	6.90	4.6	SR4	3/2/2017 13:16	17.35	106.1	7.32	6.0	SR4	3/2/2017 19:16	17.20	100.9	6.96	6.9
SR4	3/2/2017 1:21	17.20	106.9	7.37	6.2	SR4	3/2/2017 7:21	17.29	103.2	7.12	4.6	SR4	3/2/2017 13:21	17.31	101.5	7.00	5.3	SR4	3/2/2017 19:21	17.19	103.0	7.10	7.0
SR4	3/2/2017 1:26	17.25	105.7	7.29	4.9	SR4	3/2/2017 7:26	17.21	106.3	7.33	6.4	SR4	3/2/2017 13:26	17.30	108.3	7.47	7.5	SR4	3/2/2017 19:26	17.20	101.6	7.01	3.2
SR4	3/2/2017 1:31	17.17	101.4	6.99	3.4	SR4	3/2/2017 7:31	17.34	102.1	7.04	4.0	SR4	3/2/2017 13:31	17.24	100.3	6.92	5.8	SR4	3/2/2017 19:31	17.26	100.1	6.90	4.1
SR4	3/2/2017 1:36	17.27	100.3	6.92	4.6	SR4	3/2/2017 7:36	17.29	108.0	7.45	6.3	SR4	3/2/2017 13:36	17.33	108.0	7.45	6.8	SR4	3/2/2017 19:36	17.31	104.7	7.22	5.3
SR4	3/2/2017 1:41	17.19	101.4	6.99	3.9	SR4	3/2/2017 7:41	17.21	100.3	6.92	4.4	SR4	3/2/2017 13:41	17.17	105.4	7.27	7.1	SR4	3/2/2017 19:41	17.31	100.1	6.90	6.2
SR4	3/2/2017 1:46	17.29	102.7	7.08	7.6	SR4	3/2/2017 7:46	17.30	102.5	7.07	4.9	SR4	3/2/2017 13:46	17.17	101.5	7.00	7.5	SR4	3/2/2017 19:46	17.17	104.7	7.22	5.6
SR4	3/2/2017 1:51	17.31	105.1	7.25	7.2	SR4	3/2/2017 7:51	17.33	108.2	7.46	4.7	SR4	3/2/2017 13:51	17.26	106.7	7.36	7.8	SR4	3/2/2017 19:51	17.28	108.9	7.51	2.8
SR4	3/2/2017 1:56	17.21	107.7	7.43	6.8	SR4	3/2/2017 7:56	17.27	102.7	7.08	5.0	SR4	3/2/2017 13:56	17.32	107.3	7.40	6.6	SR4	3/2/2017 19:56	17.34	108.8	7.50	2.9
SR4	3/2/2017 2:01	17.35	102.1	7.04	3.5	SR4	3/2/2017 8:01	17.19	103.0	7.10	3.4	SR4	3/2/2017 14:01	17.25	106.9	7.37	5.0	SR4	3/2/2017 20:01	17.18	102.5	7.07	5.3
SR4	3/2/2017 2:06	17.21	104.8	7.23	7.2	SR4	3/2/2017 8:06	17.34	107.7	7.43	5.6	SR4	3/2/2017 14:06	17.21	104.0	7.17	2.6	SR4	3/2/2017 20:06	17.29	107.4	7.41	2.6
SR4	3/2/2017 2:11	17.34	105.0	7.24	7.5	SR4	3/2/2017 8:11	17.18	105.6	7.28	2.7	SR4	3/2/2017 14:11	17.26	108.3	7.47	7.5	SR4	3/2/2017 20:11	17.22	107.7	7.43	5.9
SR4	3/2/2017 2:16	17.33	105.6	7.28	5.6	SR4	3/2/2017 8:16	17.34	100.1	6.90	4.7	SR4	3/2/2017 14:16	17.18	102.2	7.05	6.4	SR4	3/2/2017 20:16	17.27	103.2	7.12	3.7
SR4	3/2/2017 2:21	17.26	104.7	7.22	3.9	SR4	3/2/2017 8:21	17.18	102.8	7.09	2.9	SR4	3/2/2017 14:21	17.19	107.9	7.44	7.9	SR4	3/2/2017 20:21	17.25	109.0	7.52	7.5
SR4	3/2/2017 2:26	17.34	108.6	7.49	2.8	SR4	3/2/2017 8:26	17.18	107.0	7.38	7.9	SR4	3/2/2017 14:26	17.22	106.6	7.35	2.5	SR4	3/2/2017 20:26	17.26	101.4	6.99	6.3
SR4	3/2/2017 2:31	17.32	99.9	6.89	7.6	SR4	3/2/2017 8:31	17.21	106.7	7.36	3.1	SR4	3/2/2017 14:31	17.30	105.9	7.30	7.2	SR4	3/2/2017 20:31	17.18	106.3	7.33	3.1
SR4	3/2/2017 2:36	17.20	107.3	7.40	5.3	SR4	3/2/2017 8:36	17.27	108.2	7.46	3.4	SR4	3/2/2017 14:36	17.26	106.1	7.32	5.8	SR4	3/2/2017 20:36	17.29	105.3	7.26	3.9
SR4	3/2/2017 2:41	17.21	103.8	7.16	4.8	SR4	3/2/2017 8:41	17.20	102.2	7.05	3.0	SR4	3/2/2017 14:41	17.28	105.0	7.24	7.1	SR4	3/2/2017 20:41	17.34	103.8	7.16	7.8
SR4	3/2/2017 2:46	17.24	106.9	7.37	4.1	SR4	3/2/2017 8:46	17.33	103.1	7.11	6.6	SR4	3/2/2017 14:46	17.32	101.8	7.02	2.7	SR4	3/2/2017 20:46	17.23	108.6	7.49	7.1
SR4	3/2/2017 2:51	17.34	104.7	7.22	3.1	SR4	3/2/2017 8:51	17.23	108.6	7.49	5.8	SR4	3/2/2017 14:51	17.25	107.4	7.41	6.1	SR4	3/2/2017 20:51	17.16	102.8	7.09	4.9
SR4	3/2/2017 2:56	17.26	108.2	7.46	7.7	SR4	3/2/2017 8:56	17.31	108.8	7.50	3.0	SR4	3/2/2017 14:56	17.21	103.4	7.13	6.7	SR4	3/2/2017 20:56	17.23	102.4	7.06	2.7
SR4	3/2/2017 3:01	17.18	107.4	7.41	3.5	SR4	3/2/2017 9:01	17.23	106.0	7.31	4.7	SR4	3/2/2017 15:01	17.19	101.1	6.97	5.7	SR4	3/2/2017 21:01	17.21	101.4	6.99	7.4
SR4	3/2/2017 3:06	17.33	107.3	7.40	6.6	SR4	3/2/2017 9:06	17.29	100.2	6.91	6.4	SR4	3/2/2017 15:06	17.31	106.1	7.32	2.6	SR4	3/2/2017 21:06	17.19	101.0	7.38	3.3
SR4	3/2/2017 3:11	17.33	102.8	7.09	6.7	SR4	3/2/2017 9:11	17.34	103.0	7.10	3.9	SR4	3/2/2017 15:11	17.25	107.2	7.39	7.4	SR4	3/2/2017 21:11	17.17	107.4	6.99	4.8
SR4	3/2/2017 3:16	17.33	101.6	7.01	6.6	SR4	3/2/2017 9:16	17.35	102.4	7.06	7.3	SR4	3/2/2017 15:16	17.33	108.6	7.49	3.9	SR4	3/2/2017 21:16	17.16	108.3	7.47	6.4
SR4	3/2/2017 3:21	17.26	105.1	7.25	5.8	SR4	3/2/2017 9:21	17.34	108.6	7.49	6.1	SR4	3/2/2017 15:21	17.24	100.3	6.92	7.4	SR4	3/2/2017 21:21	17.32	108.0	7.45	4.9
SR4	3/2/2017 3:26	17.29	107.9	7.44	7.8	SR4	3/2/2017 9:26	17.32	103.4	7.13	6.3	SR4	3/2/2017 15:26	17.20	106.9	7.37	2.9	SR4	3/2/2017 21:26	17.33	103.8	7.16	6.8
SR4	3/2/2017 3:31	17.35	103.8	7.16	6.9	SR4	3/2/2017 9:31	17.16	103.5	7.14	2.8	SR4	3/2/2017 15:31	17.19	106.1	7.32	3.5	SR4	3/2/2017 21:31	17.28	101.2	6.98	3.6
SR4	3/2/2017 3:36	17.33	100.8	6.95	5.3	SR4	3/2/2017 9:36	17.25	107.0	7.38	7.9	SR4	3/2/2017 15:36	17.20	108.9	7.51	2.6	SR4	3/2/2017 21:36	17.34	107.3	7.40	4.1
SR4	3/2/2017 3:41	17.23	106.3	7.33	4.7	SR4	3/2/2017 9:41	17.23	102.5	7.07	4.3	SR4	3/2/2017 15:41	17.23	105.1	7.25	4.4	SR4	3/2/2017 21:41	17.33	106.4	7.34	4.6
SR4	3/2/2017 3:46	17.19	100.5	6.93	3.9	SR4	3/2/2017 9:46	17.22	104.3	7.19	7.0	SR4	3/2/2017 15:46	17.18	102.5	7.07	5.6	SR4	3/2/2017 21:46	17.30	103.7	7.15	6.5
SR4	3/2/2017 3:51	17.26	100.2	6.91	5.6	SR4	3/2/2017 9:51	17.34	105.0	7.24	6.0	SR4	3/2/2017 15:51	17.16	108.2	7.46	7.4	SR4	3/2/2017 21:51	17.32	101.9	7.03	6.2
SR4	3/2/2017 3:56	17.33	103.8	7.16	2.6	SR4	3/2/2017 9:56	17.17															

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR5	3/2/2017 0:00	18.34	121.7	8.22	4.3	SR5	3/2/2017 6:00	18.45	123.0	8.31	2.2	SR5	3/2/2017 12:00	18.50	127.9	8.64	3.1	SR5	3/2/2017 18:00	18.42	119.6	8.08	2.9
SR5	3/2/2017 0:05	18.51	123.4	8.34	3.9	SR5	3/2/2017 6:05	18.57	124.0	8.38	3.6	SR5	3/2/2017 12:05	18.55	124.0	8.38	4.4	SR5	3/2/2017 18:05	18.54	119.3	8.06	4.4
SR5	3/2/2017 0:10	18.47	122.5	8.28	5.3	SR5	3/2/2017 6:10	18.42	125.2	8.46	4.6	SR5	3/2/2017 12:10	18.50	116.6	7.88	4.2	SR5	3/2/2017 18:10	18.57	123.6	8.35	3.1
SR5	3/2/2017 0:15	18.39	121.7	8.22	4.2	SR5	3/2/2017 6:15	18.52	123.3	8.33	1.2	SR5	3/2/2017 12:15	18.59	124.2	8.39	1.4	SR5	3/2/2017 18:15	18.56	126.4	8.54	3.9
SR5	3/2/2017 0:20	18.55	123.1	8.32	3.1	SR5	3/2/2017 6:20	18.51	126.5	8.55	2.3	SR5	3/2/2017 12:20	18.37	117.8	7.96	2.4	SR5	3/2/2017 18:20	18.56	122.8	8.30	2.4
SR5	3/2/2017 0:25	18.44	123.1	8.32	4.8	SR5	3/2/2017 6:25	18.52	124.8	8.43	5.0	SR5	3/2/2017 12:25	18.42	117.7	7.95	4.3	SR5	3/2/2017 18:25	18.43	127.6	8.62	4.4
SR5	3/2/2017 0:30	18.33	121.7	8.22	3.6	SR5	3/2/2017 6:30	18.43	121.1	8.18	2.2	SR5	3/2/2017 12:30	18.45	119.7	8.09	2.3	SR5	3/2/2017 18:30	18.48	126.5	8.55	1.7
SR5	3/2/2017 0:35	18.48	120.3	8.13	4.5	SR5	3/2/2017 6:35	18.40	122.7	8.29	4.5	SR5	3/2/2017 12:35	18.42	121.4	8.20	2.7	SR5	3/2/2017 18:35	18.41	119.1	8.05	4.2
SR5	3/2/2017 0:40	18.49	119.0	8.04	2.5	SR5	3/2/2017 6:40	18.47	126.8	8.57	5.1	SR5	3/2/2017 12:40	18.32	117.8	7.96	2.9	SR5	3/2/2017 18:40	18.41	126.7	8.56	3.0
SR5	3/2/2017 0:45	18.32	122.4	8.27	3.7	SR5	3/2/2017 6:45	18.53	124.6	8.42	2.2	SR5	3/2/2017 12:45	18.33	119.6	8.08	1.6	SR5	3/2/2017 18:45	18.34	123.3	8.33	4.7
SR5	3/2/2017 0:50	18.58	119.4	8.07	2.5	SR5	3/2/2017 6:50	18.48	117.7	7.95	2.9	SR5					SR5	3/2/2017 18:50	18.38	124.5	8.41	1.5	
SR5	3/2/2017 0:55	18.52	125.5	8.48	1.9	SR5	3/2/2017 6:55	18.41	118.5	8.01	1.5	SR5					SR5	3/2/2017 18:55	18.33	119.9	8.10	3.8	
SR5	3/2/2017 1:00	18.35	122.8	8.30	3.1	SR5	3/2/2017 7:00	18.43	126.1	8.52	3.3	SR5					SR5	3/2/2017 19:00	18.38	120.9	8.17	1.8	
SR5	3/2/2017 1:05	18.55	116.6	7.88	2.7	SR5	3/2/2017 7:05	18.48	118.5	8.01	2.5	SR5					SR5	3/2/2017 19:05	18.54	121.2	8.19	4.0	
SR5	3/2/2017 1:10	18.51	122.0	8.24	1.7	SR5	3/2/2017 7:10	18.46	124.9	8.44	2.4	SR5	3/2/2017 13:10	18.49	117.4	7.93	1.2	SR5	3/2/2017 19:10	18.44	121.5	8.21	3.1
SR5	3/2/2017 1:15	18.40	122.0	8.24	4.7	SR5	3/2/2017 7:15	18.35	127.3	8.60	4.4	SR5	3/2/2017 13:15	18.44	122.7	8.29	4.5	SR5	3/2/2017 19:15	18.57	119.4	8.07	4.8
SR5	3/2/2017 1:20	18.34	124.5	8.41	1.6	SR5	3/2/2017 7:20	18.45	118.3	7.99	4.6	SR5	3/2/2017 13:20	18.46	123.0	8.31	4.7	SR5	3/2/2017 19:20	18.54	122.8	8.30	1.1
SR5	3/2/2017 1:25	18.35	118.8	8.03	2.7	SR5	3/2/2017 7:25	18.31	117.5	7.94	2.1	SR5	3/2/2017 13:25	18.46	122.7	8.29	3.0	SR5	3/2/2017 19:25	18.43	127.0	8.58	2.1
SR5	3/2/2017 1:30	18.32	117.7	7.95	2.2	SR5	3/2/2017 7:30	18.41	118.7	8.02	2.1	SR5	3/2/2017 13:30	18.56	124.0	8.38	4.3	SR5	3/2/2017 19:30	18.54	120.6	8.15	5.4
SR5	3/2/2017 1:35	18.46	127.7	8.63	3.1	SR5	3/2/2017 7:35	18.49	123.4	8.34	3.8	SR5	3/2/2017 13:35	18.52	120.8	8.16	3.3	SR5	3/2/2017 19:35	18.33	120.8	8.16	2.1
SR5	3/2/2017 1:40	18.47	118.5	8.01	2.4	SR5	3/2/2017 7:40	18.36	118.1	7.98	1.3	SR5	3/2/2017 13:40	18.45	119.4	8.07	1.6	SR5	3/2/2017 19:40	18.48	118.8	8.03	4.5
SR5	3/2/2017 1:45	18.51	118.8	8.03	1.8	SR5	3/2/2017 7:45	18.48	124.3	8.40	2.4	SR5	3/2/2017 13:45	18.39	116.8	7.89	2.6	SR5	3/2/2017 19:45	18.39	122.7	8.29	3.9
SR5	3/2/2017 1:50	18.57	118.8	8.03	4.2	SR5	3/2/2017 7:50	18.49	126.8	8.57	3.5	SR5	3/2/2017 13:50	18.44	116.9	7.90	1.5	SR5	3/2/2017 19:50	18.56	117.7	7.95	2.0
SR5	3/2/2017 1:55	18.39	125.1	8.45	4.1	SR5	3/2/2017 7:55	18.39	118.5	8.01	5.4	SR5	3/2/2017 13:55	18.48	118.0	7.97	4.8	SR5	3/2/2017 19:55	18.58	118.7	8.02	3.8
SR5	3/2/2017 2:00	18.59	119.0	8.04	2.1	SR5	3/2/2017 8:00	18.32	124.6	8.42	1.2	SR5	3/2/2017 14:00	18.33	119.4	8.07	1.8	SR5	3/2/2017 20:00	18.48	122.5	8.28	2.9
SR5	3/2/2017 2:05	18.43	122.4	8.27	1.6	SR5	3/2/2017 8:05	18.46	122.1	8.25	1.9	SR5	3/2/2017 14:05	18.43	118.8	8.03	1.8	SR5	3/2/2017 20:05	18.33	121.4	8.20	3.9
SR5	3/2/2017 2:10	18.49	126.7	8.56	1.3	SR5	3/2/2017 8:10	18.51	119.4	8.07	4.0	SR5	3/2/2017 14:10	18.59	120.5	8.14	2.5	SR5	3/2/2017 20:10	18.54	126.7	8.56	1.8
SR5	3/2/2017 2:15	18.31	117.5	7.94	1.4	SR5	3/2/2017 8:15	18.35	125.2	8.46	2.6	SR5	3/2/2017 14:15	18.35	122.2	8.26	4.8	SR5	3/2/2017 20:15	18.54	119.7	8.09	4.7
SR5	3/2/2017 2:20	18.32	124.9	8.44	2.8	SR5	3/2/2017 8:20	18.45	123.7	8.36	4.7	SR5	3/2/2017 14:20	18.32	117.2	7.92	4.5	SR5	3/2/2017 20:20	18.47	122.5	8.28	5.0
SR5	3/2/2017 2:25	18.43	127.3	8.60	4.1	SR5	3/2/2017 8:25	18.40	117.2	7.92	1.9	SR5	3/2/2017 14:25	18.43	125.7	8.49	2.3	SR5	3/2/2017 20:25	18.38	118.4	8.00	2.3
SR5	3/2/2017 2:30	18.35	125.8	8.50	1.5	SR5	3/2/2017 8:30	18.43	127.9	8.64	5.2	SR5	3/2/2017 14:30	18.36	121.8	8.23	3.2	SR5	3/2/2017 20:30	18.51	123.4	8.34	2.9
SR5	3/2/2017 2:35	18.32	120.0	8.11	1.4	SR5	3/2/2017 8:35	18.51	118.0	7.97	4.8	SR5	3/2/2017 14:35	18.56	127.6	8.62	2.5	SR5	3/2/2017 20:35	18.43	127.7	8.63	4.0
SR5	3/2/2017 2:40	18.52	122.0	8.24	3.8	SR5	3/2/2017 8:40	18.43	118.4	8.00	4.2	SR5	3/2/2017 14:40	18.32	125.2	8.46	3.1	SR5	3/2/2017 20:40	18.51	118.7	8.02	1.5
SR5	3/2/2017 2:45	18.50	117.4	7.93	4.8	SR5	3/2/2017 8:45	18.33	116.6	7.88	4.1	SR5	3/2/2017 14:45	18.35	122.7	8.29	1.8	SR5	3/2/2017 20:45	18.51	119.4	8.07	3.5
SR5	3/2/2017 2:50	18.51	127.0	8.58	1.2	SR5	3/2/2017 8:50	18.31	125.8	8.50	2.2	SR5	3/2/2017 14:50	18.35	124.3	8.40	3.7	SR5	3/2/2017 20:50	18.32	118.0	7.97	1.0
SR5	3/2/2017 2:55	18.35	119.7	8.09	3.9	SR5	3/2/2017 8:55	18.38	118.4	8.00	4.5	SR5	3/2/2017 14:55	18.34	125.7	8.49	1.3	SR5	3/2/2017 20:55	18.46	122.0	8.24	1.3
SR5	3/2/2017 3:00	18.34	124.3	8.40	1.4	SR5	3/2/2017 9:00	18.37	124.8	8.43	3.2	SR5	3/2/2017 15:00	18.39	123.6	8.35	1.0	SR5	3/2/2017 21:00	18.34	119.7	8.09	3.9
SR5	3/2/2017 3:05	18.56	124.5	8.41	4.4	SR5	3/2/2017 9:05	18.32	122.8	8.30	2.0	SR5	3/2/2017 15:05	18.49	119.4	8.07	5.1	SR5	3/2/2017 21:05	18.56	123.4	8.34	4.6
SR5	3/2/2017 3:10	18.52	123.0	8.31	2.8	SR5	3/2/2017 9:10	18.32	117.4	7.93	3.4	SR5	3/2/2017 15:10	18.53	120.3	8.13	4.6	SR5	3/2/2017 21:10	18.54	127.9	8.64	3.9
SR5	3/2/2017 3:15	18.58	125.5	8.48	3.0	SR5	3/2/2017 9:15	18.53	126.8	8.57	1.3	SR5	3/2/2017 15:15	18.46	126.5	8.55	3.0	SR5	3/2/2017 21:15	18.45	125.1	8.45	3.7
SR5	3/2/2017 3:20	18.53	124.0	8.38	2.6	SR5	3/2/2017 9:20	18.57	124.5	8.41	1.9	SR5	3/2/2017 15:20	18.45	121.5	8.21	1.3	SR5	3/2/2017 21:20	18.47	125.8	8.50	5.2
SR5	3/2/2017 3:25	18.32	127.6	8.62	2.6	SR5	3/2/2017 9:25	18.46	118.3	7.99	3.7	SR5	3/2/2017 15:25	18.47	127.1	8.59	3.0	SR5	3/2/2017 21:25	18.48	123.3	8.33	4.4
SR5	3/2/2017 3:30	18.47	125.8	8.50	1.2	SR5	3/2/2017 9:30	18.32	120.8	8.16	5.1	SR5	3/2/2017 15:30	18.54	126.8	8.57	1.0	SR5	3/2/2017 21:30	18.53	127.0	8.58	4.4
SR5	3/2/2017 3:35	18.53	119.7	8.09	1.1	SR5	3/2/2017 9:35	18.40	118.0	7.97	5.4	SR5	3/2/2017 15:35	18.44	127.7	8.63	4.8	SR5	3/2/2017 21:35	18.39	124.5	8.41	5.3
SR5	3/2/2017 3:40	18.45	126.2	8.53	4.2	SR5	3/2/2017 9:40	18.55	117.4	7.93	3.4	SR5	3/2/2017 15:40	18.58	119.7	8.09	2.8	SR5	3/2/2017 21:40	18.54	121.1	8.18	4.8
SR5	3/2/2017 3:45	18.54	125.2	8.46	1.3	SR5	3/2/2017 9:45	18.50	123.0	8.31	3.1	SR5	3/2/2017 15:45	18.35	126.2	8.53	3.9	SR5	3/2/2017 21:45	18.47	118.5	8.01	2.6
SR5	3/2/2017 3:50	18.55	122.1	8.25	4.3	SR5	3/2/2017 9:50	18.47	118.8	8.03	2.6	SR5	3/2/2017 15:50	18.58	127.1	8.59	3.7	SR5	3/2/2017 21:50	18.38	126.2	8.53	4.8
SR5	3/2/2017 3:55	18.49	119.7	8.09	3.5	SR5	3/2/2017 9:55	18.58	126.8	8.57	5.4	SR5	3/2/2017 15:55	18.50	119.9	8.10	1.4	SR5	3/2/2017 21:55	18.35	126.8	8.57	3.3
SR5	3/2/2017 4:00</																						

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR12	3/2/2017 0:01	17.78	129.9	8.84	8.0	SR12	3/2/2017 6:01	17.61	128.9	8.77	8.4	SR12	3/2/2017 12:01	17.68	128.8	8.76	5.7	SR12	3/2/2017 18:01	17.58	121.9	8.29	4.6
SR12	3/2/2017 0:06	17.68	125.4	8.53	8.7	SR12	3/2/2017 6:06	17.62	130.5	8.88	6.4	SR12	3/2/2017 12:06	17.58	122.2	8.31	5.7	SR12	3/2/2017 18:06	17.70	127.7	8.69	5.3
SR12	3/2/2017 0:11	17.56	125.8	8.56	4.8	SR12	3/2/2017 6:11	17.68	124.5	8.47	5.6	SR12	3/2/2017 12:11	17.59	125.8	8.56	8.5	SR12	3/2/2017 18:11	17.61	123.0	8.37	8.9
SR12	3/2/2017 0:16	17.76	120.8	8.22	8.5	SR12	3/2/2017 6:16	17.68	126.6	8.61	6.1	SR12	3/2/2017 12:16	17.61	121.7	8.28	6.2	SR12	3/2/2017 18:16	17.72	129.1	8.78	8.2
SR12	3/2/2017 0:21	17.60	122.7	8.35	5.3	SR12	3/2/2017 6:21	17.79	121.6	8.27	6.2	SR12	3/2/2017 12:21	17.77	122.5	8.33	8.6	SR12	3/2/2017 18:21	17.77	124.7	8.48	5.0
SR12	3/2/2017 0:26	17.60	126.0	8.57	6.0	SR12	3/2/2017 6:26	17.57	126.4	8.60	5.0	SR12	3/2/2017 12:26	17.61	128.5	8.74	6.0	SR12	3/2/2017 18:26	17.71	124.8	8.49	4.5
SR12	3/2/2017 0:31	17.78	129.7	8.82	8.6	SR12	3/2/2017 6:31	17.58	129.4	8.80	6.1	SR12	3/2/2017 12:31	17.74	126.6	8.61	6.1	SR12	3/2/2017 18:31	17.59	123.3	8.39	8.0
SR12	3/2/2017 0:36	17.74	129.9	8.84	8.0	SR12	3/2/2017 6:36	17.62	122.0	8.30	8.9	SR12	3/2/2017 12:36	17.63	122.2	8.31	7.9	SR12	3/2/2017 18:36	17.66	124.7	8.48	6.6
SR12	3/2/2017 0:41	17.68	128.3	8.73	5.2	SR12	3/2/2017 6:41	17.58	125.0	8.50	9.0	SR12	3/2/2017 12:41	17.60	128.3	8.73	9.0	SR12	3/2/2017 18:41	17.55	125.7	8.55	4.9
SR12	3/2/2017 0:46	17.69	123.5	8.40	4.9	SR12	3/2/2017 6:46	17.69	122.7	8.35	4.2	SR12	3/2/2017 12:46	17.69	129.7	8.82	6.5	SR12	3/2/2017 18:46	17.72	124.4	8.46	9.3
SR12	3/2/2017 0:51	17.71	126.1	8.58	4.7	SR12	3/2/2017 6:51	17.78	127.9	8.70	9.0	SR12	3/2/2017 12:51	17.74	127.2	8.65	6.2	SR12	3/2/2017 18:51	17.58	125.2	8.52	9.1
SR12	3/2/2017 0:56	17.73	124.2	8.45	4.6	SR12	3/2/2017 6:56	17.56	123.6	8.41	6.4	SR12	3/2/2017 12:56	17.59	128.3	8.73	4.7	SR12	3/2/2017 18:56	17.68	122.5	8.33	14.5
SR12	3/2/2017 1:01	17.77	129.1	8.78	9.2	SR12	3/2/2017 7:01	17.56	127.9	8.70	9.3	SR12	3/2/2017 13:01	17.64	124.4	8.46	6.7	SR12	3/2/2017 19:01	17.63	128.9	8.77	8.3
SR12	3/2/2017 1:06	17.72	125.5	8.54	8.8	SR12	3/2/2017 7:06	17.65	124.8	8.49	9.2	SR12	3/2/2017 13:06	17.55	124.4	8.46	7.9	SR12	3/2/2017 19:06	17.77	128.3	8.73	7.6
SR12	3/2/2017 1:11	17.59	121.7	8.28	5.4	SR12	3/2/2017 7:11	17.76	124.8	8.49	11.8	SR12	3/2/2017 13:11	17.55	126.3	8.59	5.1	SR12	3/2/2017 19:11	17.74	126.9	8.63	9.1
SR12	3/2/2017 1:16	17.63	123.6	8.41	9.1	SR12	3/2/2017 7:16	17.79	128.6	8.75	10.4	SR12	3/2/2017 13:16	17.60	126.6	8.61	8.0	SR12	3/2/2017 19:16	17.67	120.7	8.21	6.0
SR12	3/2/2017 1:21	17.79	129.9	8.84	6.6	SR12	3/2/2017 7:21	17.65	129.7	8.82	8.5	SR12	3/2/2017 13:21	17.74	130.4	8.87	4.2	SR12	3/2/2017 19:21	17.61	129.7	8.82	6.1
SR12	3/2/2017 1:26	17.60	127.7	8.69	4.5	SR12	3/2/2017 7:26	17.72	127.3	8.66	4.8	SR12	3/2/2017 13:26	17.76	122.0	8.30	8.5	SR12	3/2/2017 19:26	17.72	121.1	8.24	4.1
SR12	3/2/2017 1:31	17.55	130.2	8.86	4.2	SR12	3/2/2017 7:31	17.70	122.9	8.36	4.8	SR12	3/2/2017 13:31	17.60	121.6	8.27	7.7	SR12	3/2/2017 19:31	17.67	125.7	8.55	4.8
SR12	3/2/2017 1:36	17.68	129.7	8.82	9.2	SR12	3/2/2017 7:36	17.62	127.4	8.67	8.0	SR12	3/2/2017 13:36	17.56	122.2	8.31	4.6	SR12	3/2/2017 19:36	17.68	122.9	8.36	8.5
SR12	3/2/2017 1:41	17.61	122.2	8.31	6.7	SR12	3/2/2017 7:41	17.59	126.1	8.58	6.4	SR12	3/2/2017 13:41	17.59	122.3	8.32	7.9	SR12	3/2/2017 19:41	17.62	129.9	8.84	9.0
SR12	3/2/2017 1:46	17.71	124.2	8.45	7.2	SR12	3/2/2017 7:46	17.64	126.1	8.58	5.3	SR12	3/2/2017 13:46	17.57	121.4	8.26	5.7	SR12	3/2/2017 19:46	17.61	126.3	8.59	8.1
SR12	3/2/2017 1:51	17.72	129.8	8.83	9.1	SR12	3/2/2017 7:51	17.58	129.7	8.82	6.3	SR12	3/2/2017 13:51	17.73	126.0	8.57	5.2	SR12	3/2/2017 19:51	17.63	129.2	8.79	9.2
SR12	3/2/2017 1:56	17.65	126.1	8.58	8.4	SR12	3/2/2017 7:56	17.68	128.6	8.75	7.6	SR12	3/2/2017 13:56	17.68	125.5	8.54	4.3	SR12	3/2/2017 19:56	17.64	126.3	8.59	6.9
SR12	3/2/2017 2:01	17.55	123.5	8.40	5.6	SR12	3/2/2017 8:01	17.78	122.2	8.31	6.6	SR12	3/2/2017 14:01	17.71	124.5	8.47	6.5	SR12	3/2/2017 20:01	17.64	120.8	8.22	6.1
SR12	3/2/2017 2:06	17.67	128.4	8.60	4.2	SR12	3/2/2017 8:06	17.56	121.0	8.23	4.6	SR12	3/2/2017 14:06	17.66	121.0	8.23	8.8	SR12	3/2/2017 20:06	17.64	122.9	8.36	6.7
SR12	3/2/2017 2:11	17.63	129.7	8.82	7.3	SR12	3/2/2017 8:11	17.76	123.0	8.37	5.9	SR12	3/2/2017 14:11	17.78	122.7	8.35	7.8	SR12	3/2/2017 20:11	17.73	126.6	8.61	7.7
SR12	3/2/2017 2:16	17.75	125.2	8.52	6.7	SR12	3/2/2017 8:16	17.56	123.0	8.37	5.8	SR12	3/2/2017 14:16	17.78	130.2	8.86	5.5	SR12	3/2/2017 20:16	17.75	129.9	8.84	6.6
SR12	3/2/2017 2:21	17.69	126.7	8.62	8.4	SR12	3/2/2017 8:21	17.68	126.4	8.60	4.8	SR12	3/2/2017 14:21	17.65	121.3	8.25	5.5	SR12	3/2/2017 20:21	17.55	126.9	8.63	7.2
SR12	3/2/2017 2:26	17.68	121.1	8.24	4.6	SR12	3/2/2017 8:26	17.66	124.4	8.46	8.3	SR12	3/2/2017 14:26	17.78	125.5	8.54	8.7	SR12	3/2/2017 20:26	17.60	121.6	8.27	8.3
SR12	3/2/2017 2:31	17.55	130.1	8.85	6.0	SR12	3/2/2017 8:31	17.58	122.9	8.36	7.8	SR12	3/2/2017 14:31	17.63	127.6	8.68	8.3	SR12	3/2/2017 20:31	17.67	130.4	8.87	8.7
SR12	3/2/2017 2:36	17.76	124.5	8.47	5.3	SR12	3/2/2017 8:36	17.62	128.2	8.72	5.3	SR12	3/2/2017 14:36	17.79	128.9	8.77	8.2	SR12	3/2/2017 20:36	17.60	123.5	8.40	5.0
SR12	3/2/2017 2:41	17.78	122.7	8.35	8.2	SR12	3/2/2017 8:41	17.79	130.1	8.85	7.9	SR12	3/2/2017 14:41	17.61	130.4	8.87	8.7	SR12	3/2/2017 20:41	17.57	127.2	8.65	5.2
SR12	3/2/2017 2:46	17.64	129.8	8.83	5.9	SR12	3/2/2017 8:46	17.61	126.9	8.63	8.3	SR12	3/2/2017 14:46	17.77	126.3	8.59	8.9	SR12	3/2/2017 20:46	17.56	123.2	8.38	6.5
SR12	3/2/2017 2:51	17.76	128.9	8.77	7.1	SR12	3/2/2017 8:51	17.79	122.6	8.34	4.4	SR12	3/2/2017 14:51	17.72	123.0	8.37	8.6	SR12	3/2/2017 20:51	17.77	127.6	8.68	6.4
SR12	3/2/2017 2:56	17.66	128.8	8.76	5.2	SR12	3/2/2017 8:56	17.59	128.3	8.73	8.6	SR12	3/2/2017 14:56	17.73	125.2	8.52	4.6	SR12	3/2/2017 20:56	17.67	120.5	8.20	8.4
SR12	3/2/2017 3:01	17.78	128.9	8.77	5.9	SR12	3/2/2017 9:01	17.61	120.5	8.20	4.1	SR12	3/2/2017 15:01	17.72	129.5	8.81	8.7	SR12	3/2/2017 21:01	17.63	129.8	8.83	6.7
SR12	3/2/2017 3:06	17.65	130.1	8.85	7.9	SR12	3/2/2017 9:06	17.58	128.5	8.74	5.0	SR12	3/2/2017 15:06	17.79	130.4	8.87	6.2	SR12	3/2/2017 21:06	17.77	122.2	8.31	8.0
SR12	3/2/2017 3:11	17.67	122.3	8.32	5.0	SR12	3/2/2017 9:11	17.60	125.4	8.53	6.2	SR12	3/2/2017 15:11	17.62	128.2	8.72	4.2	SR12	3/2/2017 21:11	17.65	125.5	8.54	4.7
SR12	3/2/2017 3:16	17.79	125.2	8.52	4.5	SR12	3/2/2017 9:16	17.57	129.5	8.81	7.6	SR12	3/2/2017 15:16	17.69	124.7	8.48	5.5	SR12	3/2/2017 21:16	17.70	125.8	8.56	5.3
SR12	3/2/2017 3:21	17.56	127.0	8.64	5.7	SR12	3/2/2017 9:21	17.58	124.5	8.47	7.1	SR12	3/2/2017 15:21	17.75	123.2	8.38	6.7	SR12	3/2/2017 21:21	17.72	121.1	8.24	7.8
SR12	3/2/2017 3:26	17.60	130.1	8.85	5.5	SR12	3/2/2017 9:26	17.61	121.1	8.24	7.1	SR12	3/2/2017 15:26	17.63	126.1	8.58	8.6	SR12	3/2/2017 21:26	17.73	122.3	8.32	6.3
SR12	3/2/2017 3:31	17.67	123.3	8.39	6.2	SR12	3/2/2017 9:31	17.68	120.7	8.21	4.2	SR12	3/2/2017 15:31	17.77	122.3	8.32	8.1	SR12	3/2/2017 21:31	17.66	125.4	8.53	8.3
SR12	3/2/2017 3:36	17.79	120.5	8.20	7.8	SR12	3/2/2017 9:36	17.70	123.2	8.38	8.9	SR12	3/2/2017 15:36	17.55	121.0	8.23	4.8	SR12	3/2/2017 21:36	17.76	124.1	8.44	5.7
SR12	3/2/2017 3:41	17.58	126.6	8.61	4.7	SR12	3/2/2017 9:41	17.74	121.4	8.26	7.8	SR12	3/2/2017 15:41	17.56	122.2	8.31	5.3	SR12	3/2/2017 21:41	17.76	127.0	8.64	9.0
SR12	3/2/2017 3:46	17.55	127.4	8.67	8.0	SR12	3/2/2017 9:46	17.61	125.1	8.51	6.8	SR12	3/2/2017 15:46	17.79	121.7	8.28	9.1	SR12	3/2/2017 21:46	17.66	124.7	8.48	6.6
SR12	3/2/2017 3:51	17.55	123.8	8.42	8.9	SR12	3/2/2017 9:51	17.70	127.4	8.67	8.2	SR12	3/2/2017 15:51	17.79</									

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR13	3/2/2017 0:00	17.58	130.7	8.83	5.1	SR13	3/2/2017 6:00	17.68	123.0	8.31	4.2	SR13	3/2/2017 12:00	17.56	123.0	8.31	3.5	SR13	3/2/2017 18:00	17.64	126.2	8.53	8.7
SR13	3/2/2017 0:05	17.70	128.3	8.67	8.0	SR13	3/2/2017 6:05	17.70	123.3	8.33	4.4	SR13	3/2/2017 12:05	17.74	130.7	8.83	2.8	SR13	3/2/2017 18:05	17.56	124.5	8.41	2.9
SR13	3/2/2017 0:10	17.71	127.3	8.60	7.6	SR13	3/2/2017 6:10	17.60	126.4	8.54	8.7	SR13	3/2/2017 12:10	17.61	129.1	8.72	7.6	SR13	3/2/2017 18:10	17.52	128.5	8.68	4.1
SR13	3/2/2017 0:15	17.70	127.1	8.59	4.4	SR13	3/2/2017 6:15	17.51	129.5	8.75	4.2	SR13	3/2/2017 12:15	17.57	131.0	8.85	8.0	SR13	3/2/2017 18:15	17.56	124.9	8.44	6.2
SR13	3/2/2017 0:20	17.58	127.9	8.64	6.4	SR13	3/2/2017 6:20	17.59	126.2	8.53	4.0	SR13	3/2/2017 12:20	17.62	123.9	8.37	4.6	SR13	3/2/2017 18:20	17.65	122.5	8.28	8.0
SR13	3/2/2017 0:25	17.75	121.1	8.18	6.9	SR13	3/2/2017 6:25	17.55	123.9	8.37	2.7	SR13	3/2/2017 12:25	17.54	128.8	8.70	8.0	SR13	3/2/2017 18:25	17.53	129.9	8.78	2.1
SR13	3/2/2017 0:30	17.75	125.5	8.48	7.3	SR13	3/2/2017 6:30	17.54	127.1	8.59	8.5	SR13	3/2/2017 12:30	17.61	122.2	8.26	4.2	SR13	3/2/2017 18:30	17.63	129.6	8.76	3.5
SR13	3/2/2017 0:35	17.53	129.2	8.73	4.4	SR13	3/2/2017 6:35	17.77	125.4	8.47	7.4	SR13	3/2/2017 12:35	17.74	125.5	8.48	8.3	SR13	3/2/2017 18:35	17.61	128.5	8.68	2.7
SR13	3/2/2017 0:40	17.60	131.3	8.87	7.8	SR13	3/2/2017 6:40	17.76	130.4	8.81	4.2	SR13	3/2/2017 12:40	17.77	127.6	8.62	7.8	SR13	3/2/2017 18:40	17.66	124.5	8.41	4.5
SR13	3/2/2017 0:45	17.61	124.8	8.43	7.9	SR13	3/2/2017 6:45	17.54	126.7	8.56	3.4	SR13	3/2/2017 12:45	17.56	129.5	8.75	2.3	SR13	3/2/2017 18:45	17.58	131.4	8.88	7.9
SR13	3/2/2017 0:50	17.56	120.9	8.17	8.3	SR13	3/2/2017 6:50	17.67	130.5	8.82	4.8	SR13	3/2/2017 12:50	17.67	121.4	8.20	8.0	SR13	3/2/2017 18:50	17.60	125.4	8.47	2.8
SR13	3/2/2017 0:55	17.66	124.8	8.43	6.7	SR13	3/2/2017 6:55	17.54	130.5	8.82	5.9	SR13	3/2/2017 12:55	17.67	124.0	8.38	7.6	SR13	3/2/2017 18:55	17.57	125.7	8.49	7.5
SR13	3/2/2017 1:00	17.51	122.0	8.24	5.6	SR13	3/2/2017 7:00	17.79	131.3	8.87	2.6	SR13	3/2/2017 13:00	17.52	125.4	8.47	6.3	SR13	3/2/2017 19:00	17.51	122.5	8.28	3.0
SR13	3/2/2017 1:05	17.64	126.5	8.55	3.6	SR13	3/2/2017 7:05	17.64	121.4	8.20	7.5	SR13	3/2/2017 13:05	17.58	124.8	8.43	2.9	SR13	3/2/2017 19:05	17.57	131.1	8.86	8.2
SR13	3/2/2017 1:10	17.64	129.1	8.72	3.7	SR13	3/2/2017 7:10	17.73	129.6	8.76	7.3	SR13	3/2/2017 13:10	17.65	128.8	8.70	7.5	SR13	3/2/2017 19:10	17.68	127.6	8.62	4.5
SR13	3/2/2017 1:15	17.75	122.8	8.30	7.9	SR13	3/2/2017 7:15	17.58	125.1	8.45	8.4	SR13	3/2/2017 13:15	17.58	128.3	8.67	5.4	SR13	3/2/2017 19:15	17.80	126.5	8.55	2.2
SR13	3/2/2017 1:20	17.79	122.1	8.25	4.3	SR13	3/2/2017 7:20	17.72	124.2	8.39	6.3	SR13	3/2/2017 13:20	17.65	126.2	8.53	7.8	SR13	3/2/2017 19:20	17.63	122.1	8.25	8.6
SR13	3/2/2017 1:25	17.61	122.4	8.27	7.8	SR13	3/2/2017 7:25	17.75	123.3	8.33	2.8	SR13	3/2/2017 13:25	17.77	128.9	8.71	4.8	SR13	3/2/2017 19:25	17.52	128.2	8.66	4.0
SR13	3/2/2017 1:30	17.70	123.7	8.36	5.4	SR13	3/2/2017 7:30	17.61	125.4	8.47	2.2	SR13	3/2/2017 13:30	17.61	124.8	8.43	3.4	SR13	3/2/2017 19:30	17.75	128.6	8.69	5.1
SR13	3/2/2017 1:35	17.66	123.4	8.34	7.1	SR13	3/2/2017 7:35	17.73	121.4	8.20	7.5	SR13	3/2/2017 13:35	17.69	128.6	8.69	3.3	SR13	3/2/2017 19:35	17.60	129.9	8.78	2.9
SR13	3/2/2017 1:40	17.77	128.2	8.66	3.6	SR13	3/2/2017 7:40	17.72	129.6	8.76	5.2	SR13	3/2/2017 13:40	17.79	131.4	8.88	4.7	SR13	3/2/2017 19:40	17.78	128.5	8.68	3.4
SR13	3/2/2017 1:45	17.66	124.8	8.43	6.0	SR13	3/2/2017 7:45	17.77	130.7	8.83	6.3	SR13	3/2/2017 13:45	17.53	126.1	8.52	2.1	SR13	3/2/2017 19:45	17.57	128.2	8.66	6.2
SR13	3/2/2017 1:50	17.52	125.5	8.48	5.6	SR13	3/2/2017 7:50	17.67	128.9	8.71	4.1	SR13	3/2/2017 13:50	17.75	130.7	8.83	3.6	SR13	3/2/2017 19:50	17.55	130.8	8.84	3.5
SR13	3/2/2017 1:55	17.76	129.1	8.72	8.7	SR13	3/2/2017 7:55	17.58	130.8	8.84	2.8	SR13	3/2/2017 13:55	17.53	123.9	8.37	4.3	SR13	3/2/2017 19:55	17.65	128.6	8.69	3.5
SR13	3/2/2017 2:00	17.52	126.2	8.53	4.4	SR13	3/2/2017 8:00	17.70	128.6	8.69	7.0	SR13	3/2/2017 14:00	17.65	127.7	8.63	1.9	SR13	3/2/2017 20:00	17.65	129.6	8.76	2.7
SR13	3/2/2017 2:05	17.76	128.8	8.70	4.0	SR13	3/2/2017 8:05	17.65	130.5	8.82	2.5	SR13	3/2/2017 14:05	17.55	121.5	8.21	4.5	SR13	3/2/2017 20:05	17.61	126.4	8.54	3.9
SR13	3/2/2017 2:10	17.56	126.7	8.56	4.9	SR13	3/2/2017 8:10	17.76	126.2	8.53	4.1	SR13	3/2/2017 14:10	17.50	126.4	8.54	7.8	SR13	3/2/2017 20:10	17.77	125.1	8.45	6.3
SR13	3/2/2017 2:15	17.52	124.2	8.39	5.6	SR13	3/2/2017 8:15	17.66	130.2	8.80	8.0	SR13	3/2/2017 14:15	17.71	127.7	8.63	2.6	SR13	3/2/2017 20:15	17.80	126.2	8.53	7.4
SR13	3/2/2017 2:20	17.52	125.5	8.48	5.7	SR13	3/2/2017 8:20	17.59	130.2	8.80	4.0	SR13	3/2/2017 14:20	17.79	122.8	8.30	6.3	SR13	3/2/2017 20:20	17.58	131.4	8.88	5.5
SR13	3/2/2017 2:25	17.56	123.3	8.33	7.3	SR13	3/2/2017 8:25	17.75	124.6	8.42	1.9	SR13	3/2/2017 14:25	17.54	128.8	8.70	5.2	SR13	3/2/2017 20:25	17.60	123.7	8.36	7.9
SR13	3/2/2017 2:30	17.51	130.5	8.82	5.4	SR13	3/2/2017 8:30	17.57	120.9	8.17	5.5	SR13	3/2/2017 14:30	17.52	121.4	8.20	3.5	SR13	3/2/2017 20:30	17.78	126.8	8.57	4.6
SR13	3/2/2017 2:35	17.66	127.7	8.63	7.1	SR13	3/2/2017 8:35	17.59	131.0	8.85	8.0	SR13	3/2/2017 14:35	17.61	125.7	8.49	7.9	SR13	3/2/2017 20:35	17.67	122.2	8.26	6.5
SR13	3/2/2017 2:40	17.79	121.8	8.23	4.0	SR13	3/2/2017 8:40	17.79	131.1	8.86	4.3	SR13	3/2/2017 14:40	17.66	130.8	8.84	7.6	SR13	3/2/2017 20:40	17.62	124.3	8.40	7.2
SR13	3/2/2017 2:45	17.80	129.4	8.74	7.4	SR13	3/2/2017 8:45	17.73	128.3	8.67	6.0	SR13	3/2/2017 14:45	17.70	122.4	8.27	4.1	SR13	3/2/2017 20:45	17.74	129.8	8.77	5.6
SR13	3/2/2017 2:50	17.58	121.7	8.22	5.4	SR13	3/2/2017 8:50	17.67	130.4	8.81	1.9	SR13	3/2/2017 14:50	17.80	128.8	8.70	3.2	SR13	3/2/2017 20:50	17.58	129.4	8.74	8.6
SR13	3/2/2017 2:55	17.67	125.8	8.50	3.7	SR13	3/2/2017 8:55	17.59	123.1	8.32	4.8	SR13	3/2/2017 14:55	17.61	127.9	8.64	7.4	SR13	3/2/2017 20:55	17.73	123.3	8.33	3.8
SR13	3/2/2017 3:00	17.79	122.8	8.30	3.1	SR13	3/2/2017 9:00	17.54	131.1	8.86	5.2	SR13	3/2/2017 15:00	17.77	121.2	8.19	5.7	SR13	3/2/2017 21:00	17.66	131.1	8.86	3.7
SR13	3/2/2017 3:05	17.79	125.2	8.46	2.2	SR13	3/2/2017 9:05	17.52	131.0	8.85	3.9	SR13	3/2/2017 15:05	17.57	121.1	8.18	4.8	SR13	3/2/2017 21:05	17.54	131.3	8.87	5.6
SR13	3/2/2017 3:10	17.52	123.9	8.37	4.0	SR13	3/2/2017 9:10	17.74	125.4	8.47	4.4	SR13	3/2/2017 15:10	17.63	121.2	8.19	3.1	SR13	3/2/2017 21:10	17.57	125.4	8.47	5.5
SR13	3/2/2017 3:15	17.53	122.5	8.28	3.7	SR13	3/2/2017 9:15	17.57	126.2	8.53	6.6	SR13	3/2/2017 15:15	17.66	127.9	8.64	5.6	SR13	3/2/2017 21:15	17.60	126.7	8.56	3.0
SR13	3/2/2017 3:20	17.56	123.3	8.33	6.0	SR13	3/2/2017 9:20	17.51	128.8	8.70	3.8	SR13	3/2/2017 15:20	17.72	128.8	8.70	7.5	SR13	3/2/2017 21:20	17.58	122.7	8.29	3.2
SR13	3/2/2017 3:25	17.76	121.8	8.23	5.9	SR13	3/2/2017 9:25	17.65	120.9	8.17	8.4	SR13	3/2/2017 15:25	17.55	130.2	8.80	5.7	SR13	3/2/2017 21:25	17.52	129.8	8.77	4.6
SR13	3/2/2017 3:30	17.74	126.5	8.55	2.1	SR13	3/2/2017 9:30	17.78	131.0	8.85	4.2	SR13	3/2/2017 15:30	17.63	127.3	8.60	5.4	SR13	3/2/2017 21:30	17.71	121.4	8.20	3.3
SR13	3/2/2017 3:35	17.63	131.6	8.89	4.9	SR13	3/2/2017 9:35	17.69	125.8	8.50	5.7	SR13	3/2/2017 15:35	17.74	126.7	8.56	3.4	SR13	3/2/2017 21:35	17.55	127.7	8.63	5.4
SR13	3/2/2017 3:40	17.64	125.5	8.48	5.1	SR13	3/2/2017 9:40	17.58	129.6	8.76	5.5	SR13	3/2/2017 15:40	17.80	130.4	8.81	3.8	SR13	3/2/2017 21:40	17.65	127.7	8.63	6.7
SR13	3/2/2017 3:45	17.70	128.6	8.69	5.8	SR13	3/2/2017 9:45	17.67	129.8	8.77	4.1	SR13	3/2/2017 15:45	17.56	131.6	8.89	3.5	SR13	3/2/2017 21:45	17.68	128.8	8.70	8.5
SR13	3/2/2017 3:50	17.67	125.8	8.50	3.5	SR13	3/2/2017 9:50	17.54	122.4	8.27	7.8	SR13	3/2/2017 15:50	17.65	124.9	8.44	6.9						

24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	3/2/2017 0:17	0.14				SR12	3/2/2017 0:17	0.13			
SR4	3/2/2017 0:37	0.15				SR12	3/2/2017 0:37	0.13			
SR4	3/2/2017 0:57	0.16				SR12	3/2/2017 0:57	0.12			
SR4	3/2/2017 1:17	0.15				SR12	3/2/2017 1:17	0.11			
SR4	3/2/2017 1:37	0.16				SR12	3/2/2017 1:37	0.13			
SR4	3/2/2017 1:57	0.15				SR12	3/2/2017 1:57	0.14			
SR4	3/2/2017 2:17	0.12				SR12	3/2/2017 2:17	0.10			
SR4	3/2/2017 2:37	0.12				SR12	3/2/2017 2:37	0.12			
SR4	3/2/2017 2:57	0.15				SR12	3/2/2017 2:57	0.10			
SR4	3/2/2017 3:17	0.15				SR12	3/2/2017 3:17	0.11			
SR4	3/2/2017 3:37	0.14				SR12	3/2/2017 3:37	0.12			
SR4	3/2/2017 3:57	0.13				SR12	3/2/2017 3:57	0.13			
SR4	3/2/2017 4:17	0.13				SR12	3/2/2017 4:17	0.12			
SR4	3/2/2017 4:37	0.13				SR12	3/2/2017 4:37	0.11			
SR4	3/2/2017 4:57	0.15				SR12	3/2/2017 4:57	0.14			
SR4	3/2/2017 5:17	0.12				SR12	3/2/2017 5:17	0.14			
SR4	3/2/2017 5:37	0.14				SR12	3/2/2017 5:37	0.10			
SR4	3/2/2017 5:57	0.14				SR12	3/2/2017 5:57	0.11			
SR4						SR12					
SR4	3/2/2017 6:37	0.15				SR12	3/2/2017 6:37	0.10			
SR4	3/2/2017 6:57	0.14				SR12	3/2/2017 6:57	0.10			
SR4	3/2/2017 7:17	0.12				SR12	3/2/2017 7:17	0.14			
SR4	3/2/2017 7:37	0.15				SR12	3/2/2017 7:37	0.11			
SR4	3/2/2017 7:57	0.14				SR12	3/2/2017 7:57	0.10			
SR4	3/2/2017 8:17	0.16				SR12	3/2/2017 8:17	0.13			
SR4	3/2/2017 8:37	0.14				SR12	3/2/2017 8:37	0.13			
SR4	3/2/2017 8:57	0.12				SR12	3/2/2017 8:57	0.14			
SR4	3/2/2017 9:17	0.15				SR12	3/2/2017 9:17	0.14			
SR4	3/2/2017 9:37	0.12				SR12	3/2/2017 9:37	0.10			
SR4	3/2/2017 9:57	0.14				SR12	3/2/2017 9:57	0.13			
SR4	3/2/2017 10:17	0.15				SR12	3/2/2017 10:17	0.11			
SR4	3/2/2017 10:37	0.16				SR12	3/2/2017 10:37	0.13			
SR4	3/2/2017 10:57	0.14				SR12	3/2/2017 10:57	0.14			
SR4	3/2/2017 11:17	0.13				SR12	3/2/2017 11:17	0.12			
SR4	3/2/2017 11:37	0.15				SR12	3/2/2017 11:37	0.15			
SR4	3/2/2017 11:57	0.17				SR12	3/2/2017 11:57	0.15			
SR4	3/2/2017 12:17	0.14				SR12	3/2/2017 12:17	0.11			
SR4	3/2/2017 12:37	0.14				SR12	3/2/2017 12:37	0.15			
SR4	3/2/2017 12:57	0.14				SR12	3/2/2017 12:57	0.12			
SR4	3/2/2017 13:17	0.16				SR12	3/2/2017 13:17	0.15			
SR4	3/2/2017 13:37	0.14				SR12	3/2/2017 13:37	0.12			
SR4	3/2/2017 13:57	0.13				SR12	3/2/2017 13:57	0.14			
SR4	3/2/2017 14:17	0.14				SR12	3/2/2017 14:17	0.14			
SR4	3/2/2017 14:37	0.13				SR12	3/2/2017 14:37	0.12			
SR4	3/2/2017 14:57	0.16				SR12	3/2/2017 14:57	0.12			
SR4	3/2/2017 15:17	0.13				SR12	3/2/2017 15:17	0.14			
SR4	3/2/2017 15:37	0.14				SR12	3/2/2017 15:37	0.14			
SR4	3/2/2017 15:57	0.13				SR12	3/2/2017 15:57	0.11			
SR4	3/2/2017 16:17	0.14				SR12	3/2/2017 16:17	0.13			
SR4	3/2/2017 16:37	0.13				SR12	3/2/2017 16:37	0.12			
SR4	3/2/2017 16:57	0.17				SR12	3/2/2017 16:57	0.11			
SR4	3/2/2017 17:17	0.17				SR12	3/2/2017 17:17	0.15			
SR4	3/2/2017 17:37	0.16				SR12	3/2/2017 17:37	0.12			
SR4	3/2/2017 17:57	0.15				SR12	3/2/2017 17:57	0.14			
SR4	3/2/2017 18:17	0.13				SR12	3/2/2017 18:17	0.13			
SR4	3/2/2017 18:37	0.16				SR12	3/2/2017 18:37	0.11			
SR4	3/2/2017 18:57	0.13				SR12	3/2/2017 18:57	0.14			
SR4	3/2/2017 19:17	0.13				SR12	3/2/2017 19:17	0.11			
SR4	3/2/2017 19:37	0.13				SR12	3/2/2017 19:37	0.11			
SR4	3/2/2017 19:57	0.15				SR12	3/2/2017 19:57	0.12			
SR4	3/2/2017 20:17	0.14				SR12	3/2/2017 20:17	0.15			
SR4	3/2/2017 20:37	0.15				SR12	3/2/2017 20:37	0.13			
SR4	3/2/2017 20:57	0.14				SR12	3/2/2017 20:57	0.12			
SR4	3/2/2017 21:17	0.13				SR12	3/2/2017 21:17	0.11			
SR4	3/2/2017 21:37	0.15				SR12	3/2/2017 21:37	0.12			
SR4	3/2/2017 21:57	0.14				SR12	3/2/2017 21:57	0.12			
SR4	3/2/2017 22:17	0.17				SR12	3/2/2017 22:17	0.14			
SR4	3/2/2017 22:37	0.17				SR12	3/2/2017 22:37	0.15			
SR4	3/2/2017 22:57	0.15				SR12	3/2/2017 22:57	0.13			
SR4	3/2/2017 23:17	0.13				SR12	3/2/2017 23:17	0.11			
SR4	3/2/2017 23:37	0.14				SR12	3/2/2017 23:37	0.13			
SR4	3/2/2017 23:57	0.17				SR12	3/2/2017 23:57	0.13			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12. SR5 monitoring station was under maintenance during 12:45-13:10.

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR4	3/3/2017 0:01	17.43	106.0	7.21	4.1	SR4	3/3/2017 6:01	17.38	105.4	7.17	3.7	SR4	3/3/2017 12:01	17.40	105.4	7.17	6.3	SR4	3/3/2017 18:01	17.22	105.4	7.17	5.5
SR4	3/3/2017 0:06	17.29	110.4	7.51	7.3	SR4	3/3/2017 6:06	17.27	109.7	7.46	4.7	SR4	3/3/2017 12:06	17.41	110.1	7.49	7.8	SR4	3/3/2017 18:06	17.43	107.6	7.32	4.7
SR4	3/3/2017 0:11	17.31	108.9	7.41	5.2	SR4	3/3/2017 6:11	17.52	106.1	7.22	8.8	SR4	3/3/2017 12:11	17.30	107.9	7.34	4.3	SR4	3/3/2017 18:11	17.42	104.8	7.13	7.6
SR4	3/3/2017 0:16	17.36	109.5	7.45	7.7	SR4	3/3/2017 6:16	17.47	109.8	7.47	10.9	SR4	3/3/2017 12:16	17.49	110.7	7.53	4.6	SR4	3/3/2017 18:16	17.23	108.8	7.40	3.8
SR4	3/3/2017 0:21	17.32	106.1	7.22	7.6	SR4	3/3/2017 6:21	17.29	107.8	7.33	4.7	SR4	3/3/2017 12:21	17.31	107.8	7.33	8.8	SR4	3/3/2017 18:21	17.31	110.8	7.54	5.2
SR4	3/3/2017 0:26	17.45	111.4	7.58	6.0	SR4	3/3/2017 6:26	17.51	106.9	7.27	5.5	SR4	3/3/2017 12:26	17.51	105.3	7.16	8.7	SR4	3/3/2017 18:26	17.27	111.6	7.59	7.3
SR4	3/3/2017 0:31	17.27	106.7	7.26	7.1	SR4	3/3/2017 6:31	17.50	108.8	7.40	6.1	SR4	3/3/2017 12:31	17.27	106.9	7.27	6.5	SR4	3/3/2017 18:31	17.31	112.2	7.63	6.5
SR4	3/3/2017 0:36	17.53	106.3	7.23	6.1	SR4	3/3/2017 6:36	17.53	105.8	7.20	7.4	SR4	3/3/2017 12:36	17.38	108.3	7.37	4.5	SR4	3/3/2017 18:36	17.53	107.3	7.30	7.9
SR4	3/3/2017 0:41	17.39	104.7	7.12	6.0	SR4	3/3/2017 6:41	17.28	109.7	7.46	8.6	SR4	3/3/2017 12:41	17.34	106.1	7.22	6.2	SR4	3/3/2017 18:41	17.54	110.3	7.50	7.8
SR4	3/3/2017 0:46	17.29	110.8	7.54	6.5	SR4	3/3/2017 6:46	17.39	111.3	7.57	11.3	SR4	3/3/2017 12:46	17.32	108.8	7.40	3.8	SR4	3/3/2017 18:46	17.50	111.4	7.58	7.2
SR4	3/3/2017 0:51	17.49	108.8	7.40	4.0	SR4	3/3/2017 6:51	17.48	111.0	7.55	8.2	SR4	3/3/2017 12:51	17.30	106.4	7.24	8.8	SR4	3/3/2017 18:51	17.22	110.5	7.52	8.7
SR4	3/3/2017 0:56	17.43	107.2	7.29	8.6	SR4	3/3/2017 6:56	17.54	110.4	7.51	8.5	SR4	3/3/2017 12:56	17.40	109.4	7.44	7.8	SR4	3/3/2017 18:56	17.36	109.7	7.46	5.3
SR4	3/3/2017 1:01	17.35	112.5	7.65	4.0	SR4	3/3/2017 7:01	17.35	105.8	7.20	7.7	SR4	3/3/2017 13:01	17.34	108.2	7.36	8.1	SR4	3/3/2017 19:01	17.35	110.5	7.52	5.2
SR4	3/3/2017 1:06	17.44	110.0	7.48	4.2	SR4	3/3/2017 7:06	17.52	111.3	7.57	7.6	SR4	3/3/2017 13:06	17.33	107.5	7.31	4.5	SR4	3/3/2017 19:06	17.20	108.6	7.39	5.3
SR4	3/3/2017 1:11	17.45	112.6	7.66	7.2	SR4	3/3/2017 7:11	17.21	109.4	7.44	5.7	SR4	3/3/2017 13:11	17.53	112.2	7.63	7.0	SR4	3/3/2017 19:11	17.21	107.5	7.31	4.4
SR4	3/3/2017 1:16	17.24	105.0	7.14	4.9	SR4	3/3/2017 7:16	17.39	110.7	7.53	6.6	SR4	3/3/2017 13:16	17.26	107.2	7.29	8.5	SR4	3/3/2017 19:16	17.34	109.4	7.44	4.9
SR4	3/3/2017 1:21	17.26	111.0	7.55	6.1	SR4	3/3/2017 7:21	17.38	105.8	7.20	4.0	SR4	3/3/2017 13:21	17.43	106.7	7.26	4.5	SR4	3/3/2017 19:21	17.42	112.6	7.66	4.7
SR4	3/3/2017 1:26	17.40	107.0	7.28	5.9	SR4	3/3/2017 7:26	17.34	108.0	7.35	8.2	SR4	3/3/2017 13:26	17.54	108.2	7.36	6.6	SR4	3/3/2017 19:26	17.42	108.2	7.36	4.7
SR4	3/3/2017 1:31	17.54	106.6	7.25	3.9	SR4	3/3/2017 7:31	17.41	111.3	7.57	5.1	SR4	3/3/2017 13:31	17.29	109.4	7.44	5.5	SR4	3/3/2017 19:31	17.53	106.4	7.24	8.2
SR4	3/3/2017 1:36	17.38	106.7	7.26	8.6	SR4	3/3/2017 7:36	17.26	110.5	7.52	8.1	SR4	3/3/2017 13:36	17.34	107.6	7.32	5.3	SR4	3/3/2017 19:36	17.24	108.3	7.37	7.2
SR4	3/3/2017 1:41	17.42	106.0	7.21	5.6	SR4	3/3/2017 7:41	17.46	107.2	7.29	4.6	SR4	3/3/2017 13:41	17.29	107.2	7.29	8.2	SR4	3/3/2017 19:41	17.31	107.9	7.34	8.1
SR4	3/3/2017 1:46	17.51	105.7	7.19	6.3	SR4	3/3/2017 7:46	17.49	110.4	7.51	5.5	SR4	3/3/2017 13:46	17.33	112.2	7.63	5.1	SR4	3/3/2017 19:46	17.21	107.9	7.34	6.3
SR4	3/3/2017 1:51	17.30	105.4	7.17	5.3	SR4	3/3/2017 7:51	17.20	108.8	7.40	8.1	SR4	3/3/2017 13:51	17.40	109.2	7.43	8.3	SR4	3/3/2017 19:51	17.42	104.7	7.12	5.4
SR4	3/3/2017 1:56	17.21	111.4	7.58	5.5	SR4	3/3/2017 7:56	17.49	106.7	7.26	8.7	SR4	3/3/2017 13:56	17.47	111.6	7.59	4.8	SR4	3/3/2017 19:56	17.44	110.0	7.48	8.4
SR4	3/3/2017 2:01	17.42	107.8	7.33	7.5	SR4	3/3/2017 8:01	17.20	110.8	7.54	8.2	SR4	3/3/2017 14:01	17.32	110.7	7.53	4.8	SR4	3/3/2017 20:01	17.48	111.4	7.58	5.4
SR4	3/3/2017 2:06	17.26	105.8	7.20	7.0	SR4	3/3/2017 8:06	17.35	106.1	7.22	4.7	SR4	3/3/2017 14:06	17.32	111.3	7.57	7.9	SR4	3/3/2017 20:06	17.34	110.3	7.50	8.4
SR4	3/3/2017 2:11	17.33	106.9	7.27	4.8	SR4	3/3/2017 8:11	17.45	105.7	7.19	8.4	SR4	3/3/2017 14:11	17.27	104.8	7.13	8.1	SR4	3/3/2017 20:11	17.27	105.0	7.14	5.5
SR4	3/3/2017 2:16	17.54	107.3	7.30	6.6	SR4	3/3/2017 8:16	17.29	105.1	7.15	8.3	SR4	3/3/2017 14:16	17.39	112.5	7.65	7.6	SR4	3/3/2017 20:16	17.35	105.1	7.15	5.6
SR4	3/3/2017 2:21	17.53	110.1	7.49	5.0	SR4	3/3/2017 8:21	17.53	109.1	7.42	5.5	SR4	3/3/2017 14:21	17.42	106.9	7.27	6.5	SR4	3/3/2017 20:21	17.20	108.9	7.41	6.4
SR4	3/3/2017 2:26	17.49	110.7	7.53	8.2	SR4	3/3/2017 8:26	17.45	107.9	7.34	5.3	SR4	3/3/2017 14:26	17.21	107.5	7.31	8.6	SR4	3/3/2017 20:26	17.20	105.4	7.17	4.4
SR4	3/3/2017 2:31	17.46	110.8	7.54	6.9	SR4	3/3/2017 8:31	17.37	112.6	7.66	4.7	SR4	3/3/2017 14:31	17.55	111.9	7.61	7.2	SR4	3/3/2017 20:31	17.22	105.7	7.19	7.9
SR4	3/3/2017 2:36	17.23	108.9	7.41	7.1	SR4	3/3/2017 8:36	17.36	105.3	7.16	6.7	SR4	3/3/2017 14:36	17.25	109.2	7.43	4.7	SR4	3/3/2017 20:36	17.40	111.9	6.61	8.7
SR4	3/3/2017 2:41	17.46	111.3	7.57	4.8	SR4	3/3/2017 8:41	17.22	105.5	7.18	6.8	SR4	3/3/2017 14:41	17.55	107.0	7.28	8.5	SR4	3/3/2017 20:41	17.51	108.2	7.36	7.1
SR4	3/3/2017 2:46	17.40	110.1	7.49	7.2	SR4	3/3/2017 8:46	17.34	106.3	7.23	6.4	SR4	3/3/2017 14:46	17.54	105.0	7.14	4.7	SR4	3/3/2017 20:46	17.22	109.4	7.44	6.2
SR4	3/3/2017 2:51	17.36	110.0	7.48	5.2	SR4	3/3/2017 8:51	17.36	111.6	7.59	6.1	SR4	3/3/2017 14:51	17.34	111.0	7.55	4.3	SR4	3/3/2017 20:51	17.49	105.8	7.20	7.1
SR4	3/3/2017 2:56	17.40	105.5	7.18	4.7	SR4	3/3/2017 8:56	17.41	111.9	7.61	8.3	SR4	3/3/2017 14:56	17.55	106.7	7.26	5.8	SR4	3/3/2017 20:56	17.39	109.4	7.44	4.0
SR4	3/3/2017 3:01	17.37	104.8	7.13	7.3	SR4	3/3/2017 9:01	17.25	109.8	7.47	6.6	SR4	3/3/2017 15:01	17.46	107.3	7.30	4.8	SR4	3/3/2017 21:01	17.29	104.7	7.12	6.7
SR4	3/3/2017 3:06	17.46	111.4	7.58	4.3	SR4	3/3/2017 9:06	17.21	106.0	7.21	4.3	SR4	3/3/2017 15:06	17.55	106.7	7.26	5.3	SR4	3/3/2017 21:06	17.42	110.8	7.54	6.7
SR4	3/3/2017 3:11	17.25	111.3	7.57	4.4	SR4	3/3/2017 9:11	17.22	110.0	7.48	6.9	SR4	3/3/2017 15:11	17.36	108.3	7.37	6.2	SR4	3/3/2017 21:11	17.44	112.0	7.62	6.0
SR4	3/3/2017 3:16	17.43	112.3	7.64	5.7	SR4	3/3/2017 9:16	17.30	107.2	7.29	5.4	SR4	3/3/2017 15:16	17.34	104.7	7.12	4.1	SR4	3/3/2017 21:16	17.55	108.3	7.37	3.7
SR4	3/3/2017 3:21	17.40	107.0	7.28	5.3	SR4	3/3/2017 9:21	17.25	111.0	7.55	4.6	SR4	3/3/2017 15:21	17.24	107.0	7.28	4.6	SR4	3/3/2017 21:21	17.27	111.3	7.57	7.4
SR4	3/3/2017 3:26	17.41	111.3	7.57	5.5	SR4	3/3/2017 9:26	17.28	108.2	7.36	4.5	SR4	3/3/2017 15:26	17.54	111.1	7.56	7.4	SR4	3/3/2017 21:26	17.26	106.9	7.27	4.2
SR4	3/3/2017 3:31	17.39	112.3	7.64	6.0	SR4	3/3/2017 9:31	17.55	111.9	7.61	8.4	SR4	3/3/2017 15:31	17.26	106.1	7.22	4.1	SR4	3/3/2017 21:31	17.20	111.0	7.55	8.0
SR4	3/3/2017 3:36	17.28	107.6	7.32	4.9	SR4	3/3/2017 9:36	17.24	112.6	7.66	5.3	SR4	3/3/2017 15:36	17.41	111.6	7.59	5.3	SR4	3/3/2017 21:36	17.30	112.6	7.66	8.0
SR4	3/3/2017 3:41	17.50	107.6	7.32	8.3	SR4	3/3/2017 9:41	17.24	111.7	7.60	7.2	SR4	3/3/2017 15:41	17.33	106.1	7.22	5.8	SR4	3/3/2017 21:41	17.35	106.1	7.22	6.0
SR4	3/3/2017 3:46	17.37	104.8	7.13	8.5	SR4	3/3/2017 9:46	17.48	108.5	7.38	8.0	SR4	3/3/2017 15:46	17.20	105.5	7.18	3.7	SR4	3/3/2017 21:46	17.35	107.5	7.31	5.9
SR4	3/3/2017 3:51	17.51	106.3	7.23	4.5	SR4	3/3/2017 9:51	17.29	109.4	7.44	8.2	SR4	3/3/2017 15:51	17.40	111.0	7.55	8.4	SR4	3/3/2017 21:51	17.33	107.9	7.34	8.4
SR4	3/3/2017 3:56	17.47	105.1	7.15	8.0	SR4	3/3/2017 9:56	17															

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR5	3/3/2017 0:00	18.00	109.2	7.43	3.1	SR5	3/3/2017 6:00	17.95	114.8	7.81	3.3	SR5	3/3/2017 12:00	17.96	113.8	7.74	2.0	SR5	3/3/2017 18:00	18.02	110.0	7.48	1.9
SR5	3/3/2017 0:05	18.13	117.3	7.98	2.4	SR5	3/3/2017 6:05	18.06	108.2	7.36	5.9	SR5	3/3/2017 12:05	18.17	110.7	7.53	4.1	SR5	3/3/2017 18:05	18.08	108.6	7.39	3.8
SR5	3/3/2017 0:10	18.14	109.4	7.44	4.7	SR5	3/3/2017 6:10	18.12	111.4	7.58	3.9	SR5	3/3/2017 12:10	18.09	116.6	7.93	3.2	SR5	3/3/2017 18:10	18.18	118.6	8.07	4.3
SR5	3/3/2017 0:15	18.07	107.8	7.33	3.0	SR5	3/3/2017 6:15	17.96	115.5	7.86	2.5	SR5	3/3/2017 12:15	17.98	116.7	7.94	5.8	SR5	3/3/2017 18:15	17.97	116.7	7.94	4.7
SR5	3/3/2017 0:20	18.18	112.3	7.64	2.8	SR5	3/3/2017 6:20	18.20	109.1	7.42	2.7	SR5	3/3/2017 12:20	17.98	113.2	7.70	2.6	SR5	3/3/2017 18:20	18.01	118.0	8.03	4.0
SR5	3/3/2017 0:25	18.15	110.7	7.53	2.1	SR5	3/3/2017 6:25	18.04	115.5	7.86	4.4	SR5	3/3/2017 12:25	18.19	116.6	7.93	2.0	SR5	3/3/2017 18:25	18.16	118.2	8.04	5.3
SR5	3/3/2017 0:30	17.97	111.6	7.59	1.9	SR5	3/3/2017 6:30	18.05	113.3	7.71	3.1	SR5	3/3/2017 12:30	18.17	117.6	8.00	3.6	SR5	3/3/2017 18:30	18.15	116.7	7.94	3.5
SR5	3/3/2017 0:35	18.12	113.5	7.72	1.8	SR5	3/3/2017 6:35	18.07	109.4	7.44	2.1	SR5	3/3/2017 12:35	18.08	113.5	7.72	5.7	SR5	3/3/2017 18:35	18.04	116.7	7.94	1.8
SR5	3/3/2017 0:40	18.17	106.4	7.24	6.0	SR5	3/3/2017 6:40	17.95	118.0	8.03	5.8	SR5	3/3/2017 12:40	17.95	112.2	7.63	2.1	SR5	3/3/2017 18:40	18.18	107.6	7.32	4.6
SR5	3/3/2017 0:45	18.11	108.2	7.36	4.2	SR5	3/3/2017 6:45	18.14	109.1	7.42	1.9	SR5	3/3/2017 12:45	18.05	110.5	7.52	2.5	SR5	3/3/2017 18:45	18.04	111.4	7.58	3.3
SR5	3/3/2017 0:50	18.15	113.0	7.69	3.5	SR5	3/3/2017 6:50	18.03	112.9	7.68	3.3	SR5	3/3/2017 12:50	18.06	111.6	7.59	4.0	SR5	3/3/2017 18:50	18.02	108.3	7.37	2.1
SR5	3/3/2017 0:55	18.05	118.8	8.08	1.8	SR5	3/3/2017 6:55	18.06	110.0	7.48	4.8	SR5	3/3/2017 12:55	18.07	111.9	7.61	3.0	SR5	3/3/2017 18:55	17.95	111.6	7.59	3.5
SR5	3/3/2017 1:00	18.18	116.6	7.93	4.3	SR5	3/3/2017 7:00	18.14	113.5	7.72	5.5	SR5	3/3/2017 13:00	18.09	116.4	7.92	5.1	SR5	3/3/2017 19:00	18.21	114.1	7.76	3.9
SR5	3/3/2017 1:05	18.09	116.1	7.90	2.1	SR5	3/3/2017 7:05	18.12	115.5	7.86	3.0	SR5	3/3/2017 13:05	18.01	106.4	7.24	4.7	SR5	3/3/2017 19:05	18.04	111.1	7.56	3.4
SR5	3/3/2017 1:10	18.01	114.7	7.80	4.3	SR5	3/3/2017 7:10	18.17	112.0	7.62	3.6	SR5	3/3/2017 13:10	18.06	115.2	7.84	3.1	SR5	3/3/2017 19:10	18.20	118.5	8.06	3.7
SR5	3/3/2017 1:15	18.09	115.2	7.84	1.7	SR5	3/3/2017 7:15	18.06	108.2	7.36	3.6	SR5	3/3/2017 13:15	17.99	112.7	7.67	4.9	SR5	3/3/2017 19:15	18.08	108.0	7.35	5.6
SR5	3/3/2017 1:20	17.98	108.0	7.35	2.1	SR5	3/3/2017 7:20	18.12	110.8	7.54	4.6	SR5	3/3/2017 13:20	18.16	116.0	7.89	5.5	SR5	3/3/2017 19:20	17.99	107.3	7.30	2.0
SR5	3/3/2017 1:25	18.10	119.1	8.10	1.9	SR5	3/3/2017 7:25	18.06	117.3	7.98	2.1	SR5	3/3/2017 13:25	18.11	115.0	7.82	2.9	SR5	3/3/2017 19:25	18.13	110.1	7.49	1.8
SR5	3/3/2017 1:30	18.11	109.2	7.43	3.8	SR5	3/3/2017 7:30	18.08	113.3	7.71	2.1	SR5	3/3/2017 13:30	18.04	116.6	7.93	5.1	SR5	3/3/2017 19:30	18.09	110.5	7.52	3.6
SR5	3/3/2017 1:35	18.02	110.0	7.48	3.9	SR5	3/3/2017 7:35	18.11	110.3	7.50	2.3	SR5	3/3/2017 13:35	17.96	106.6	7.25	3.6	SR5	3/3/2017 19:35	18.03	110.1	7.49	2.6
SR5	3/3/2017 1:40	17.95	115.4	7.85	2.4	SR5	3/3/2017 7:40	18.07	117.2	7.97	5.1	SR5	3/3/2017 13:40	18.01	107.5	7.31	6.0	SR5	3/3/2017 19:40	18.01	115.0	7.82	5.7
SR5	3/3/2017 1:45	18.10	116.6	7.93	4.7	SR5	3/3/2017 7:45	18.15	115.4	7.85	3.8	SR5	3/3/2017 13:45	18.01	110.5	7.52	5.9	SR5	3/3/2017 19:45	17.97	110.8	7.54	5.0
SR5	3/3/2017 1:50	17.95	112.9	7.68	4.3	SR5	3/3/2017 7:50	18.21	112.3	7.64	1.5	SR5	3/3/2017 13:50	18.07	116.6	7.93	5.7	SR5	3/3/2017 19:50	18.14	112.0	7.62	5.4
SR5	3/3/2017 1:55	18.01	107.9	7.34	5.2	SR5	3/3/2017 7:55	18.11	118.2	8.04	1.7	SR5	3/3/2017 13:55	18.16	111.1	7.56	5.2	SR5	3/3/2017 19:55	18.13	109.8	7.47	5.5
SR5	3/3/2017 2:00	17.99	118.0	8.03	2.5	SR5	3/3/2017 8:00	17.99	111.6	7.59	2.9	SR5	3/3/2017 14:00	18.04	115.5	7.86	3.9	SR5	3/3/2017 20:00	18.15	114.2	7.77	5.2
SR5	3/3/2017 2:05	17.98	115.7	7.87	3.0	SR5	3/3/2017 8:05	17.97	112.9	7.68	4.9	SR5	3/3/2017 14:05	18.00	107.9	7.34	4.6	SR5	3/3/2017 20:05	17.99	118.0	8.03	3.2
SR5	3/3/2017 2:10	18.00	113.5	7.72	2.8	SR5	3/3/2017 8:10	18.16	112.7	7.67	4.4	SR5	3/3/2017 14:10	17.95	115.5	7.86	4.8	SR5	3/3/2017 20:10	18.08	114.4	7.78	2.2
SR5	3/3/2017 2:15	18.15	110.4	7.51	2.4	SR5	3/3/2017 8:15	18.01	110.5	7.52	2.9	SR5	3/3/2017 14:15	18.08	107.9	7.34	5.1	SR5	3/3/2017 20:15	18.21	115.2	7.84	3.5
SR5	3/3/2017 2:20	18.11	116.6	7.93	3.6	SR5	3/3/2017 8:20	18.05	106.7	7.26	1.5	SR5	3/3/2017 14:20	18.13	115.0	7.82	6.1	SR5	3/3/2017 20:20	18.01	115.8	7.88	3.5
SR5	3/3/2017 2:25	18.07	108.2	7.36	3.4	SR5	3/3/2017 8:25	18.15	112.0	7.62	1.9	SR5	3/3/2017 14:25	18.14	112.2	7.63	4.7	SR5	3/3/2017 20:25	18.02	118.9	8.09	3.8
SR5	3/3/2017 2:30	18.01	107.3	7.30	1.7	SR5	3/3/2017 8:30	18.01	119.1	8.10	3.7	SR5	3/3/2017 14:30	17.96	107.0	7.28	5.6	SR5	3/3/2017 20:30	18.06	115.8	7.88	1.8
SR5	3/3/2017 2:35	18.13	115.4	7.85	5.7	SR5	3/3/2017 8:35	17.99	113.5	7.72	1.8	SR5	3/3/2017 14:35	18.01	110.0	7.48	1.8	SR5	3/3/2017 20:35	18.05	112.7	7.67	3.6
SR5	3/3/2017 2:40	18.09	114.1	7.76	6.0	SR5	3/3/2017 8:40	18.10	108.8	7.40	3.8	SR5	3/3/2017 14:40	18.16	116.1	7.90	1.7	SR5	3/3/2017 20:40	18.15	108.2	7.36	3.2
SR5	3/3/2017 2:45	18.08	110.4	7.51	4.4	SR5	3/3/2017 8:45	17.99	114.8	7.81	5.8	SR5	3/3/2017 14:45	18.01	113.0	7.69	7.2	SR5	3/3/2017 20:45	18.02	111.4	7.58	2.4
SR5	3/3/2017 2:50	18.11	111.1	7.56	2.9	SR5	3/3/2017 8:50	18.03	117.6	8.00	3.0	SR5	3/3/2017 14:50	18.07	108.2	7.36	5.3	SR5	3/3/2017 20:50	17.99	116.4	7.92	5.1
SR5	3/3/2017 2:55	18.09	117.7	8.01	5.8	SR5	3/3/2017 8:55	17.99	107.3	7.30	4.4	SR5	3/3/2017 14:55	18.14	108.2	7.36	4.0	SR5	3/3/2017 20:55	18.15	107.0	7.28	2.1
SR5	3/3/2017 3:00	17.95	106.7	7.26	1.8	SR5	3/3/2017 9:00	18.10	117.5	7.99	5.8	SR5	3/3/2017 15:00	18.11	112.3	7.64	4.0	SR5	3/3/2017 21:00	18.14	111.1	7.56	5.4
SR5	3/3/2017 3:05	17.98	109.1	7.42	6.4	SR5	3/3/2017 9:05	18.17	115.1	7.83	6.0	SR5	3/3/2017 15:05	18.15	118.2	8.04	4.7	SR5	3/3/2017 21:05	18.12	111.3	7.57	2.4
SR5	3/3/2017 3:10	18.08	108.5	7.38	5.6	SR5	3/3/2017 9:10	18.02	111.9	7.61	2.3	SR5	3/3/2017 15:10	18.13	111.6	7.59	5.4	SR5	3/3/2017 21:10	17.99	108.0	7.35	5.2
SR5	3/3/2017 3:15	18.21	106.3	7.23	3.8	SR5	3/3/2017 9:15	18.08	108.6	7.39	4.3	SR5	3/3/2017 15:15	17.98	112.3	7.64	4.1	SR5	3/3/2017 21:15	17.99	115.2	7.84	2.0
SR5	3/3/2017 3:20	18.02	112.3	7.64	3.0	SR5	3/3/2017 9:20	18.17	118.5	8.06	3.1	SR5	3/3/2017 15:20	18.00	115.1	7.83	2.1	SR5	3/3/2017 21:20	18.02	113.9	7.75	5.8
SR5	3/3/2017 3:25	18.15	115.2	7.84	5.5	SR5	3/3/2017 9:25	18.03	113.5	7.72	4.3	SR5	3/3/2017 15:25	18.11	113.5	7.72	4.4	SR5	3/3/2017 21:25	18.15	116.4	7.92	5.8
SR5	3/3/2017 3:30	18.20	114.5	7.79	3.6	SR5	3/3/2017 9:30	18.03	110.8	7.54	1.8	SR5	3/3/2017 15:30	18.10	109.4	7.44	5.3	SR5	3/3/2017 21:30	18.21	108.8	7.40	5.7
SR5	3/3/2017 3:35	18.14	115.1	7.83	1.7	SR5	3/3/2017 9:35	18.02	112.9	7.68	3.2	SR5	3/3/2017 15:35	17.99	109.7	7.46	3.5	SR5	3/3/2017 21:35	17.99	117.7	8.01	2.5
SR5	3/3/2017 3:40	18.03	106.7	7.26	2.8	SR5	3/3/2017 9:40	18.20	108.6	7.39	5.9	SR5	3/3/2017 15:40	18.16	118.5	8.06	4.1	SR5	3/3/2017 21:40	18.11	107.3	7.30	6.0
SR5	3/3/2017 3:45	18.21	115.8	7.88	3.8	SR5	3/3/2017 9:45	18.04	118.8	8.08	5.6	SR5	3/3/2017 15:45	18.13	116.4	7.92	8.3	SR5	3/3/2017 21:45	17.99	110.3	7.50	6.7
SR5	3/3/2017 3:50	17.99	119.1	8.10	3.3	SR5	3/3/2017 9:50	17.99	115.0	7.82	3.6	SR5	3/3/2017 15:50	18.05	115.8	7.88	4.7	SR5	3/3/2017 21:50	18.20	108.6	7.39	3.6
SR5	3/3/2017 3:55	18.18	112.0	7.62	1.8	SR5	3/3/2017 9:55	18.1															







24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	3/3/2017 0:17	0.14				SR12	3/3/2017 0:17	0.13			
SR4	3/3/2017 0:37	0.16				SR12	3/3/2017 0:37	0.12			
SR4	3/3/2017 0:57	0.14				SR12	3/3/2017 0:57	0.13			
SR4	3/3/2017 1:17	0.17				SR12	3/3/2017 1:17	0.15			
SR4	3/3/2017 1:37	0.14				SR12	3/3/2017 1:37	0.14			
SR4	3/3/2017 1:57	0.14				SR12	3/3/2017 1:57	0.14			
SR4	3/3/2017 2:17	0.14				SR12	3/3/2017 2:17	0.14			
SR4	3/3/2017 2:37	0.13				SR12	3/3/2017 2:37	0.13			
SR4	3/3/2017 2:57	0.15				SR12	3/3/2017 2:57	0.11			
SR4	3/3/2017 3:17	0.14				SR12	3/3/2017 3:17	0.15			
SR4	3/3/2017 3:37	0.14				SR12	3/3/2017 3:37	0.14			
SR4	3/3/2017 3:57	0.16				SR12	3/3/2017 3:57	0.14			
SR4	3/3/2017 4:17	0.16				SR12	3/3/2017 4:17	0.13			
SR4	3/3/2017 4:37	0.16				SR12	3/3/2017 4:37	0.14			
SR4	3/3/2017 4:57	0.14				SR12	3/3/2017 4:57	0.11			
SR4	3/3/2017 5:17	0.16				SR12	3/3/2017 5:17	0.14			
SR4	3/3/2017 5:37	0.15				SR12	3/3/2017 5:37	0.11			
SR4	3/3/2017 5:57	0.16				SR12	3/3/2017 5:57	0.13			
SR4						SR12					
SR4	3/3/2017 6:37	0.13				SR12	3/3/2017 6:37	0.12			
SR4	3/3/2017 6:57	0.13				SR12	3/3/2017 6:57	0.14			
SR4	3/3/2017 7:17	0.15				SR12	3/3/2017 7:17	0.14			
SR4	3/3/2017 7:37	0.14				SR12	3/3/2017 7:37	0.15			
SR4	3/3/2017 7:57	0.16				SR12	3/3/2017 7:57	0.11			
SR4	3/3/2017 8:17	0.15				SR12	3/3/2017 8:17	0.14			
SR4	3/3/2017 8:37	0.13				SR12	3/3/2017 8:37	0.13			
SR4	3/3/2017 8:57	0.12				SR12	3/3/2017 8:57	0.15			
SR4	3/3/2017 9:17	0.16				SR12	3/3/2017 9:17	0.12			
SR4	3/3/2017 9:37	0.12				SR12	3/3/2017 9:37	0.14			
SR4	3/3/2017 9:57	0.14				SR12	3/3/2017 9:57	0.14			
SR4	3/3/2017 10:17	0.16				SR12	3/3/2017 10:17	0.14			
SR4	3/3/2017 10:37	0.15				SR12	3/3/2017 10:37	0.11			
SR4	3/3/2017 10:57	0.15				SR12	3/3/2017 10:57	0.15			
SR4	3/3/2017 11:17	0.12				SR12	3/3/2017 11:17	0.15			
SR4	3/3/2017 11:37	0.15				SR12	3/3/2017 11:37	0.12			
SR4	3/3/2017 11:57	0.13				SR12	3/3/2017 11:57	0.11			
SR4	3/3/2017 12:17	0.13				SR12	3/3/2017 12:17	0.11			
SR4	3/3/2017 12:37	0.12				SR12	3/3/2017 12:37	0.14			
SR4	3/3/2017 12:57	0.15				SR12	3/3/2017 12:57	0.14			
SR4	3/3/2017 13:17	0.14				SR12	3/3/2017 13:17	0.13			
SR4	3/3/2017 13:37	0.16				SR12	3/3/2017 13:37	0.11			
SR4	3/3/2017 13:57	0.12				SR12	3/3/2017 13:57	0.15			
SR4	3/3/2017 14:17	0.12				SR12	3/3/2017 14:17	0.13			
SR4	3/3/2017 14:37	0.12				SR12	3/3/2017 14:37	0.14			
SR4	3/3/2017 14:57	0.12				SR12	3/3/2017 14:57	0.13			
SR4	3/3/2017 15:17	0.12				SR12	3/3/2017 15:17	0.13			
SR4	3/3/2017 15:37	0.13				SR12	3/3/2017 15:37	0.12			
SR4	3/3/2017 15:57	0.14				SR12	3/3/2017 15:57	0.15			
SR4	3/3/2017 16:17	0.13				SR12	3/3/2017 16:17	0.11			
SR4	3/3/2017 16:37	0.12				SR12	3/3/2017 16:37	0.14			
SR4	3/3/2017 16:57	0.12				SR12	3/3/2017 16:57	0.14			
SR4	3/3/2017 17:17	0.14				SR12	3/3/2017 17:17	0.15			
SR4	3/3/2017 17:37	0.14				SR12	3/3/2017 17:37	0.15			
SR4	3/3/2017 17:57	0.13				SR12	3/3/2017 17:57	0.12			
SR4	3/3/2017 18:17	0.16				SR12	3/3/2017 18:17	0.15			
SR4	3/3/2017 18:37	0.14				SR12	3/3/2017 18:37	0.12			
SR4	3/3/2017 18:57	0.16				SR12	3/3/2017 18:57	0.13			
SR4	3/3/2017 19:17	0.13				SR12	3/3/2017 19:17	0.11			
SR4	3/3/2017 19:37	0.16				SR12	3/3/2017 19:37	0.13			
SR4	3/3/2017 19:57	0.16				SR12	3/3/2017 19:57	0.12			
SR4	3/3/2017 20:17	0.14				SR12	3/3/2017 20:17	0.14			
SR4	3/3/2017 20:37	0.16				SR12	3/3/2017 20:37	0.15			
SR4	3/3/2017 20:57	0.15				SR12	3/3/2017 20:57	0.14			
SR4	3/3/2017 21:17	0.12				SR12	3/3/2017 21:17	0.14			
SR4	3/3/2017 21:37	0.12				SR12	3/3/2017 21:37	0.13			
SR4	3/3/2017 21:57	0.13				SR12	3/3/2017 21:57	0.12			
SR4	3/3/2017 22:17	0.16				SR12	3/3/2017 22:17	0.13			
SR4	3/3/2017 22:37	0.12				SR12	3/3/2017 22:37	0.12			
SR4	3/3/2017 22:57	0.13				SR12	3/3/2017 22:57	0.13			
SR4	3/3/2017 23:17	0.13				SR12	3/3/2017 23:17	0.15			
SR4	3/3/2017 23:37	0.14				SR12	3/3/2017 23:37	0.13			
SR4	3/3/2017 23:57	0.13				SR12	3/3/2017 23:57	0.14			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12. SR13 monitoring station was under maintenance during 14:15-14:35.









24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	3/4/2017 0:17	0.14				SR12	3/4/2017 0:17	0.15			
SR4	3/4/2017 0:37	0.13				SR12	3/4/2017 0:37	0.14			
SR4	3/4/2017 0:57	0.15				SR12	3/4/2017 0:57	0.14			
SR4	3/4/2017 1:17	0.13				SR12	3/4/2017 1:17	0.15			
SR4	3/4/2017 1:37	0.13				SR12	3/4/2017 1:37	0.16			
SR4	3/4/2017 1:57	0.12				SR12	3/4/2017 1:57	0.14			
SR4	3/4/2017 2:17	0.14				SR12	3/4/2017 2:17	0.13			
SR4	3/4/2017 2:37	0.16				SR12	3/4/2017 2:37	0.15			
SR4	3/4/2017 2:57	0.13				SR12	3/4/2017 2:57	0.12			
SR4	3/4/2017 3:17	0.16				SR12	3/4/2017 3:17	0.16			
SR4	3/4/2017 3:37	0.12				SR12	3/4/2017 3:37	0.14			
SR4	3/4/2017 3:57	0.14				SR12	3/4/2017 3:57	0.16			
SR4	3/4/2017 4:17	0.14				SR12	3/4/2017 4:17	0.14			
SR4	3/4/2017 4:37	0.15				SR12	3/4/2017 4:37	0.14			
SR4	3/4/2017 4:57	0.16				SR12	3/4/2017 4:57	0.13			
SR4	3/4/2017 5:17	0.12				SR12	3/4/2017 5:17	0.15			
SR4	3/4/2017 5:37	0.13				SR12	3/4/2017 5:37	0.14			
SR4	3/4/2017 5:57	0.13				SR12	3/4/2017 5:57	0.15			
SR4						SR12					
SR4	3/4/2017 6:37	0.12				SR12	3/4/2017 6:37	0.12			
SR4	3/4/2017 6:57	0.15				SR12	3/4/2017 6:57	0.12			
SR4	3/4/2017 7:17	0.12				SR12	3/4/2017 7:17	0.12			
SR4	3/4/2017 7:37	0.15				SR12	3/4/2017 7:37	0.15			
SR4	3/4/2017 7:57	0.12				SR12	3/4/2017 7:57	0.15			
SR4	3/4/2017 8:17	0.13				SR12	3/4/2017 8:17	0.15			
SR4	3/4/2017 8:37	0.15				SR12	3/4/2017 8:37	0.12			
SR4	3/4/2017 8:57	0.14				SR12	3/4/2017 8:57	0.16			
SR4	3/4/2017 9:17	0.16				SR12	3/4/2017 9:17	0.15			
SR4	3/4/2017 9:37	0.15				SR12	3/4/2017 9:37	0.15			
SR4	3/4/2017 9:57	0.14				SR12	3/4/2017 9:57	0.13			
SR4	3/4/2017 10:17	0.14				SR12	3/4/2017 10:17	0.14			
SR4	3/4/2017 10:37	0.13				SR12	3/4/2017 10:37	0.13			
SR4	3/4/2017 10:57	0.14				SR12	3/4/2017 10:57	0.14			
SR4	3/4/2017 11:17	0.13				SR12	3/4/2017 11:17	0.16			
SR4	3/4/2017 11:37	0.16				SR12	3/4/2017 11:37	0.12			
SR4	3/4/2017 11:57	0.14				SR12	3/4/2017 11:57	0.15			
SR4	3/4/2017 12:17	0.12				SR12	3/4/2017 12:17	0.15			
SR4	3/4/2017 12:37	0.14				SR12	3/4/2017 12:37	0.15			
SR4	3/4/2017 12:57	0.15				SR12	3/4/2017 12:57	0.14			
SR4	3/4/2017 13:17	0.16				SR12	3/4/2017 13:17	0.16			
SR4	3/4/2017 13:37	0.15				SR12	3/4/2017 13:37	0.12			
SR4	3/4/2017 13:57	0.12				SR12	3/4/2017 13:57	0.16			
SR4	3/4/2017 14:17	0.12				SR12	3/4/2017 14:17	0.13			
SR4	3/4/2017 14:37	0.16				SR12	3/4/2017 14:37	0.12			
SR4	3/4/2017 14:57	0.14				SR12	3/4/2017 14:57	0.13			
SR4	3/4/2017 15:17	0.14				SR12	3/4/2017 15:17	0.16			
SR4	3/4/2017 15:37	0.16				SR12	3/4/2017 15:37	0.15			
SR4	3/4/2017 15:57	0.15				SR12	3/4/2017 15:57	0.13			
SR4	3/4/2017 16:17	0.16				SR12	3/4/2017 16:17	0.14			
SR4	3/4/2017 16:37	0.16				SR12	3/4/2017 16:37	0.15			
SR4	3/4/2017 16:57	0.14				SR12	3/4/2017 16:57	0.13			
SR4	3/4/2017 17:17	0.12				SR12	3/4/2017 17:17	0.15			
SR4	3/4/2017 17:37	0.14				SR12	3/4/2017 17:37	0.16			
SR4	3/4/2017 17:57	0.15				SR12	3/4/2017 17:57	0.15			
SR4	3/4/2017 18:17	0.16				SR12	3/4/2017 18:17	0.14			
SR4	3/4/2017 18:37	0.13				SR12	3/4/2017 18:37	0.14			
SR4	3/4/2017 18:57	0.15				SR12	3/4/2017 18:57	0.14			
SR4	3/4/2017 19:17	0.12				SR12	3/4/2017 19:17	0.13			
SR4	3/4/2017 19:37	0.15				SR12	3/4/2017 19:37	0.14			
SR4	3/4/2017 19:57	0.13				SR12	3/4/2017 19:57	0.15			
SR4	3/4/2017 20:17	0.12				SR12	3/4/2017 20:17	0.15			
SR4	3/4/2017 20:37	0.13				SR12	3/4/2017 20:37	0.17			
SR4	3/4/2017 20:57	0.12				SR12	3/4/2017 20:57	0.14			
SR4	3/4/2017 21:17	0.15				SR12	3/4/2017 21:17	0.17			
SR4	3/4/2017 21:37	0.14				SR12	3/4/2017 21:37	0.17			
SR4	3/4/2017 21:57	0.15				SR12	3/4/2017 21:57	0.16			
SR4	3/4/2017 22:17	0.15				SR12	3/4/2017 22:17	0.13			
SR4	3/4/2017 22:37	0.15				SR12	3/4/2017 22:37	0.16			
SR4	3/4/2017 22:57	0.13				SR12	3/4/2017 22:57	0.13			
SR4	3/4/2017 23:17	0.12				SR12	3/4/2017 23:17	0.13			
SR4	3/4/2017 23:37	0.16				SR12	3/4/2017 23:37	0.17			
SR4	3/4/2017 23:57	0.12				SR12	3/4/2017 23:57	0.15			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH<sub>3</sub>-N monitor was carried out during 5:57-6:37 at SR4 and SR12.



24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR4	3/5/2017 0:01	17.65	104.0	7.22	3.5	SR4	3/5/2017 6:01	17.74	104.1	7.33	8.4	SR4	3/5/2017 12:01	17.80	103.8	7.31	7.2	SR4	3/5/2017 18:01	18.68	99.4	7.00	2.9
SR4	3/5/2017 0:06	17.65	100.0	7.04	6.2	SR4	3/5/2017 6:06	17.73	105.4	7.42	5.6	SR4	3/5/2017 12:06	17.84	108.6	7.65	8.5	SR4	3/5/2017 18:06	18.71	100.3	7.06	2.4
SR4	3/5/2017 0:11	17.65	108.5	7.64	8.2	SR4	3/5/2017 6:11	17.73	105.9	7.46	7.8	SR4	3/5/2017 12:11	17.88	105.4	7.42	2.9	SR4	3/5/2017 18:11	18.95	100.3	7.06	5.6
SR4	3/5/2017 0:16	17.65	108.3	7.63	4.2	SR4	3/5/2017 6:16	17.73	108.1	7.61	8.1	SR4	3/5/2017 12:16	17.85	101.5	7.15	8.0	SR4	3/5/2017 18:16	18.73	103.8	7.31	7.7
SR4	3/5/2017 0:21	17.64	99.0	6.97	4.4	SR4	3/5/2017 6:21	17.73	104.4	7.35	2.3	SR4	3/5/2017 12:21	17.80	107.2	7.55	2.4	SR4	3/5/2017 18:21	18.81	104.1	7.33	7.5
SR4	3/5/2017 0:26	17.64	105.8	7.45	7.7	SR4	3/5/2017 6:26	17.73	108.2	7.62	5.6	SR4	3/5/2017 12:26	17.88	99.8	7.03	5.5	SR4	3/5/2017 18:26	18.72	105.1	7.40	6.4
SR4	3/5/2017 0:31	17.63	107.9	7.60	6.5	SR4	3/5/2017 6:31	17.74	106.4	7.49	8.7	SR4	3/5/2017 12:31	17.89	107.5	7.57	2.5	SR4	3/5/2017 18:31	18.72	103.8	7.31	3.7
SR4	3/5/2017 0:36	17.63	100.0	7.04	3.3	SR4	3/5/2017 6:36	17.74	107.1	7.54	5.9	SR4	3/5/2017 12:36	17.93	106.5	7.50	5.3	SR4	3/5/2017 18:36	18.97	101.1	7.12	8.1
SR4	3/5/2017 0:41	17.62	104.9	7.39	3.5	SR4	3/5/2017 6:41	17.74	108.3	7.63	7.4	SR4	3/5/2017 12:41	17.96	103.7	7.30	7.9	SR4	3/5/2017 18:41	19.00	108.5	7.64	7.4
SR4	3/5/2017 0:46	17.60	102.0	7.18	5.8	SR4	3/5/2017 6:46	17.75	102.7	7.23	2.5	SR4	3/5/2017 12:46	17.85	98.0	6.90	5.9	SR4	3/5/2017 18:46	19.03	107.2	7.55	8.3
SR4	3/5/2017 0:51	17.64	101.0	7.11	2.8	SR4	3/5/2017 6:51	17.75	103.0	7.25	4.9	SR4	3/5/2017 12:51	17.82	99.3	6.99	2.3	SR4	3/5/2017 18:51	18.74	100.4	7.07	3.7
SR4	3/5/2017 0:56	17.67	104.9	7.39	8.1	SR4	3/5/2017 6:56	17.76	106.5	7.50	7.8	SR4	3/5/2017 12:56	17.71	101.4	7.14	4.5	SR4	3/5/2017 18:56	18.51	101.5	7.15	4.9
SR4	3/5/2017 1:01	17.69	103.8	7.31	6.0	SR4	3/5/2017 7:01	17.76	98.8	6.96	8.4	SR4	3/5/2017 13:01	17.90	107.8	7.59	7.7	SR4	3/5/2017 19:01	19.05	100.5	7.08	8.1
SR4	3/5/2017 1:06	17.69	104.4	7.35	6.7	SR4	3/5/2017 7:06	17.76	105.1	7.40	4.3	SR4	3/5/2017 13:06	17.91	101.2	7.13	7.0	SR4	3/5/2017 19:06	18.98	108.2	7.62	6.1
SR4	3/5/2017 1:11	17.69	103.7	7.30	7.4	SR4	3/5/2017 7:11	17.76	98.3	6.92	4.4	SR4	3/5/2017 13:11	18.00	99.8	7.03	5.8	SR4	3/5/2017 19:11	18.88	98.0	6.90	7.4
SR4	3/5/2017 1:16	17.68	103.7	7.30	5.5	SR4	3/5/2017 7:16	17.74	98.0	6.90	5.4	SR4	3/5/2017 13:16	18.04	106.4	7.49	8.5	SR4	3/5/2017 19:16	18.69	101.4	7.14	6.4
SR4	3/5/2017 1:21	17.67	107.2	7.55	7.5	SR4	3/5/2017 7:21	17.74	99.4	7.00	5.9	SR4	3/5/2017 13:21	18.12	106.4	7.49	7.4	SR4	3/5/2017 19:21	18.84	105.1	7.40	5.1
SR4	3/5/2017 1:26	17.65	100.5	7.08	8.0	SR4	3/5/2017 7:26	17.74	99.0	6.97	6.4	SR4	3/5/2017 13:26	18.13	105.1	7.40	4.8	SR4	3/5/2017 19:26	18.88	102.5	7.22	3.8
SR4	3/5/2017 1:31	17.65	105.6	7.44	3.4	SR4	3/5/2017 7:31	17.74	105.9	7.46	3.7	SR4	3/5/2017 13:31	18.07	100.1	7.05	4.5	SR4	3/5/2017 19:31	18.71	106.5	7.50	7.4
SR4	3/5/2017 1:36	17.65	103.1	7.26	8.5	SR4	3/5/2017 7:36	17.73	104.8	7.38	4.7	SR4	3/5/2017 13:36	18.09	106.6	7.51	3.1	SR4	3/5/2017 19:36	18.68	106.5	7.50	3.9
SR4	3/5/2017 1:41	17.64	103.8	7.31	2.9	SR4	3/5/2017 7:41	17.71	98.1	6.91	3.9	SR4	3/5/2017 13:41	18.10	101.2	7.13	8.6	SR4	3/5/2017 19:41	18.73	105.8	7.45	3.1
SR4	3/5/2017 1:46	17.65	99.8	7.03	2.5	SR4	3/5/2017 7:46	17.71	102.2	7.20	7.8	SR4	3/5/2017 13:46	18.10	107.9	7.60	2.2	SR4	3/5/2017 19:46	18.76	98.3	6.92	6.1
SR4	3/5/2017 1:51	17.67	98.3	6.92	2.9	SR4	3/5/2017 7:51	17.71	107.2	7.55	3.9	SR4	3/5/2017 13:51	18.04	103.5	7.29	4.2	SR4	3/5/2017 19:51	18.80	108.5	7.64	3.2
SR4	3/5/2017 1:56	17.69	100.0	7.04	6.1	SR4	3/5/2017 7:56	17.72	99.7	7.02	5.0	SR4	3/5/2017 13:56	18.02	99.3	6.99	4.1	SR4	3/5/2017 19:56	18.85	101.5	7.15	3.5
SR4	3/5/2017 2:01	17.70	105.2	7.41	7.0	SR4	3/5/2017 8:01	17.72	100.3	7.06	3.7	SR4	3/5/2017 14:01	18.13	101.5	7.15	7.4	SR4	3/5/2017 20:01	18.91	100.5	7.08	6.9
SR4	3/5/2017 2:06	17.71	99.1	6.98	4.5	SR4	3/5/2017 8:06	17.72	108.2	7.62	2.6	SR4	3/5/2017 14:06	18.27	100.4	7.07	5.4	SR4	3/5/2017 20:06	18.89	107.8	7.59	6.2
SR4	3/5/2017 2:11	17.70	104.2	7.34	8.1	SR4	3/5/2017 8:11	17.73	106.4	7.49	3.6	SR4	3/5/2017 14:11	18.25	104.8	7.38	4.1	SR4	3/5/2017 20:11	18.87	108.6	7.65	4.9
SR4	3/5/2017 2:16	17.68	100.3	7.06	3.8	SR4	3/5/2017 8:16	17.74	99.4	7.00	3.3	SR4	3/5/2017 14:16	18.07	102.2	7.20	4.9	SR4	3/5/2017 20:16	18.87	100.7	7.09	6.8
SR4	3/5/2017 2:21	17.65	99.1	6.98	2.3	SR4	3/5/2017 8:21	17.75	103.9	7.32	3.3	SR4	3/5/2017 14:21	18.14	98.7	6.95	2.1	SR4	3/5/2017 20:21	18.82	100.4	7.07	6.6
SR4	3/5/2017 2:26	17.65	98.1	6.91	7.8	SR4	3/5/2017 8:26	17.77	102.2	7.20	2.2	SR4	3/5/2017 14:26	18.09	107.5	7.57	2.4	SR4	3/5/2017 20:26	18.81	108.6	7.65	7.4
SR4	3/5/2017 2:31	17.65	98.5	6.94	3.1	SR4	3/5/2017 8:31	17.79	102.2	7.20	6.7	SR4	3/5/2017 14:31	18.22	107.9	7.60	3.2	SR4	3/5/2017 20:31	18.77	103.4	7.28	4.5
SR4	3/5/2017 2:36	17.66	98.8	6.96	2.2	SR4	3/5/2017 8:36	17.81	98.3	6.92	6.5	SR4	3/5/2017 14:36	18.23	100.8	7.10	2.8	SR4	3/5/2017 20:36	18.73	104.7	7.37	8.4
SR4	3/5/2017 2:41	17.66	106.5	7.50	4.6	SR4	3/5/2017 8:41	17.83	105.2	7.41	6.6	SR4	3/5/2017 14:41	18.19	99.4	7.00	2.9	SR4	3/5/2017 20:41	18.69	100.0	7.04	3.8
SR4	3/5/2017 2:46	17.66	108.5	7.64	8.7	SR4	3/5/2017 8:46	17.84	104.8	7.38	6.5	SR4	3/5/2017 14:46	18.17	108.8	7.66	3.4	SR4	3/5/2017 20:46	18.71	101.8	7.17	4.3
SR4	3/5/2017 2:51	17.66	104.4	7.35	3.9	SR4	3/5/2017 8:51	17.84	105.5	7.43	7.7	SR4	3/5/2017 14:51	18.20	101.7	7.16	2.4	SR4	3/5/2017 20:51	18.70	104.7	7.37	2.4
SR4	3/5/2017 2:56	17.67	101.2	7.13	5.2	SR4	3/5/2017 8:56	17.82	98.7	6.95	5.9	SR4	3/5/2017 14:56	18.27	101.1	7.12	6.7	SR4	3/5/2017 20:56	18.74	106.8	7.52	5.6
SR4	3/5/2017 3:01	17.68	105.5	7.43	3.3	SR4	3/5/2017 9:01	17.80	102.2	7.20	6.6	SR4	3/5/2017 15:01	18.32	101.2	7.13	8.1	SR4	3/5/2017 21:01	18.63	100.5	7.08	5.3
SR4	3/5/2017 3:06	17.68	99.3	6.99	7.5	SR4	3/5/2017 9:06	17.80	103.0	7.25	8.1	SR4	3/5/2017 15:06	18.31	105.8	7.45	3.6	SR4	3/5/2017 21:06	18.73	104.4	7.35	4.6
SR4	3/5/2017 3:11	17.69	107.9	7.60	7.5	SR4	3/5/2017 9:11	17.81	100.0	7.04	3.5	SR4	3/5/2017 15:11	18.31	106.9	7.53	6.2	SR4	3/5/2017 21:11	18.70	101.4	7.14	3.6
SR4	3/5/2017 3:16	17.69	102.1	7.19	8.5	SR4	3/5/2017 9:16	17.82	101.5	7.15	4.5	SR4	3/5/2017 15:16	18.28	104.7	7.37	2.8	SR4	3/5/2017 21:16	18.74	97.8	6.89	2.1
SR4	3/5/2017 3:21	17.67	101.0	7.11	8.1	SR4	3/5/2017 9:21	17.84	100.3	7.06	8.0	SR4	3/5/2017 15:21	18.28	100.1	7.05	7.6	SR4	3/5/2017 21:21	18.73	108.5	7.64	8.7
SR4	3/5/2017 3:26	17.67	104.1	7.33	2.3	SR4	3/5/2017 9:26	17.88	98.5	6.94	7.7	SR4	3/5/2017 15:26	18.38	106.2	7.48	8.0	SR4	3/5/2017 21:26	18.82	98.3	6.92	3.1
SR4	3/5/2017 3:31	17.66	102.7	7.23	4.6	SR4	3/5/2017 9:31	17.87	100.3	7.06	5.3	SR4	3/5/2017 15:31	18.29	102.8	7.24	6.1	SR4	3/5/2017 21:31	18.85	102.7	7.23	6.9
SR4	3/5/2017 3:36	17.65	104.2	7.34	3.3	SR4	3/5/2017 9:36	17.87	101.2	7.13	8.4	SR4	3/5/2017 15:36	18.44	108.8	7.66	4.1	SR4	3/5/2017 21:36	18.63	97.8	6.89	3.0
SR4	3/5/2017 3:41	17.67	98.0	6.90	3.8	SR4	3/5/2017 9:41	17.88	107.2	7.55	5.9	SR4	3/5/2017 15:41	18.46	107.4	7.56	4.7	SR4	3/5/2017 21:41	18.60	105.4	7.42	6.6
SR4	3/5/2017 3:46	17.69	100.3	7.06	5.0	SR4	3/5/2017 9:46	17.87	108.8	7.66	5.7	SR4	3/5/2017 15:46	18.33	105.6	7.44	2.3	SR4	3/5/2017 21:46	18.66	107.5	7.57	7.5
SR4	3/5/2017 3:51	17.72	106.8	7.52	6.0	SR4	3/5/2017 9:51	17.90	106.4	7.49	5.2	SR4	3/5/2017 15:51	18.37	105.1	7.40	6.7	SR4	3/5/2017 21:51	18.73	107.6	7.58	5.5
SR4	3/5/2017 3:56	17.73	106.6	7.51	7.2	SR4	3/5/2017 9:56	17.91	99.5	7.01	3.3	SR4											

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR5	3/5/2017 0:00	17.89	102.3	7.01	3.2	SR5	3/5/2017 6:00	18.08	105.6	7.23	3.6	SR5	3/5/2017 12:00	18.57	109.5	7.50	2.6	SR5	3/5/2017 18:00	18.56	106.0	7.26	2.8
SR5	3/5/2017 0:05	17.98	104.5	7.16	4.8	SR5	3/5/2017 6:05	18.11	108.3	7.42	2.7	SR5	3/5/2017 12:05	18.48	100.9	6.91	2.9	SR5	3/5/2017 18:05	18.69	104.1	7.13	3.4
SR5	3/5/2017 0:10	17.97	104.2	7.14	2.5	SR5	3/5/2017 6:10	18.13	108.0	7.40	2.6	SR5	3/5/2017 12:10	18.49	108.3	7.42	4.7	SR5	3/5/2017 18:10	18.58	111.3	7.62	4.7
SR5	3/5/2017 0:15	17.94	103.5	7.09	4.6	SR5	3/5/2017 6:15	18.14	108.2	7.41	4.6	SR5	3/5/2017 12:15	18.54	108.5	7.43	4.5	SR5	3/5/2017 18:15	18.73	108.0	7.40	4.7
SR5	3/5/2017 0:20	17.97	100.6	6.89	3.9	SR5	3/5/2017 6:20	18.15	111.8	7.66	4.6	SR5	3/5/2017 12:20	18.52	111.0	7.60	4.0	SR5	3/5/2017 18:20	18.54	107.3	7.35	2.9
SR5	3/5/2017 0:25	18.02	110.2	7.55	3.8	SR5	3/5/2017 6:25	18.17	100.9	6.91	4.5	SR5	3/5/2017 12:25	18.51	108.5	7.43	4.6	SR5	3/5/2017 18:25	18.45	109.5	7.50	3.7
SR5	3/5/2017 0:30	17.99	102.3	7.01	3.2	SR5	3/5/2017 6:30	18.18	105.1	7.20	4.7	SR5	3/5/2017 12:30	18.57	104.4	7.15	3.4	SR5	3/5/2017 18:30	18.40	100.6	6.89	3.9
SR5	3/5/2017 0:35	17.98	107.7	7.38	3.9	SR5	3/5/2017 6:35	18.17	106.3	7.28	4.1	SR5	3/5/2017 12:35	18.58	110.8	7.59	4.8	SR5	3/5/2017 18:35	18.48	106.3	7.28	3.0
SR5	3/5/2017 0:40	18.03	100.7	6.90	4.1	SR5	3/5/2017 6:40	18.18	106.1	7.27	4.5	SR5	3/5/2017 12:40	18.55	107.5	7.36	3.6	SR5	3/5/2017 18:40	18.45	101.0	6.92	3.2
SR5	3/5/2017 0:45	18.09	101.9	6.98	4.4	SR5	3/5/2017 6:45	18.17	103.8	7.11	2.9	SR5	3/5/2017 12:45	18.57	102.6	7.03	2.7	SR5	3/5/2017 18:45	18.56	105.6	7.23	3.5
SR5	3/5/2017 0:50	18.18	104.8	7.18	2.5	SR5	3/5/2017 6:50	18.20	102.2	7.00	3.9	SR5	3/5/2017 12:50	18.61	101.0	6.92	3.0	SR5	3/5/2017 18:50	18.62	106.9	7.32	2.8
SR5	3/5/2017 0:55	18.18	104.0	7.12	4.0	SR5	3/5/2017 6:55	18.24	110.7	7.58	2.7	SR5	3/5/2017 12:55	18.62	106.1	7.27	4.6	SR5	3/5/2017 18:55	18.83	110.5	7.57	3.7
SR5	3/5/2017 1:00	18.15	101.6	6.96	3.0	SR5	3/5/2017 7:00	18.24	106.3	7.28	4.5	SR5	3/5/2017 13:00	18.51	104.5	7.16	4.4	SR5	3/5/2017 19:00	18.71	110.8	7.59	3.6
SR5	3/5/2017 1:05	18.15	101.7	7.58	2.5	SR5	3/5/2017 7:05	18.25	111.0	7.60	3.1	SR5	3/5/2017 13:05	18.52	105.6	7.23	3.5	SR5	3/5/2017 19:05	18.68	104.4	7.15	4.1
SR5	3/5/2017 1:10	18.31	102.1	6.99	4.1	SR5	3/5/2017 7:10	18.24	105.7	7.24	3.7	SR5	3/5/2017 13:10	18.50	106.6	7.30	4.3	SR5	3/5/2017 19:10	18.71	109.9	7.53	4.4
SR5	3/5/2017 1:15	18.27	102.3	7.01	2.7	SR5	3/5/2017 7:15	18.25	111.1	7.61	4.4	SR5	3/5/2017 13:15	18.50	105.3	7.21	3.3	SR5	3/5/2017 19:15	18.74	109.5	7.50	2.5
SR5	3/5/2017 1:20	18.25	109.6	7.51	4.8	SR5	3/5/2017 7:20	18.25	109.6	7.51	2.6	SR5	3/5/2017 13:20	18.59	101.3	6.94	2.9	SR5	3/5/2017 19:20	18.88	110.4	7.56	2.7
SR5	3/5/2017 1:25	18.19	106.7	7.31	3.0	SR5	3/5/2017 7:25	18.25	101.5	6.95	4.7	SR5	3/5/2017 13:25	18.56	111.5	7.64	4.0	SR5	3/5/2017 19:25	18.99	111.7	7.65	3.8
SR5	3/5/2017 1:30	18.17	105.4	7.22	3.6	SR5	3/5/2017 7:30	18.24	104.2	7.14	2.5	SR5	3/5/2017 13:30	18.46	102.1	6.99	4.6	SR5	3/5/2017 19:30	18.77	100.6	6.89	3.9
SR5	3/5/2017 1:35	18.10	102.6	7.03	4.3	SR5	3/5/2017 7:35	18.23	106.7	7.31	3.8	SR5	3/5/2017 13:35	18.43	109.9	7.53	4.1	SR5	3/5/2017 19:35	18.61	109.9	7.53	4.8
SR5	3/5/2017 1:40	18.09	101.3	6.94	2.8	SR5	3/5/2017 7:40	18.24	106.6	7.30	3.7	SR5	3/5/2017 13:40	18.54	106.6	7.30	3.4	SR5	3/5/2017 19:40	18.76	106.1	7.27	4.8
SR5	3/5/2017 1:45	18.07	109.5	7.50	2.9	SR5	3/5/2017 7:45	18.25	104.8	7.18	2.9	SR5	3/5/2017 13:45	18.41	109.5	7.50	4.1	SR5	3/5/2017 19:45	18.71	104.8	7.18	4.1
SR5	3/5/2017 1:50	18.19	106.7	7.31	3.5	SR5	3/5/2017 7:50	18.25	103.1	7.06	3.3	SR5	3/5/2017 13:50	18.45	105.3	7.21	4.2	SR5	3/5/2017 19:50	18.72	101.8	6.97	4.2
SR5	3/5/2017 1:55	18.13	101.5	6.95	4.5	SR5	3/5/2017 7:55	18.25	102.2	7.00	4.4	SR5	3/5/2017 13:55	18.56	105.4	7.22	4.7	SR5	3/5/2017 19:55	18.79	110.4	7.56	3.8
SR5	3/5/2017 2:00	18.15	111.8	7.66	4.4	SR5	3/5/2017 8:00	18.24	104.4	7.15	3.9	SR5	3/5/2017 14:00	18.58	104.8	7.18	2.5	SR5	3/5/2017 20:00	18.80	103.2	7.07	3.7
SR5	3/5/2017 2:05	18.07	108.6	7.44	3.3	SR5	3/5/2017 8:05	18.25	106.0	7.26	3.5	SR5	3/5/2017 14:05	18.50	109.1	7.47	3.6	SR5	3/5/2017 20:05	18.82	108.9	7.46	4.4
SR5	3/5/2017 2:10	18.09	110.5	7.57	4.0	SR5	3/5/2017 8:10	18.28	106.9	7.32	3.2	SR5	3/5/2017 14:10	18.61	102.9	7.05	4.4	SR5	3/5/2017 20:10	18.77	109.8	7.52	4.5
SR5	3/5/2017 2:15	18.07	106.3	7.28	3.3	SR5	3/5/2017 8:15	18.27	104.5	7.16	3.9	SR5	3/5/2017 14:15	18.58	107.5	7.36	4.8	SR5	3/5/2017 20:15	18.70	103.1	7.06	4.5
SR5	3/5/2017 2:20	18.07	109.4	7.49	4.2	SR5	3/5/2017 8:20	18.25	106.1	7.27	3.3	SR5	3/5/2017 14:20	18.54	110.4	7.56	4.0	SR5	3/5/2017 20:20	18.74	101.8	6.97	4.1
SR5	3/5/2017 2:25	18.06	102.1	6.99	2.6	SR5	3/5/2017 8:25	18.24	111.7	7.65	3.8	SR5	3/5/2017 14:25	18.54	101.3	6.94	4.2	SR5	3/5/2017 20:25	18.78	111.0	7.60	2.7
SR5	3/5/2017 2:30	18.11	106.0	7.26	2.5	SR5	3/5/2017 8:30	18.25	107.0	7.33	3.2	SR5	3/5/2017 14:30	18.55	105.4	7.22	2.9	SR5	3/5/2017 20:30	18.80	111.0	7.60	4.5
SR5	3/5/2017 2:35	18.13	111.0	7.60	2.8	SR5	3/5/2017 8:35	18.26	109.1	7.47	3.9	SR5	3/5/2017 14:35	18.70	108.0	7.40	2.9	SR5	3/5/2017 20:35	18.84	106.9	7.32	4.4
SR5	3/5/2017 2:40	18.14	102.1	6.99	3.5	SR5	3/5/2017 8:40	18.31	106.9	7.32	2.9	SR5	3/5/2017 14:40	18.64	104.7	7.17	2.8	SR5	3/5/2017 20:40	18.86	104.0	7.12	2.8
SR5	3/5/2017 2:45	18.20	105.9	7.25	4.5	SR5	3/5/2017 8:45	18.34	111.3	7.62	3.6	SR5	3/5/2017 14:45	18.52	102.1	6.99	3.6	SR5	3/5/2017 20:45	18.89	105.9	7.25	2.6
SR5	3/5/2017 2:50	18.21	103.7	7.10	3.6	SR5	3/5/2017 8:50	18.38	107.0	7.33	4.1	SR5	3/5/2017 14:50	18.51	108.3	7.42	2.9	SR5	3/5/2017 20:50	18.83	111.8	7.66	4.4
SR5	3/5/2017 2:55	18.19	108.8	7.45	4.1	SR5	3/5/2017 8:55	18.34	106.3	7.28	3.3	SR5	3/5/2017 14:55	18.53	103.7	7.10	3.5	SR5	3/5/2017 20:55	18.86	105.9	7.25	3.4
SR5	3/5/2017 3:00	18.21	102.9	7.05	2.8	SR5	3/5/2017 9:00	18.34	105.9	7.25	4.4	SR5	3/5/2017 15:00	18.52	106.6	7.30	3.1	SR5	3/5/2017 21:00	18.87	107.3	7.35	4.2
SR5	3/5/2017 3:05	18.21	107.3	7.35	2.9	SR5	3/5/2017 9:05	18.36	105.0	7.19	2.7	SR5	3/5/2017 15:05	18.50	111.8	7.66	4.4	SR5	3/5/2017 21:05	18.88	109.9	7.53	4.2
SR5	3/5/2017 3:10	18.21	104.4	7.15	2.8	SR5	3/5/2017 9:10	18.35	110.4	7.56	2.6	SR5	3/5/2017 15:10	18.51	104.2	7.14	4.2	SR5	3/5/2017 21:10	18.85	102.3	7.01	4.2
SR5	3/5/2017 3:15	18.22	101.6	6.96	3.2	SR5	3/5/2017 9:15	18.37	103.4	7.08	3.1	SR5	3/5/2017 15:15	18.54	106.9	7.32	3.3	SR5	3/5/2017 21:15	18.81	100.6	6.89	4.1
SR5	3/5/2017 3:20	18.22	104.0	7.12	4.1	SR5	3/5/2017 9:20	18.35	107.0	7.33	3.5	SR5	3/5/2017 15:20	18.62	103.4	7.08	2.5	SR5	3/5/2017 21:20	18.80	100.7	6.90	2.6
SR5	3/5/2017 3:25	18.23	103.2	7.07	3.5	SR5	3/5/2017 9:25	18.36	108.6	7.44	3.3	SR5	3/5/2017 15:25	18.60	104.4	7.15	3.9	SR5	3/5/2017 21:25	18.78	111.3	7.62	4.3
SR5	3/5/2017 3:30	18.24	101.3	6.94	4.1	SR5	3/5/2017 9:30	18.34	109.2	7.48	4.5	SR5	3/5/2017 15:30	18.50	111.5	7.64	4.8	SR5	3/5/2017 21:30	18.78	110.5	7.57	4.6
SR5	3/5/2017 3:35	18.26	104.0	7.12	3.7	SR5	3/5/2017 9:35	18.35	110.7	7.58	3.1	SR5	3/5/2017 15:35	18.58	108.6	7.44	3.0	SR5	3/5/2017 21:35	18.75	106.3	7.28	4.6
SR5	3/5/2017 3:40	18.26	101.5	6.95	4.5	SR5	3/5/2017 9:40	18.36	107.0	7.33	3.3	SR5	3/5/2017 15:40	18.61	103.5	7.09	3.7	SR5	3/5/2017 21:40	18.71	108.6	7.44	2.6
SR5	3/5/2017 3:45	18.25	109.6	7.51	3.9	SR5	3/5/2017 9:45	18.38	109.4	7.49	3.0	SR5	3/5/2017 15:45	18.58	101.3	6.94	4.4	SR5	3/5/2017 21:45	18.77	111.4	7.63	4.5
SR5	3/5/2017 3:50	18.23	102.5	7.02	4.1	SR5	3/5/2017 9:50	18.41	108.6	7.44	4.4	SR5	3/5/2017 15:50	18.57	101.5	6.95	4.4	SR5	3/5/2017 21:50	18.73	103.1	7.06	3.2
SR5	3/5/2017 3:55	18.23	100.7	6.90	4.1	SR5	3/5/2017 9:55	18.4															

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR12	3/5/2017 0:01	17.59	104.5	7.31	6.6	SR12	3/5/2017 6:01	18.05	97.7	6.83	8.0	SR12	3/5/2017 12:01	18.53	104.4	7.30	5.5	SR12	3/5/2017 18:01	18.60	106.4	7.44	6.8
SR12	3/5/2017 0:06	17.63	104.4	7.30	7.9	SR12	3/5/2017 6:06	18.05	100.1	7.00	9.7	SR12	3/5/2017 12:06	18.51	103.8	7.26	7.4	SR12	3/5/2017 18:06	18.75	106.0	7.41	6.9
SR12	3/5/2017 0:11	17.63	97.0	6.78	8.9	SR12	3/5/2017 6:11	18.07	98.4	6.88	8.0	SR12	3/5/2017 12:11	18.51	104.4	7.30	8.9	SR12	3/5/2017 18:11	18.84	105.4	7.37	8.9
SR12	3/5/2017 0:16	17.63	98.2	6.87	7.1	SR12	3/5/2017 6:16	18.09	96.7	6.76	7.4	SR12	3/5/2017 12:16	18.44	99.4	6.95	6.0	SR12	3/5/2017 18:16	18.95	103.0	7.20	6.7
SR12	3/5/2017 0:21	17.62	98.5	6.89	7.4	SR12	3/5/2017 6:21	18.09	103.1	7.21	6.5	SR12	3/5/2017 12:21	18.52	102.1	7.14	9.5	SR12	3/5/2017 18:21	18.86	99.5	6.96	9.2
SR12	3/5/2017 0:26	17.67	96.8	6.77	6.8	SR12	3/5/2017 6:26	18.14	104.0	7.27	7.0	SR12	3/5/2017 12:26	18.50	100.7	7.04	7.3	SR12	3/5/2017 18:26	18.84	97.0	6.78	5.7
SR12	3/5/2017 0:31	17.73	100.4	7.02	9.0	SR12	3/5/2017 6:31	18.18	106.4	7.44	9.7	SR12	3/5/2017 12:31	18.49	100.5	7.03	9.1	SR12	3/5/2017 18:31	18.78	99.0	6.92	8.0
SR12	3/5/2017 0:36	17.79	101.2	7.08	7.2	SR12	3/5/2017 6:36	18.14	98.7	6.90	9.6	SR12	3/5/2017 12:36	18.50	96.5	6.75	8.4	SR12	3/5/2017 18:36	18.83	105.0	7.34	8.2
SR12	3/5/2017 0:41	17.84	103.4	7.23	8.8	SR12	3/5/2017 6:41	18.18	103.5	7.24	7.9	SR12	3/5/2017 12:41	18.58	98.8	6.77	9.7	SR12	3/5/2017 18:41	18.77	99.8	6.98	8.9
SR12	3/5/2017 0:46	17.84	98.0	6.85	5.5	SR12	3/5/2017 6:46	18.20	102.7	7.18	7.5	SR12	3/5/2017 12:46	18.57	102.4	7.16	9.4	SR12	3/5/2017 18:46	18.75	97.2	6.80	7.0
SR12	3/5/2017 0:51	17.85	105.0	7.34	5.6	SR12	3/5/2017 6:51	18.18	101.2	7.08	5.9	SR12	3/5/2017 12:51	18.56	103.7	7.25	7.9	SR12	3/5/2017 18:51	18.72	104.8	7.33	8.3
SR12	3/5/2017 0:56	17.85	96.7	6.76	7.8	SR12	3/5/2017 6:56	18.18	99.5	6.96	9.0	SR12	3/5/2017 12:56	18.60	101.1	7.07	9.7	SR12	3/5/2017 18:56	18.71	104.2	7.29	9.7
SR12	3/5/2017 1:01	17.85	103.2	7.22	6.4	SR12	3/5/2017 7:01	18.22	96.7	6.76	8.1	SR12	3/5/2017 13:01	18.61	102.1	7.14	8.1	SR12	3/5/2017 19:01	18.79	102.4	7.16	8.1
SR12	3/5/2017 1:06	17.83	99.5	6.96	8.7	SR12	3/5/2017 7:06	18.23	101.0	7.06	9.7	SR12	3/5/2017 13:06	18.48	97.8	6.84	7.7	SR12	3/5/2017 19:06	18.70	105.0	7.34	7.0
SR12	3/5/2017 1:11	17.85	101.2	7.08	5.8	SR12	3/5/2017 7:11	18.23	103.2	7.22	7.7	SR12	3/5/2017 13:11	18.49	102.8	7.19	7.2	SR12	3/5/2017 19:11	18.61	97.1	6.79	8.2
SR12	3/5/2017 1:16	17.86	104.8	7.33	6.9	SR12	3/5/2017 7:16	18.22	104.7	7.32	7.2	SR12	3/5/2017 13:16	18.46	98.4	6.88	6.8	SR12	3/5/2017 19:16	18.59	104.2	7.29	8.0
SR12	3/5/2017 1:21	17.86	100.1	7.00	6.7	SR12	3/5/2017 7:21	18.21	100.8	7.05	5.5	SR12	3/5/2017 13:21	18.47	101.5	7.10	5.9	SR12	3/5/2017 19:21	18.62	102.4	7.16	6.8
SR12	3/5/2017 1:26	17.83	103.2	7.22	8.4	SR12	3/5/2017 7:26	18.22	101.2	7.08	7.3	SR12	3/5/2017 13:26	18.56	97.7	6.83	8.4	SR12	3/5/2017 19:26	18.72	97.5	6.82	9.1
SR12	3/5/2017 1:31	17.79	99.1	6.93	8.7	SR12	3/5/2017 7:31	18.21	105.5	7.38	7.2	SR12	3/5/2017 13:31	18.64	106.1	7.42	9.3	SR12	3/5/2017 19:31	18.78	99.4	6.95	5.6
SR12	3/5/2017 1:36	17.79	106.0	7.41	9.1	SR12	3/5/2017 7:36	18.21	102.1	7.14	5.6	SR12	3/5/2017 13:36	18.56	104.5	7.31	6.3	SR12	3/5/2017 19:36	18.71	105.0	7.34	6.5
SR12	3/5/2017 1:41	17.80	103.1	7.21	6.9	SR12	3/5/2017 7:41	18.20	104.5	7.31	7.0	SR12	3/5/2017 13:41	18.39	100.8	7.05	7.5	SR12	3/5/2017 19:41	18.52	106.2	7.43	8.3
SR12	3/5/2017 1:46	17.82	100.8	7.05	5.5	SR12	3/5/2017 7:46	18.20	105.2	7.36	6.6	SR12	3/5/2017 13:46	18.48	98.8	6.91	9.2	SR12	3/5/2017 19:46	18.58	98.7	6.90	7.3
SR12	3/5/2017 1:51	17.83	96.5	6.75	9.3	SR12	3/5/2017 7:51	18.21	103.5	7.24	6.3	SR12	3/5/2017 13:51	18.54	101.8	7.12	5.5	SR12	3/5/2017 19:51	18.71	101.0	7.06	7.2
SR12	3/5/2017 1:56	17.84	105.0	7.34	6.5	SR12	3/5/2017 7:56	18.21	100.8	7.05	9.5	SR12	3/5/2017 13:56	18.44	99.0	6.92	6.4	SR12	3/5/2017 19:56	18.74	100.5	7.03	9.5
SR12	3/5/2017 2:01	17.83	96.7	6.76	7.0	SR12	3/5/2017 8:01	18.21	100.8	7.05	9.0	SR12	3/5/2017 14:01	18.49	98.5	6.89	9.6	SR12	3/5/2017 20:01	18.77	105.7	7.39	9.1
SR12	3/5/2017 2:06	17.84	99.4	6.95	9.1	SR12	3/5/2017 8:06	18.21	100.1	7.00	8.2	SR12	3/5/2017 14:06	18.60	106.0	7.41	8.6	SR12	3/5/2017 20:06	18.75	97.7	6.83	9.4
SR12	3/5/2017 2:11	17.85	100.1	7.00	6.0	SR12	3/5/2017 8:11	18.21	101.0	7.06	9.2	SR12	3/5/2017 14:11	18.64	98.2	6.87	9.6	SR12	3/5/2017 20:11	18.73	103.5	7.24	6.7
SR12	3/5/2017 2:16	17.85	104.7	7.32	8.3	SR12	3/5/2017 8:16	18.24	106.0	7.41	8.5	SR12	3/5/2017 14:16	18.66	98.8	6.91	8.7	SR12	3/5/2017 20:16	18.71	97.7	6.83	9.1
SR12	3/5/2017 2:21	17.84	101.1	7.07	6.9	SR12	3/5/2017 8:21	18.24	98.2	6.87	5.7	SR12	3/5/2017 14:21	18.71	100.8	7.05	7.3	SR12	3/5/2017 20:21	18.64	103.8	7.26	8.7
SR12	3/5/2017 2:26	17.85	98.7	6.90	9.4	SR12	3/5/2017 8:26	18.21	100.7	7.04	6.0	SR12	3/5/2017 14:26	18.65	101.5	7.10	5.8	SR12	3/5/2017 20:26	18.69	105.1	7.35	7.0
SR12	3/5/2017 2:31	17.84	98.2	6.87	8.9	SR12	3/5/2017 8:31	18.20	103.4	7.23	7.8	SR12	3/5/2017 14:31	18.69	106.4	7.44	7.9	SR12	3/5/2017 20:31	18.75	104.5	7.31	8.5
SR12	3/5/2017 2:36	17.85	106.2	7.43	6.1	SR12	3/5/2017 8:36	18.22	97.2	6.80	9.6	SR12	3/5/2017 14:36	18.68	101.1	7.07	5.6	SR12	3/5/2017 20:36	18.69	101.4	7.09	7.1
SR12	3/5/2017 2:41	17.86	96.7	6.76	8.2	SR12	3/5/2017 8:41	18.22	100.5	7.03	5.8	SR12	3/5/2017 14:41	18.66	102.8	7.19	5.7	SR12	3/5/2017 20:41	18.78	106.1	7.42	7.4
SR12	3/5/2017 2:46	17.85	105.5	7.38	6.3	SR12	3/5/2017 8:46	18.26	97.8	6.84	8.7	SR12	3/5/2017 14:46	18.67	102.0	7.13	7.5	SR12	3/5/2017 20:46	18.79	100.8	7.05	7.3
SR12	3/5/2017 2:51	17.85	97.4	6.81	8.9	SR12	3/5/2017 8:51	18.29	102.0	7.13	8.2	SR12	3/5/2017 14:51	18.62	100.2	7.01	7.3	SR12	3/5/2017 20:51	18.85	96.8	6.77	9.6
SR12	3/5/2017 2:56	17.86	100.0	6.99	8.1	SR12	3/5/2017 8:56	18.32	98.1	6.86	8.5	SR12	3/5/2017 14:56	18.56	101.8	7.12	8.0	SR12	3/5/2017 20:56	18.80	103.0	7.20	6.4
SR12	3/5/2017 3:01	17.85	105.2	7.36	9.6	SR12	3/5/2017 9:01	18.34	101.1	7.07	8.3	SR12	3/5/2017 15:01	18.53	103.7	7.25	7.7	SR12	3/5/2017 21:01	18.83	96.8	6.77	6.7
SR12	3/5/2017 3:06	17.80	100.2	7.01	6.8	SR12	3/5/2017 9:06	18.33	102.8	7.19	7.8	SR12	3/5/2017 15:06	18.56	101.1	7.07	8.6	SR12	3/5/2017 21:06	18.86	103.4	7.23	7.5
SR12	3/5/2017 3:11	17.81	101.7	7.11	8.6	SR12	3/5/2017 9:11	18.34	102.5	7.17	7.4	SR12	3/5/2017 15:11	18.55	103.2	7.22	8.2	SR12	3/5/2017 21:11	18.88	105.1	7.35	6.4
SR12	3/5/2017 3:16	17.83	101.0	7.06	9.8	SR12	3/5/2017 9:16	18.35	103.2	7.22	7.8	SR12	3/5/2017 15:16	18.53	98.1	6.86	6.6	SR12	3/5/2017 21:16	18.86	105.5	7.38	7.6
SR12	3/5/2017 3:21	17.84	104.5	7.31	9.3	SR12	3/5/2017 9:21	18.35	104.8	7.33	6.3	SR12	3/5/2017 15:21	18.51	99.4	6.95	9.8	SR12	3/5/2017 21:21	18.78	99.4	6.95	8.7
SR12	3/5/2017 3:26	17.83	99.1	6.93	7.9	SR12	3/5/2017 9:26	18.32	101.2	7.08	5.6	SR12	3/5/2017 15:26	18.54	98.2	6.87	6.6	SR12	3/5/2017 21:26	18.75	103.7	7.25	6.5
SR12	3/5/2017 3:31	17.84	102.8	7.19	5.7	SR12	3/5/2017 9:31	18.32	99.7	6.97	7.2	SR12	3/5/2017 15:31	18.60	103.4	7.23	9.4	SR12	3/5/2017 21:31	18.74	100.8	7.05	8.4
SR12	3/5/2017 3:36	17.86	105.2	7.36	8.0	SR12	3/5/2017 9:36	18.33	103.7	7.25	6.3	SR12	3/5/2017 15:36	18.55	99.4	6.95	9.4	SR12	3/5/2017 21:36	18.76	105.4	7.37	6.5
SR12	3/5/2017 3:41	17.86	98.4	6.88	7.8	SR12	3/5/2017 9:41	18.30	99.1	6.93	6.6	SR12	3/5/2017 15:41	18.53	97.1	6.79	5.6	SR12	3/5/2017 21:41	18.72	100.1	7.00	5.8
SR12	3/5/2017 3:46	17.86	96.5	6.75	6.6	SR12	3/5/2017 9:46	18.34	100.8	7.05	9.7	SR12	3/5/2017 15:46	18.55	104.4	7.30	8.6	SR12	3/5/2017 21:46	18.70	102.5	7.17	6.1
SR12	3/5/2017 3:51	17.86	97.2	6.80	6.5	SR12	3/5/2017 9:51	18.36	103.8	7.26	9.7	SR12	3/5/2017 15:51	18.57	103.1	7.21	9.3	SR12	3/5/2017 21:51	18.65	102.7	7.18	

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR13	3/5/2017 0:00	17.55	107.4	7.41	4.9	SR13	3/5/2017 6:00	17.87	103.0	7.10	5.3	SR13	3/5/2017 12:00	18.18	104.3	7.19	6.1	SR13	3/5/2017 18:00	18.30	102.4	7.06	6.3
SR13	3/5/2017 0:05	17.60	101.9	7.03	3.8	SR13	3/5/2017 6:05	17.82	108.2	7.46	4.5	SR13	3/5/2017 12:05	18.18	108.5	7.48	4.1	SR13	3/5/2017 18:05	18.31	100.9	6.96	4.5
SR13	3/5/2017 0:10	17.60	101.5	7.00	3.2	SR13	3/5/2017 6:10	17.83	101.4	6.99	4.3	SR13	3/5/2017 12:10	18.19	101.1	6.97	3.2	SR13	3/5/2017 18:10	18.35	108.6	7.49	5.6
SR13	3/5/2017 0:15	17.60	101.6	7.01	3.8	SR13	3/5/2017 6:15	17.84	107.3	7.40	6.2	SR13	3/5/2017 12:15	18.18	105.6	7.28	4.1	SR13	3/5/2017 18:15	18.32	104.3	7.19	6.6
SR13	3/5/2017 0:20	17.61	105.9	7.30	3.2	SR13	3/5/2017 6:20	17.84	106.1	7.32	5.8	SR13	3/5/2017 12:20	18.19	104.5	7.21	3.9	SR13	3/5/2017 18:20	18.31	101.9	7.03	4.0
SR13	3/5/2017 0:25	17.61	102.8	7.09	6.7	SR13	3/5/2017 6:25	17.85	104.3	7.19	6.4	SR13	3/5/2017 12:25	18.19	101.6	7.01	3.9	SR13	3/5/2017 18:25	18.35	107.6	7.42	6.8
SR13	3/5/2017 0:30	17.61	103.7	7.15	4.4	SR13	3/5/2017 6:30	17.84	105.9	7.30	5.4	SR13	3/5/2017 12:30	18.19	105.9	7.30	6.6	SR13	3/5/2017 18:30	18.38	106.7	7.36	5.0
SR13	3/5/2017 0:35	17.60	100.3	6.92	5.5	SR13	3/5/2017 6:35	17.80	108.0	7.45	5.5	SR13	3/5/2017 12:35	18.22	103.8	7.16	5.6	SR13	3/5/2017 18:35	18.33	100.1	6.90	6.4
SR13	3/5/2017 0:40	17.82	108.3	7.47	5.3	SR13	3/5/2017 6:40	17.82	108.6	7.49	3.7	SR13	3/5/2017 12:40	18.22	101.6	7.01	3.4	SR13	3/5/2017 18:40	18.31	103.8	7.16	4.0
SR13	3/5/2017 0:45	17.83	105.4	7.27	6.1	SR13	3/5/2017 6:45	17.84	103.5	7.14	6.5	SR13	3/5/2017 12:45	18.20	107.4	7.41	4.3	SR13	3/5/2017 18:45	18.42	108.0	7.45	4.9
SR13	3/5/2017 0:50	17.83	106.3	7.33	4.6	SR13	3/5/2017 6:50	17.80	108.3	7.47	4.9	SR13	3/5/2017 12:50	18.18	102.1	7.04	6.0	SR13	3/5/2017 18:50	18.45	100.1	6.90	4.5
SR13	3/5/2017 0:55	17.84	108.2	7.46	4.3	SR13	3/5/2017 6:55	17.84	108.5	7.48	4.8	SR13	3/5/2017 12:55	18.20	104.5	7.21	6.4	SR13	3/5/2017 18:55	18.36	101.2	6.98	3.2
SR13	3/5/2017 1:00	17.84	106.6	7.35	5.4	SR13	3/5/2017 7:00	17.82	106.9	7.37	5.7	SR13	3/5/2017 13:00	18.21	105.7	7.29	4.3	SR13	3/5/2017 19:00	18.49	102.5	7.07	5.7
SR13	3/5/2017 1:05	17.84	99.6	6.87	5.3	SR13	3/5/2017 7:05	17.82	108.6	7.49	6.9	SR13	3/5/2017 13:05	18.24	100.9	6.96	6.6	SR13	3/5/2017 19:05	18.66	108.6	7.49	5.7
SR13	3/5/2017 1:10	17.82	101.9	7.03	5.3	SR13	3/5/2017 7:10	17.83	102.5	7.07	3.1	SR13	3/5/2017 13:10	18.29	104.4	7.20	3.7	SR13	3/5/2017 19:10	18.49	102.8	7.09	5.7
SR13	3/5/2017 1:15	17.82	108.2	7.46	4.0	SR13	3/5/2017 7:15	17.86	100.5	6.93	6.6	SR13	3/5/2017 13:15	18.25	103.7	7.15	6.1	SR13	3/5/2017 19:15	18.55	99.5	6.86	6.5
SR13	3/5/2017 1:20	17.83	101.2	6.98	6.5	SR13	3/5/2017 7:20	17.86	106.6	7.35	4.1	SR13	3/5/2017 13:20	18.31	103.8	7.16	3.4	SR13	3/5/2017 19:20	18.47	101.9	7.03	5.9
SR13	3/5/2017 1:25	17.83	99.8	6.86	4.9	SR13	3/5/2017 7:25	17.85	101.9	7.03	4.0	SR13	3/5/2017 13:25	18.31	103.8	7.16	6.8	SR13	3/5/2017 19:25	18.44	103.2	7.12	3.1
SR13	3/5/2017 1:30	17.83	107.9	7.44	6.7	SR13	3/5/2017 7:30	17.86	108.3	7.47	6.5	SR13	3/5/2017 13:30	18.31	99.3	6.85	4.1	SR13	3/5/2017 19:30	18.55	108.8	7.50	5.8
SR13	3/5/2017 1:35	17.83	106.1	7.32	4.7	SR13	3/5/2017 7:35	17.81	105.6	7.28	5.8	SR13	3/5/2017 13:35	18.33	102.5	7.07	5.0	SR13	3/5/2017 19:35	18.50	100.5	6.93	6.4
SR13	3/5/2017 1:40	17.77	106.6	7.35	3.8	SR13	3/5/2017 7:40	17.79	105.1	7.25	5.5	SR13	3/5/2017 13:40	18.32	108.5	7.48	4.6	SR13	3/5/2017 19:40	18.49	101.5	7.00	4.4
SR13	3/5/2017 1:45	17.75	104.3	7.19	4.9	SR13	3/5/2017 7:45	17.82	106.0	7.31	4.4	SR13	3/5/2017 13:45	18.32	107.7	7.43	3.3	SR13	3/5/2017 19:45	18.52	108.8	7.50	3.3
SR13	3/5/2017 1:50	17.78	107.9	7.44	4.7	SR13	3/5/2017 7:50	17.83	108.6	7.49	4.4	SR13	3/5/2017 13:50	18.30	104.1	7.18	5.8	SR13	3/5/2017 19:50	18.49	103.1	7.11	4.0
SR13	3/5/2017 1:55	17.79	100.9	6.96	4.9	SR13	3/5/2017 7:55	17.88	108.0	7.45	5.2	SR13	3/5/2017 13:55	18.31	100.9	6.96	6.5	SR13	3/5/2017 19:55	18.46	104.1	7.18	4.9
SR13	3/5/2017 2:00	17.80	100.5	6.93	6.9	SR13	3/5/2017 8:00	17.95	99.9	6.89	3.1	SR13	3/5/2017 14:00	18.27	102.4	7.06	6.4	SR13	3/5/2017 20:00	18.40	102.1	7.04	4.2
SR13	3/5/2017 2:05	17.82	105.6	7.28	4.5	SR13	3/5/2017 8:05	18.04	102.5	7.07	4.2	SR13	3/5/2017 14:05	18.32	103.5	7.14	6.4	SR13	3/5/2017 20:05	18.48	100.2	6.91	4.5
SR13	3/5/2017 2:10	17.82	103.5	7.14	5.8	SR13	3/5/2017 8:10	17.85	107.6	7.42	4.5	SR13	3/5/2017 14:10	18.33	102.5	7.07	3.8	SR13	3/5/2017 20:10	18.46	105.9	7.30	4.3
SR13	3/5/2017 2:15	17.82	106.9	7.37	5.5	SR13	3/5/2017 8:15	17.81	100.1	6.90	3.6	SR13	3/5/2017 14:15	18.31	99.5	6.86	3.4	SR13	3/5/2017 20:15	18.45	104.1	7.18	3.8
SR13	3/5/2017 2:20	17.82	107.9	7.44	5.5	SR13	3/5/2017 8:20	17.87	100.9	6.96	5.1	SR13	3/5/2017 14:20	18.36	102.8	7.09	6.9	SR13	3/5/2017 20:20	18.44	106.7	7.36	6.5
SR13	3/5/2017 2:25	17.85	104.1	7.18	4.4	SR13	3/5/2017 8:25	17.92	102.7	7.08	6.1	SR13	3/5/2017 14:25	18.36	103.4	7.13	6.0	SR13	3/5/2017 20:25	18.42	102.1	7.04	6.3
SR13	3/5/2017 2:30	17.83	104.8	7.23	6.1	SR13	3/5/2017 8:30	17.87	101.5	7.00	4.1	SR13	3/5/2017 14:30	18.38	102.7	7.08	3.4	SR13	3/5/2017 20:30	18.46	106.4	7.34	3.4
SR13	3/5/2017 2:35	17.84	102.7	7.08	5.1	SR13	3/5/2017 8:35	17.95	108.6	7.49	4.9	SR13	3/5/2017 14:35	18.38	103.1	7.11	5.6	SR13	3/5/2017 20:35	18.39	99.9	6.89	4.0
SR13	3/5/2017 2:40	17.83	100.2	6.91	4.9	SR13	3/5/2017 8:40	17.97	106.4	7.34	4.5	SR13	3/5/2017 14:40	18.36	101.8	7.02	4.0	SR13	3/5/2017 20:40	18.31	105.6	7.28	4.6
SR13	3/5/2017 2:45	17.79	105.1	7.25	4.9	SR13	3/5/2017 8:45	18.03	102.2	7.05	3.8	SR13	3/5/2017 14:45	18.35	105.7	7.29	4.1	SR13	3/5/2017 20:45	18.32	100.2	6.91	6.1
SR13	3/5/2017 2:50	17.82	100.2	6.91	4.1	SR13	3/5/2017 8:50	17.99	108.0	7.45	5.8	SR13	3/5/2017 14:50	18.38	100.8	6.95	4.6	SR13	3/5/2017 20:50	18.45	108.0	7.45	4.9
SR13	3/5/2017 2:55	17.79	107.9	7.44	6.1	SR13	3/5/2017 8:55	17.98	106.4	7.34	4.3	SR13	3/5/2017 14:55	18.33	107.0	7.38	5.5	SR13	3/5/2017 20:55	18.46	108.9	7.51	5.3
SR13	3/5/2017 3:00	17.79	101.5	7.00	5.0	SR13	3/5/2017 9:00	17.90	104.7	7.22	4.0	SR13	3/5/2017 15:00	18.38	107.4	7.41	3.1	SR13	3/5/2017 21:00	18.59	106.1	7.32	6.3
SR13	3/5/2017 3:05	17.77	103.2	7.12	3.6	SR13	3/5/2017 9:05	17.92	104.1	7.18	4.6	SR13	3/5/2017 15:05	18.36	106.7	7.36	4.2	SR13	3/5/2017 21:05	18.48	100.8	6.95	5.7
SR13	3/5/2017 3:10	17.82	104.7	7.22	3.8	SR13	3/5/2017 9:10	17.96	104.5	7.21	4.6	SR13	3/5/2017 15:10	18.34	103.4	7.13	6.9	SR13	3/5/2017 21:10	18.44	100.5	6.93	5.4
SR13	3/5/2017 3:15	17.75	105.4	7.27	6.0	SR13	3/5/2017 9:15	17.99	108.8	7.50	5.0	SR13	3/5/2017 15:15	18.36	102.4	7.06	5.9	SR13	3/5/2017 21:15	18.50	101.6	7.01	6.2
SR13	3/5/2017 3:20	17.80	101.1	6.97	6.6	SR13	3/5/2017 9:20	17.94	103.1	7.11	6.4	SR13	3/5/2017 15:20	18.36	105.4	7.27	6.3	SR13	3/5/2017 21:20	18.59	104.0	7.17	4.4
SR13	3/5/2017 3:25	17.82	101.8	7.02	6.7	SR13	3/5/2017 9:25	17.96	102.2	7.05	6.5	SR13	3/5/2017 15:25	18.56	99.5	6.86	6.1	SR13	3/5/2017 21:25	18.82	99.6	6.87	6.9
SR13	3/5/2017 3:30	17.79	101.8	7.02	6.3	SR13	3/5/2017 9:30	17.96	106.6	7.35	4.4	SR13	3/5/2017 15:30	18.48	99.5	6.86	4.4	SR13	3/5/2017 21:30	18.91	100.2	6.91	3.9
SR13	3/5/2017 3:35	17.83	104.7	7.22	4.2	SR13	3/5/2017 9:35	17.92	107.9	7.44	4.5	SR13	3/5/2017 15:35	18.58	107.0	7.38	3.1	SR13	3/5/2017 21:35	18.98	108.6	7.49	4.4
SR13	3/5/2017 3:40	17.81	108.8	7.50	4.3	SR13	3/5/2017 9:40	17.93	106.0	7.31	6.5	SR13	3/5/2017 15:40	18.60	107.9	7.44	5.3	SR13	3/5/2017 21:40	18.85	106.9	7.37	6.6
SR13	3/5/2017 3:45	17.84	108.8	7.50	3.7	SR13	3/5/2017 9:45	17.81	105.9	7.30	6.7	SR13	3/5/2017 15:45	18.61	101.4	6.99	4.0	SR13	3/5/2017 21:45	18.90	107.7	7.43	3.5
SR13	3/5/2017 3:50	17.84	99.6	6.87	6.7	SR13	3/5/2017 9:50	17.84	108.2	7.46	3.2	SR13	3/5/2017 15:50	18.56	105.7								

24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	3/5/2017 0:17	0.13				SR12	3/5/2017 0:17	0.17			
SR4	3/5/2017 0:37	0.17				SR12	3/5/2017 0:37	0.17			
SR4	3/5/2017 0:57	0.17				SR12	3/5/2017 0:57	0.18			
SR4	3/5/2017 1:17	0.13				SR12	3/5/2017 1:17	0.15			
SR4	3/5/2017 1:37	0.16				SR12	3/5/2017 1:37	0.14			
SR4	3/5/2017 1:57	0.17				SR12	3/5/2017 1:57	0.16			
SR4	3/5/2017 2:17	0.14				SR12	3/5/2017 2:17	0.15			
SR4	3/5/2017 2:37	0.17				SR12	3/5/2017 2:37	0.18			
SR4	3/5/2017 2:57	0.17				SR12	3/5/2017 2:57	0.17			
SR4	3/5/2017 3:17	0.17				SR12	3/5/2017 3:17	0.18			
SR4	3/5/2017 3:37	0.13				SR12	3/5/2017 3:37	0.15			
SR4	3/5/2017 3:57	0.15				SR12	3/5/2017 3:57	0.15			
SR4	3/5/2017 4:17	0.17				SR12	3/5/2017 4:17	0.14			
SR4	3/5/2017 4:37	0.17				SR12	3/5/2017 4:37	0.15			
SR4	3/5/2017 4:57	0.16				SR12	3/5/2017 4:57	0.16			
SR4	3/5/2017 5:17	0.17				SR12	3/5/2017 5:17	0.16			
SR4	3/5/2017 5:37	0.17				SR12	3/5/2017 5:37	0.15			
SR4	3/5/2017 5:57	0.13				SR12	3/5/2017 5:57	0.14			
SR4						SR12					
SR4	3/5/2017 6:37	0.13				SR12	3/5/2017 6:37	0.16			
SR4	3/5/2017 6:57	0.17				SR12	3/5/2017 6:57	0.14			
SR4	3/5/2017 7:17	0.17				SR12	3/5/2017 7:17	0.18			
SR4	3/5/2017 7:37	0.13				SR12	3/5/2017 7:37	0.17			
SR4	3/5/2017 7:57	0.13				SR12	3/5/2017 7:57	0.16			
SR4	3/5/2017 8:17	0.16				SR12	3/5/2017 8:17	0.14			
SR4	3/5/2017 8:37	0.15				SR12	3/5/2017 8:37	0.14			
SR4	3/5/2017 8:57	0.16				SR12	3/5/2017 8:57	0.17			
SR4	3/5/2017 9:17	0.17				SR12	3/5/2017 9:17	0.18			
SR4	3/5/2017 9:37	0.13				SR12	3/5/2017 9:37	0.16			
SR4	3/5/2017 9:57	0.15				SR12	3/5/2017 9:57	0.17			
SR4	3/5/2017 10:17	0.15				SR12	3/5/2017 10:17	0.18			
SR4	3/5/2017 10:37	0.15				SR12	3/5/2017 10:37	0.17			
SR4	3/5/2017 10:57	0.13				SR12	3/5/2017 10:57	0.15			
SR4	3/5/2017 11:17	0.13				SR12	3/5/2017 11:17	0.18			
SR4	3/5/2017 11:37	0.15				SR12	3/5/2017 11:37	0.15			
SR4	3/5/2017 11:57	0.13				SR12	3/5/2017 11:57	0.15			
SR4	3/5/2017 12:17	0.13				SR12	3/5/2017 12:17	0.17			
SR4	3/5/2017 12:37	0.15				SR12	3/5/2017 12:37	0.18			
SR4	3/5/2017 12:57	0.13				SR12	3/5/2017 12:57	0.16			
SR4	3/5/2017 13:17	0.14				SR12	3/5/2017 13:17	0.17			
SR4	3/5/2017 13:37	0.15				SR12	3/5/2017 13:37	0.14			
SR4	3/5/2017 13:57	0.13				SR12	3/5/2017 13:57	0.15			
SR4	3/5/2017 14:17	0.13				SR12	3/5/2017 14:17	0.16			
SR4	3/5/2017 14:37	0.14				SR12	3/5/2017 14:37	0.14			
SR4	3/5/2017 14:57	0.13				SR12	3/5/2017 14:57	0.14			
SR4	3/5/2017 15:17	0.15				SR12	3/5/2017 15:17	0.14			
SR4	3/5/2017 15:37	0.15				SR12	3/5/2017 15:37	0.15			
SR4	3/5/2017 15:57	0.16				SR12	3/5/2017 15:57	0.18			
SR4	3/5/2017 16:17	0.14				SR12	3/5/2017 16:17	0.16			
SR4	3/5/2017 16:37	0.16				SR12	3/5/2017 16:37	0.14			
SR4	3/5/2017 16:57	0.13				SR12	3/5/2017 16:57	0.16			
SR4	3/5/2017 17:17	0.13				SR12	3/5/2017 17:17	0.18			
SR4	3/5/2017 17:37	0.16				SR12	3/5/2017 17:37	0.18			
SR4	3/5/2017 17:57	0.14				SR12	3/5/2017 17:57	0.16			
SR4	3/5/2017 18:17	0.16				SR12	3/5/2017 18:17	0.16			
SR4	3/5/2017 18:37	0.15				SR12	3/5/2017 18:37	0.19			
SR4	3/5/2017 18:57	0.16				SR12	3/5/2017 18:57	0.19			
SR4	3/5/2017 19:17	0.13				SR12	3/5/2017 19:17	0.15			
SR4	3/5/2017 19:37	0.13				SR12	3/5/2017 19:37	0.19			
SR4	3/5/2017 19:57	0.16				SR12	3/5/2017 19:57	0.19			
SR4	3/5/2017 20:17	0.16				SR12	3/5/2017 20:17	0.16			
SR4	3/5/2017 20:37	0.14				SR12	3/5/2017 20:37	0.19			
SR4	3/5/2017 20:57	0.16				SR12	3/5/2017 20:57	0.18			
SR4	3/5/2017 21:17	0.17				SR12	3/5/2017 21:17	0.15			
SR4	3/5/2017 21:37	0.15				SR12	3/5/2017 21:37	0.15			
SR4	3/5/2017 21:57	0.17				SR12	3/5/2017 21:57	0.15			
SR4	3/5/2017 22:17	0.13				SR12	3/5/2017 22:17	0.15			
SR4	3/5/2017 22:37	0.15				SR12	3/5/2017 22:37	0.16			
SR4	3/5/2017 22:57	0.17				SR12	3/5/2017 22:57	0.19			
SR4	3/5/2017 23:17	0.16				SR12	3/5/2017 23:17	0.16			
SR4	3/5/2017 23:37	0.17				SR12	3/5/2017 23:37	0.16			
SR4	3/5/2017 23:57	0.15				SR12	3/5/2017 23:57	0.15			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12.

## 24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR4	3/6/2017 0:01	18.89	102.5	7.27	4.6	SR4	3/6/2017 6:01	18.63	108.7	7.71	7.3	SR4	3/6/2017 12:01	18.75	105.2	7.46	6.0	SR4	3/6/2017 18:01	18.54	108.1	7.67	8.6
SR4	3/6/2017 0:06	18.89	108.4	7.69	6.0	SR4	3/6/2017 6:06	18.71	107.4	7.62	7.4	SR4	3/6/2017 12:06	18.77	102.8	7.29	9.5	SR4	3/6/2017 18:06	18.55	108.3	7.68	4.7
SR4	3/6/2017 0:11	18.92	107.2	7.60	6.5	SR4	3/6/2017 6:11	18.66	105.5	7.48	9.5	SR4	3/6/2017 12:11					SR4	3/6/2017 18:11	18.55	103.6	7.35	7.0
SR4	3/6/2017 0:16	18.88	108.4	7.69	6.5	SR4	3/6/2017 6:16	18.65	109.1	7.74	8.1	SR4	3/6/2017 12:16					SR4	3/6/2017 18:16	18.55	101.9	7.23	5.0
SR4	3/6/2017 0:21	18.85	103.2	7.32	8.2	SR4	3/6/2017 6:21	18.65	108.0	7.66	5.4	SR4	3/6/2017 12:21					SR4	3/6/2017 18:21	18.56	108.4	7.69	7.1
SR4	3/6/2017 0:26	18.82	107.7	7.64	5.7	SR4	3/6/2017 6:26	18.65	109.3	7.75	4.5	SR4	3/6/2017 12:26					SR4	3/6/2017 18:26	18.56	108.9	7.72	6.2
SR4	3/6/2017 0:31	18.82	108.9	7.72	5.1	SR4	3/6/2017 6:31	18.66	103.9	7.37	9.7	SR4	3/6/2017 12:31					SR4	3/6/2017 18:31	18.54	109.0	7.73	4.4
SR4	3/6/2017 0:36	18.82	106.6	7.56	5.2	SR4	3/6/2017 6:36	18.64	106.2	7.53	7.9	SR4	3/6/2017 12:36					SR4	3/6/2017 18:36	18.55	103.8	7.36	8.8
SR4	3/6/2017 0:41	18.82	109.0	7.73	8.4	SR4	3/6/2017 6:41	18.65	108.1	7.67	9.3	SR4	3/6/2017 12:41					SR4	3/6/2017 18:41	18.54	106.0	7.52	9.0
SR4	3/6/2017 0:46	18.81	107.6	7.63	6.6	SR4	3/6/2017 6:46	18.64	108.7	7.71	4.9	SR4	3/6/2017 12:46					SR4	3/6/2017 18:46	18.55	108.1	7.67	7.0
SR4	3/6/2017 0:51	18.86	105.0	7.45	5.0	SR4	3/6/2017 6:51	18.64	109.0	7.73	6.7	SR4	3/6/2017 12:51					SR4	3/6/2017 18:51	18.53	103.4	7.33	8.9
SR4	3/6/2017 0:56	18.91	103.5	7.34	4.5	SR4	3/6/2017 6:56	18.66	108.9	7.72	5.9	SR4	3/6/2017 12:56					SR4	3/6/2017 18:56	18.56	103.9	7.37	6.7
SR4	3/6/2017 1:01	18.95	103.6	7.35	8.0	SR4	3/6/2017 7:01	18.65	104.9	7.44	8.1	SR4	3/6/2017 13:01					SR4	3/6/2017 19:01	18.56	105.6	7.49	5.8
SR4	3/6/2017 1:06	18.91	102.5	7.27	9.2	SR4	3/6/2017 7:06	18.64	108.0	7.66	4.6	SR4	3/6/2017 13:06					SR4	3/6/2017 19:06	18.55	102.1	7.24	6.5
SR4	3/6/2017 1:11	18.82	102.4	7.26	5.6	SR4	3/6/2017 7:11	18.63	105.9	7.51	9.2	SR4	3/6/2017 13:11					SR4	3/6/2017 19:11	18.55	106.2	7.53	6.2
SR4	3/6/2017 1:16	18.67	107.0	7.59	7.5	SR4	3/6/2017 7:16	18.62	107.3	7.61	4.9	SR4	3/6/2017 13:16	18.77	108.3	7.68	7.5	SR4	3/6/2017 19:16	18.55	104.2	7.39	8.7
SR4	3/6/2017 1:21	18.68	104.2	7.39	8.6	SR4	3/6/2017 7:21	18.60	104.5	7.41	9.6	SR4	3/6/2017 13:21	18.77	108.4	7.69	5.8	SR4	3/6/2017 19:21	18.54	103.1	7.31	6.0
SR4	3/6/2017 1:26	18.70	103.4	7.33	5.0	SR4	3/6/2017 7:26	18.60	108.7	7.71	5.6	SR4	3/6/2017 13:26	18.77	105.9	7.51	4.5	SR4	3/6/2017 19:26	18.54	106.3	7.54	4.6
SR4	3/6/2017 1:31	18.67	104.1	7.38	9.7	SR4	3/6/2017 7:31	18.58	105.2	7.46	9.5	SR4	3/6/2017 13:31	18.78	102.4	7.26	8.7	SR4	3/6/2017 19:31	18.54	102.5	7.27	8.4
SR4	3/6/2017 1:36	18.66	104.9	7.44	5.8	SR4	3/6/2017 7:36	18.57	106.0	7.52	8.0	SR4	3/6/2017 13:36	18.77	103.4	7.33	8.0	SR4	3/6/2017 19:36	18.54	104.6	7.42	7.8
SR4	3/6/2017 1:41	18.66	105.9	7.51	8.6	SR4	3/6/2017 7:41	18.58	103.5	7.34	5.5	SR4	3/6/2017 13:41	18.77	101.9	7.23	8.9	SR4	3/6/2017 19:41	18.53	107.0	7.59	5.7
SR4	3/6/2017 1:46	18.61	108.6	7.70	8.6	SR4	3/6/2017 7:46	18.60	105.2	7.46	8.4	SR4	3/6/2017 13:46	18.88	102.2	7.25	4.6	SR4	3/6/2017 19:46	18.53	103.4	7.33	5.4
SR4	3/6/2017 1:51	18.63	102.8	7.29	4.9	SR4	3/6/2017 7:51	18.59	105.5	7.48	7.8	SR4	3/6/2017 13:51	19.36	105.5	7.48	7.5	SR4	3/6/2017 19:51	18.53	108.0	7.66	9.7
SR4	3/6/2017 1:56	18.63	101.8	7.22	6.2	SR4	3/6/2017 7:56	18.60	107.2	7.60	7.1	SR4	3/6/2017 13:56	18.75	107.0	7.59	6.1	SR4	3/6/2017 19:56	18.53	106.7	7.57	5.6
SR4	3/6/2017 2:01	18.64	107.7	7.64	5.6	SR4	3/6/2017 8:01	18.58	106.9	7.58	4.8	SR4	3/6/2017 14:01	18.87	103.1	7.31	5.8	SR4	3/6/2017 20:01	18.53	109.1	7.74	8.3
SR4	3/6/2017 2:06	18.65	107.2	7.60	5.3	SR4	3/6/2017 8:06	18.58	101.9	7.23	5.2	SR4	3/6/2017 14:06	18.78	109.1	7.74	6.8	SR4	3/6/2017 20:06	18.52	102.1	7.24	7.1
SR4	3/6/2017 2:11	18.65	108.9	7.72	7.9	SR4	3/6/2017 8:11	18.59	103.6	7.35	8.6	SR4	3/6/2017 14:11	18.78	106.9	7.58	7.2	SR4	3/6/2017 20:11	18.53	108.7	7.71	6.8
SR4	3/6/2017 2:16	18.67	101.9	7.23	9.0	SR4	3/6/2017 8:16	18.59	103.8	7.36	6.7	SR4	3/6/2017 14:16	18.77	105.9	7.51	6.6	SR4	3/6/2017 20:16	18.53	103.6	7.35	7.4
SR4	3/6/2017 2:21	18.66	104.6	7.42	9.7	SR4	3/6/2017 8:21	18.59	108.0	7.66	6.8	SR4	3/6/2017 14:21	18.78	107.9	7.65	5.2	SR4	3/6/2017 20:21	18.54	101.9	7.23	8.9
SR4	3/6/2017 2:26	18.66	105.8	7.50	6.3	SR4	3/6/2017 8:26	18.60	104.5	7.41	8.9	SR4	3/6/2017 14:26	18.76	109.3	7.75	7.7	SR4	3/6/2017 20:26	18.54	104.9	7.44	5.0
SR4	3/6/2017 2:31	18.66	107.3	7.61	9.5	SR4	3/6/2017 8:31	18.59	108.1	7.67	5.9	SR4	3/6/2017 14:31	18.75	102.8	7.29	9.7	SR4	3/6/2017 20:31	18.53	101.8	7.22	7.5
SR4	3/6/2017 2:36	18.67	107.4	7.62	5.3	SR4	3/6/2017 8:36	18.60	105.3	7.47	6.1	SR4	3/6/2017 14:36	18.78	105.8	7.50	6.0	SR4	3/6/2017 20:36	18.54	108.9	7.72	11.5
SR4	3/6/2017 2:41	18.67	109.3	7.75	4.9	SR4	3/6/2017 8:41	18.60	104.9	7.44	9.2	SR4	3/6/2017 14:41	18.78	106.0	7.52	4.6	SR4	3/6/2017 20:41	18.54	102.2	7.25	6.8
SR4	3/6/2017 2:46	18.76	101.8	7.22	8.7	SR4	3/6/2017 8:46	18.59	104.1	7.38	8.3	SR4	3/6/2017 14:46	18.77	104.9	7.44	9.1	SR4	3/6/2017 20:46	18.54	104.1	7.38	8.2
SR4	3/6/2017 2:51	18.82	102.5	7.27	9.0	SR4	3/6/2017 8:51	18.58	101.8	7.22	5.4	SR4	3/6/2017 14:51	18.73	104.9	7.44	7.4	SR4	3/6/2017 20:51	18.56	107.0	7.59	6.6
SR4	3/6/2017 2:56	18.81	108.6	7.70	5.2	SR4	3/6/2017 8:56	18.58	103.1	7.31	6.7	SR4	3/6/2017 14:56	18.70	106.6	7.56	8.9	SR4	3/6/2017 20:56	18.56	105.8	7.50	8.4
SR4	3/6/2017 3:01	18.86	102.1	7.24	7.0	SR4	3/6/2017 9:01	18.59	109.3	7.75	8.4	SR4	3/6/2017 15:01	18.72	104.3	7.40	9.1	SR4	3/6/2017 21:01	18.55	102.5	7.27	9.4
SR4	3/6/2017 3:06	18.85	104.9	7.44	8.4	SR4	3/6/2017 9:06	18.61	104.6	7.42	6.4	SR4	3/6/2017 15:06	18.71	104.8	7.43	9.7	SR4	3/6/2017 21:06	18.53	102.4	7.26	8.6
SR4	3/6/2017 3:11	18.86	101.9	7.23	8.3	SR4	3/6/2017 9:11	18.58	104.1	7.38	8.6	SR4	3/6/2017 15:11	18.70	108.7	7.71	7.9	SR4	3/6/2017 21:11	18.50	105.0	7.45	4.9
SR4	3/6/2017 3:16	18.84	108.7	7.71	4.4	SR4	3/6/2017 9:16	18.64	105.2	7.46	9.2	SR4	3/6/2017 15:16	18.69	105.8	7.50	7.8	SR4	3/6/2017 21:16	18.50	104.6	7.42	7.5
SR4	3/6/2017 3:21	18.82	103.1	7.31	6.8	SR4	3/6/2017 9:21	18.59	107.4	7.62	7.7	SR4	3/6/2017 15:21	18.69	103.4	7.33	8.0	SR4	3/6/2017 21:21	18.47	105.3	7.47	8.0
SR4	3/6/2017 3:26	18.81	107.7	7.64	6.7	SR4	3/6/2017 9:26	18.57	105.6	7.49	7.9	SR4	3/6/2017 15:26	18.68	105.6	7.49	4.7	SR4	3/6/2017 21:26	18.47	106.7	7.57	9.6
SR4	3/6/2017 3:31	18.79	107.9	7.65	6.7	SR4	3/6/2017 9:31	18.56	103.5	7.34	8.2	SR4	3/6/2017 15:31	18.66	107.2	7.60	4.5	SR4	3/6/2017 21:31	18.46	107.6	7.63	5.9
SR4	3/6/2017 3:36	18.76	104.9	7.44	7.4	SR4	3/6/2017 9:36	18.57	108.4	7.69	5.5	SR4	3/6/2017 15:36	18.63	103.6	7.35	4.6	SR4	3/6/2017 21:36	18.45	108.9	7.72	8.8
SR4	3/6/2017 3:41	18.75	106.3	7.54	8.1	SR4	3/6/2017 9:41	18.57	102.1	7.24	8.3	SR4	3/6/2017 15:41	18.62	108.3	7.68	6.4	SR4	3/6/2017 21:41	18.44	106.9	7.58	9.6
SR4	3/6/2017 3:46	18.76	104.2	7.39	7.0	SR4	3/6/2017 9:46	18.57	104.9	7.44	7.8	SR4	3/6/2017 15:46	18.57	105.2	7.46	8.3	SR4	3/6/2017 21:46	18.45	104.5	7.41	8.3
SR4	3/6/2017 3:51	18.77	108.4	7.69	8.2	SR4	3/6/2017 9:51	18.58	102.4	7.26	8.7	SR4	3/6/2017 15:51	18.55	107.3	7.61	5.3	SR4	3/6/2017 21:51	18.45	105.9	7.51	9.4
SR4	3/6/2017 3:56	18.76	106.5	7.55	6.4	SR4	3/6/2017 9:56	18.56	109.3	7.75	4.5	SR4	3/6/2017 15:56	18.54	105.2	7.46	6.9	SR4	3/6/2017 21:56	18.53	105.6	7.49	8.3
SR4	3/6/2017 4:01	18.76	103.6	7.35	9.6	SR4	3/6/2017 10:01	18.55	102.5	7.27	8.0	SR4	3/6/2017										

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR5	3/6/2017 0:00	19.16	102.4	7.26	2.5	SR5	3/6/2017 6:00	19.11	103.8	7.36	3.8	SR5	3/6/2017 12:00	19.09	104.6	7.42	3.0	SR5	3/6/2017 18:00	18.89	104.8	7.43	3.2
SR5	3/6/2017 0:05	19.11	104.9	7.44	4.4	SR5	3/6/2017 6:05	19.08	98.1	6.96	4.0	SR5	3/6/2017 12:05	19.08	102.6	7.28	2.6	SR5	3/6/2017 18:05	18.89	100.4	7.12	3.3
SR5	3/6/2017 0:10	19.16	103.5	7.34	4.1	SR5	3/6/2017 6:10	19.05	100.3	7.11	3.9	SR5	3/6/2017 12:10	19.08	99.5	7.06	2.5	SR5	3/6/2017 18:10	18.88	99.7	7.07	4.7
SR5	3/6/2017 0:15	19.16	98.0	6.95	4.3	SR5	3/6/2017 6:15	19.03	98.1	6.96	3.1	SR5	3/6/2017 12:15	19.08	100.0	7.09	3.4	SR5	3/6/2017 18:15	18.88	103.4	7.33	2.9
SR5	3/6/2017 0:20	19.16	98.3	6.97	4.7	SR5	3/6/2017 6:20	19.02	100.7	7.14	3.3	SR5	3/6/2017 12:20	19.04	98.4	6.98	2.6	SR5	3/6/2017 18:20	18.87	99.1	7.03	2.9
SR5	3/6/2017 0:25	19.24	98.8	7.01	2.5	SR5	3/6/2017 6:25	19.01	99.5	7.06	4.1	SR5	3/6/2017 12:25	19.06	98.3	6.97	4.3	SR5	3/6/2017 18:25	18.87	103.5	7.34	2.9
SR5	3/6/2017 0:30	19.18	103.9	7.37	4.5	SR5	3/6/2017 6:30	19.00	104.5	7.41	2.5	SR5	3/6/2017 12:30	19.04	101.7	7.21	3.6	SR5	3/6/2017 18:30	18.86	101.7	7.21	3.8
SR5	3/6/2017 0:35	19.19	100.3	7.11	2.8	SR5	3/6/2017 6:35	18.99	100.5	7.13	3.9	SR5	3/6/2017 12:35	19.05	102.9	7.30	3.4	SR5	3/6/2017 18:35	18.86	100.1	7.10	3.2
SR5	3/6/2017 0:40	19.19	100.0	7.09	2.8	SR5	3/6/2017 6:40	18.99	104.9	7.44	4.6	SR5	3/6/2017 12:40	19.04	100.3	7.11	4.8	SR5	3/6/2017 18:40	18.85	98.7	7.00	3.1
SR5	3/6/2017 0:45	19.21	100.4	7.12	2.7	SR5	3/6/2017 6:45	19.00	100.4	7.12	4.7	SR5	3/6/2017 12:45	19.06	97.1	6.89	2.8	SR5	3/6/2017 18:45	18.86	104.6	7.42	3.2
SR5	3/6/2017 0:50	19.24	97.3	6.90	2.5	SR5	3/6/2017 6:50	19.01	99.3	7.04	3.4	SR5	3/6/2017 12:50	19.05	99.0	7.02	2.6	SR5	3/6/2017 18:50	18.87	101.7	7.21	2.6
SR5	3/6/2017 0:55	19.25	103.8	7.36	2.6	SR5	3/6/2017 6:55	19.00	99.8	7.08	3.9	SR5	3/6/2017 12:55	19.03	102.5	7.27	4.3	SR5	3/6/2017 18:55	18.87	100.1	7.10	4.3
SR5	3/6/2017 1:00	19.22	101.1	7.17	2.5	SR5	3/6/2017 7:00	19.00	104.8	7.43	3.9	SR5	3/6/2017 13:00	19.04	103.9	7.37	4.4	SR5	3/6/2017 19:00	18.87	104.5	7.41	4.7
SR5	3/6/2017 1:05	19.21	99.5	7.06	4.8	SR5	3/6/2017 7:05	19.02	98.1	6.96	3.6	SR5	3/6/2017 13:05	19.05	99.7	7.07	4.3	SR5	3/6/2017 19:05	18.88	104.6	7.42	4.7
SR5	3/6/2017 1:10	19.21	102.2	7.25	4.6	SR5	3/6/2017 7:10	19.02	101.0	7.16	4.3	SR5	3/6/2017 13:10	19.06	100.5	7.13	2.9	SR5	3/6/2017 19:10	18.86	102.6	7.28	3.9
SR5	3/6/2017 1:15	19.22	102.8	7.29	3.8	SR5	3/6/2017 7:15	19.00	98.4	6.98	2.9	SR5	3/6/2017 13:15	19.06	100.4	7.12	4.2	SR5	3/6/2017 19:15	18.86	103.8	7.36	3.1
SR5	3/6/2017 1:20	19.24	104.2	7.39	3.0	SR5	3/6/2017 7:20	18.99	99.5	7.06	4.1	SR5	3/6/2017 13:20	19.11	98.0	6.95	4.0	SR5	3/6/2017 19:20	18.85	100.5	7.13	4.1
SR5	3/6/2017 1:25	19.24	99.1	7.03	4.0	SR5	3/6/2017 7:25	18.98	99.7	7.07	4.7	SR5	3/6/2017 13:25	19.10	99.8	7.08	3.0	SR5	3/6/2017 19:25	18.85	104.8	7.43	4.0
SR5	3/6/2017 1:30	19.29	99.1	7.03	2.9	SR5	3/6/2017 7:30	18.98	101.8	7.22	4.7	SR5	3/6/2017 13:30	19.05	104.1	7.38	3.9	SR5	3/6/2017 19:30	18.83	102.9	7.30	2.5
SR5	3/6/2017 1:35	19.38	105.0	7.45	4.4	SR5	3/6/2017 7:35	18.97	103.2	7.32	4.4	SR5	3/6/2017 13:35	19.05	99.0	7.02	4.2	SR5	3/6/2017 19:35	18.87	99.8	7.08	3.6
SR5	3/6/2017 1:40	19.34	98.7	7.00	3.6	SR5	3/6/2017 7:40	18.97	104.8	7.43	3.3	SR5	3/6/2017 13:40	18.99	104.3	7.40	4.5	SR5	3/6/2017 19:40	18.86	99.3	7.04	4.6
SR5	3/6/2017 1:45	19.26	102.4	7.26	4.6	SR5	3/6/2017 7:45	18.97	102.1	7.24	2.9	SR5	3/6/2017 13:45	19.00	101.8	7.22	3.6	SR5	3/6/2017 19:45	18.84	101.0	7.16	2.7
SR5	3/6/2017 1:50	19.08	99.8	7.08	2.9	SR5	3/6/2017 7:50	18.96	105.0	7.45	3.1	SR5	3/6/2017 13:50	19.02	104.1	7.38	4.3	SR5	3/6/2017 19:50	18.86	99.4	7.05	3.3
SR5	3/6/2017 1:55	19.03	100.5	7.13	4.1	SR5	3/6/2017 7:55	18.97	103.5	7.34	4.7	SR5	3/6/2017 13:55	19.02	100.4	7.12	3.3	SR5	3/6/2017 19:55	18.86	100.8	7.15	3.9
SR5	3/6/2017 2:00	19.06	102.1	7.24	4.5	SR5	3/6/2017 8:00	18.96	101.4	7.19	2.5	SR5	3/6/2017 14:00	19.01	104.1	7.38	4.6	SR5	3/6/2017 20:00	18.83	99.4	7.05	4.5
SR5	3/6/2017 2:05	19.12	98.6	6.99	2.9	SR5	3/6/2017 8:05	18.96	101.9	7.23	4.5	SR5	3/6/2017 14:05	19.00	102.5	7.27	3.1	SR5	3/6/2017 20:05	18.83	104.3	7.40	3.6
SR5	3/6/2017 2:10	19.06	102.9	7.30	4.2	SR5	3/6/2017 8:10	18.96	104.3	7.40	2.8	SR5	3/6/2017 14:10	19.01	100.3	7.11	3.7	SR5	3/6/2017 20:10	18.82	99.7	7.07	4.8
SR5	3/6/2017 2:15	19.08	102.2	7.25	2.6	SR5	3/6/2017 8:15	18.95	97.6	6.92	4.7	SR5	3/6/2017 14:15	19.01	105.0	7.45	4.6	SR5	3/6/2017 20:15	18.81	100.5	7.13	3.7
SR5	3/6/2017 2:20	19.11	99.7	7.07	3.8	SR5	3/6/2017 8:20	18.94	99.8	7.08	4.5	SR5	3/6/2017 14:20	19.00	104.5	7.41	4.3	SR5	3/6/2017 20:20	18.79	103.2	7.32	3.4
SR5	3/6/2017 2:25	19.11	100.4	7.12	3.5	SR5	3/6/2017 8:25	18.94	101.8	7.22	4.8	SR5	3/6/2017 14:25	19.35	103.6	7.35	2.7	SR5	3/6/2017 20:25	18.80	100.0	7.09	3.6
SR5	3/6/2017 2:30	19.12	101.2	7.18	4.0	SR5	3/6/2017 8:30	18.95	101.0	7.16	4.2	SR5	3/6/2017 14:30	20.78	102.9	7.30	3.9	SR5	3/6/2017 20:30	18.80	103.8	7.36	4.2
SR5	3/6/2017 2:35	19.10	102.2	7.25	2.6	SR5	3/6/2017 8:35	18.94	104.8	7.43	3.0	SR5	3/6/2017 14:35	18.94	100.4	7.12	2.6	SR5	3/6/2017 20:35	18.80	99.3	7.04	3.3
SR5	3/6/2017 2:40	19.10	101.9	7.23	4.8	SR5	3/6/2017 8:40	18.93	103.2	7.32	2.7	SR5	3/6/2017 14:40	18.92	104.6	7.42	3.9	SR5	3/6/2017 20:40	18.79	99.3	7.04	3.8
SR5	3/6/2017 2:45	19.10	99.7	7.07	4.7	SR5	3/6/2017 8:45	18.93	99.4	7.05	3.3	SR5	3/6/2017 14:45	18.93	103.9	7.37	4.0	SR5	3/6/2017 20:45	18.80	99.4	7.05	3.6
SR5	3/6/2017 2:50	19.10	102.5	7.27	3.9	SR5	3/6/2017 8:50	18.93	101.7	7.21	3.6	SR5	3/6/2017 14:50	18.93	97.0	6.88	2.6	SR5	3/6/2017 20:50	18.80	97.7	6.93	4.2
SR5	3/6/2017 2:55	19.10	98.7	7.00	2.9	SR5	3/6/2017 8:55	18.94	104.6	7.42	4.6	SR5	3/6/2017 14:55	18.91	97.4	6.91	4.3	SR5	3/6/2017 20:55	18.80	104.5	7.41	4.8
SR5	3/6/2017 3:00	19.10	97.1	6.89	3.6	SR5	3/6/2017 9:00	18.94	100.4	7.12	2.7	SR5	3/6/2017 15:00	18.92	97.7	6.93	3.7	SR5	3/6/2017 21:00	18.80	102.9	7.30	3.9
SR5	3/6/2017 3:05	19.07	97.9	6.94	4.7	SR5	3/6/2017 9:05	18.94	97.3	6.90	2.7	SR5	3/6/2017 15:05	18.88	102.9	7.30	4.8	SR5	3/6/2017 21:05	18.79	100.0	7.09	4.4
SR5	3/6/2017 3:10	19.06	99.1	7.03	4.7	SR5	3/6/2017 9:10	18.94	102.4	7.26	3.7	SR5	3/6/2017 15:10	18.88	104.2	7.39	4.4	SR5	3/6/2017 21:10	18.78	101.5	7.20	2.9
SR5	3/6/2017 3:15	19.05	102.6	7.28	3.5	SR5	3/6/2017 9:15	18.94	102.5	7.27	4.6	SR5	3/6/2017 15:15	18.97	104.2	7.39	4.6	SR5	3/6/2017 21:15	18.78	100.1	7.10	4.3
SR5	3/6/2017 3:20	19.06	101.4	7.19	4.1	SR5	3/6/2017 9:20	18.94	103.4	7.33	4.6	SR5	3/6/2017 15:20	18.95	103.4	7.33	4.4	SR5	3/6/2017 21:20	18.78	98.4	6.98	4.0
SR5	3/6/2017 3:25	19.10	104.8	7.43	3.7	SR5	3/6/2017 9:25	18.94	97.4	6.91	2.6	SR5	3/6/2017 15:25	18.97	99.4	7.05	3.6	SR5	3/6/2017 21:25	18.76	104.8	7.43	3.2
SR5	3/6/2017 3:30	19.11	98.1	6.96	3.0	SR5	3/6/2017 9:30	18.93	98.3	6.97	3.7	SR5	3/6/2017 15:30	18.95	101.0	7.16	3.8	SR5	3/6/2017 21:30	18.80	104.2	7.39	3.5
SR5	3/6/2017 3:35	19.13	103.5	7.34	2.9	SR5	3/6/2017 9:35	18.92	100.4	7.12	3.5	SR5	3/6/2017 15:35	18.96	100.3	7.11	3.6	SR5	3/6/2017 21:35	18.81	104.5	7.41	2.6
SR5	3/6/2017 3:40	19.17	102.4	7.26	4.6	SR5	3/6/2017 9:40	18.93	100.4	7.12	3.7	SR5	3/6/2017 15:40	19.00	98.8	7.01	4.0	SR5	3/6/2017 21:40	18.79	103.5	7.34	2.5
SR5	3/6/2017 3:45	19.16	103.6	7.35	3.5	SR5	3/6/2017 9:45	18.96	104.8	7.43	4.0	SR5	3/6/2017 15:45	18.99	104.8	7.43	3.7	SR5	3/6/2017 21:45	18.74	98.6	6.99	2.8
SR5	3/6/2017 3:50	19.18	103.2	7.32	2.8	SR5	3/6/2017 9:50	18.97	102.6	7.28	3.0	SR5	3/6/2017 15:50	18.98	99.0	7.02	2.5	SR5	3/6/2017 21:50	18.71	97.1	6.89	2.8
SR5	3/6/2017 3:55	19.17	103.6	7.35	3.4	SR5	3/6/2017 9:55	18.96	100.1	7.10	2.5	SR5	3/6/2017 15:55	18.									

## 24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR12	3/6/2017 0:01	18.69	93.7	6.69	7.3	SR12	3/6/2017 6:01	18.70	101.9	7.28	7.2	SR12	3/6/2017 12:01	18.67	101.2	7.23	5.9	SR12	3/6/2017 18:01	18.64	100.9	7.21	5.5
SR12	3/6/2017 0:06	18.65	99.8	7.13	7.3	SR12	3/6/2017 6:06	18.70	102.1	7.29	6.7	SR12	3/6/2017 12:06	18.68	99.3	7.09	7.6	SR12	3/6/2017 18:06	18.63	100.0	7.14	5.9
SR12	3/6/2017 0:11	18.65	93.8	6.70	9.7	SR12	3/6/2017 6:11	18.70	95.3	6.81	6.0	SR12	3/6/2017 12:11	18.69	98.0	7.00	8.3	SR12	3/6/2017 18:11	18.65	95.1	6.79	6.6
SR12	3/6/2017 0:16	18.70	94.6	6.76	8.9	SR12	3/6/2017 6:16	18.68	101.1	7.22	9.6	SR12	3/6/2017 12:16	18.71	100.9	7.21	7.0	SR12	3/6/2017 18:16	18.62	96.2	6.87	9.2
SR12	3/6/2017 0:21	18.71	102.3	7.31	6.1	SR12	3/6/2017 6:21	18.66	102.3	7.31	8.8	SR12	3/6/2017 12:21	18.72	96.7	6.91	7.7	SR12	3/6/2017 18:21	18.62	97.4	6.96	7.4
SR12	3/6/2017 0:26	18.68	101.8	7.27	8.2	SR12	3/6/2017 6:26	18.64	93.7	6.69	7.1	SR12	3/6/2017 12:26	18.68	100.0	7.14	7.9	SR12	3/6/2017 18:26	18.60	99.1	7.08	6.0
SR12	3/6/2017 0:31	18.77	100.2	7.16	7.3	SR12	3/6/2017 6:31	18.62	101.9	7.28	7.0	SR12	3/6/2017 12:31	18.70	101.5	7.25	9.7	SR12	3/6/2017 18:31	18.62	100.4	7.17	6.9
SR12	3/6/2017 0:36	18.72	101.9	7.28	8.8	SR12	3/6/2017 6:36	18.64	101.8	7.27	8.8	SR12	3/6/2017 12:36	18.69	96.0	6.86	7.5	SR12	3/6/2017 18:36	18.61	98.3	7.02	6.3
SR12	3/6/2017 0:41	18.79	94.9	6.78	6.5	SR12	3/6/2017 6:41	18.61	96.0	6.86	7.5	SR12	3/6/2017 12:41	18.70	99.4	7.10	9.7	SR12	3/6/2017 18:41	18.61	101.8	7.27	8.5
SR12	3/6/2017 0:46	18.81	98.7	7.05	8.2	SR12	3/6/2017 6:46	18.61	102.1	7.29	8.9	SR12	3/6/2017 12:46	18.69	100.1	7.15	7.2	SR12	3/6/2017 18:46	18.60	100.2	7.16	9.0
SR12	3/6/2017 0:51	18.84	97.7	6.98	5.7	SR12	3/6/2017 6:51	18.62	98.8	7.06	6.2	SR12	3/6/2017 12:51	18.71	94.2	6.73	6.5	SR12	3/6/2017 18:51	18.66	100.1	7.15	6.7
SR12	3/6/2017 0:56	18.87	94.1	6.72	6.4	SR12	3/6/2017 6:56	18.64	101.1	7.22	5.7	SR12	3/6/2017 12:56	18.70	101.8	7.27	6.8	SR12	3/6/2017 18:56	18.66	95.5	6.82	8.8
SR12	3/6/2017 1:01	18.86	99.5	7.11	9.7	SR12	3/6/2017 7:01	18.64	94.6	6.76	9.0	SR12	3/6/2017 13:01	18.68	96.0	6.86	6.4	SR12	3/6/2017 19:01	18.64	101.6	7.26	7.9
SR12	3/6/2017 1:06	18.87	97.9	6.99	7.4	SR12	3/6/2017 7:06	18.64	98.4	7.03	6.0	SR12	3/6/2017 13:06	18.69	98.8	7.06	6.8	SR12	3/6/2017 19:06	18.65	93.9	6.71	7.7
SR12	3/6/2017 1:11	18.86	94.2	6.73	9.5	SR12	3/6/2017 7:11	18.65	101.5	7.25	9.2	SR12	3/6/2017 13:11	18.70	102.5	7.32	9.0	SR12	3/6/2017 19:11	18.64	96.6	6.90	7.8
SR12	3/6/2017 1:16	18.85	94.1	6.72	8.3	SR12	3/6/2017 7:16	18.66	101.5	7.25	9.1	SR12	3/6/2017 13:16	18.69	101.6	7.26	9.4	SR12	3/6/2017 19:16	18.63	94.5	6.75	7.7
SR12	3/6/2017 1:21	18.87	96.2	6.87	7.3	SR12	3/6/2017 7:21	18.65	95.3	6.81	7.2	SR12	3/6/2017 13:21	18.70	98.8	7.06	8.7	SR12	3/6/2017 19:21	18.68	101.4	7.24	5.9
SR12	3/6/2017 1:26	18.91	95.6	6.83	9.1	SR12	3/6/2017 7:26	18.65	94.8	6.77	7.3	SR12	3/6/2017 13:26	18.72	98.7	7.05	7.9	SR12	3/6/2017 19:26	18.65	100.9	7.21	7.1
SR12	3/6/2017 1:31	18.89	100.7	7.19	9.3	SR12	3/6/2017 7:31	18.65	95.8	6.84	6.7	SR12	3/6/2017 13:31	18.71	93.8	6.70	9.2	SR12	3/6/2017 19:31	18.63	102.5	7.32	7.3
SR12	3/6/2017 1:36	18.89	96.9	6.92	8.3	SR12	3/6/2017 7:36	18.65	94.1	6.72	5.8	SR12	3/6/2017 13:36	18.68	102.2	7.30	9.6	SR12	3/6/2017 19:36	18.60	99.3	7.09	5.7
SR12	3/6/2017 1:41	19.00	95.3	6.81	6.6	SR12	3/6/2017 7:41	18.63	96.6	6.90	6.3	SR12	3/6/2017 13:41	18.68	98.6	7.04	6.4	SR12	3/6/2017 19:41	18.65	96.3	6.88	9.1
SR12	3/6/2017 1:46	18.91	95.2	6.80	9.2	SR12	3/6/2017 7:46	18.63	95.8	6.84	7.1	SR12	3/6/2017 13:46	18.68	100.1	7.15	8.4	SR12	3/6/2017 19:46	18.66	98.6	7.04	6.5
SR12	3/6/2017 1:51	18.86	97.6	6.97	8.7	SR12	3/6/2017 7:51	18.62	100.5	7.18	7.3	SR12	3/6/2017 13:51	18.68	97.0	6.93	8.1	SR12	3/6/2017 19:51	18.64	101.6	7.26	7.9
SR12	3/6/2017 1:56	18.70	95.5	6.82	8.5	SR12	3/6/2017 7:56	18.62	99.4	7.10	8.9	SR12	3/6/2017 13:56	18.68	97.3	6.95	8.0	SR12	3/6/2017 19:56	18.66	98.6	7.04	8.9
SR12	3/6/2017 2:01	18.71	102.2	7.30	9.0	SR12	3/6/2017 8:01	18.61	97.2	6.94	9.3	SR12	3/6/2017 14:01	18.68	100.7	7.19	6.7	SR12	3/6/2017 20:01	18.66	102.6	7.33	8.8
SR12	3/6/2017 2:06	18.71	101.5	7.25	5.5	SR12	3/6/2017 8:06	18.60	94.1	6.72	5.7	SR12	3/6/2017 14:06	18.68	94.8	6.77	8.1	SR12	3/6/2017 20:06	18.69	94.6	6.76	9.3
SR12	3/6/2017 2:11	18.79	98.1	7.01	9.1	SR12	3/6/2017 8:11	18.58	94.5	6.75	6.2	SR12	3/6/2017 14:11	18.68	93.7	6.69	9.0	SR12	3/6/2017 20:11	18.75	99.0	7.07	7.6
SR12	3/6/2017 2:16	18.70	98.4	7.03	9.5	SR12	3/6/2017 8:16	18.58	101.5	7.25	6.7	SR12	3/6/2017 14:16	18.69	93.9	6.71	9.5	SR12	3/6/2017 20:16	18.68	99.7	7.12	8.2
SR12	3/6/2017 2:21	18.69	95.6	6.83	6.3	SR12	3/6/2017 8:21	18.57	96.6	6.90	9.7	SR12	3/6/2017 14:21	18.68	99.1	7.08	5.6	SR12	3/6/2017 20:21	18.62	102.2	7.30	6.5
SR12	3/6/2017 2:26	18.72	97.6	6.97	5.9	SR12	3/6/2017 8:26	18.58	97.3	6.95	6.0	SR12	3/6/2017 14:26	18.67	102.6	7.33	7.0	SR12	3/6/2017 20:26	18.58	102.6	7.33	5.7
SR12	3/6/2017 2:31	18.74	95.2	6.80	7.6	SR12	3/6/2017 8:31	18.57	98.8	7.06	6.4	SR12	3/6/2017 14:31	18.78	100.2	7.16	5.5	SR12	3/6/2017 20:31	18.61	93.8	6.70	8.2
SR12	3/6/2017 2:36	18.72	95.5	6.82	8.1	SR12	3/6/2017 8:36	18.57	97.0	6.93	5.7	SR12	3/6/2017 14:36	19.26	96.3	6.88	5.8	SR12	3/6/2017 20:36	18.59	95.6	6.83	8.0
SR12	3/6/2017 2:41	18.72	93.8	6.70	6.3	SR12	3/6/2017 8:41	18.57	100.0	7.14	7.9	SR12	3/6/2017 14:41	18.64	99.0	7.07	8.1	SR12	3/6/2017 20:41	18.58	100.9	7.21	7.0
SR12	3/6/2017 2:46	18.72	101.2	7.23	6.8	SR12	3/6/2017 8:46	18.57	102.3	7.31	8.8	SR12	3/6/2017 14:46	18.77	102.1	7.29	9.3	SR12	3/6/2017 20:46	18.60	99.7	7.12	7.9
SR12	3/6/2017 2:51	18.71	94.5	6.75	6.3	SR12	3/6/2017 8:51	18.57	101.8	7.27	6.1	SR12	3/6/2017 14:51	18.67	101.1	7.22	9.8	SR12	3/6/2017 20:51	18.63	94.9	6.78	8.6
SR12	3/6/2017 2:56	18.71	94.2	6.73	9.7	SR12	3/6/2017 8:56	18.56	94.6	6.76	7.9	SR12	3/6/2017 14:56	18.66	95.6	6.83	8.4	SR12	3/6/2017 20:56	18.65	100.9	7.21	9.2
SR12	3/6/2017 3:01	18.71	97.4	6.96	6.0	SR12	3/6/2017 9:01	18.57	96.7	6.91	6.4	SR12	3/6/2017 15:01	18.66	96.9	6.92	8.1	SR12	3/6/2017 21:01	18.66	95.5	6.82	8.5
SR12	3/6/2017 3:06	18.71	99.5	7.11	7.3	SR12	3/6/2017 9:06	18.57	94.4	6.74	6.2	SR12	3/6/2017 15:06	18.67	97.0	6.93	8.9	SR12	3/6/2017 21:06	18.67	93.8	6.70	7.4
SR12	3/6/2017 3:11	18.71	98.6	7.04	7.1	SR12	3/6/2017 9:11	18.57	93.7	6.69	6.1	SR12	3/6/2017 15:11	18.66	100.4	7.17	6.2	SR12	3/6/2017 21:11	18.65	94.4	6.74	7.3
SR12	3/6/2017 3:16	18.70	101.6	7.26	8.6	SR12	3/6/2017 9:16	18.57	100.8	7.20	9.3	SR12	3/6/2017 15:16	18.66	97.2	6.94	9.5	SR12	3/6/2017 21:16	18.62	96.2	6.87	7.2
SR12	3/6/2017 3:21	18.70	102.2	7.30	9.0	SR12	3/6/2017 9:21	18.62	97.6	6.97	8.4	SR12	3/6/2017 15:21	18.70	95.1	6.79	5.5	SR12	3/6/2017 21:21	18.62	95.5	6.82	7.7
SR12	3/6/2017 3:26	18.69	97.4	6.96	7.9	SR12	3/6/2017 9:26	18.60	94.8	6.77	6.7	SR12	3/6/2017 15:26	18.70	95.6	6.83	6.7	SR12	3/6/2017 21:26	18.61	101.2	7.23	6.0
SR12	3/6/2017 3:31	18.68	93.9	6.71	7.9	SR12						SR12	3/6/2017 15:31	18.69	95.1	6.79	9.7	SR12	3/6/2017 21:31	18.66	100.8	7.20	6.4
SR12	3/6/2017 3:36	18.69	98.3	7.02	6.7	SR12						SR12	3/6/2017 15:36	18.66	95.2	6.80	8.6	SR12	3/6/2017 21:36	18.62	98.7	7.05	6.0
SR12	3/6/2017 3:41	18.71	99.3	7.09	7.5	SR12						SR12	3/6/2017 15:41	18.65	99.7	7.12	8.8	SR12	3/6/2017 21:41	18.74	95.8	6.84	6.9
SR12	3/6/2017 3:46	18.73	99.3	7.09	7.4	SR12						SR12	3/6/2017 15:46	18.67	94.8	6.77	7.8	SR12	3/6/2017 21:46	18.67	98.4	7.03	6.4
SR12	3/6/2017 3:51	18.75	97.4	6.96	8.8	SR12						SR12	3/6/2017 15:51	18.68	99.1	7.08	9.0	SR12	3/6/2017 21:51	18.70	100.8	7.20	9.7
SR12	3/6/2017 3:56	18.76	101.5	7.25	8.5	SR12						SR12	3/6/2017 15:56	18.67	97.9	6.99	9.1	SR12	3/6/2017 21:56	18.67	99.4	7.10	





24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	3/6/2017 0:17	0.13				SR12	3/6/2017 0:17	0.15			
SR4	3/6/2017 0:37	0.15				SR12	3/6/2017 0:37	0.17			
SR4	3/6/2017 0:57	0.13				SR12	3/6/2017 0:57	0.18			
SR4	3/6/2017 1:17	0.14				SR12	3/6/2017 1:17	0.19			
SR4	3/6/2017 1:37	0.14				SR12	3/6/2017 1:37	0.17			
SR4	3/6/2017 1:57	0.16				SR12	3/6/2017 1:57	0.15			
SR4	3/6/2017 2:17	0.17				SR12	3/6/2017 2:17	0.19			
SR4	3/6/2017 2:37	0.17				SR12	3/6/2017 2:37	0.19			
SR4	3/6/2017 2:57	0.13				SR12	3/6/2017 2:57	0.17			
SR4	3/6/2017 3:17	0.15				SR12	3/6/2017 3:17	0.17			
SR4	3/6/2017 3:37	0.15				SR12	3/6/2017 3:37	0.15			
SR4	3/6/2017 3:57	0.16				SR12	3/6/2017 3:57	0.16			
SR4	3/6/2017 4:17	0.17				SR12	3/6/2017 4:17	0.15			
SR4	3/6/2017 4:37	0.13				SR12	3/6/2017 4:37	0.15			
SR4	3/6/2017 4:57	0.13				SR12	3/6/2017 4:57	0.15			
SR4	3/6/2017 5:17	0.16				SR12	3/6/2017 5:17	0.17			
SR4	3/6/2017 5:37	0.16				SR12	3/6/2017 5:37	0.19			
SR4	3/6/2017 5:57	0.17				SR12	3/6/2017 5:57	0.15			
SR4						SR12					
SR4	3/6/2017 6:37	0.13				SR12	3/6/2017 6:37	0.19			
SR4	3/6/2017 6:57	0.14				SR12	3/6/2017 6:57	0.16			
SR4	3/6/2017 7:17	0.14				SR12	3/6/2017 7:17	0.15			
SR4	3/6/2017 7:37	0.13				SR12	3/6/2017 7:37	0.15			
SR4	3/6/2017 7:57	0.16				SR12	3/6/2017 7:57	0.18			
SR4	3/6/2017 8:17	0.15				SR12	3/6/2017 8:17	0.19			
SR4	3/6/2017 8:37	0.17				SR12	3/6/2017 8:37	0.18			
SR4	3/6/2017 8:57	0.15				SR12	3/6/2017 8:57	0.15			
SR4	3/6/2017 9:17	0.13				SR12	3/6/2017 9:17	0.15			
SR4	3/6/2017 9:37	0.15				SR12					
SR4	3/6/2017 9:57	0.15				SR12					
SR4	3/6/2017 10:17	0.15				SR12					
SR4	3/6/2017 10:37	0.14				SR12					
SR4	3/6/2017 10:57	0.14				SR12	3/6/2017 10:57	0.16			
SR4	3/6/2017 11:17	0.15				SR12	3/6/2017 11:17	0.16			
SR4	3/6/2017 11:37	0.16				SR12	3/6/2017 11:37	0.18			
SR4	3/6/2017 11:57	0.16				SR12	3/6/2017 11:57	0.17			
SR4						SR12	3/6/2017 12:17	0.20			
SR4						SR12	3/6/2017 12:37	0.17			
SR4						SR12	3/6/2017 12:57	0.19			
SR4						SR12	3/6/2017 13:17	0.19			
SR4	3/6/2017 13:37	0.15				SR12	3/6/2017 13:37	0.19			
SR4	3/6/2017 13:57	0.15				SR12	3/6/2017 13:57	0.20			
SR4	3/6/2017 14:17	0.16				SR12	3/6/2017 14:17	0.20			
SR4	3/6/2017 14:37	0.17				SR12	3/6/2017 14:37	0.16			
SR4	3/6/2017 14:57	0.15				SR12	3/6/2017 14:57	0.18			
SR4	3/6/2017 15:17	0.17				SR12	3/6/2017 15:17	0.19			
SR4	3/6/2017 15:37	0.13				SR12	3/6/2017 15:37	0.16			
SR4	3/6/2017 15:57	0.14				SR12	3/6/2017 15:57	0.17			
SR4	3/6/2017 16:17	0.16				SR12	3/6/2017 16:17	0.20			
SR4	3/6/2017 16:37	0.13				SR12	3/6/2017 16:37	0.20			
SR4	3/6/2017 16:57	0.14				SR12	3/6/2017 16:57	0.20			
SR4	3/6/2017 17:17	0.15				SR12	3/6/2017 17:17	0.20			
SR4	3/6/2017 17:37	0.17				SR12	3/6/2017 17:37	0.20			
SR4	3/6/2017 17:57	0.14				SR12	3/6/2017 17:57	0.18			
SR4	3/6/2017 18:17	0.13				SR12	3/6/2017 18:17	0.18			
SR4	3/6/2017 18:37	0.13				SR12	3/6/2017 18:37	0.20			
SR4	3/6/2017 18:57	0.15				SR12	3/6/2017 18:57	0.18			
SR4	3/6/2017 19:17	0.17				SR12	3/6/2017 19:17	0.20			
SR4	3/6/2017 19:37	0.16				SR12	3/6/2017 19:37	0.19			
SR4	3/6/2017 19:57	0.17				SR12	3/6/2017 19:57	0.19			
SR4	3/6/2017 20:17	0.15				SR12	3/6/2017 20:17	0.19			
SR4	3/6/2017 20:37	0.17				SR12	3/6/2017 20:37	0.20			
SR4	3/6/2017 20:57	0.17				SR12	3/6/2017 20:57	0.16			
SR4	3/6/2017 21:17	0.13				SR12	3/6/2017 21:17	0.19			
SR4	3/6/2017 21:37	0.16				SR12	3/6/2017 21:37	0.17			
SR4	3/6/2017 21:57	0.16				SR12	3/6/2017 21:57	0.18			
SR4	3/6/2017 22:17	0.14				SR12	3/6/2017 22:17	0.19			
SR4	3/6/2017 22:37	0.14				SR12	3/6/2017 22:37	0.18			
SR4	3/6/2017 22:57	0.17				SR12	3/6/2017 22:57	0.19			
SR4	3/6/2017 23:17	0.17				SR12	3/6/2017 23:17	0.19			
SR4	3/6/2017 23:37	0.17				SR12	3/6/2017 23:37	0.18			
SR4	3/6/2017 23:57	0.17				SR12	3/6/2017 23:57	0.19			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH<sub>3</sub>-N monitor was carried out during 5:57-6:37 at SR4 and SR12.

SR4 monitoring station was under maintenance during 12:06-13:16.

SR12 monitoring station was under maintenance during 9:26-10:41.

SR13 monitoring station was under maintenance during 15:45-16:05.









24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	3/7/2017 0:17	0.13				SR12	3/7/2017 0:17	0.17			
SR4	3/7/2017 0:37	0.14				SR12	3/7/2017 0:37	0.20			
SR4	3/7/2017 0:57	0.15				SR12	3/7/2017 0:57	0.16			
SR4	3/7/2017 1:17	0.15				SR12	3/7/2017 1:17	0.17			
SR4	3/7/2017 1:37	0.14				SR12	3/7/2017 1:37	0.20			
SR4	3/7/2017 1:57	0.13				SR12	3/7/2017 1:57	0.17			
SR4	3/7/2017 2:17	0.17				SR12	3/7/2017 2:17	0.17			
SR4	3/7/2017 2:37	0.15				SR12	3/7/2017 2:37	0.17			
SR4	3/7/2017 2:57	0.13				SR12	3/7/2017 2:57	0.18			
SR4	3/7/2017 3:17	0.17				SR12	3/7/2017 3:17	0.16			
SR4	3/7/2017 3:37	0.16				SR12	3/7/2017 3:37	0.16			
SR4	3/7/2017 3:57	0.13				SR12	3/7/2017 3:57	0.18			
SR4	3/7/2017 4:17	0.13				SR12	3/7/2017 4:17	0.18			
SR4	3/7/2017 4:37	0.13				SR12	3/7/2017 4:37	0.17			
SR4	3/7/2017 4:57	0.14				SR12	3/7/2017 4:57	0.19			
SR4	3/7/2017 5:17	0.17				SR12	3/7/2017 5:17	0.19			
SR4	3/7/2017 5:37	0.14				SR12	3/7/2017 5:37	0.18			
SR4	3/7/2017 5:57	0.16				SR12	3/7/2017 5:57	0.17			
SR4						SR12					
SR4	3/7/2017 6:37	0.15				SR12	3/7/2017 6:37	0.18			
SR4	3/7/2017 6:57	0.17				SR12	3/7/2017 6:57	0.18			
SR4	3/7/2017 7:17	0.13				SR12	3/7/2017 7:17	0.20			
SR4	3/7/2017 7:37	0.14				SR12	3/7/2017 7:37	0.17			
SR4	3/7/2017 7:57	0.14				SR12	3/7/2017 7:57	0.22			
SR4	3/7/2017 8:17	0.13				SR12	3/7/2017 8:17	0.18			
SR4	3/7/2017 8:37	0.16				SR12	3/7/2017 8:37	0.21			
SR4	3/7/2017 8:57	0.14				SR12	3/7/2017 8:57	0.22			
SR4	3/7/2017 9:17	0.15				SR12	3/7/2017 9:17	0.22			
SR4	3/7/2017 9:37	0.14				SR12	3/7/2017 9:37	0.18			
SR4	3/7/2017 9:57	0.14				SR12	3/7/2017 9:57	0.17			
SR4	3/7/2017 10:17	0.14				SR12	3/7/2017 10:17	0.20			
SR4	3/7/2017 10:37	0.15				SR12	3/7/2017 10:37	0.22			
SR4	3/7/2017 10:57	0.14				SR12	3/7/2017 10:57	0.21			
SR4	3/7/2017 11:17	0.14				SR12	3/7/2017 11:17	0.22			
SR4	3/7/2017 11:37	0.13				SR12	3/7/2017 11:37	0.21			
SR4	3/7/2017 11:57	0.14				SR12	3/7/2017 11:57	0.19			
SR4	3/7/2017 12:17	0.16				SR12	3/7/2017 12:17	0.20			
SR4	3/7/2017 12:37	0.14				SR12	3/7/2017 12:37	0.22			
SR4	3/7/2017 12:57	0.17				SR12	3/7/2017 12:57	0.17			
SR4	3/7/2017 13:17	0.14				SR12	3/7/2017 13:17	0.21			
SR4	3/7/2017 13:37	0.17				SR12	3/7/2017 13:37	0.17			
SR4	3/7/2017 13:57	0.14				SR12	3/7/2017 13:57	0.21			
SR4	3/7/2017 14:17	0.15				SR12	3/7/2017 14:17	0.18			
SR4	3/7/2017 14:37	0.17				SR12	3/7/2017 14:37	0.17			
SR4	3/7/2017 14:57	0.16				SR12	3/7/2017 14:57	0.18			
SR4	3/7/2017 15:17	0.16				SR12	3/7/2017 15:17	0.22			
SR4	3/7/2017 15:37	0.16				SR12	3/7/2017 15:37	0.20			
SR4	3/7/2017 15:57	0.16				SR12	3/7/2017 15:57	0.21			
SR4	3/7/2017 16:17	0.13				SR12	3/7/2017 16:17	0.22			
SR4	3/7/2017 16:37	0.14				SR12	3/7/2017 16:37	0.21			
SR4	3/7/2017 16:57	0.13				SR12	3/7/2017 16:57	0.17			
SR4	3/7/2017 17:17	0.15				SR12	3/7/2017 17:17	0.21			
SR4	3/7/2017 17:37	0.15				SR12	3/7/2017 17:37	0.17			
SR4	3/7/2017 17:57	0.13				SR12	3/7/2017 17:57	0.18			
SR4	3/7/2017 18:17	0.17				SR12	3/7/2017 18:17	0.20			
SR4	3/7/2017 18:37	0.15				SR12	3/7/2017 18:37	0.17			
SR4	3/7/2017 18:57	0.16				SR12	3/7/2017 18:57	0.22			
SR4	3/7/2017 19:17	0.15				SR12	3/7/2017 19:17	0.22			
SR4	3/7/2017 19:37	0.15				SR12	3/7/2017 19:37	0.18			
SR4	3/7/2017 19:57	0.13				SR12	3/7/2017 19:57	0.18			
SR4	3/7/2017 20:17	0.14				SR12	3/7/2017 20:17	0.22			
SR4	3/7/2017 20:37	0.17				SR12	3/7/2017 20:37	0.20			
SR4	3/7/2017 20:57	0.17				SR12	3/7/2017 20:57	0.20			
SR4	3/7/2017 21:17	0.16				SR12	3/7/2017 21:17	0.20			
SR4	3/7/2017 21:37	0.13				SR12	3/7/2017 21:37	0.22			
SR4	3/7/2017 21:57	0.17				SR12	3/7/2017 21:57	0.18			
SR4	3/7/2017 22:17	0.13				SR12	3/7/2017 22:17	0.19			
SR4	3/7/2017 22:37	0.14				SR12	3/7/2017 22:37	0.21			
SR4	3/7/2017 22:57	0.14				SR12	3/7/2017 22:57	0.22			
SR4	3/7/2017 23:17	0.16				SR12	3/7/2017 23:17	0.18			
SR4	3/7/2017 23:37	0.15				SR12	3/7/2017 23:37	0.20			
SR4	3/7/2017 23:57	0.14				SR12	3/7/2017 23:57	0.18			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12.  
SR5 monitoring station was under maintenance during 10:05-10:25.











24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	3/8/2017 0:17	0.13				SR12	3/8/2017 0:17	0.20			
SR4	3/8/2017 0:37	0.13				SR12	3/8/2017 0:37	0.20			
SR4	3/8/2017 0:57	0.13				SR12	3/8/2017 0:57	0.19			
SR4	3/8/2017 1:17	0.17				SR12	3/8/2017 1:17	0.20			
SR4	3/8/2017 1:37	0.15				SR12	3/8/2017 1:37	0.17			
SR4	3/8/2017 1:57	0.13				SR12	3/8/2017 1:57	0.19			
SR4	3/8/2017 2:17	0.17				SR12	3/8/2017 2:17	0.18			
SR4	3/8/2017 2:37	0.14				SR12	3/8/2017 2:37	0.16			
SR4	3/8/2017 2:57	0.17				SR12	3/8/2017 2:57	0.16			
SR4	3/8/2017 3:17	0.13				SR12	3/8/2017 3:17	0.19			
SR4	3/8/2017 3:37	0.14				SR12	3/8/2017 3:37	0.16			
SR4	3/8/2017 3:57	0.13				SR12	3/8/2017 3:57	0.16			
SR4	3/8/2017 4:17	0.13				SR12	3/8/2017 4:17	0.19			
SR4	3/8/2017 4:37	0.16				SR12	3/8/2017 4:37	0.18			
SR4	3/8/2017 4:57	0.14				SR12	3/8/2017 4:57	0.16			
SR4	3/8/2017 5:17	0.17				SR12	3/8/2017 5:17	0.20			
SR4	3/8/2017 5:37	0.17				SR12	3/8/2017 5:37	0.17			
SR4	3/8/2017 5:57	0.15				SR12	3/8/2017 5:57	0.18			
SR4						SR12					
SR4	3/8/2017 6:37	0.17				SR12	3/8/2017 6:37	0.19			
SR4	3/8/2017 6:57	0.13				SR12	3/8/2017 6:57	0.17			
SR4	3/8/2017 7:17	0.15				SR12	3/8/2017 7:17	0.19			
SR4	3/8/2017 7:37	0.15				SR12	3/8/2017 7:37	0.18			
SR4	3/8/2017 7:57	0.13				SR12	3/8/2017 7:57	0.16			
SR4	3/8/2017 8:17	0.15				SR12	3/8/2017 8:17	0.20			
SR4	3/8/2017 8:37	0.15				SR12	3/8/2017 8:37	0.16			
SR4	3/8/2017 8:57	0.15				SR12	3/8/2017 8:57	0.18			
SR4	3/8/2017 9:17	0.14				SR12	3/8/2017 9:17	0.19			
SR4	3/8/2017 9:37	0.13				SR12	3/8/2017 9:37	0.19			
SR4	3/8/2017 9:57	0.17				SR12	3/8/2017 9:57	0.18			
SR4	3/8/2017 10:17	0.16				SR12	3/8/2017 10:17	0.16			
SR4	3/8/2017 10:37	0.16				SR12	3/8/2017 10:37	0.19			
SR4	3/8/2017 10:57	0.14				SR12	3/8/2017 10:57	0.18			
SR4	3/8/2017 11:17	0.16				SR12	3/8/2017 11:17	0.16			
SR4	3/8/2017 11:37	0.13				SR12	3/8/2017 11:37	0.19			
SR4	3/8/2017 11:57	0.13				SR12	3/8/2017 11:57	0.20			
SR4	3/8/2017 12:17	0.16				SR12	3/8/2017 12:17	0.19			
SR4	3/8/2017 12:37	0.14				SR12	3/8/2017 12:37	0.17			
SR4	3/8/2017 12:57	0.17				SR12	3/8/2017 12:57	0.16			
SR4	3/8/2017 13:17	0.15				SR12	3/8/2017 13:17	0.17			
SR4	3/8/2017 13:37	0.15				SR12	3/8/2017 13:37	0.16			
SR4	3/8/2017 13:57	0.14				SR12	3/8/2017 13:57	0.19			
SR4	3/8/2017 14:17	0.13				SR12	3/8/2017 14:17	0.19			
SR4	3/8/2017 14:37	0.15				SR12	3/8/2017 14:37	0.17			
SR4	3/8/2017 14:57	0.14				SR12	3/8/2017 14:57	0.20			
SR4	3/8/2017 15:17	0.13				SR12	3/8/2017 15:17	0.17			
SR4	3/8/2017 15:37	0.16				SR12	3/8/2017 15:37	0.20			
SR4	3/8/2017 15:57	0.13				SR12	3/8/2017 15:57	0.19			
SR4	3/8/2017 16:17	0.15				SR12	3/8/2017 16:17	0.17			
SR4	3/8/2017 16:37	0.18				SR12	3/8/2017 16:37	0.17			
SR4	3/8/2017 16:57	0.18				SR12	3/8/2017 16:57	0.16			
SR4	3/8/2017 17:17	0.18				SR12	3/8/2017 17:17	0.17			
SR4	3/8/2017 17:37	0.16				SR12	3/8/2017 17:37	0.19			
SR4	3/8/2017 17:57	0.16				SR12	3/8/2017 17:57	0.16			
SR4	3/8/2017 18:17	0.15				SR12	3/8/2017 18:17	0.15			
SR4	3/8/2017 18:37	0.17				SR12	3/8/2017 18:37	0.16			
SR4	3/8/2017 18:57	0.14				SR12	3/8/2017 18:57	0.16			
SR4	3/8/2017 19:17	0.16				SR12	3/8/2017 19:17	0.17			
SR4	3/8/2017 19:37	0.17				SR12	3/8/2017 19:37	0.16			
SR4	3/8/2017 19:57	0.15				SR12	3/8/2017 19:57	0.15			
SR4	3/8/2017 20:17	0.18				SR12	3/8/2017 20:17	0.19			
SR4	3/8/2017 20:37	0.18				SR12	3/8/2017 20:37	0.16			
SR4	3/8/2017 20:57	0.16				SR12	3/8/2017 20:57	0.17			
SR4	3/8/2017 21:17	0.17				SR12	3/8/2017 21:17	0.15			
SR4	3/8/2017 21:37	0.14				SR12	3/8/2017 21:37	0.17			
SR4	3/8/2017 21:57	0.18				SR12	3/8/2017 21:57	0.16			
SR4	3/8/2017 22:17	0.16				SR12	3/8/2017 22:17	0.15			
SR4	3/8/2017 22:37	0.15				SR12	3/8/2017 22:37	0.18			
SR4	3/8/2017 22:57	0.17				SR12	3/8/2017 22:57	0.17			
SR4	3/8/2017 23:17	0.18				SR12	3/8/2017 23:17	0.19			
SR4	3/8/2017 23:37	0.17				SR12	3/8/2017 23:37	0.19			
SR4	3/8/2017 23:57	0.17				SR12	3/8/2017 23:57	0.19			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12. SR13 monitoring station was under maintenance during 10:50-11:10.











24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	3/9/2017 0:17	0.15				SR12	3/9/2017 0:17	0.19			
SR4	3/9/2017 0:37	0.14				SR12	3/9/2017 0:37	0.19			
SR4	3/9/2017 0:57	0.17				SR12	3/9/2017 0:57	0.18			
SR4	3/9/2017 1:17	0.14				SR12	3/9/2017 1:17	0.19			
SR4	3/9/2017 1:37	0.14				SR12	3/9/2017 1:37	0.16			
SR4	3/9/2017 1:57	0.18				SR12	3/9/2017 1:57	0.17			
SR4	3/9/2017 2:17	0.15				SR12	3/9/2017 2:17	0.17			
SR4	3/9/2017 2:37	0.16				SR12	3/9/2017 2:37	0.16			
SR4	3/9/2017 2:57	0.18				SR12	3/9/2017 2:57	0.16			
SR4	3/9/2017 3:17	0.15				SR12	3/9/2017 3:17	0.19			
SR4	3/9/2017 3:37	0.15				SR12	3/9/2017 3:37	0.19			
SR4	3/9/2017 3:57	0.17				SR12	3/9/2017 3:57	0.17			
SR4	3/9/2017 4:17	0.18				SR12	3/9/2017 4:17	0.16			
SR4	3/9/2017 4:37	0.17				SR12	3/9/2017 4:37	0.19			
SR4	3/9/2017 4:57	0.17				SR12	3/9/2017 4:57	0.17			
SR4	3/9/2017 5:17	0.17				SR12	3/9/2017 5:17	0.16			
SR4	3/9/2017 5:37	0.16				SR12	3/9/2017 5:37	0.15			
SR4	3/9/2017 5:57	0.16				SR12	3/9/2017 5:57	0.17			
SR4						SR12					
SR4	3/9/2017 6:37	0.15				SR12	3/9/2017 6:37	0.18			
SR4	3/9/2017 6:57	0.14				SR12	3/9/2017 6:57	0.16			
SR4	3/9/2017 7:17	0.14				SR12	3/9/2017 7:17	0.18			
SR4	3/9/2017 7:37	0.14				SR12	3/9/2017 7:37	0.16			
SR4	3/9/2017 7:57	0.16				SR12	3/9/2017 7:57	0.19			
SR4	3/9/2017 8:17	0.17				SR12	3/9/2017 8:17	0.19			
SR4	3/9/2017 8:37	0.15				SR12	3/9/2017 8:37	0.18			
SR4	3/9/2017 8:57	0.15				SR12	3/9/2017 8:57	0.17			
SR4	3/9/2017 9:17	0.15				SR12	3/9/2017 9:17	0.16			
SR4	3/9/2017 9:37	0.14				SR12	3/9/2017 9:37	0.15			
SR4	3/9/2017 9:57	0.18				SR12	3/9/2017 9:57	0.18			
SR4	3/9/2017 10:17	0.17				SR12	3/9/2017 10:17	0.19			
SR4	3/9/2017 10:37	0.18				SR12	3/9/2017 10:37	0.16			
SR4	3/9/2017 10:57	0.18				SR12	3/9/2017 10:57	0.18			
SR4	3/9/2017 11:17	0.16				SR12	3/9/2017 11:17	0.17			
SR4	3/9/2017 11:37	0.17				SR12	3/9/2017 11:37	0.15			
SR4	3/9/2017 11:57	0.17				SR12	3/9/2017 11:57	0.18			
SR4	3/9/2017 12:17	0.14				SR12	3/9/2017 12:17	0.16			
SR4	3/9/2017 12:37	0.18				SR12	3/9/2017 12:37	0.14			
SR4	3/9/2017 12:57	0.15				SR12	3/9/2017 12:57	0.14			
SR4	3/9/2017 13:17	0.14				SR12	3/9/2017 13:17	0.15			
SR4	3/9/2017 13:37	0.14				SR12	3/9/2017 13:37	0.15			
SR4	3/9/2017 13:57	0.15				SR12	3/9/2017 13:57	0.15			
SR4	3/9/2017 14:17	0.14				SR12	3/9/2017 14:17	0.15			
SR4	3/9/2017 14:37	0.14				SR12	3/9/2017 14:37	0.14			
SR4	3/9/2017 14:57	0.17				SR12	3/9/2017 14:57	0.15			
SR4	3/9/2017 15:17	0.16				SR12	3/9/2017 15:17	0.17			
SR4	3/9/2017 15:37	0.16				SR12	3/9/2017 15:37	0.18			
SR4	3/9/2017 15:57	0.17				SR12	3/9/2017 15:57	0.17			
SR4	3/9/2017 16:17	0.17				SR12	3/9/2017 16:17	0.17			
SR4	3/9/2017 16:37	0.18				SR12	3/9/2017 16:37	0.15			
SR4	3/9/2017 16:57	0.15				SR12	3/9/2017 16:57	0.16			
SR4	3/9/2017 17:17	0.14				SR12	3/9/2017 17:17	0.16			
SR4	3/9/2017 17:37	0.15				SR12	3/9/2017 17:37	0.15			
SR4	3/9/2017 17:57	0.15				SR12	3/9/2017 17:57	0.15			
SR4	3/9/2017 18:17	0.18				SR12	3/9/2017 18:17	0.18			
SR4	3/9/2017 18:37	0.17				SR12	3/9/2017 18:37	0.14			
SR4	3/9/2017 18:57	0.17				SR12	3/9/2017 18:57	0.16			
SR4	3/9/2017 19:17	0.15				SR12	3/9/2017 19:17	0.15			
SR4	3/9/2017 19:37	0.17				SR12	3/9/2017 19:37	0.18			
SR4	3/9/2017 19:57	0.16				SR12	3/9/2017 19:57	0.18			
SR4	3/9/2017 20:17	0.16				SR12	3/9/2017 20:17	0.14			
SR4	3/9/2017 20:37	0.14				SR12	3/9/2017 20:37	0.18			
SR4	3/9/2017 20:57	0.18				SR12	3/9/2017 20:57	0.18			
SR4	3/9/2017 21:17	0.18				SR12	3/9/2017 21:17	0.18			
SR4	3/9/2017 21:37	0.15				SR12	3/9/2017 21:37	0.15			
SR4	3/9/2017 21:57	0.17				SR12	3/9/2017 21:57	0.14			
SR4	3/9/2017 22:17	0.18				SR12	3/9/2017 22:17	0.17			
SR4	3/9/2017 22:37	0.15				SR12	3/9/2017 22:37	0.17			
SR4	3/9/2017 22:57	0.15				SR12	3/9/2017 22:57	0.15			
SR4	3/9/2017 23:17	0.18				SR12	3/9/2017 23:17	0.15			
SR4	3/9/2017 23:37	0.17				SR12	3/9/2017 23:37	0.17			
SR4	3/9/2017 23:57	0.18				SR12	3/9/2017 23:57	0.14			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12.  
SR5 monitoring station was under maintenance during 12:40-13:00.









24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	3/10/2017 0:17	0.14				SR12	3/10/2017 0:17	0.16			
SR4	3/10/2017 0:37	0.15				SR12	3/10/2017 0:37	0.16			
SR4	3/10/2017 0:57	0.15				SR12	3/10/2017 0:57	0.15			
SR4	3/10/2017 1:17	0.17				SR12	3/10/2017 1:17	0.16			
SR4	3/10/2017 1:37	0.15				SR12	3/10/2017 1:37	0.15			
SR4	3/10/2017 1:57	0.16				SR12	3/10/2017 1:57	0.18			
SR4	3/10/2017 2:17	0.14				SR12	3/10/2017 2:17	0.15			
SR4	3/10/2017 2:37	0.14				SR12	3/10/2017 2:37	0.16			
SR4	3/10/2017 2:57	0.14				SR12	3/10/2017 2:57	0.17			
SR4	3/10/2017 3:17	0.16				SR12	3/10/2017 3:17	0.14			
SR4	3/10/2017 3:37	0.14				SR12	3/10/2017 3:37	0.14			
SR4	3/10/2017 3:57	0.15				SR12	3/10/2017 3:57	0.17			
SR4	3/10/2017 4:17	0.18				SR12	3/10/2017 4:17	0.15			
SR4	3/10/2017 4:37	0.16				SR12	3/10/2017 4:37	0.18			
SR4	3/10/2017 4:57	0.17				SR12	3/10/2017 4:57	0.18			
SR4	3/10/2017 5:17	0.17				SR12	3/10/2017 5:17	0.19			
SR4	3/10/2017 5:37	0.16				SR12	3/10/2017 5:37	0.20			
SR4	3/10/2017 5:57	0.15				SR12	3/10/2017 5:57	0.18			
SR4						SR12					
SR4	3/10/2017 6:37	0.16				SR12	3/10/2017 6:37	0.24			
SR4	3/10/2017 6:57	0.15				SR12	3/10/2017 6:57	0.20			
SR4	3/10/2017 7:17	0.18				SR12	3/10/2017 7:17	0.24			
SR4	3/10/2017 7:37	0.17				SR12	3/10/2017 7:37	0.19			
SR4	3/10/2017 7:57	0.16				SR12	3/10/2017 7:57	0.21			
SR4	3/10/2017 8:17	0.15				SR12	3/10/2017 8:17	0.20			
SR4	3/10/2017 8:37	0.17				SR12	3/10/2017 8:37	0.22			
SR4	3/10/2017 8:57	0.15				SR12	3/10/2017 8:57	0.20			
SR4	3/10/2017 9:17	0.17				SR12	3/10/2017 9:17	0.22			
SR4	3/10/2017 9:37	0.15				SR12	3/10/2017 9:37	0.18			
SR4	3/10/2017 9:57	0.19				SR12					
SR4	3/10/2017 10:17	0.16				SR12					
SR4	3/10/2017 10:37	0.18				SR12					
SR4	3/10/2017 10:57	0.17				SR12					
SR4	3/10/2017 11:17	0.16				SR12	3/10/2017 11:17	0.20			
SR4	3/10/2017 11:37	0.19				SR12	3/10/2017 11:37	0.18			
SR4	3/10/2017 11:57	0.17				SR12	3/10/2017 11:57	0.22			
SR4						SR12	3/10/2017 12:17	0.23			
SR4						SR12	3/10/2017 12:37	0.18			
SR4						SR12	3/10/2017 12:57	0.18			
SR4						SR12	3/10/2017 13:17	0.24			
SR4						SR12	3/10/2017 13:37	0.20			
SR4	3/10/2017 13:57	0.15				SR12	3/10/2017 13:57	0.18			
SR4	3/10/2017 14:17	0.19				SR12	3/10/2017 14:17	0.21			
SR4	3/10/2017 14:37	0.19				SR12	3/10/2017 14:37	0.19			
SR4	3/10/2017 14:57	0.16				SR12	3/10/2017 14:57	0.22			
SR4	3/10/2017 15:17	0.15				SR12	3/10/2017 15:17	0.21			
SR4	3/10/2017 15:37	0.18				SR12	3/10/2017 15:37	0.20			
SR4	3/10/2017 15:57	0.17				SR12	3/10/2017 15:57	0.24			
SR4	3/10/2017 16:17	0.19				SR12	3/10/2017 16:17	0.18			
SR4	3/10/2017 16:37	0.17				SR12	3/10/2017 16:37	0.21			
SR4	3/10/2017 16:57	0.16				SR12	3/10/2017 16:57	0.24			
SR4	3/10/2017 17:17	0.17				SR12	3/10/2017 17:17	0.20			
SR4	3/10/2017 17:37	0.17				SR12	3/10/2017 17:37	0.18			
SR4	3/10/2017 17:57	0.18				SR12	3/10/2017 17:57	0.18			
SR4	3/10/2017 18:17	0.17				SR12	3/10/2017 18:17	0.18			
SR4	3/10/2017 18:37	0.18				SR12	3/10/2017 18:37	0.24			
SR4	3/10/2017 18:57	0.19				SR12	3/10/2017 18:57	0.23			
SR4	3/10/2017 19:17	0.19				SR12	3/10/2017 19:17	0.23			
SR4	3/10/2017 19:37	0.16				SR12	3/10/2017 19:37	0.19			
SR4	3/10/2017 19:57	0.18				SR12	3/10/2017 19:57	0.18			
SR4	3/10/2017 20:17	0.18				SR12	3/10/2017 20:17	0.20			
SR4	3/10/2017 20:37	0.17				SR12	3/10/2017 20:37	0.22			
SR4	3/10/2017 20:57	0.15				SR12	3/10/2017 20:57	0.24			
SR4	3/10/2017 21:17	0.17				SR12	3/10/2017 21:17	0.24			
SR4	3/10/2017 21:37	0.15				SR12	3/10/2017 21:37	0.21			
SR4	3/10/2017 21:57	0.18				SR12	3/10/2017 21:57	0.21			
SR4	3/10/2017 22:17	0.16				SR12	3/10/2017 22:17	0.23			
SR4	3/10/2017 22:37	0.17				SR12	3/10/2017 22:37	0.19			
SR4	3/10/2017 22:57	0.16				SR12	3/10/2017 22:57	0.20			
SR4	3/10/2017 23:17	0.16				SR12	3/10/2017 23:17	0.25			
SR4	3/10/2017 23:37	0.15				SR12	3/10/2017 23:37	0.20			
SR4	3/10/2017 23:57	0.15				SR12	3/10/2017 23:57	0.21			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12.

SR4 monitoring station was under maintenance during 12:16-13:21.

SR12 monitoring station was under maintenance during 9:41-11:01.











24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	3/11/2017 0:17	0.17				SR12	3/11/2017 0:17	0.20			
SR4	3/11/2017 0:37	0.18				SR12	3/11/2017 0:37	0.19			
SR4	3/11/2017 0:57	0.17				SR12	3/11/2017 0:57	0.19			
SR4	3/11/2017 1:17	0.16				SR12	3/11/2017 1:17	0.21			
SR4	3/11/2017 1:37	0.19				SR12	3/11/2017 1:37	0.23			
SR4	3/11/2017 1:57	0.15				SR12	3/11/2017 1:57	0.23			
SR4	3/11/2017 2:17	0.17				SR12	3/11/2017 2:17	0.21			
SR4	3/11/2017 2:37	0.19				SR12	3/11/2017 2:37	0.20			
SR4	3/11/2017 2:57	0.15				SR12	3/11/2017 2:57	0.22			
SR4	3/11/2017 3:17	0.15				SR12	3/11/2017 3:17	0.21			
SR4	3/11/2017 3:37	0.19				SR12	3/11/2017 3:37	0.22			
SR4	3/11/2017 3:57	0.18				SR12	3/11/2017 3:57	0.19			
SR4	3/11/2017 4:17	0.19				SR12	3/11/2017 4:17	0.20			
SR4	3/11/2017 4:37	0.17				SR12	3/11/2017 4:37	0.20			
SR4	3/11/2017 4:57	0.15				SR12	3/11/2017 4:57	0.26			
SR4	3/11/2017 5:17	0.17				SR12	3/11/2017 5:17	0.26			
SR4	3/11/2017 5:37	0.16				SR12	3/11/2017 5:37	0.23			
SR4	3/11/2017 5:57	0.18				SR12	3/11/2017 5:57	0.19			
SR4						SR12					
SR4	3/11/2017 6:37	0.16				SR12	3/11/2017 6:37	0.24			
SR4	3/11/2017 6:57	0.17				SR12	3/11/2017 6:57	0.20			
SR4	3/11/2017 7:17	0.19				SR12	3/11/2017 7:17	0.25			
SR4	3/11/2017 7:37	0.17				SR12	3/11/2017 7:37	0.21			
SR4	3/11/2017 7:57	0.16				SR12	3/11/2017 7:57	0.21			
SR4	3/11/2017 8:17	0.17				SR12	3/11/2017 8:17	0.19			
SR4	3/11/2017 8:37	0.19				SR12	3/11/2017 8:37	0.21			
SR4	3/11/2017 8:57	0.15				SR12	3/11/2017 8:57	0.23			
SR4	3/11/2017 9:17	0.15				SR12	3/11/2017 9:17	0.22			
SR4	3/11/2017 9:37	0.19				SR12	3/11/2017 9:37	0.24			
SR4	3/11/2017 9:57	0.18				SR12	3/11/2017 9:57	0.19			
SR4	3/11/2017 10:17	0.19				SR12	3/11/2017 10:17	0.25			
SR4	3/11/2017 10:37	0.15				SR12	3/11/2017 10:37	0.20			
SR4	3/11/2017 10:57	0.15				SR12	3/11/2017 10:57	0.21			
SR4	3/11/2017 11:17	0.19				SR12	3/11/2017 11:17	0.19			
SR4	3/11/2017 11:37	0.16				SR12	3/11/2017 11:37	0.22			
SR4	3/11/2017 11:57	0.17				SR12	3/11/2017 11:57	0.21			
SR4	3/11/2017 12:17	0.16				SR12	3/11/2017 12:17	0.20			
SR4	3/11/2017 12:37	0.16				SR12	3/11/2017 12:37	0.25			
SR4	3/11/2017 12:57	0.16				SR12	3/11/2017 12:57	0.24			
SR4	3/11/2017 13:17	0.19				SR12	3/11/2017 13:17	0.25			
SR4	3/11/2017 13:37	0.15				SR12	3/11/2017 13:37	0.21			
SR4	3/11/2017 13:57	0.18				SR12	3/11/2017 13:57	0.22			
SR4	3/11/2017 14:17	0.17				SR12	3/11/2017 14:17	0.22			
SR4	3/11/2017 14:37	0.17				SR12	3/11/2017 14:37	0.26			
SR4	3/11/2017 14:57	0.19				SR12	3/11/2017 14:57	0.21			
SR4	3/11/2017 15:17	0.20				SR12	3/11/2017 15:17	0.24			
SR4	3/11/2017 15:37	0.16				SR12	3/11/2017 15:37	0.26			
SR4	3/11/2017 15:57	0.16				SR12	3/11/2017 15:57	0.20			
SR4	3/11/2017 16:17	0.20				SR12	3/11/2017 16:17	0.19			
SR4	3/11/2017 16:37	0.19				SR12	3/11/2017 16:37	0.20			
SR4	3/11/2017 16:57	0.17				SR12	3/11/2017 16:57	0.20			
SR4	3/11/2017 17:17	0.18				SR12	3/11/2017 17:17	0.22			
SR4	3/11/2017 17:37	0.19				SR12	3/11/2017 17:37	0.22			
SR4	3/11/2017 17:57	0.16				SR12	3/11/2017 17:57	0.19			
SR4	3/11/2017 18:17	0.20				SR12	3/11/2017 18:17	0.20			
SR4	3/11/2017 18:37	0.19				SR12	3/11/2017 18:37	0.24			
SR4	3/11/2017 18:57	0.20				SR12	3/11/2017 18:57	0.21			
SR4	3/11/2017 19:17	0.17				SR12	3/11/2017 19:17	0.22			
SR4	3/11/2017 19:37	0.18				SR12	3/11/2017 19:37	0.23			
SR4	3/11/2017 19:57	0.16				SR12	3/11/2017 19:57	0.20			
SR4	3/11/2017 20:17	0.19				SR12	3/11/2017 20:17	0.26			
SR4	3/11/2017 20:37	0.19				SR12	3/11/2017 20:37	0.22			
SR4	3/11/2017 20:57	0.17				SR12	3/11/2017 20:57	0.26			
SR4	3/11/2017 21:17	0.17				SR12	3/11/2017 21:17	0.25			
SR4	3/11/2017 21:37	0.20				SR12	3/11/2017 21:37	0.26			
SR4	3/11/2017 21:57	0.16				SR12	3/11/2017 21:57	0.20			
SR4	3/11/2017 22:17	0.18				SR12	3/11/2017 22:17	0.24			
SR4	3/11/2017 22:37	0.19				SR12	3/11/2017 22:37	0.24			
SR4	3/11/2017 22:57	0.20				SR12	3/11/2017 22:57	0.26			
SR4	3/11/2017 23:17	0.20				SR12	3/11/2017 23:17	0.23			
SR4	3/11/2017 23:37	0.17				SR12	3/11/2017 23:37	0.19			
SR4	3/11/2017 23:57	0.18				SR12	3/11/2017 23:57	0.21			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH<sub>3</sub>-N monitor was carried out during 5:57-6:37 at SR4 and SR12.









24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	3/12/2017 0:17	0.16				SR12	3/12/2017 0:17	0.19			
SR4	3/12/2017 0:37	0.19				SR12	3/12/2017 0:37	0.21			
SR4	3/12/2017 0:57	0.18				SR12	3/12/2017 0:57	0.20			
SR4	3/12/2017 1:17	0.18				SR12	3/12/2017 1:17	0.21			
SR4	3/12/2017 1:37	0.19				SR12	3/12/2017 1:37	0.21			
SR4	3/12/2017 1:57	0.17				SR12	3/12/2017 1:57	0.18			
SR4	3/12/2017 2:17	0.16				SR12	3/12/2017 2:17	0.17			
SR4	3/12/2017 2:37	0.18				SR12	3/12/2017 2:37	0.19			
SR4	3/12/2017 2:57	0.18				SR12	3/12/2017 2:57	0.21			
SR4	3/12/2017 3:17	0.18				SR12	3/12/2017 3:17	0.17			
SR4	3/12/2017 3:37	0.19				SR12	3/12/2017 3:37	0.19			
SR4	3/12/2017 3:57	0.19				SR12	3/12/2017 3:57	0.17			
SR4	3/12/2017 4:17	0.18				SR12	3/12/2017 4:17	0.21			
SR4	3/12/2017 4:37	0.19				SR12	3/12/2017 4:37	0.17			
SR4	3/12/2017 4:57	0.19				SR12	3/12/2017 4:57	0.17			
SR4	3/12/2017 5:17	0.18				SR12	3/12/2017 5:17	0.17			
SR4	3/12/2017 5:37	0.15				SR12	3/12/2017 5:37	0.21			
SR4	3/12/2017 5:57	0.15				SR12	3/12/2017 5:57	0.17			
SR4						SR12					
SR4	3/12/2017 6:37	0.19				SR12	3/12/2017 6:37	0.20			
SR4	3/12/2017 6:57	0.19				SR12	3/12/2017 6:57	0.19			
SR4	3/12/2017 7:17	0.18				SR12	3/12/2017 7:17	0.21			
SR4	3/12/2017 7:37	0.15				SR12	3/12/2017 7:37	0.21			
SR4	3/12/2017 7:57	0.17				SR12	3/12/2017 7:57	0.20			
SR4	3/12/2017 8:17	0.16				SR12	3/12/2017 8:17	0.18			
SR4	3/12/2017 8:37	0.17				SR12	3/12/2017 8:37	0.19			
SR4	3/12/2017 8:57	0.15				SR12	3/12/2017 8:57	0.20			
SR4	3/12/2017 9:17	0.17				SR12	3/12/2017 9:17	0.20			
SR4	3/12/2017 9:37	0.18				SR12	3/12/2017 9:37	0.18			
SR4	3/12/2017 9:57	0.17				SR12	3/12/2017 9:57	0.19			
SR4	3/12/2017 10:17	0.17				SR12	3/12/2017 10:17	0.18			
SR4	3/12/2017 10:37	0.17				SR12	3/12/2017 10:37	0.18			
SR4	3/12/2017 10:57	0.16				SR12	3/12/2017 10:57	0.21			
SR4	3/12/2017 11:17	0.19				SR12	3/12/2017 11:17	0.21			
SR4	3/12/2017 11:37	0.17				SR12	3/12/2017 11:37	0.21			
SR4	3/12/2017 11:57	0.19				SR12	3/12/2017 11:57	0.18			
SR4	3/12/2017 12:17	0.17				SR12	3/12/2017 12:17	0.17			
SR4	3/12/2017 12:37	0.19				SR12	3/12/2017 12:37	0.18			
SR4	3/12/2017 12:57	0.17				SR12	3/12/2017 12:57	0.19			
SR4	3/12/2017 13:17	0.18				SR12	3/12/2017 13:17	0.21			
SR4	3/12/2017 13:37	0.16				SR12	3/12/2017 13:37	0.19			
SR4	3/12/2017 13:57	0.16				SR12	3/12/2017 13:57	0.18			
SR4	3/12/2017 14:17	0.16				SR12	3/12/2017 14:17	0.18			
SR4	3/12/2017 14:37	0.19				SR12	3/12/2017 14:37	0.18			
SR4	3/12/2017 14:57	0.16				SR12	3/12/2017 14:57	0.18			
SR4	3/12/2017 15:17	0.17				SR12	3/12/2017 15:17	0.19			
SR4	3/12/2017 15:37	0.15				SR12	3/12/2017 15:37	0.17			
SR4	3/12/2017 15:57	0.17				SR12	3/12/2017 15:57	0.21			
SR4	3/12/2017 16:17	0.17				SR12	3/12/2017 16:17	0.21			
SR4	3/12/2017 16:37	0.15				SR12	3/12/2017 16:37	0.18			
SR4	3/12/2017 16:57	0.17				SR12	3/12/2017 16:57	0.19			
SR4	3/12/2017 17:17	0.16				SR12	3/12/2017 17:17	0.18			
SR4	3/12/2017 17:37	0.16				SR12	3/12/2017 17:37	0.18			
SR4	3/12/2017 17:57	0.20				SR12	3/12/2017 17:57	0.16			
SR4	3/12/2017 18:17	0.17				SR12	3/12/2017 18:17	0.18			
SR4	3/12/2017 18:37	0.20				SR12	3/12/2017 18:37	0.17			
SR4	3/12/2017 18:57	0.16				SR12	3/12/2017 18:57	0.18			
SR4	3/12/2017 19:17	0.18				SR12	3/12/2017 19:17	0.16			
SR4	3/12/2017 19:37	0.17				SR12	3/12/2017 19:37	0.18			
SR4	3/12/2017 19:57	0.16				SR12	3/12/2017 19:57	0.20			
SR4	3/12/2017 20:17	0.17				SR12	3/12/2017 20:17	0.17			
SR4	3/12/2017 20:37	0.18				SR12	3/12/2017 20:37	0.16			
SR4	3/12/2017 20:57	0.18				SR12	3/12/2017 20:57	0.17			
SR4	3/12/2017 21:17	0.17				SR12	3/12/2017 21:17	0.16			
SR4	3/12/2017 21:37	0.16				SR12	3/12/2017 21:37	0.17			
SR4	3/12/2017 21:57	0.16				SR12	3/12/2017 21:57	0.18			
SR4	3/12/2017 22:17	0.17				SR12	3/12/2017 22:17	0.19			
SR4	3/12/2017 22:37	0.20				SR12	3/12/2017 22:37	0.16			
SR4	3/12/2017 22:57	0.20				SR12	3/12/2017 22:57	0.20			
SR4	3/12/2017 23:17	0.16				SR12	3/12/2017 23:17	0.18			
SR4	3/12/2017 23:37	0.16				SR12	3/12/2017 23:37	0.19			
SR4	3/12/2017 23:57	0.18				SR12	3/12/2017 23:57	0.20			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH<sub>3</sub>-N monitor was carried out during 5:57-6:37 at SR4 and SR12.



24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR4	3/13/2017 0:01	18.45	111.2	7.72	7.0	SR4	3/13/2017 6:01	18.53	113.6	7.89	7.9	SR4	3/13/2017 12:01	18.99	114.3	7.94	9.6	SR4	3/13/2017 18:01	19.12	116.1	8.06	5.1
SR4	3/13/2017 0:06	18.44	111.9	7.77	7.8	SR4	3/13/2017 6:06	18.53	112.9	7.84	8.4	SR4	3/13/2017 12:06	19.00	114.3	7.94	5.4	SR4	3/13/2017 18:06	19.11	115.6	8.03	9.0
SR4	3/13/2017 0:11	18.45	114.8	7.97	9.4	SR4	3/13/2017 6:11	18.53	108.9	7.56	5.8	SR4	3/13/2017 12:11	19.04	108.4	7.53	4.3	SR4	3/13/2017 18:11	19.09	110.0	7.64	6.0
SR4	3/13/2017 0:16	18.47	107.7	7.48	4.5	SR4	3/13/2017 6:16	18.53	115.1	7.99	5.1	SR4	3/13/2017 12:16	19.06	108.9	7.56	9.0	SR4	3/13/2017 18:16	19.08	113.3	7.87	8.7
SR4	3/13/2017 0:21	18.48	115.8	8.04	4.8	SR4	3/13/2017 6:21	18.53	107.4	7.46	9.7	SR4	3/13/2017 12:21	19.11	113.2	7.86	8.8	SR4	3/13/2017 18:21	19.07	111.3	7.73	8.1
SR4	3/13/2017 0:26	18.49	111.0	7.71	8.9	SR4	3/13/2017 6:26	18.53	109.3	7.59	5.2	SR4	3/13/2017 12:26	19.11	113.2	7.86	7.4	SR4	3/13/2017 18:26	19.09	108.3	7.52	7.3
SR4	3/13/2017 0:31	18.49	115.5	8.02	7.6	SR4	3/13/2017 6:31	18.53	108.4	7.53	5.7	SR4	3/13/2017 12:31	19.07	112.3	7.80	7.4	SR4	3/13/2017 18:31	19.04	113.5	7.88	5.3
SR4	3/13/2017 0:36	18.48	114.3	7.94	9.1	SR4	3/13/2017 6:36	18.53	113.6	7.89	8.2	SR4	3/13/2017 12:36	19.09	116.6	8.10	9.2	SR4	3/13/2017 18:36	19.06	110.3	7.66	4.9
SR4	3/13/2017 0:41	18.48	113.3	7.87	6.9	SR4	3/13/2017 6:41	18.54	112.6	7.82	9.3	SR4	3/13/2017 12:41	19.18	109.2	7.58	8.9	SR4	3/13/2017 18:41	19.06	107.6	7.47	4.4
SR4	3/13/2017 0:46	18.48	115.1	7.99	5.0	SR4	3/13/2017 6:46	18.54	108.1	7.51	5.9	SR4	3/13/2017 12:46	19.15	108.1	7.51	9.2	SR4	3/13/2017 18:46	19.06	110.0	7.64	4.8
SR4	3/13/2017 0:51	18.48	115.2	8.00	7.0	SR4	3/13/2017 6:51	18.54	110.4	7.67	10.2	SR4	3/13/2017 12:51	19.11	110.7	7.69	5.0	SR4	3/13/2017 18:51	19.12	110.6	7.68	7.7
SR4	3/13/2017 0:56	18.48	111.0	7.71	5.2	SR4	3/13/2017 6:56	18.54	107.9	7.49	6.0	SR4	3/13/2017 12:56	19.16	115.8	8.04	5.1	SR4	3/13/2017 18:56	19.10	114.9	7.98	6.8
SR4	3/13/2017 1:01	18.48	108.9	7.56	8.1	SR4	3/13/2017 7:01	18.55	110.7	7.69	8.3	SR4	3/13/2017 13:01	19.04	112.9	7.84	8.3	SR4	3/13/2017 19:01	19.08	116.5	8.09	7.7
SR4	3/13/2017 1:06	18.49	110.0	7.64	8.2	SR4	3/13/2017 7:06	18.54	114.8	7.97	9.3	SR4	3/13/2017 13:06	19.02	107.7	7.48	7.1	SR4	3/13/2017 19:06	19.14	108.6	7.54	6.5
SR4	3/13/2017 1:11	18.49	114.8	7.97	9.3	SR4	3/13/2017 7:11	18.54	112.8	7.83	9.4	SR4	3/13/2017 13:11	19.00	109.7	7.62	6.1	SR4	3/13/2017 19:11	19.31	115.1	7.99	6.7
SR4	3/13/2017 1:16	18.48	116.4	8.08	7.6	SR4	3/13/2017 7:16	18.53	112.2	7.79	6.0	SR4	3/13/2017 13:16	18.94	111.7	7.76	7.7	SR4	3/13/2017 19:16	19.46	115.3	8.01	7.9
SR4	3/13/2017 1:21	18.47	114.9	7.98	6.0	SR4	3/13/2017 7:21	18.53	111.0	7.71	4.8	SR4	3/13/2017 13:21	18.93	112.5	7.81	9.2	SR4	3/13/2017 19:21	19.41	112.6	7.82	8.3
SR4	3/13/2017 1:26	18.46	108.7	7.55	9.3	SR4	3/13/2017 7:26	18.54	116.5	8.09	9.2	SR4	3/13/2017 13:26	19.06	109.9	7.63	8.5	SR4	3/13/2017 19:26	19.32	115.1	7.99	5.4
SR4	3/13/2017 1:31	18.47	113.0	7.85	9.5	SR4	3/13/2017 7:31	18.55	108.6	7.54	7.1	SR4	3/13/2017 13:31	18.90	114.3	7.94	4.6	SR4	3/13/2017 19:31	19.25	114.9	7.98	6.3
SR4	3/13/2017 1:36	18.47	112.6	7.82	7.9	SR4	3/13/2017 7:36	18.56	111.3	7.73	5.1	SR4	3/13/2017 13:36	19.10	112.8	7.83	4.5	SR4	3/13/2017 19:36	19.13	108.3	7.52	8.9
SR4	3/13/2017 1:41	18.47	112.5	7.81	5.4	SR4	3/13/2017 7:41	18.57	115.5	8.02	5.7	SR4	3/13/2017 13:41	19.20	112.2	7.79	7.3	SR4	3/13/2017 19:41	19.19	115.6	8.03	12.5
SR4	3/13/2017 1:46	18.49	113.6	7.89	5.0	SR4	3/13/2017 7:46	18.57	113.2	7.86	6.6	SR4	3/13/2017 13:46	19.31	111.9	7.77	7.5	SR4	3/13/2017 19:46	19.05	116.4	8.08	7.5
SR4	3/13/2017 1:51	18.48	113.5	7.88	5.4	SR4	3/13/2017 7:51	18.58	114.9	7.98	4.4	SR4	3/13/2017 13:51	19.27	113.5	7.88	6.0	SR4	3/13/2017 19:51	19.10	115.6	8.03	9.3
SR4	3/13/2017 1:56	18.48	109.7	7.62	6.6	SR4	3/13/2017 7:56	18.59	114.2	7.93	9.0	SR4	3/13/2017 13:56	19.27	113.9	7.91	6.5	SR4	3/13/2017 19:56	19.12	115.8	8.04	6.5
SR4	3/13/2017 2:01	18.47	110.3	7.66	4.6	SR4	3/13/2017 8:01	18.57	108.4	7.53	8.8	SR4	3/13/2017 14:01	19.26	109.0	7.57	7.9	SR4	3/13/2017 20:01	19.08	115.8	8.04	5.8
SR4	3/13/2017 2:06	18.47	116.5	8.09	9.6	SR4	3/13/2017 8:06	18.58	116.6	8.10	5.5	SR4	3/13/2017 14:06	19.18	110.7	7.69	4.8	SR4	3/13/2017 20:06	19.05	109.7	7.62	8.4
SR4	3/13/2017 2:11	18.47	113.5	7.88	8.8	SR4	3/13/2017 8:11	18.57	109.4	7.60	7.5	SR4	3/13/2017 14:11	19.02	107.6	7.47	7.5	SR4	3/13/2017 20:11	19.05	110.6	7.68	5.7
SR4	3/13/2017 2:16	18.48	113.5	7.88	8.9	SR4	3/13/2017 8:16	18.54	114.6	7.96	6.5	SR4	3/13/2017 14:16	19.05	113.3	7.87	6.2	SR4	3/13/2017 20:16	19.06	116.2	8.07	8.5
SR4	3/13/2017 2:21	18.49	108.0	7.50	6.3	SR4	3/13/2017 8:21	18.54	111.2	7.72	8.6	SR4	3/13/2017 14:21	19.06	108.0	7.50	5.5	SR4	3/13/2017 20:21	19.04	115.3	8.01	8.9
SR4	3/13/2017 2:26	18.50	114.3	7.94	8.7	SR4	3/13/2017 8:26	18.54	114.8	7.97	8.4	SR4	3/13/2017 14:26	18.96	115.1	7.99	5.8	SR4	3/13/2017 20:26	19.03	107.7	7.48	4.9
SR4	3/13/2017 2:31	18.51	112.8	7.83	4.5	SR4	3/13/2017 8:31	18.57	115.3	8.01	6.3	SR4	3/13/2017 14:31	18.83	114.5	7.95	9.4	SR4	3/13/2017 20:31	19.03	109.2	7.58	8.1
SR4	3/13/2017 2:36	18.51	116.1	8.06	7.2	SR4	3/13/2017 8:36	18.53	109.2	7.58	6.9	SR4	3/13/2017 14:36	18.82	108.3	7.52	8.5	SR4	3/13/2017 20:36	19.03	111.6	7.75	7.4
SR4	3/13/2017 2:41	18.51	114.5	7.95	7.1	SR4	3/13/2017 8:41	18.52	110.9	7.70	7.7	SR4	3/13/2017 14:41	18.90	109.7	7.62	5.2	SR4	3/13/2017 20:41	19.02	112.8	7.83	8.5
SR4	3/13/2017 2:46	18.51	113.3	7.87	5.5	SR4	3/13/2017 8:46	18.52	111.5	7.74	5.4	SR4	3/13/2017 14:46	18.84	110.4	7.67	5.5	SR4	3/13/2017 20:46	19.00	116.2	8.07	8.7
SR4	3/13/2017 2:51	18.50	108.7	7.55	5.4	SR4	3/13/2017 8:51	18.51	111.3	7.73	8.5	SR4	3/13/2017 14:51	18.99	112.8	7.83	4.4	SR4	3/13/2017 20:51	18.98	114.2	7.93	5.0
SR4	3/13/2017 2:56	18.53	110.0	7.64	5.4	SR4	3/13/2017 8:56	18.51	116.2	8.07	8.5	SR4	3/13/2017 14:56	19.07	108.4	7.53	7.1	SR4	3/13/2017 20:56	18.95	110.0	7.64	8.6
SR4	3/13/2017 3:01	18.57	108.0	7.50	6.2	SR4	3/13/2017 9:01	18.51	115.9	8.05	9.2	SR4	3/13/2017 15:01	19.07	112.9	7.84	6.1	SR4	3/13/2017 21:01	18.91	113.8	7.90	8.3
SR4	3/13/2017 3:06	18.59	110.0	7.64	9.5	SR4	3/13/2017 9:06	18.53	113.8	7.90	7.3	SR4	3/13/2017 15:06	19.00	110.7	7.69	6.2	SR4	3/13/2017 21:06	18.89	113.8	7.90	7.0
SR4	3/13/2017 3:11	18.60	113.5	7.88	9.5	SR4	3/13/2017 9:11	18.56	112.8	7.83	7.1	SR4	3/13/2017 15:11	18.92	116.4	8.08	4.8	SR4	3/13/2017 21:11	18.87	110.3	7.66	5.2
SR4	3/13/2017 3:16	18.59	110.4	7.67	9.6	SR4	3/13/2017 9:16	18.58	108.4	7.53	7.8	SR4	3/13/2017 15:16	19.05	108.3	7.52	5.1	SR4	3/13/2017 21:16	18.86	113.5	7.88	7.3
SR4	3/13/2017 3:21	18.54	114.5	7.95	8.2	SR4	3/13/2017 9:21	18.55	114.5	7.95	6.6	SR4	3/13/2017 15:21	18.99	112.8	7.83	5.9	SR4	3/13/2017 21:21	18.86	109.7	7.62	6.2
SR4	3/13/2017 3:26	18.51	110.7	7.69	6.2	SR4	3/13/2017 9:26	18.57	108.7	7.55	8.8	SR4	3/13/2017 15:26	19.02	113.9	7.91	9.7	SR4	3/13/2017 21:26	18.86	115.9	8.05	9.6
SR4	3/13/2017 3:31	18.53	115.2	8.00	5.0	SR4	3/13/2017 9:31	18.60	115.9	8.05	9.6	SR4	3/13/2017 15:31	19.22	109.3	7.59	8.7	SR4	3/13/2017 21:31	18.92	112.5	7.81	6.8
SR4	3/13/2017 3:36	18.51	111.3	7.73	7.2	SR4	3/13/2017 9:36	18.57	107.9	7.49	8.1	SR4	3/13/2017 15:36	19.26	107.9	7.49	7.9	SR4	3/13/2017 21:36	18.94	113.6	7.89	6.1
SR4	3/13/2017 3:41	18.48	108.7	7.55	6.2	SR4	3/13/2017 9:41	18.58	112.9	7.84	8.2	SR4	3/13/2017 15:41	19.25	109.0	7.57	7.9	SR4	3/13/2017 21:41	18.98	116.2	8.07	9.7
SR4	3/13/2017 3:46	18.47	108.1	7.51	4.8	SR4	3/13/2017 9:46	18.58	110.4	7.67	8.5	SR4	3/13/2017 15:46	19.41	115.8	8.04	8.4	SR4	3/13/2017 21:46	18.99	112.3	7.80	5.7
SR4	3/13/2017 3:51	18.52	109.4	7.60	7.4	SR4						SR4	3/13/2017 15:51	19.29	114.8	7.97	4.4	SR4	3/13/2017 21:51	19.0			

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR5	3/13/2017 0:00	18.58	112.2	7.74	5.8	SR5	3/13/2017 6:00	18.67	109.8	7.57	4.3	SR5	3/13/2017 12:00	19.12	110.3	7.61	4.1	SR5	3/13/2017 18:00	19.33	114.6	7.90	3.7
SR5	3/13/2017 0:05	18.58	110.1	7.59	2.7	SR5	3/13/2017 6:05	18.67	117.3	8.09	4.0	SR5	3/13/2017 12:05	19.17	109.9	7.58	3.1	SR5	3/13/2017 18:05	19.35	111.9	7.72	2.6
SR5	3/13/2017 0:10	18.60	117.0	8.07	2.8	SR5	3/13/2017 6:10	18.67	111.1	7.66	6.3	SR5	3/13/2017 12:10	19.25	111.2	7.67	5.1	SR5	3/13/2017 18:10	19.29	109.8	7.57	5.0
SR5	3/13/2017 0:15	18.62	112.8	7.78	3.1	SR5	3/13/2017 6:15	18.68	113.1	7.80	5.5	SR5	3/13/2017 12:15	19.26	113.7	7.84	4.1	SR5	3/13/2017 18:15	19.29	116.3	8.02	4.8
SR5	3/13/2017 0:20	18.62	116.4	8.03	4.4	SR5	3/13/2017 6:20	18.67	115.3	7.95	4.9	SR5	3/13/2017 12:20	19.35	117.3	8.09	3.5	SR5	3/13/2017 18:20	19.28	117.3	8.09	4.0
SR5	3/13/2017 0:25	18.62	116.6	8.04	2.8	SR5	3/13/2017 6:25	18.66	114.8	7.92	2.9	SR5	3/13/2017 12:25	19.39	114.6	7.90	2.8	SR5	3/13/2017 18:25	19.31	115.3	7.95	2.5
SR5	3/13/2017 0:30	18.62	112.5	7.76	3.0	SR5	3/13/2017 6:30	18.65	115.3	7.95	2.9	SR5	3/13/2017 12:30	19.40	112.7	7.77	3.8	SR5	3/13/2017 18:30	19.32	117.0	8.07	4.8
SR5	3/13/2017 0:35	18.61	114.1	7.87	2.5	SR5	3/13/2017 6:35	18.66	111.8	7.71	4.3	SR5	3/13/2017 12:35	19.46	113.1	7.80	3.3	SR5	3/13/2017 18:35	19.32	112.5	7.76	4.9
SR5	3/13/2017 0:40	18.61	114.8	7.92	3.1	SR5	3/13/2017 6:40	18.66	117.6	8.11	5.9	SR5	3/13/2017 12:40	19.41	117.6	8.11	2.3	SR5	3/13/2017 18:40	19.30	109.9	7.58	3.3
SR5	3/13/2017 0:45	18.62	112.2	7.74	3.0	SR5	3/13/2017 6:45	18.66	115.1	7.94	4.8	SR5	3/13/2017 12:45	19.39	111.5	7.69	5.9	SR5	3/13/2017 18:45	19.29	116.1	8.01	4.1
SR5	3/13/2017 0:50	18.61	113.8	7.85	2.9	SR5	3/13/2017 6:50	18.66	116.0	8.00	2.7	SR5	3/13/2017 12:50	19.38	111.9	7.72	6.1	SR5	3/13/2017 18:50	19.30	115.4	7.96	5.4
SR5	3/13/2017 0:55	18.62	111.1	7.66	2.9	SR5	3/13/2017 6:55	18.66	115.4	7.96	4.7	SR5	3/13/2017 12:55	19.42	110.6	7.63	4.2	SR5	3/13/2017 18:55	19.36	116.9	8.06	2.7
SR5	3/13/2017 1:00	18.62	115.3	7.95	2.7	SR5	3/13/2017 7:00	18.66	113.8	7.85	3.5	SR5	3/13/2017 13:00	19.33	112.2	7.74	4.8	SR5	3/13/2017 19:00	19.33	111.4	7.68	5.4
SR5	3/13/2017 1:05	18.62	112.2	7.74	5.7	SR5	3/13/2017 7:05	18.66	113.7	7.84	5.7	SR5	3/13/2017 13:05	19.33	113.8	7.85	6.0	SR5	3/13/2017 19:05	19.48	111.5	7.69	6.0
SR5	3/13/2017 1:10	18.62	117.6	8.11	4.4	SR5	3/13/2017 7:10	18.67	117.5	8.10	5.6	SR5	3/13/2017 13:10	19.32	110.6	7.63	2.6	SR5	3/13/2017 19:10	19.69	111.7	7.70	5.7
SR5	3/13/2017 1:15	18.61	112.1	7.73	2.7	SR5	3/13/2017 7:15	18.67	116.7	8.05	6.3	SR5	3/13/2017 13:15	19.20	114.3	7.88	5.5	SR5	3/13/2017 19:15	19.67	112.2	7.74	6.2
SR5	3/13/2017 1:20	18.61	117.5	8.10	3.7	SR5	3/13/2017 7:20	18.67	110.9	7.65	3.8	SR5	3/13/2017 13:20	19.21	112.4	7.75	2.5	SR5	3/13/2017 19:20	19.44	115.3	7.95	2.4
SR5	3/13/2017 1:25	18.60	114.8	7.92	4.6	SR5	3/13/2017 7:25	18.70	111.2	7.87	5.2	SR5	3/13/2017 13:25	19.21	110.1	7.59	4.0	SR5	3/13/2017 19:25	19.36	117.2	8.08	5.7
SR5	3/13/2017 1:30	18.60	111.8	7.71	2.4	SR5	3/13/2017 7:30	18.75	113.5	7.83	5.2	SR5	3/13/2017 13:30	19.16	110.6	7.63	5.6	SR5	3/13/2017 19:30	19.28	111.8	7.71	4.6
SR5	3/13/2017 1:35	18.61	115.0	7.93	3.5	SR5	3/13/2017 7:35	18.75	116.4	8.03	3.1	SR5	3/13/2017 13:35	19.27	110.2	7.60	2.5	SR5	3/13/2017 19:35	19.31	110.8	7.64	2.8
SR5	3/13/2017 1:40	18.61	111.5	7.69	5.1	SR5	3/13/2017 7:40	18.78	112.1	7.73	5.9	SR5	3/13/2017 13:40	19.43	110.9	7.65	4.6	SR5	3/13/2017 19:40	19.34	117.5	8.10	3.4
SR5	3/13/2017 1:45	18.63	115.6	7.97	4.1	SR5	3/13/2017 7:45	18.80	115.6	7.97	2.3	SR5	3/13/2017 13:45	19.37	110.6	7.63	3.8	SR5	3/13/2017 19:45	19.31	115.9	7.99	3.2
SR5	3/13/2017 1:50	18.62	116.9	8.06	4.8	SR5	3/13/2017 7:50	18.83	112.5	7.76	3.6	SR5	3/13/2017 13:50	19.47	110.6	7.63	4.7	SR5	3/13/2017 19:50	19.40	109.8	7.57	5.8
SR5	3/13/2017 1:55	18.62	112.7	7.77	4.6	SR5	3/13/2017 7:55	18.82	117.2	8.08	2.4	SR5	3/13/2017 13:55	19.44	110.1	7.59	4.4	SR5	3/13/2017 19:55	19.39	111.7	7.70	5.3
SR5	3/13/2017 2:00	18.60	112.2	7.74	5.4	SR5	3/13/2017 8:00	18.84	112.2	7.74	6.0	SR5	3/13/2017 14:00	19.41	116.3	8.02	4.2	SR5	3/13/2017 20:00	19.35	113.8	7.85	8.1
SR5	3/13/2017 2:05	18.60	114.0	7.86	5.9	SR5	3/13/2017 8:05	18.90	114.6	7.90	4.4	SR5	3/13/2017 14:05	19.41	115.7	7.98	4.8	SR5	3/13/2017 20:05	19.34	110.5	7.62	3.9
SR5	3/13/2017 2:10	18.61	115.1	7.94	4.1	SR5	3/13/2017 8:10	18.88	114.3	7.88	5.8	SR5	3/13/2017 14:10	19.21	115.6	7.97	2.4	SR5	3/13/2017 20:10	19.37	112.7	7.77	5.2
SR5	3/13/2017 2:15	18.62	116.6	8.04	6.2	SR5	3/13/2017 8:15	18.87	115.4	7.96	5.5	SR5	3/13/2017 14:15	19.23	115.9	7.99	4.6	SR5	3/13/2017 20:15	19.37	113.1	7.80	2.6
SR5	3/13/2017 2:20	18.64	111.7	7.70	2.7	SR5	3/13/2017 8:20	18.87	109.5	7.55	4.1	SR5	3/13/2017 14:20	19.23	113.5	7.83	3.8	SR5	3/13/2017 20:20	19.35	116.0	8.00	4.8
SR5	3/13/2017 2:25	18.64	112.8	7.78	2.5	SR5	3/13/2017 8:25	18.88	114.1	7.87	4.4	SR5	3/13/2017 14:25	19.16	115.1	7.94	4.4	SR5	3/13/2017 20:25	19.35	109.5	7.55	6.8
SR5	3/13/2017 2:30	18.65	110.1	7.59	5.1	SR5	3/13/2017 8:30	18.86	110.1	7.59	2.7	SR5	3/13/2017 14:30	19.06	116.3	8.02	5.5	SR5	3/13/2017 20:30	19.34	110.5	7.62	3.2
SR5	3/13/2017 2:35	18.65	110.9	7.65	4.8	SR5	3/13/2017 8:35	18.85	117.0	8.07	2.4	SR5	3/13/2017 14:35	19.08	110.1	7.59	4.5	SR5	3/13/2017 20:35	19.32	115.9	7.99	3.6
SR5	3/13/2017 2:40	18.61	110.9	7.65	5.9	SR5	3/13/2017 8:40	18.85	111.8	7.71	3.1	SR5	3/13/2017 14:40	19.05	109.6	7.56	3.3	SR5	3/13/2017 20:40	19.30	116.3	8.02	2.7
SR5	3/13/2017 2:45	18.64	116.1	8.01	2.7	SR5	3/13/2017 8:45	18.85	116.4	8.03	3.5	SR5	3/13/2017 14:45	19.05	111.1	7.66	4.4	SR5	3/13/2017 20:45	19.29	110.6	7.63	4.6
SR5	3/13/2017 2:50	18.62	113.5	7.83	5.9	SR5	3/13/2017 8:50	18.84	112.7	7.77	5.5	SR5	3/13/2017 14:50	19.12	109.8	7.57	2.5	SR5	3/13/2017 20:50	19.25	114.4	7.89	2.7
SR5	3/13/2017 2:55	18.64	114.8	7.92	4.3	SR5	3/13/2017 8:55	18.83	111.7	7.70	3.6	SR5	3/13/2017 14:55	19.32	116.1	8.01	4.3	SR5	3/13/2017 20:55	19.24	109.5	7.55	3.4
SR5	3/13/2017 3:00	18.65	116.0	8.00	5.1	SR5	3/13/2017 9:00	18.83	115.9	7.99	3.6	SR5	3/13/2017 15:00	19.29	110.8	7.64	4.0	SR5	3/13/2017 21:00	19.22	110.6	7.63	2.7
SR5	3/13/2017 3:05	18.71	111.7	7.70	2.5	SR5	3/13/2017 9:05	18.85	110.3	7.61	3.3	SR5	3/13/2017 15:05	19.20	110.8	7.64	5.8	SR5	3/13/2017 21:05	19.20	116.9	8.06	3.8
SR5	3/13/2017 3:10	18.72	116.9	8.06	3.6	SR5	3/13/2017 9:10	18.88	117.6	8.11	2.8	SR5	3/13/2017 15:10	19.16	112.7	7.77	2.7	SR5	3/13/2017 21:10	19.20	117.5	8.10	5.9
SR5	3/13/2017 3:15	18.69	112.1	7.73	6.3	SR5	3/13/2017 9:15	18.85	115.9	7.99	4.8	SR5	3/13/2017 15:15	19.27	117.0	8.07	3.7	SR5	3/13/2017 21:15	19.20	110.9	7.65	4.6
SR5	3/13/2017 3:20	18.65	111.1	7.66	4.8	SR5	3/13/2017 9:20	18.84	114.0	7.86	5.3	SR5	3/13/2017 15:20	19.27	116.3	8.02	2.5	SR5	3/13/2017 21:20	19.20	109.9	7.58	5.8
SR5	3/13/2017 3:25	18.63	115.3	7.95	4.8	SR5	3/13/2017 9:25	18.88	114.3	7.88	6.1	SR5	3/13/2017 15:25	19.36	115.1	7.94	3.2	SR5	3/13/2017 21:25	19.22	112.5	7.76	5.2
SR5	3/13/2017 3:30	18.65	110.8	7.64	2.7	SR5	3/13/2017 9:30	18.85	115.1	7.94	4.5	SR5	3/13/2017 15:30	19.55	114.8	7.92	3.7	SR5	3/13/2017 21:30	19.24	114.8	7.92	4.3
SR5	3/13/2017 3:35	18.63	115.6	7.97	4.1	SR5	3/13/2017 9:35	18.84	113.4	7.82	5.5	SR5	3/13/2017 15:35	19.49	111.9	7.72	3.9	SR5	3/13/2017 21:35	19.30	113.4	7.82	5.7
SR5	3/13/2017 3:40	18.60	111.2	7.67	4.6	SR5	3/13/2017 9:40	18.84	111.7	7.70	3.0	SR5	3/13/2017 15:40	19.44	110.8	7.64	4.6	SR5	3/13/2017 21:40	19.29	111.5	7.69	2.9
SR5	3/13/2017 3:45	18.60	116.9	8.06	3.1	SR5	3/13/2017 9:45	18.84	114.0	7.86	3.8	SR5	3/13/2017 15:45	19.71	109.8	7.57	5.4	SR5	3/13/2017 21:45	19.30	116.1	8.01	3.8
SR5	3/13/2017 3:50	18.63	113.7	7.84	4.6	SR5	3/13/2017 9:50	18.91	116.6	8.04	4.7	SR5	3/13/2017 15:50	19.54	109.6	7.56	2.9						

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR12	3/13/2017 0:01	18.92	132.8	8.97	5.3	SR12	3/13/2017 6:01	18.97	128.5	8.68	3.0	SR12	3/13/2017 12:01	18.85	128.3	8.67	6.1	SR12	3/13/2017 18:01	19.24	134.4	9.08	3.5
SR12	3/13/2017 0:06	18.91	135.9	9.18	4.1	SR12	3/13/2017 6:06	18.96	130.8	8.84	3.0	SR12	3/13/2017 12:06	18.86	129.2	8.73	4.0	SR12	3/13/2017 18:06	19.24	131.6	8.89	4.1
SR12	3/13/2017 0:11	18.93	132.3	8.94	5.1	SR12	3/13/2017 6:11	18.95	130.5	8.82	4.7	SR12	3/13/2017 12:11	18.85	130.8	8.84	4.2	SR12	3/13/2017 18:11	19.24	135.7	9.17	5.5
SR12	3/13/2017 0:16	18.96	136.2	9.20	5.5	SR12	3/13/2017 6:16	18.95	133.5	9.02	5.1	SR12	3/13/2017 12:16	18.86	133.6	9.03	4.9	SR12	3/13/2017 18:16	19.23	127.9	8.64	5.3
SR12	3/13/2017 0:21	18.95	132.5	8.95	6.4	SR12	3/13/2017 6:21	18.95	129.2	8.73	2.5	SR12	3/13/2017 12:21	18.86	132.2	8.93	4.7	SR12	3/13/2017 18:21	19.23	132.9	8.98	2.7
SR12	3/13/2017 0:26	18.95	131.6	8.89	4.9	SR12	3/13/2017 6:26	18.96	129.6	8.76	5.0	SR12	3/13/2017 12:26	18.87	130.4	8.81	5.8	SR12	3/13/2017 18:26	19.23	132.2	8.93	5.3
SR12	3/13/2017 0:31	18.96	135.1	9.13	6.6	SR12	3/13/2017 6:31	18.95	132.0	8.92	6.2	SR12	3/13/2017 12:31	18.87	133.8	9.04	5.1	SR12	3/13/2017 18:31	19.22	129.6	8.76	6.5
SR12	3/13/2017 0:36	18.95	135.7	9.17	6.0	SR12	3/13/2017 6:36	18.94	135.4	9.15	2.8	SR12	3/13/2017 12:36	18.88	133.1	8.99	3.5	SR12	3/13/2017 18:36	19.21	132.0	8.92	4.3
SR12	3/13/2017 0:41	18.95	132.2	8.93	4.3	SR12	3/13/2017 6:41	18.94	129.6	8.76	5.5	SR12	3/13/2017 12:41	18.89	132.6	8.96	2.7	SR12	3/13/2017 18:41	19.20	131.7	8.90	2.2
SR12	3/13/2017 0:46	18.95	131.3	8.87	6.2	SR12	3/13/2017 6:46	18.94	130.7	8.83	4.3	SR12	3/13/2017 12:46	18.91	133.8	9.04	2.6	SR12	3/13/2017 18:46	19.18	132.6	8.96	5.7
SR12	3/13/2017 0:51	18.94	133.1	8.99	3.8	SR12	3/13/2017 6:51	18.93	129.9	8.78	5.9	SR12	3/13/2017 12:51	18.92	132.3	8.94	2.7	SR12	3/13/2017 18:51	19.18	133.3	9.01	3.1
SR12	3/13/2017 0:56	18.95	131.3	8.87	6.0	SR12	3/13/2017 6:56	18.93	134.8	9.11	5.3	SR12	3/13/2017 12:56	18.95	135.1	9.13	4.1	SR12	3/13/2017 18:56	19.17	134.2	9.07	3.0
SR12	3/13/2017 1:01	18.94	134.7	9.10	5.1	SR12	3/13/2017 7:01	18.93	129.8	8.77	5.4	SR12	3/13/2017 13:01	18.96	133.8	9.04	3.3	SR12	3/13/2017 19:01	19.16	129.9	8.78	3.4
SR12	3/13/2017 1:06	18.95	134.7	9.10	3.4	SR12	3/13/2017 7:06	18.93	136.2	9.20	4.4	SR12	3/13/2017 13:06	18.98	135.6	9.16	4.5	SR12	3/13/2017 19:06	19.16	131.7	8.90	4.8
SR12	3/13/2017 1:11	18.93	131.0	8.85	2.5	SR12	3/13/2017 7:11	18.95	134.7	9.10	2.9	SR12					SR12	3/13/2017 19:11	19.16	127.9	8.64	4.3	
SR12	3/13/2017 1:16	18.93	128.6	8.69	4.4	SR12	3/13/2017 7:16	18.94	135.4	9.15	6.6	SR12					SR12	3/13/2017 19:16	19.20	127.9	8.64	3.0	
SR12	3/13/2017 1:21	18.94	134.1	9.06	6.4	SR12	3/13/2017 7:21	18.94	130.8	8.84	6.5	SR12					SR12	3/13/2017 19:21	19.23	130.4	8.81	5.0	
SR12	3/13/2017 1:26	18.95	133.2	9.00	6.0	SR12	3/13/2017 7:26	18.95	136.2	9.20	6.4	SR12					SR12	3/13/2017 19:26	19.27	131.7	8.90	4.7	
SR12	3/13/2017 1:31	18.95	131.7	8.90	2.9	SR12	3/13/2017 7:31	18.94	134.7	9.10	4.0	SR12					SR12	3/13/2017 19:31	19.30	132.6	8.96	2.4	
SR12	3/13/2017 1:36	18.93	132.6	8.96	6.3	SR12	3/13/2017 7:36	18.88	129.8	8.77	2.6	SR12					SR12	3/13/2017 19:36	19.31	130.2	8.80	6.2	
SR12	3/13/2017 1:41	18.94	135.9	9.18	4.8	SR12	3/13/2017 7:41	18.86	131.1	8.86	4.4	SR12					SR12	3/13/2017 19:41	19.31	135.0	9.12	5.1	
SR12	3/13/2017 1:46	18.92	128.3	8.67	4.4	SR12	3/13/2017 7:46	18.86	135.4	9.15	5.3	SR12					SR12	3/13/2017 19:46	19.31	132.5	8.95	3.7	
SR12	3/13/2017 1:51	18.94	133.3	9.01	4.4	SR12	3/13/2017 7:51	18.85	135.0	9.12	5.9	SR12					SR12	3/13/2017 19:51	19.31	132.9	8.98	2.5	
SR12	3/13/2017 1:56	18.93	134.4	9.08	6.1	SR12	3/13/2017 7:56	18.84	128.8	8.70	4.2	SR12					SR12	3/13/2017 19:56	19.30	131.9	8.91	4.0	
SR12	3/13/2017 2:01	18.92	135.4	9.15	5.6	SR12	3/13/2017 8:01	18.84	129.1	8.72	4.0	SR12					SR12	3/13/2017 20:01	19.29	131.4	8.88	6.3	
SR12	3/13/2017 2:06	18.93	127.9	8.64	4.4	SR12	3/13/2017 8:06	18.85	136.2	9.20	4.1	SR12					SR12	3/13/2017 20:06	19.28	132.5	8.95	5.4	
SR12	3/13/2017 2:11	18.96	130.4	8.81	3.9	SR12	3/13/2017 8:11	18.85	134.4	9.08	2.4	SR12					SR12	3/13/2017 20:11	19.29	127.9	8.64	3.7	
SR12	3/13/2017 2:16	18.98	134.7	9.10	5.8	SR12	3/13/2017 8:16	18.84	128.0	8.65	4.5	SR12	3/13/2017 14:16	18.98	133.3	9.01	3.1	SR12	3/13/2017 20:16	19.24	130.8	8.84	2.3
SR12	3/13/2017 2:21	18.97	131.0	8.85	2.2	SR12	3/13/2017 8:21	18.86	131.7	8.90	2.3	SR12	3/13/2017 14:21	18.97	135.0	9.12	4.3	SR12	3/13/2017 20:21	19.23	133.9	9.05	5.4
SR12	3/13/2017 2:26	18.96	133.9	9.05	4.5	SR12	3/13/2017 8:26	18.85	130.7	8.83	5.4	SR12	3/13/2017 14:26	18.96	128.0	8.65	5.8	SR12	3/13/2017 20:26	19.20	128.8	8.70	5.8
SR12	3/13/2017 2:31	18.95	129.5	8.75	5.0	SR12	3/13/2017 8:31	18.85	133.3	9.01	6.5	SR12	3/13/2017 14:31	18.95	135.9	9.18	4.4	SR12	3/13/2017 20:31	19.18	133.2	9.00	3.6
SR12	3/13/2017 2:36	18.95	133.9	9.05	5.4	SR12	3/13/2017 8:36	18.85	128.2	8.66	6.3	SR12	3/13/2017 14:36	18.93	134.4	9.08	5.3	SR12	3/13/2017 20:36	19.17	135.6	9.16	6.1
SR12	3/13/2017 2:41	18.95	130.8	8.84	4.0	SR12	3/13/2017 8:41	18.85	135.6	9.16	5.3	SR12	3/13/2017 14:41	18.92	130.4	8.81	6.6	SR12	3/13/2017 20:41	19.15	130.4	8.81	5.6
SR12	3/13/2017 2:46	18.95	130.7	8.83	4.7	SR12	3/13/2017 8:46	18.84	130.8	8.84	3.8	SR12	3/13/2017 14:46	18.90	128.0	8.65	5.1	SR12	3/13/2017 20:46	19.13	133.6	9.03	4.0
SR12	3/13/2017 2:51	18.95	133.9	9.05	5.4	SR12	3/13/2017 8:51	18.85	128.2	8.66	2.8	SR12	3/13/2017 14:51	18.89	131.4	8.88	4.0	SR12	3/13/2017 20:51	19.11	131.1	8.86	4.9
SR12	3/13/2017 2:56	18.95	135.3	9.14	5.4	SR12	3/13/2017 8:56	18.86	129.4	8.74	5.9	SR12	3/13/2017 14:56	18.87	135.4	9.15	4.2	SR12	3/13/2017 20:56	19.09	129.9	8.78	5.4
SR12	3/13/2017 3:01	18.95	133.1	8.99	2.9	SR12	3/13/2017 9:01	18.87	136.0	9.19	5.7	SR12	3/13/2017 15:01	18.86	132.8	8.97	6.1	SR12	3/13/2017 21:01	19.08	130.4	8.81	6.1
SR12	3/13/2017 3:06	18.91	135.0	9.12	4.3	SR12	3/13/2017 9:06	18.86	132.9	8.98	3.6	SR12	3/13/2017 15:06	18.85	132.2	8.93	6.2	SR12	3/13/2017 21:06	19.06	129.2	8.73	2.6
SR12	3/13/2017 3:11	18.90	129.5	8.75	5.8	SR12	3/13/2017 9:11	18.88	134.5	9.09	4.6	SR12	3/13/2017 15:11	18.86	132.2	8.93	3.4	SR12	3/13/2017 21:11	19.08	132.9	8.98	3.8
SR12	3/13/2017 3:16	18.91	128.8	8.70	6.1	SR12	3/13/2017 9:16	18.87	131.7	8.90	4.0	SR12	3/13/2017 15:16	18.85	131.1	8.86	6.1	SR12	3/13/2017 21:16	19.02	130.4	8.81	6.1
SR12	3/13/2017 3:21	18.91	131.9	8.91	4.4	SR12	3/13/2017 9:21	18.87	129.1	8.72	6.7	SR12	3/13/2017 15:21	18.84	136.2	9.20	2.5	SR12	3/13/2017 21:21	19.00	134.1	9.06	2.8
SR12	3/13/2017 3:26	18.91	134.8	9.11	6.6	SR12	3/13/2017 9:26	18.84	129.2	8.73	3.5	SR12	3/13/2017 15:26	18.84	131.0	8.85	4.6	SR12	3/13/2017 21:26	18.98	131.1	8.86	3.5
SR12	3/13/2017 3:31	18.90	128.2	8.66	6.3	SR12	3/13/2017 9:31	18.86	127.9	8.64	3.5	SR12	3/13/2017 15:31	18.85	135.1	9.13	2.4	SR12	3/13/2017 21:31	18.96	133.9	9.05	6.2
SR12	3/13/2017 3:36	18.91	131.1	8.86	6.0	SR12	3/13/2017 9:36	18.87	135.4	9.15	6.2	SR12	3/13/2017 15:36	18.87	133.9	9.05	4.5	SR12	3/13/2017 21:36	18.95	130.2	8.80	2.7
SR12	3/13/2017 3:41	18.91	132.0	8.92	6.2	SR12	3/13/2017 9:41	18.84	131.3	8.87	5.8	SR12	3/13/2017 15:41	18.88	129.6	8.76	2.2	SR12	3/13/2017 21:41	18.94	134.5	9.09	5.7
SR12	3/13/2017 3:46	18.90	129.1	8.72	3.8	SR12	3/13/2017 9:46	18.83	131.9	8.91	3.0	SR12	3/13/2017 15:46	18.91	131.4	8.88	2.2	SR12	3/13/2017 21:46	18.94	128.9	8.71	2.4
SR12	3/13/2017 3:51	18.90	131.0	8.85	5.2	SR12	3/13/2017 9:51	18.83	133.5	9.02	3.1	SR12	3/13/2017 15:51	18.95	133.9	9.05	5.2	SR12	3/13/2017 21:51	18.94	135.9	9.18	5.1
SR12	3/13/2017 3:56	18.89	131.9	8.91	5.9	SR12	3/13/2017 9:56	18.84	128.5	8.68	3.1	SR12	3/13/2017 15:56	18.98	132.5	8.95	5.7	SR12	3/13/2017 21:56	18.95	131.3	8.87	2.8
SR12																							

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR13	3/13/2017 0:00	18.38	95.3	6.76	10.1	SR13	3/13/2017 6:00	18.47	93.9	6.66	8.9	SR13	3/13/2017 12:00	18.77	101.5	7.20	8.8	SR13	3/13/2017 18:00	18.94	100.5	7.13	7.7
SR13	3/13/2017 0:05	18.37	98.3	6.97	6.9	SR13	3/13/2017 6:05	18.47	100.0	7.09	10.9	SR13	3/13/2017 12:05	18.83	99.3	7.04	7.0	SR13	3/13/2017 18:05	18.92	98.0	6.95	8.8
SR13	3/13/2017 0:10	18.40	100.0	7.09	9.6	SR13	3/13/2017 6:10	18.47	95.7	6.79	10.5	SR13	3/13/2017 12:10	18.87	100.4	7.12	7.2	SR13	3/13/2017 18:10	19.01	98.1	6.96	9.7
SR13	3/13/2017 0:15	18.41	99.4	7.05	7.0	SR13	3/13/2017 6:15	18.47	94.8	6.72	10.9	SR13	3/13/2017 12:15	18.89	100.8	7.15	8.7	SR13	3/13/2017 18:15	18.93	101.5	7.20	10.5
SR13	3/13/2017 0:20	18.42	97.4	6.91	9.0	SR13	3/13/2017 6:20	18.47	99.1	7.03	9.0	SR13	3/13/2017 12:20	18.87	96.9	6.87	9.3	SR13	3/13/2017 18:20	18.94	101.1	7.17	7.5
SR13	3/13/2017 0:25	18.41	100.7	7.14	9.8	SR13	3/13/2017 6:25	18.47	100.3	7.11	7.7	SR13	3/13/2017 12:25	18.87	98.6	6.99	9.6	SR13	3/13/2017 18:25	18.94	97.3	6.90	8.5
SR13	3/13/2017 0:30	18.41	97.4	6.91	9.2	SR13	3/13/2017 6:30	18.47	99.4	7.05	10.3	SR13	3/13/2017 12:30	18.93	97.3	6.90	8.1	SR13	3/13/2017 18:30	18.95	99.7	7.07	6.7
SR13	3/13/2017 0:35	18.41	99.7	7.07	9.5	SR13	3/13/2017 6:35	18.47	98.8	7.01	9.0	SR13	3/13/2017 12:35	18.97	97.7	6.93	8.5	SR13	3/13/2017 18:35	19.00	96.2	6.82	8.7
SR13	3/13/2017 0:40	18.41	97.4	6.91	8.7	SR13	3/13/2017 6:40	18.48	98.0	6.95	8.9	SR13	3/13/2017 12:40	19.03	97.6	6.92	9.6	SR13	3/13/2017 18:40	19.03	97.4	6.91	9.2
SR13	3/13/2017 0:45	18.41	100.3	7.11	9.1	SR13	3/13/2017 6:45	18.47	95.0	6.74	6.7	SR13	3/13/2017 12:45	18.98	97.4	6.91	7.9	SR13	3/13/2017 18:45	18.99	95.2	6.75	10.9
SR13	3/13/2017 0:50	18.41	98.3	6.97	6.9	SR13	3/13/2017 6:50	18.48	99.4	7.05	6.9	SR13	3/13/2017 12:50	19.00	94.3	6.69	8.0	SR13	3/13/2017 18:50	19.03	99.7	7.07	10.4
SR13	3/13/2017 0:55	18.41	99.0	7.02	8.1	SR13	3/13/2017 6:55	18.48	100.5	7.13	10.1	SR13	3/13/2017 12:55	18.93	94.3	6.69	9.0	SR13	3/13/2017 18:55	19.11	94.2	6.68	11.0
SR13	3/13/2017 1:00	18.41	94.8	6.72	11.0	SR13	3/13/2017 7:00	18.48	98.1	6.96	10.3	SR13	3/13/2017 13:00	18.95	98.8	7.01	7.9	SR13	3/13/2017 19:00	19.03	98.7	7.00	8.2
SR13	3/13/2017 1:05	18.41	94.3	6.69	9.5	SR13	3/13/2017 7:05	18.48	99.5	7.06	9.3	SR13	3/13/2017 13:05	18.92	97.3	6.90	9.1	SR13	3/13/2017 19:05	19.31	101.4	7.19	7.5
SR13	3/13/2017 1:10	18.40	100.3	7.11	10.9	SR13	3/13/2017 7:10	18.48	97.3	6.90	7.0	SR13	3/13/2017 13:10	18.99	96.7	6.86	7.9	SR13	3/13/2017 19:10	19.35	95.0	6.74	9.0
SR13	3/13/2017 1:15	18.39	101.0	7.16	8.9	SR13	3/13/2017 7:15	18.46	98.7	7.00	7.6	SR13	3/13/2017 13:15	18.83	100.8	7.15	11.0	SR13	3/13/2017 19:15	19.58	96.9	6.87	7.1
SR13	3/13/2017 1:20	18.38	94.9	6.73	8.8	SR13	3/13/2017 7:20	18.48	101.0	7.16	7.9	SR13	3/13/2017 13:20	18.76	98.7	7.00	7.4	SR13	3/13/2017 19:20	19.27	95.9	6.80	7.2
SR13	3/13/2017 1:25	18.40	94.5	6.70	10.8	SR13	3/13/2017 7:25	18.50	101.4	7.19	8.2	SR13	3/13/2017 13:25	18.83	94.8	6.72	7.5	SR13	3/13/2017 19:25	19.23	101.2	7.18	7.5
SR13	3/13/2017 1:30	18.38	96.3	6.83	8.3	SR13	3/13/2017 7:30	18.51	95.6	6.78	9.6	SR13	3/13/2017 13:30	18.73	94.9	6.73	7.6	SR13	3/13/2017 19:30	19.14	94.6	6.71	10.3
SR13	3/13/2017 1:35	18.41	93.9	6.66	6.8	SR13	3/13/2017 7:35	18.52	101.2	7.18	7.4	SR13	3/13/2017 13:35	18.84	99.7	7.07	7.8	SR13	3/13/2017 19:35	18.99	96.0	6.81	7.7
SR13	3/13/2017 1:40	18.41	99.4	7.05	6.8	SR13	3/13/2017 7:40	18.52	97.6	6.92	8.0	SR13	3/13/2017 13:40	18.81	100.3	7.11	7.4	SR13	3/13/2017 19:40	19.19	100.4	7.12	10.6
SR13	3/13/2017 1:45	18.40	100.5	7.13	9.9	SR13	3/13/2017 7:45	18.52	100.7	7.14	10.6	SR13	3/13/2017 13:45	18.79	100.1	7.10	9.6	SR13	3/13/2017 19:45	19.11	95.6	6.78	6.9
SR13	3/13/2017 1:50	18.40	99.1	7.03	10.3	SR13	3/13/2017 7:50	18.54	96.0	6.81	7.6	SR13	3/13/2017 13:50	18.83	99.5	7.06	7.3	SR13	3/13/2017 19:50	19.09	94.2	6.68	9.9
SR13	3/13/2017 1:55	18.38	94.5	6.70	10.8	SR13	3/13/2017 7:55	18.54	96.6	6.85	11.0	SR13	3/13/2017 13:55	18.94	99.4	7.05	9.7	SR13	3/13/2017 19:55	19.05	94.6	6.71	10.5
SR13	3/13/2017 2:00	18.37	94.9	6.73	11.0	SR13	3/13/2017 8:00	18.54	96.7	6.86	7.5	SR13	3/13/2017 14:00	19.00	95.2	6.75	9.1	SR13	3/13/2017 20:00	19.03	101.5	7.20	11.3
SR13	3/13/2017 2:05	18.37	101.1	7.17	6.9	SR13	3/13/2017 8:05	18.51	95.5	6.77	7.7	SR13	3/13/2017 14:05	18.85	101.5	7.20	10.3	SR13	3/13/2017 20:05	19.02	96.9	6.87	12.0
SR13	3/13/2017 2:10	18.38	94.3	6.69	10.7	SR13	3/13/2017 8:10	18.52	99.4	7.05	10.7	SR13	3/13/2017 14:10	18.75	98.4	6.98	7.8	SR13	3/13/2017 20:10	19.03	96.2	6.82	8.5
SR13	3/13/2017 2:15	18.39	96.4	6.84	11.0	SR13	3/13/2017 8:15	18.49	99.4	7.05	7.6	SR13	3/13/2017 14:15	18.72	95.9	6.80	10.9	SR13	3/13/2017 20:15	18.99	98.8	7.01	9.4
SR13	3/13/2017 2:20	18.40	100.3	7.11	9.6	SR13	3/13/2017 8:20	18.50	98.4	6.98	8.3	SR13	3/13/2017 14:20	18.72	98.7	7.00	8.9	SR13	3/13/2017 20:20	18.98	97.9	6.94	10.9
SR13	3/13/2017 2:25	18.40	96.7	6.86	8.6	SR13	3/13/2017 8:25	18.51	93.9	6.66	9.0	SR13	3/13/2017 14:25	18.69	98.7	7.00	10.4	SR13	3/13/2017 20:25	18.97	95.5	6.77	7.4
SR13	3/13/2017 2:30	18.42	97.6	6.92	10.2	SR13	3/13/2017 8:30	18.51	94.9	6.73	6.7	SR13	3/13/2017 14:30	18.65	96.7	6.86	11.0	SR13	3/13/2017 20:30	18.96	94.8	6.72	7.7
SR13	3/13/2017 2:35	18.42	96.3	6.83	8.3	SR13	3/13/2017 8:35	18.45	94.9	6.73	10.7	SR13	3/13/2017 14:35	18.63	98.1	6.96	7.6	SR13	3/13/2017 20:35	18.96	95.0	6.74	8.9
SR13	3/13/2017 2:40	18.42	101.4	7.19	9.6	SR13	3/13/2017 8:40	18.45	101.1	7.17	8.7	SR13	3/13/2017 14:40	18.63	95.3	6.76	9.0	SR13	3/13/2017 20:40	18.95	100.7	7.14	10.2
SR13	3/13/2017 2:45	18.42	99.1	7.03	8.4	SR13	3/13/2017 8:45	18.47	101.2	7.18	7.0	SR13	3/13/2017 14:45	18.64	96.2	6.82	8.7	SR13	3/13/2017 20:45	18.96	95.2	6.75	10.6
SR13	3/13/2017 2:50	18.41	101.4	7.19	7.5	SR13	3/13/2017 8:50	18.44	98.7	7.00	7.6	SR13	3/13/2017 14:50	18.69	101.2	7.18	7.1	SR13	3/13/2017 20:50	18.88	96.3	6.83	8.3
SR13	3/13/2017 2:55	18.44	100.4	7.12	7.4	SR13	3/13/2017 8:55	18.43	98.4	6.98	7.8	SR13	3/13/2017 14:55	18.78	96.4	6.84	8.1	SR13	3/13/2017 20:55	18.85	97.0	6.88	10.6
SR13	3/13/2017 3:00	18.47	96.4	6.84	7.4	SR13	3/13/2017 9:00	18.51	95.7	6.79	7.2	SR13	3/13/2017 15:00	18.75	95.7	6.79	9.9	SR13	3/13/2017 21:00	18.81	94.0	6.67	7.7
SR13	3/13/2017 3:05	18.50	94.3	6.69	8.5	SR13	3/13/2017 9:05	18.54	97.9	6.94	9.3	SR13	3/13/2017 15:05	18.77	101.4	7.19	9.6	SR13	3/13/2017 21:05	18.80	97.0	6.88	7.5
SR13	3/13/2017 3:10	18.50	99.8	7.08	8.4	SR13	3/13/2017 9:10	18.53	99.0	7.02	10.7	SR13	3/13/2017 15:10	18.70	97.6	6.92	7.5	SR13	3/13/2017 21:10	18.79	99.1	7.03	8.7
SR13	3/13/2017 3:15	18.47	96.4	6.84	7.4	SR13	3/13/2017 9:15	18.53	97.7	6.93	10.7	SR13	3/13/2017 15:15	18.70	94.9	6.73	7.8	SR13	3/13/2017 21:15	18.79	101.4	7.19	7.9
SR13	3/13/2017 3:20	18.44	95.9	6.80	8.4	SR13	3/13/2017 9:20	18.47	99.8	7.08	8.8	SR13	3/13/2017 15:20	18.70	94.2	6.68	7.7	SR13	3/13/2017 21:20	18.79	95.7	6.79	10.5
SR13	3/13/2017 3:25	18.42	95.0	6.74	10.2	SR13	3/13/2017 9:25	18.55	100.4	7.12	8.5	SR13	3/13/2017 15:25	18.80	95.7	6.79	9.3	SR13	3/13/2017 21:25	18.80	94.5	6.70	10.8
SR13	3/13/2017 3:30	18.44	99.8	7.08	10.4	SR13	3/13/2017 9:30	18.54	100.7	7.14	10.8	SR13	3/13/2017 15:30	19.02	98.8	7.01	8.9	SR13	3/13/2017 21:30	18.80	100.4	7.12	9.5
SR13	3/13/2017 3:35	18.43	94.2	6.68	7.6	SR13	3/13/2017 9:35	18.53	94.8	6.72	6.9	SR13	3/13/2017 15:35	19.08	94.3	6.69	7.2	SR13	3/13/2017 21:35	18.86	100.7	7.14	7.8
SR13	3/13/2017 3:40	18.40	98.4	6.98	7.4	SR13	3/13/2017 9:40	18.52	100.7	7.14	9.6	SR13						SR13	3/13/2017 21:40	18.84	95.9	6.80	9.8
SR13	3/13/2017 3:45	18.42	101.2	7.18	9.7	SR13	3/13/2017 9:45	18.53	94.6	6.71	10.6	SR13						SR13	3/13/2017 21:45	18.83	100.4	7.12	10.6
SR13	3/13/2017 3:50	18.42	100.5	7.13	7.4	SR13	3/13/2017 9:50	18.62	93.9	6.66	9.5	SR13						SR13	3/13				

24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	3/13/2017 0:17	0.17				SR12	3/13/2017 0:17	0.16			
SR4	3/13/2017 0:37	0.17				SR12	3/13/2017 0:37	0.20			
SR4	3/13/2017 0:57	0.18				SR12	3/13/2017 0:57	0.16			
SR4	3/13/2017 1:17	0.17				SR12	3/13/2017 1:17	0.17			
SR4	3/13/2017 1:37	0.20				SR12	3/13/2017 1:37	0.20			
SR4	3/13/2017 1:57	0.16				SR12	3/13/2017 1:57	0.18			
SR4	3/13/2017 2:17	0.16				SR12	3/13/2017 2:17	0.20			
SR4	3/13/2017 2:37	0.18				SR12	3/13/2017 2:37	0.20			
SR4	3/13/2017 2:57	0.19				SR12	3/13/2017 2:57	0.17			
SR4	3/13/2017 3:17	0.18				SR12	3/13/2017 3:17	0.19			
SR4	3/13/2017 3:37	0.19				SR12	3/13/2017 3:37	0.18			
SR4	3/13/2017 3:57	0.19				SR12	3/13/2017 3:57	0.16			
SR4	3/13/2017 4:17	0.16				SR12	3/13/2017 4:17	0.17			
SR4	3/13/2017 4:37	0.17				SR12	3/13/2017 4:37	0.16			
SR4	3/13/2017 4:57	0.20				SR12	3/13/2017 4:57	0.20			
SR4	3/13/2017 5:17	0.16				SR12	3/13/2017 5:17	0.17			
SR4	3/13/2017 5:37	0.17				SR12	3/13/2017 5:37	0.16			
SR4	3/13/2017 5:57	0.19				SR12	3/13/2017 5:57	0.16			
SR4						SR12					
SR4	3/13/2017 6:37	0.20				SR12	3/13/2017 6:37	0.20			
SR4	3/13/2017 6:57	0.19				SR12	3/13/2017 6:57	0.17			
SR4	3/13/2017 7:17	0.18				SR12	3/13/2017 7:17	0.18			
SR4	3/13/2017 7:37	0.19				SR12	3/13/2017 7:37	0.16			
SR4	3/13/2017 7:57	0.18				SR12	3/13/2017 7:57	0.18			
SR4	3/13/2017 8:17	0.19				SR12	3/13/2017 8:17	0.18			
SR4	3/13/2017 8:37	0.16				SR12	3/13/2017 8:37	0.18			
SR4	3/13/2017 8:57	0.19				SR12	3/13/2017 8:57	0.18			
SR4	3/13/2017 9:17	0.17				SR12	3/13/2017 9:17	0.16			
SR4	3/13/2017 9:37	0.17				SR12	3/13/2017 9:37	0.17			
SR4						SR12	3/13/2017 9:57	0.17			
SR4						SR12	3/13/2017 10:17	0.18			
SR4						SR12	3/13/2017 10:37	0.17			
SR4						SR12	3/13/2017 10:57	0.18			
SR4						SR12	3/13/2017 11:17	0.20			
SR4						SR12	3/13/2017 11:37	0.18			
SR4	3/13/2017 11:57	0.15				SR12	3/13/2017 11:57	0.19			
SR4	3/13/2017 12:17	0.18				SR12	3/13/2017 12:17	0.20			
SR4	3/13/2017 12:37	0.19				SR12	3/13/2017 12:37	0.20			
SR4	3/13/2017 12:57	0.16				SR12	3/13/2017 12:57	0.19			
SR4	3/13/2017 13:17	0.19				SR12					
SR4	3/13/2017 13:37	0.18				SR12					
SR4	3/13/2017 13:57	0.15				SR12					
SR4	3/13/2017 14:17	0.18				SR12					
SR4	3/13/2017 14:37	0.17				SR12	3/13/2017 14:37	0.17			
SR4	3/13/2017 14:57	0.17				SR12	3/13/2017 14:57	0.19			
SR4	3/13/2017 15:17	0.19				SR12	3/13/2017 15:17	0.18			
SR4	3/13/2017 15:37	0.17				SR12	3/13/2017 15:37	0.19			
SR4	3/13/2017 15:57	0.16				SR12	3/13/2017 15:57	0.16			
SR4	3/13/2017 16:17	0.17				SR12	3/13/2017 16:17	0.19			
SR4	3/13/2017 16:37	0.19				SR12	3/13/2017 16:37	0.17			
SR4	3/13/2017 16:57	0.16				SR12	3/13/2017 16:57	0.19			
SR4	3/13/2017 17:17	0.18				SR12	3/13/2017 17:17	0.18			
SR4	3/13/2017 17:37	0.18				SR12	3/13/2017 17:37	0.17			
SR4	3/13/2017 17:57	0.18				SR12	3/13/2017 17:57	0.20			
SR4	3/13/2017 18:17	0.16				SR12	3/13/2017 18:17	0.20			
SR4	3/13/2017 18:37	0.19				SR12	3/13/2017 18:37	0.18			
SR4	3/13/2017 18:57	0.18				SR12	3/13/2017 18:57	0.20			
SR4	3/13/2017 19:17	0.18				SR12	3/13/2017 19:17	0.17			
SR4	3/13/2017 19:37	0.15				SR12	3/13/2017 19:37	0.17			
SR4	3/13/2017 19:57	0.18				SR12	3/13/2017 19:57	0.20			
SR4	3/13/2017 20:17	0.16				SR12	3/13/2017 20:17	0.16			
SR4	3/13/2017 20:37	0.15				SR12	3/13/2017 20:37	0.20			
SR4	3/13/2017 20:57	0.16				SR12	3/13/2017 20:57	0.18			
SR4	3/13/2017 21:17	0.19				SR12	3/13/2017 21:17	0.16			
SR4	3/13/2017 21:37	0.19				SR12	3/13/2017 21:37	0.16			
SR4	3/13/2017 21:57	0.19				SR12	3/13/2017 21:57	0.17			
SR4	3/13/2017 22:17	0.16				SR12	3/13/2017 22:17	0.19			
SR4	3/13/2017 22:37	0.16				SR12	3/13/2017 22:37	0.17			
SR4	3/13/2017 22:57	0.19				SR12	3/13/2017 22:57	0.18			
SR4	3/13/2017 23:17	0.17				SR12	3/13/2017 23:17	0.18			
SR4	3/13/2017 23:37	0.19				SR12	3/13/2017 23:37	0.17			
SR4	3/13/2017 23:57	0.18				SR12	3/13/2017 23:57	0.17			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12.

SR4 monitoring station was under maintenance during 9:46-11:21.

SR12 monitoring station was under maintenance during 13:06-14:16.

SR13 monitoring station was under maintenance during 15:35-15:55.

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR4	3/14/2017 0:01	19.14	101.2	7.18	7.8	SR4	3/14/2017 6:01	19.01	105.6	7.49	8.1	SR4	3/14/2017 12:01	19.07	106.6	7.56	6.7	SR4	3/14/2017 18:01	19.03	104.8	7.43	7.3
SR4	3/14/2017 0:06	19.13	101.7	7.21	8.8	SR4	3/14/2017 6:06	19.03	105.8	7.50	8.0	SR4	3/14/2017 12:06	19.06	106.2	7.53	9.7	SR4	3/14/2017 18:06	19.03	103.4	7.33	7.1
SR4	3/14/2017 0:11	19.12	106.7	7.57	9.4	SR4	3/14/2017 6:11	19.04	104.5	7.41	9.1	SR4	3/14/2017 12:11	19.06	101.9	7.23	7.6	SR4	3/14/2017 18:11	19.04	105.8	7.50	7.6
SR4	3/14/2017 0:16	19.11	101.2	7.18	8.7	SR4	3/14/2017 6:16	19.04	104.8	7.43	6.6	SR4	3/14/2017 12:16	19.05	103.8	7.36	8.6	SR4	3/14/2017 18:16	19.04	103.9	7.37	9.1
SR4	3/14/2017 0:21	19.11	101.8	7.22	9.7	SR4	3/14/2017 6:21	19.03	106.0	7.52	7.4	SR4	3/14/2017 12:21	19.04	100.7	7.14	7.1	SR4	3/14/2017 18:21	19.03	103.9	7.37	8.6
SR4	3/14/2017 0:26	19.11	105.5	7.48	9.1	SR4	3/14/2017 6:26	19.03	102.8	7.29	8.1	SR4	3/14/2017 12:26	19.02	103.4	7.33	8.4	SR4	3/14/2017 18:26	19.04	102.6	7.28	9.5
SR4	3/14/2017 0:31	19.12	103.9	7.37	9.6	SR4	3/14/2017 6:31	19.04	102.5	7.27	7.9	SR4	3/14/2017 12:31	19.02	104.3	7.40	8.2	SR4	3/14/2017 18:31	19.02	104.9	7.44	6.7
SR4	3/14/2017 0:36	19.05	105.5	7.48	6.9	SR4	3/14/2017 6:36	19.05	100.7	7.14	8.6	SR4	3/14/2017 12:36	19.02	106.9	7.58	8.9	SR4	3/14/2017 18:36	18.99	103.1	7.31	9.8
SR4	3/14/2017 0:41	19.06	106.2	7.53	7.6	SR4	3/14/2017 6:41	19.04	104.2	7.39	7.4	SR4	3/14/2017 12:41	19.01	100.1	7.10	8.4	SR4	3/14/2017 18:41	19.02	100.4	7.12	7.5
SR4	3/14/2017 0:46	19.02	101.0	7.16	9.8	SR4	3/14/2017 6:46	19.04	103.6	7.35	9.1	SR4	3/14/2017 12:46	19.01	101.7	7.21	9.1	SR4	3/14/2017 18:46	19.00	106.2	7.53	9.6
SR4	3/14/2017 0:51	19.04	100.7	7.14	8.9	SR4	3/14/2017 6:51	19.03	103.5	7.34	6.9	SR4	3/14/2017 12:51	19.01	105.0	7.45	9.2	SR4	3/14/2017 18:51	18.99	106.5	7.55	7.1
SR4	3/14/2017 0:56	19.07	104.8	7.43	8.3	SR4	3/14/2017 6:56	19.02	102.8	7.29	8.7	SR4	3/14/2017 12:56	19.00	106.6	7.56	7.0	SR4	3/14/2017 18:56	18.98	104.6	7.42	7.8
SR4	3/14/2017 1:01	19.05	100.5	7.13	8.8	SR4	3/14/2017 7:01	19.02	101.5	7.20	9.4	SR4	3/14/2017 13:01	19.00	104.6	7.42	9.3	SR4	3/14/2017 19:01	18.98	100.4	7.12	7.7
SR4	3/14/2017 1:06	19.06	106.2	7.53	9.3	SR4	3/14/2017 7:06	19.01	100.8	7.15	7.8	SR4	3/14/2017 13:06	19.00	104.3	7.40	9.4	SR4	3/14/2017 19:06	18.98	103.5	7.34	7.9
SR4	3/14/2017 1:11	19.04	101.9	7.23	9.7	SR4	3/14/2017 7:11	19.00	100.5	7.13	8.9	SR4	3/14/2017 13:11	19.00	107.2	7.60	9.2	SR4	3/14/2017 19:11	18.97	102.9	7.30	8.2
SR4	3/14/2017 1:16	19.03	103.1	7.31	8.3	SR4	3/14/2017 7:16	19.00	102.4	7.26	7.2	SR4	3/14/2017 13:16	19.00	100.5	7.13	7.8	SR4	3/14/2017 19:16	18.96	101.1	7.17	9.6
SR4	3/14/2017 1:21	19.02	105.6	7.49	8.4	SR4	3/14/2017 7:21	19.01	104.9	7.44	6.8	SR4	3/14/2017 13:21	19.00	105.9	7.51	8.2	SR4	3/14/2017 19:21	18.96	100.7	7.14	9.7
SR4	3/14/2017 1:26	19.01	105.0	7.45	8.6	SR4	3/14/2017 7:26	19.00	105.3	7.47	8.8	SR4	3/14/2017 13:26	19.00	104.1	7.38	6.6	SR4	3/14/2017 19:26	18.96	100.1	7.10	7.9
SR4	3/14/2017 1:31	19.04	105.6	7.49	8.2	SR4	3/14/2017 7:31	18.99	106.5	7.55	8.4	SR4	3/14/2017 13:31	19.01	102.8	7.29	8.4	SR4	3/14/2017 19:31	18.96	105.9	7.51	6.8
SR4	3/14/2017 1:36	19.05	105.2	7.46	8.9	SR4	3/14/2017 7:36	18.99	106.0	7.52	7.2	SR4	3/14/2017 13:36	19.01	100.5	7.13	8.4	SR4	3/14/2017 19:36	18.96	104.5	7.41	9.1
SR4	3/14/2017 1:41	19.05	103.2	7.32	6.9	SR4	3/14/2017 7:41	18.99	104.3	7.40	8.3	SR4	3/14/2017 13:41	19.01	102.4	7.26	7.9	SR4	3/14/2017 19:41	18.95	100.7	7.14	9.0
SR4	3/14/2017 1:46	19.04	106.2	7.53	9.7	SR4	3/14/2017 7:46	19.00	107.0	7.59	6.9	SR4	3/14/2017 13:46	19.01	100.8	7.15	7.5	SR4	3/14/2017 19:46	18.96	106.5	7.55	9.6
SR4	3/14/2017 1:51	19.03	102.6	7.28	8.2	SR4	3/14/2017 7:51	18.99	101.9	7.23	7.8	SR4	3/14/2017 13:51	19.01	100.5	7.13	7.9	SR4	3/14/2017 19:51	18.96	105.9	7.51	6.7
SR4	3/14/2017 1:56	19.02	106.0	7.52	7.9	SR4	3/14/2017 7:56	18.99	101.9	7.23	7.1	SR4	3/14/2017 13:56	19.01	106.7	7.57	6.9	SR4	3/14/2017 19:56	18.99	102.8	7.29	7.4
SR4	3/14/2017 2:01	19.01	106.2	7.53	9.4	SR4	3/14/2017 8:01	18.99	100.3	7.11	8.3	SR4	3/14/2017 14:01	19.01	106.5	7.55	9.4	SR4	3/14/2017 20:01	18.95	106.0	7.52	9.5
SR4	3/14/2017 2:06	18.98	106.7	7.57	6.7	SR4	3/14/2017 8:06	19.01	101.9	7.23	9.2	SR4	3/14/2017 14:06	19.01	104.2	7.39	7.0	SR4	3/14/2017 20:06	18.97	105.9	7.51	7.2
SR4	3/14/2017 2:11	18.98	100.7	7.14	7.4	SR4	3/14/2017 8:11	19.02	106.5	7.55	7.8	SR4	3/14/2017 14:11	18.97	106.0	7.52	9.5	SR4	3/14/2017 20:11	18.98	101.5	7.20	9.3
SR4	3/14/2017 2:16	18.98	105.3	7.47	6.9	SR4	3/14/2017 8:16	19.02	100.8	7.15	8.0	SR4	3/14/2017 14:16	18.96	107.2	7.60	9.0	SR4	3/14/2017 20:16	18.98	101.4	7.19	9.5
SR4	3/14/2017 2:21	18.99	106.6	7.56	7.9	SR4	3/14/2017 8:21	19.03	103.1	7.31	9.8	SR4	3/14/2017 14:21	18.97	100.7	7.14	9.1	SR4	3/14/2017 20:21	18.98	106.6	7.56	6.8
SR4	3/14/2017 2:26	18.99	101.2	7.18	8.5	SR4	3/14/2017 8:26	19.03	102.9	7.30	7.9	SR4	3/14/2017 14:26	18.96	100.4	7.12	8.6	SR4	3/14/2017 20:26	18.99	102.5	7.27	7.7
SR4	3/14/2017 2:31	18.98	105.3	7.47	6.7	SR4	3/14/2017 8:31	19.02	101.9	7.23	7.7	SR4	3/14/2017 14:31	18.97	105.6	7.49	7.3	SR4	3/14/2017 20:31	18.99	102.5	7.27	7.1
SR4	3/14/2017 2:36	19.00	101.2	7.18	8.2	SR4	3/14/2017 8:36	19.02	100.8	7.15	7.2	SR4	3/14/2017 14:36	18.96	100.1	7.10	9.8	SR4	3/14/2017 20:36	19.00	105.0	7.45	8.2
SR4	3/14/2017 2:41	18.98	105.2	7.46	8.4	SR4	3/14/2017 8:41	19.01	107.0	7.59	7.9	SR4	3/14/2017 14:41	18.97	104.8	7.43	9.5	SR4	3/14/2017 20:41	18.96	104.1	7.38	9.4
SR4	3/14/2017 2:46	19.00	101.9	7.23	7.6	SR4	3/14/2017 8:46	19.01	106.6	7.56	6.6	SR4	3/14/2017 14:46	18.97	106.9	7.58	8.9	SR4	3/14/2017 20:46	18.98	103.1	7.31	7.1
SR4	3/14/2017 2:51	19.02	102.8	7.29	8.2	SR4	3/14/2017 8:51	19.01	104.1	7.38	7.9	SR4	3/14/2017 14:51	18.96	105.5	7.48	9.2	SR4	3/14/2017 20:51	18.97	105.0	7.45	6.9
SR4	3/14/2017 2:56	19.01	100.4	7.12	7.3	SR4	3/14/2017 8:56	19.01	102.2	7.25	7.0	SR4	3/14/2017 14:56	18.94	100.4	7.12	7.9	SR4	3/14/2017 20:56	18.92	103.6	7.35	6.8
SR4	3/14/2017 3:01	18.99	104.2	7.39	8.9	SR4	3/14/2017 9:01	19.01	104.9	7.44	8.8	SR4	3/14/2017 15:01	18.93	101.4	7.19	6.7	SR4	3/14/2017 21:01	18.92	105.2	7.46	9.5
SR4	3/14/2017 3:06	19.00	102.5	7.27	9.8	SR4	3/14/2017 9:06	19.01	106.3	7.54	8.8	SR4	3/14/2017 15:06	18.92	102.5	7.27	8.3	SR4	3/14/2017 21:06	18.91	103.4	7.33	8.3
SR4	3/14/2017 3:11	19.03	103.5	7.34	9.6	SR4	3/14/2017 9:11	19.02	101.2	7.18	8.7	SR4	3/14/2017 15:11	18.92	104.5	7.41	9.0	SR4	3/14/2017 21:11	18.91	104.2	7.39	8.7
SR4	3/14/2017 3:16	19.02	101.9	7.23	6.6	SR4	3/14/2017 9:16	19.02	106.3	7.54	7.3	SR4	3/14/2017 15:16	18.92	102.6	7.28	7.8	SR4	3/14/2017 21:16	18.93	106.6	7.56	8.7
SR4	3/14/2017 3:21	18.97	105.0	7.45	7.6	SR4	3/14/2017 9:21	19.01	101.9	7.23	8.2	SR4	3/14/2017 15:21	18.92	102.9	7.30	6.6	SR4	3/14/2017 21:21	18.91	103.6	7.35	8.5
SR4	3/14/2017 3:26	18.98	101.5	7.20	8.4	SR4	3/14/2017 9:26	19.02	106.7	7.57	7.6	SR4	3/14/2017 15:26	18.91	107.2	7.60	9.3	SR4	3/14/2017 21:26	18.91	106.5	7.55	7.5
SR4	3/14/2017 3:31	19.01	107.0	7.59	6.8	SR4	3/14/2017 9:31	19.02	104.2	7.39	9.3	SR4	3/14/2017 15:31	18.94	101.5	7.20	7.6	SR4	3/14/2017 21:31	18.90	102.2	7.25	8.1
SR4	3/14/2017 3:36	19.00	103.5	7.34	7.8	SR4	3/14/2017 9:36	19.02	106.9	7.58	9.6	SR4	3/14/2017 15:36	18.94	105.0	7.45	7.5	SR4	3/14/2017 21:36	18.92	101.2	7.18	9.4
SR4	3/14/2017 3:41	19.01	100.3	7.11	8.9	SR4	3/14/2017 9:41	19.02	106.9	7.58	6.6	SR4	3/14/2017 15:41	18.94	102.8	7.29	8.2	SR4	3/14/2017 21:41	18.91	101.2	7.18	8.1
SR4	3/14/2017 3:46	19.00	104.2	7.39	8.3	SR4	3/14/2017 9:46	19.02	105.0	7.45	7.8	SR4	3/14/2017 15:46	18.93	105.6	7.49	8.2	SR4	3/14/2017 21:46	18.90	106.7	7.57	6.8
SR4	3/14/2017 3:51	18.99	101.7	7.21	7.8	SR4	3/14/2017 9:51	19.02	104.9	7.44	7.8	SR4	3/14/2017 15:51	18.93	101.1	7.17	8.1						

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR5	3/14/2017 0:00	19.46	106.8	7.52	3.7	SR5	3/14/2017 6:00	19.41	105.4	7.42	3.2	SR5	3/14/2017 12:00	19.57	108.2	7.62	3.2	SR5	3/14/2017 18:00	19.55	107.8	7.59	3.5
SR5	3/14/2017 0:05	19.41	105.1	7.40	3.1	SR5	3/14/2017 6:05	19.44	107.5	7.57	2.2	SR5	3/14/2017 12:05	19.57	104.8	7.38	3.9	SR5	3/14/2017 18:05	19.55	105.1	7.40	4.1
SR5	3/14/2017 0:10	19.44	108.9	7.67	3.9	SR5	3/14/2017 6:10	19.46	107.9	7.60	4.3	SR5	3/14/2017 12:10	19.56	105.5	7.43	3.6	SR5	3/14/2017 18:10	19.56	106.9	7.53	2.8
SR5	3/14/2017 0:15	19.46	105.9	7.46	1.9	SR5	3/14/2017 6:15	19.45	105.1	7.40	2.5	SR5	3/14/2017 12:15	19.56	105.8	7.45	2.1	SR5	3/14/2017 18:15	19.56	107.4	7.56	2.1
SR5	3/14/2017 0:20	19.46	106.8	7.52	1.9	SR5	3/14/2017 6:20	19.44	106.2	7.48	3.3	SR5	3/14/2017 12:20	19.55	107.2	7.55	4.3	SR5	3/14/2017 18:20	19.55	106.5	7.50	3.0
SR5	3/14/2017 0:25	19.39	106.9	7.53	3.1	SR5	3/14/2017 6:25	19.43	108.8	7.66	4.2	SR5	3/14/2017 12:25	19.53	109.3	7.70	4.6	SR5	3/14/2017 18:25	19.56	109.3	7.70	4.0
SR5	3/14/2017 0:30	19.40	105.2	7.41	4.9	SR5	3/14/2017 6:30	19.44	106.8	7.52	3.8	SR5	3/14/2017 12:30	19.54	105.2	7.41	4.0	SR5	3/14/2017 18:30	19.54	105.1	7.40	3.9
SR5	3/14/2017 0:35	19.37	109.3	7.70	2.2	SR5	3/14/2017 6:35	19.45	105.8	7.45	2.6	SR5	3/14/2017 12:35	19.53	106.9	7.53	3.9	SR5	3/14/2017 18:35	19.51	105.2	7.41	3.8
SR5	3/14/2017 0:40	19.40	105.4	7.42	3.9	SR5	3/14/2017 6:40	19.46	107.2	7.55	4.8	SR5	3/14/2017 12:40	19.53	107.8	7.59	3.1	SR5	3/14/2017 18:40	19.54	108.3	7.63	3.7
SR5	3/14/2017 0:45	19.40	108.2	7.62	3.4	SR5	3/14/2017 6:45	19.46	106.6	7.51	3.6	SR5	3/14/2017 12:45	19.53	108.9	7.67	3.7	SR5	3/14/2017 18:45	19.52	107.2	7.55	2.9
SR5	3/14/2017 0:50	19.41	105.2	7.41	1.9	SR5	3/14/2017 6:50	19.46	107.2	7.55	4.3	SR5	3/14/2017 12:50	19.52	105.2	7.41	4.2	SR5	3/14/2017 18:50	19.51	109.3	7.70	2.3
SR5	3/14/2017 0:55	19.44	109.2	7.69	4.8	SR5	3/14/2017 6:55	19.45	105.6	7.44	3.6	SR5	3/14/2017 12:55	19.52	106.6	7.51	4.2	SR5	3/14/2017 18:55	19.50	108.9	7.67	3.5
SR5	3/14/2017 1:00	19.43	108.1	7.61	4.9	SR5	3/14/2017 7:00	19.43	109.1	7.68	2.0	SR5	3/14/2017 13:00	19.52	105.8	7.45	2.8	SR5	3/14/2017 19:00	19.50	106.2	7.48	4.4
SR5	3/14/2017 1:05	19.45	107.9	7.60	4.0	SR5	3/14/2017 7:05	19.45	107.9	7.60	2.6	SR5	3/14/2017 13:05	19.52	105.4	7.42	3.4	SR5	3/14/2017 19:05	19.50	104.8	7.38	3.1
SR5	3/14/2017 1:10	19.44	106.2	7.48	2.6	SR5	3/14/2017 7:10	19.43	108.9	7.67	4.0	SR5	3/14/2017 13:10	19.52	107.2	7.55	3.7	SR5	3/14/2017 19:10	19.49	105.6	7.44	4.0
SR5	3/14/2017 1:15	19.42	104.9	7.39	3.9	SR5	3/14/2017 7:15	19.44	109.1	7.68	2.8	SR5	3/14/2017 13:15	19.52	104.9	7.39	2.9	SR5	3/14/2017 19:15	19.48	107.4	7.56	3.7
SR5	3/14/2017 1:20	19.42	107.1	7.54	3.9	SR5	3/14/2017 7:20	19.44	105.6	7.44	2.9	SR5	3/14/2017 13:20	19.52	108.9	7.67	3.9	SR5	3/14/2017 19:20	19.48	109.2	7.69	3.4
SR5	3/14/2017 1:25	19.41	109.2	7.69	4.0	SR5	3/14/2017 7:25	19.45	108.6	7.65	4.6	SR5	3/14/2017 13:25	19.52	108.5	7.64	3.7	SR5	3/14/2017 19:25	19.48	108.1	7.61	1.9
SR5	3/14/2017 1:30	19.44	107.9	7.60	2.4	SR5	3/14/2017 7:30	19.45	108.2	7.62	4.0	SR5	3/14/2017 13:30	19.52	105.5	7.43	4.4	SR5	3/14/2017 19:30	19.48	105.9	7.46	3.8
SR5	3/14/2017 1:35	19.44	107.8	7.59	4.7	SR5	3/14/2017 7:35	19.45	105.4	7.42	4.0	SR5	3/14/2017 13:35	19.53	106.4	7.49	3.1	SR5	3/14/2017 19:35	19.48	108.3	7.63	2.5
SR5	3/14/2017 1:40	19.43	107.6	7.58	3.8	SR5	3/14/2017 7:40	19.46	105.8	7.45	2.3	SR5	3/14/2017 13:40	19.53	106.2	7.48	3.2	SR5	3/14/2017 19:40	19.47	105.5	7.43	3.6
SR5	3/14/2017 1:45	19.42	106.8	7.52	3.6	SR5	3/14/2017 7:45	19.46	107.4	7.56	2.4	SR5	3/14/2017 13:45	19.53	105.4	7.42	2.4	SR5	3/14/2017 19:45	19.48	108.6	7.65	2.6
SR5	3/14/2017 1:50	19.40	106.4	7.49	4.1	SR5	3/14/2017 7:50	19.46	104.9	7.39	3.3	SR5	3/14/2017 13:50	19.53	105.5	7.43	2.6	SR5	3/14/2017 19:50	19.48	107.5	7.57	3.2
SR5	3/14/2017 1:55	19.39	106.6	7.51	2.2	SR5	3/14/2017 7:55	19.47	105.4	7.42	3.3	SR5	3/14/2017 13:55	19.53	106.6	7.51	2.2	SR5	3/14/2017 19:55	19.51	108.6	7.65	2.7
SR5	3/14/2017 2:00	19.38	108.5	7.64	4.9	SR5	3/14/2017 8:00	19.47	107.9	7.60	3.5	SR5	3/14/2017 14:00	19.53	108.8	7.66	2.5	SR5	3/14/2017 20:00	19.47	104.8	7.38	3.0
SR5	3/14/2017 2:05	19.38	107.9	7.60	2.2	SR5	3/14/2017 8:05	19.49	107.4	7.56	3.8	SR5	3/14/2017 14:05	19.54	105.9	7.46	4.8	SR5	3/14/2017 20:05	19.49	107.5	7.57	4.4
SR5	3/14/2017 2:10	19.36	108.1	7.61	3.4	SR5	3/14/2017 8:10	19.50	108.3	7.63	2.2	SR5	3/14/2017 14:10	19.50	105.4	7.42	2.5	SR5	3/14/2017 20:10	19.50	105.2	7.41	4.7
SR5	3/14/2017 2:15	19.37	105.1	7.40	3.3	SR5	3/14/2017 8:15	19.51	108.6	7.65	2.8	SR5	3/14/2017 14:15	19.49	105.6	7.44	4.2	SR5	3/14/2017 20:15	19.50	108.3	7.63	4.0
SR5	3/14/2017 2:20	19.39	105.4	7.42	4.3	SR5	3/14/2017 8:20	19.50	108.2	7.62	2.0	SR5	3/14/2017 14:20	19.50	106.4	7.49	3.3	SR5	3/14/2017 20:20	19.50	107.5	7.57	4.4
SR5	3/14/2017 2:25	19.38	108.5	7.64	3.1	SR5	3/14/2017 8:25	19.51	105.5	7.43	2.1	SR5	3/14/2017 14:25	19.50	105.2	7.41	4.0	SR5	3/14/2017 20:25	19.51	105.5	7.43	4.0
SR5	3/14/2017 2:30	19.36	106.2	7.48	3.5	SR5	3/14/2017 8:30	19.50	104.9	7.39	2.2	SR5	3/14/2017 14:30	19.50	106.8	7.52	4.4	SR5	3/14/2017 20:30	19.51	105.6	7.44	3.0
SR5	3/14/2017 2:35	19.40	106.8	7.52	2.7	SR5	3/14/2017 8:35	19.49	107.9	7.60	2.7	SR5	3/14/2017 14:35	19.49	107.4	7.56	2.6	SR5	3/14/2017 20:35	19.52	108.1	7.61	4.2
SR5	3/14/2017 2:40	19.37	105.1	7.40	3.9	SR5	3/14/2017 8:40	19.51	108.1	7.61	2.6	SR5	3/14/2017 14:40	19.50	105.5	7.43	4.4	SR5	3/14/2017 20:40	19.48	108.1	7.61	4.9
SR5	3/14/2017 2:45	19.38	107.2	7.55	4.2	SR5	3/14/2017 8:45	19.52	106.5	7.50	3.1	SR5	3/14/2017 14:45	19.51	105.5	7.43	4.0	SR5	3/14/2017 20:45	19.50	106.9	7.53	4.0
SR5	3/14/2017 2:50	19.42	108.3	7.63	3.1	SR5	3/14/2017 8:50	19.52	104.8	7.38	2.7	SR5	3/14/2017 14:50	19.49	106.9	7.53	3.0	SR5	3/14/2017 20:50	19.49	107.6	7.58	2.3
SR5	3/14/2017 2:55	19.40	108.9	7.67	2.9	SR5	3/14/2017 8:55	19.51	105.1	7.40	4.2	SR5	3/14/2017 14:55	19.48	106.6	7.51	2.9	SR5	3/14/2017 20:55	19.44	107.4	7.56	3.9
SR5	3/14/2017 3:00	19.38	106.4	7.49	2.8	SR5	3/14/2017 9:00	19.52	107.4	7.56	3.2	SR5	3/14/2017 15:00	19.47	108.2	7.62	4.3	SR5	3/14/2017 21:00	19.44	107.4	7.56	3.2
SR5	3/14/2017 3:05	19.40	104.9	7.39	2.8	SR5	3/14/2017 9:05	19.50	106.2	7.48	3.9	SR5	3/14/2017 15:05	19.47	106.5	7.50	2.6	SR5	3/14/2017 21:05	19.43	105.2	7.41	4.4
SR5	3/14/2017 3:10	19.41	105.4	7.42	2.0	SR5	3/14/2017 9:10	19.49	109.3	7.70	3.8	SR5	3/14/2017 15:10	19.46	106.5	7.50	4.5	SR5	3/14/2017 21:10	19.43	106.2	7.48	3.7
SR5	3/14/2017 3:15	19.31	107.5	7.57	2.0	SR5	3/14/2017 9:15	19.49	108.8	7.66	3.5	SR5	3/14/2017 15:15	19.48	106.5	7.50	4.8	SR5	3/14/2017 21:15	19.45	106.2	7.48	3.3
SR5	3/14/2017 3:20	19.29	107.9	7.60	3.7	SR5	3/14/2017 9:20	19.50	108.3	7.63	2.7	SR5	3/14/2017 15:20	19.47	107.5	7.57	2.3	SR5	3/14/2017 21:20	19.43	106.8	7.52	2.6
SR5	3/14/2017 3:25	19.33	105.8	7.45	4.1	SR5	3/14/2017 9:25	19.50	105.8	7.45	4.1	SR5	3/14/2017 15:25	19.47	107.6	7.58	1.9	SR5	3/14/2017 21:25	19.43	105.8	7.45	2.7
SR5	3/14/2017 3:30	19.39	107.8	7.59	4.2	SR5	3/14/2017 9:30	19.50	108.3	7.63	2.4	SR5	3/14/2017 15:30	19.46	105.4	7.42	3.0	SR5	3/14/2017 21:30	19.42	108.8	7.66	3.7
SR5	3/14/2017 3:35	19.37	105.6	7.44	4.7	SR5	3/14/2017 9:35	19.49	106.4	7.49	1.9	SR5	3/14/2017 15:35	19.46	107.1	7.54	3.3	SR5	3/14/2017 21:35	19.44	106.8	7.52	4.1
SR5	3/14/2017 3:40	19.40	108.9	7.67	3.0	SR5	3/14/2017 9:40	19.49	109.2	7.69	2.9	SR5	3/14/2017 15:40	19.46	107.9	7.60	4.3	SR5	3/14/2017 21:40	19.43	109.3	7.70	3.6
SR5	3/14/2017 3:45	19.40	105.2	7.41	4.2	SR5	3/14/2017 9:45	19.49	109.3	7.70	4.2	SR5	3/14/2017 15:45	19.45	104.9	7.39	3.6	SR5	3/14/2017 21:45	19.42	104.9	7.39	4.0
SR5	3/14/2017 3:50	19.39	107.9	7.60	2.4	SR5	3/14/2017 9:50	19.49	105.1	7.40	3.5	SR5	3/14/2017 15:50	19.45									

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR12	3/14/2017 0:01	19.07	125.9	8.51	5.1	SR12	3/14/2017 6:01	18.94	125.9	8.51	7.6	SR12	3/14/2017 12:01	19.03	121.8	8.23	7.5	SR12	3/14/2017 18:01	18.98	126.2	8.53	6.1
SR12	3/14/2017 0:06	19.07	128.5	8.68	4.8	SR12	3/14/2017 6:06	18.94	124.8	8.43	7.0	SR12	3/14/2017 12:06	19.03	123.6	8.35	3.9	SR12	3/14/2017 18:06	18.98	123.9	8.37	7.5
SR12	3/14/2017 0:11	19.07	127.9	8.64	5.3	SR12	3/14/2017 6:11	18.94	127.7	8.63	6.4	SR12	3/14/2017 12:11	19.03	125.2	8.46	8.6	SR12	3/14/2017 18:11	18.98	124.0	8.38	5.5
SR12	3/14/2017 0:16	19.07	123.1	8.32	5.7	SR12	3/14/2017 6:16	18.95	124.0	8.38	6.9	SR12	3/14/2017 12:16	19.03	128.0	8.65	4.3	SR12	3/14/2017 18:16	18.98	127.4	8.61	7.7
SR12	3/14/2017 0:21	19.07	123.0	8.31	8.5	SR12	3/14/2017 6:21	18.95	124.8	8.43	6.2	SR12	3/14/2017 12:21	19.03	121.8	8.23	5.6	SR12	3/14/2017 18:21	18.98	122.0	8.24	5.3
SR12	3/14/2017 0:26	19.07	121.8	8.23	6.7	SR12	3/14/2017 6:26	18.95	129.9	8.78	4.2	SR12	3/14/2017 12:26	19.03	129.1	8.72	4.4	SR12	3/14/2017 18:26	18.98	127.1	8.59	8.7
SR12	3/14/2017 0:31	19.07	125.7	8.49	4.8	SR12	3/14/2017 6:31	18.96	127.9	8.64	4.5	SR12	3/14/2017 12:31	19.03	129.1	8.72	6.5	SR12	3/14/2017 18:31	18.98	124.8	8.43	5.2
SR12	3/14/2017 0:36	19.07	122.7	8.29	3.6	SR12	3/14/2017 6:36	18.96	124.2	8.39	6.2	SR12	3/14/2017 12:36	19.03	127.3	8.60	4.7	SR12	3/14/2017 18:36	18.97	121.7	8.22	5.1
SR12	3/14/2017 0:41	19.07	126.4	8.54	8.3	SR12	3/14/2017 6:41	18.96	120.5	8.14	8.0	SR12	3/14/2017 12:41	19.03	120.6	8.15	5.9	SR12	3/14/2017 18:41	18.97	120.2	8.12	7.4
SR12	3/14/2017 0:46	19.07	120.5	8.14	5.5	SR12	3/14/2017 6:46	18.96	120.5	8.14	4.8	SR12	3/14/2017 12:46	19.03	120.8	8.16	8.1	SR12	3/14/2017 18:46	18.97	121.7	8.22	6.9
SR12	3/14/2017 0:51	19.06	129.4	8.74	7.3	SR12	3/14/2017 6:51	18.97	121.2	8.19	4.5	SR12	3/14/2017 12:51	19.02	128.6	8.69	7.8	SR12	3/14/2017 18:51	18.98	126.4	8.54	5.5
SR12	3/14/2017 0:56	19.06	127.0	8.58	5.7	SR12	3/14/2017 6:56	18.97	126.1	8.52	8.8	SR12	3/14/2017 12:56	19.02	124.3	8.40	8.6	SR12	3/14/2017 18:56	18.97	122.4	8.27	7.3
SR12	3/14/2017 1:01	19.05	124.3	8.40	7.1	SR12	3/14/2017 7:01	18.97	122.1	8.25	4.9	SR12	3/14/2017 13:01	19.02	120.2	8.12	4.3	SR12	3/14/2017 19:01	18.97	120.8	8.16	6.4
SR12	3/14/2017 1:06	19.05	127.0	8.58	8.4	SR12	3/14/2017 7:06	18.97	123.6	8.35	6.8	SR12	3/14/2017 13:06	19.02	120.6	8.15	3.8	SR12	3/14/2017 19:06	18.96	122.8	8.30	6.6
SR12	3/14/2017 1:11	19.05	124.6	8.42	6.6	SR12	3/14/2017 7:11	18.97	125.7	8.49	7.6	SR12	3/14/2017 13:11	19.02	126.5	8.55	4.7	SR12	3/14/2017 19:11	18.97	129.9	8.78	5.0
SR12	3/14/2017 1:16	19.04	123.0	8.31	6.4	SR12	3/14/2017 7:16	18.98	127.7	8.63	7.7	SR12	3/14/2017 13:16	19.01	123.9	8.37	3.9	SR12	3/14/2017 19:16	18.94	125.1	8.45	6.5
SR12	3/14/2017 1:21	19.04	129.8	8.77	6.3	SR12	3/14/2017 7:21	18.98	126.2	8.53	4.8	SR12	3/14/2017 13:21	19.01	128.6	8.69	7.4	SR12	3/14/2017 19:21	18.93	130.1	8.79	7.5
SR12	3/14/2017 1:26	19.04	127.7	8.63	7.2	SR12	3/14/2017 7:26	18.98	119.9	8.10	6.2	SR12	3/14/2017 13:26	19.00	126.8	8.57	5.3	SR12	3/14/2017 19:26	18.92	127.6	8.62	5.9
SR12	3/14/2017 1:31	19.03	126.7	8.56	6.6	SR12	3/14/2017 7:31	18.98	124.9	8.44	6.6	SR12	3/14/2017 13:31	19.00	123.4	8.34	4.1	SR12	3/14/2017 19:31	18.91	127.3	8.60	7.3
SR12	3/14/2017 1:36	19.03	125.5	8.48	4.7	SR12	3/14/2017 7:36	18.98	124.0	8.38	5.1	SR12	3/14/2017 13:36	19.00	124.3	8.40	3.5	SR12	3/14/2017 19:36	18.91	120.3	8.13	6.6
SR12	3/14/2017 1:41	19.03	126.5	8.55	6.8	SR12	3/14/2017 7:41	18.98	127.4	8.61	8.6	SR12	3/14/2017 13:41	19.00	128.3	8.67	4.8	SR12	3/14/2017 19:41	18.90	130.1	8.79	8.8
SR12	3/14/2017 1:46	19.02	127.3	8.60	5.3	SR12	3/14/2017 7:46	18.98	126.2	8.53	6.5	SR12	3/14/2017 13:46	19.00	123.0	8.31	3.5	SR12	3/14/2017 19:46	18.90	129.1	8.72	6.6
SR12	3/14/2017 1:51	19.02	120.8	8.16	5.0	SR12	3/14/2017 7:51	18.98	123.3	8.33	3.6	SR12	3/14/2017 13:51	19.00	122.2	8.26	8.6	SR12	3/14/2017 19:51	18.90	120.0	8.11	4.1
SR12	3/14/2017 1:56	19.02	120.2	8.12	7.3	SR12	3/14/2017 7:56	18.98	121.1	8.18	8.1	SR12	3/14/2017 13:56	18.99	121.8	8.23	6.5	SR12	3/14/2017 19:56	18.90	130.1	8.79	5.2
SR12	3/14/2017 2:01	19.01	126.2	8.53	5.5	SR12	3/14/2017 8:01	18.98	128.6	8.69	6.0	SR12	3/14/2017 14:01	18.99	123.1	8.32	5.7	SR12	3/14/2017 20:01	18.90	129.1	8.72	5.8
SR12	3/14/2017 2:06	19.01	128.8	8.70	7.3	SR12	3/14/2017 8:06	18.98	125.9	8.51	6.9	SR12	3/14/2017 14:06	18.99	122.4	8.27	6.1	SR12	3/14/2017 20:06	18.89	122.1	8.25	5.9
SR12	3/14/2017 2:11	19.01	125.2	8.46	8.7	SR12	3/14/2017 8:11	18.98	126.1	8.52	4.3	SR12	3/14/2017 14:11	18.99	125.4	8.47	6.0	SR12	3/14/2017 20:11	18.90	126.2	8.53	5.2
SR12	3/14/2017 2:16	19.00	121.1	8.18	5.0	SR12	3/14/2017 8:16	18.99	128.0	8.65	5.8	SR12	3/14/2017 14:16	18.99	128.8	8.70	3.8	SR12	3/14/2017 20:16	18.89	122.2	8.26	5.0
SR12	3/14/2017 2:21	19.00	121.2	8.19	3.8	SR12	3/14/2017 8:21	18.99	127.4	8.61	6.1	SR12	3/14/2017 14:21	18.99	127.0	8.58	5.6	SR12	3/14/2017 20:21	18.89	129.1	8.72	7.2
SR12	3/14/2017 2:26	18.99	121.4	8.20	5.0	SR12	3/14/2017 8:26	18.98	129.1	8.72	6.7	SR12	3/14/2017 14:26	18.98	124.3	8.40	6.7	SR12	3/14/2017 20:26	18.89	123.9	8.37	7.2
SR12	3/14/2017 2:31	18.98	130.1	8.79	3.8	SR12	3/14/2017 8:31	18.99	120.0	8.11	5.3	SR12	3/14/2017 14:31	18.98	123.3	8.33	7.5	SR12	3/14/2017 20:31	18.89	123.9	8.37	7.9
SR12	3/14/2017 2:36	18.98	127.1	8.59	6.6	SR12	3/14/2017 8:36	18.99	126.2	8.53	7.7	SR12	3/14/2017 14:36	18.98	123.6	8.35	8.1	SR12	3/14/2017 20:36	18.89	122.0	8.24	7.6
SR12	3/14/2017 2:41	18.97	129.6	8.76	5.2	SR12	3/14/2017 8:41	18.99	120.6	8.15	7.0	SR12	3/14/2017 14:41	18.97	125.5	8.48	6.1	SR12	3/14/2017 20:41	18.89	124.5	8.41	7.8
SR12	3/14/2017 2:46	18.97	125.8	8.50	8.7	SR12	3/14/2017 8:46	18.99	124.2	8.39	7.6	SR12	3/14/2017 14:46	18.97	129.8	8.77	6.2	SR12	3/14/2017 20:46	18.89	125.1	8.45	7.6
SR12	3/14/2017 2:51	18.97	123.7	8.36	7.0	SR12	3/14/2017 8:51	18.99	125.2	8.46	7.8	SR12	3/14/2017 14:51	18.97	120.8	8.16	8.5	SR12	3/14/2017 20:51	18.89	121.4	8.20	3.7
SR12	3/14/2017 2:56	18.96	123.6	8.35	4.3	SR12	3/14/2017 8:56	18.99	122.4	8.27	6.8	SR12	3/14/2017 14:56	18.97	126.5	8.55	5.3	SR12	3/14/2017 20:56	18.89	123.9	8.37	6.7
SR12	3/14/2017 3:01	18.96	120.8	8.16	3.9	SR12	3/14/2017 9:01	18.99	120.6	8.15	8.1	SR12	3/14/2017 15:01	18.97	123.9	8.37	6.9	SR12	3/14/2017 21:01	18.89	120.8	8.16	5.6
SR12	3/14/2017 3:06	18.96	120.9	8.17	7.4	SR12	3/14/2017 9:06	18.99	126.5	8.55	8.5	SR12	3/14/2017 15:06	18.96	120.8	8.16	7.7	SR12	3/14/2017 21:06	18.88	121.7	8.22	5.3
SR12	3/14/2017 3:11	18.96	123.7	8.36	6.6	SR12	3/14/2017 9:11	18.99	120.2	8.12	8.5	SR12	3/14/2017 15:11	18.97	128.9	8.71	6.1	SR12	3/14/2017 21:11	18.89	124.8	8.43	7.8
SR12	3/14/2017 3:16	18.95	122.0	8.24	5.9	SR12	3/14/2017 9:16	18.99	120.9	8.17	8.6	SR12	3/14/2017 15:16	18.95	128.6	8.69	4.0	SR12	3/14/2017 21:16	18.88	125.2	8.46	8.9
SR12	3/14/2017 3:21	18.95	125.8	8.50	7.4	SR12	3/14/2017 9:21	18.99	126.8	8.57	6.8	SR12	3/14/2017 15:21	18.95	122.7	8.29	8.1	SR12	3/14/2017 21:21	18.87	123.9	8.37	6.3
SR12	3/14/2017 3:26	18.94	122.8	8.30	8.1	SR12	3/14/2017 9:26	18.99	126.7	8.56	8.0	SR12	3/14/2017 15:26	18.94	120.2	8.12	5.1	SR12	3/14/2017 21:26	18.87	126.8	8.57	8.1
SR12	3/14/2017 3:31	18.94	122.4	8.27	3.8	SR12	3/14/2017 9:31	18.99	123.4	8.34	5.8	SR12	3/14/2017 15:31	18.93	127.4	8.61	8.3	SR12	3/14/2017 21:31	18.86	120.2	8.12	6.6
SR12	3/14/2017 3:36	18.94	127.7	8.63	4.4	SR12	3/14/2017 9:36	19.00	123.4	8.34	7.4	SR12	3/14/2017 15:36	18.93	128.0	8.65	7.5	SR12	3/14/2017 21:36	18.86	128.5	8.68	7.0
SR12	3/14/2017 3:41	18.93	122.4	8.27	8.2	SR12	3/14/2017 9:41	19.00	126.8	8.57	5.6	SR12	3/14/2017 15:41	18.92	124.6	8.42	5.6	SR12	3/14/2017 21:41	18.86	129.5	8.75	8.2
SR12	3/14/2017 3:46	18.93	124.0	8.38	3.9	SR12	3/14/2017 9:46	19.00	121.1	8.18	4.7	SR12	3/14/2017 15:46	18.92	126.2	8.53	5.8	SR12	3/14/2017 21:46	18.85	123.0	8.31	4.5
SR																							





24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	3/14/2017 0:17	0.19				SR12	3/14/2017 0:17	0.20			
SR4	3/14/2017 0:37	0.15				SR12	3/14/2017 0:37	0.16			
SR4	3/14/2017 0:57	0.18				SR12	3/14/2017 0:57	0.18			
SR4	3/14/2017 1:17	0.19				SR12	3/14/2017 1:17	0.18			
SR4	3/14/2017 1:37	0.19				SR12	3/14/2017 1:37	0.19			
SR4	3/14/2017 1:57	0.16				SR12	3/14/2017 1:57	0.19			
SR4	3/14/2017 2:17	0.16				SR12	3/14/2017 2:17	0.16			
SR4	3/14/2017 2:37	0.16				SR12	3/14/2017 2:37	0.20			
SR4	3/14/2017 2:57	0.18				SR12	3/14/2017 2:57	0.19			
SR4	3/14/2017 3:17	0.17				SR12	3/14/2017 3:17	0.18			
SR4	3/14/2017 3:37	0.16				SR12	3/14/2017 3:37	0.18			
SR4	3/14/2017 3:57	0.18				SR12	3/14/2017 3:57	0.20			
SR4	3/14/2017 4:17	0.17				SR12	3/14/2017 4:17	0.16			
SR4	3/14/2017 4:37	0.15				SR12	3/14/2017 4:37	0.17			
SR4	3/14/2017 4:57	0.19				SR12	3/14/2017 4:57	0.17			
SR4	3/14/2017 5:17	0.19				SR12	3/14/2017 5:17	0.17			
SR4	3/14/2017 5:37	0.17				SR12	3/14/2017 5:37	0.17			
SR4	3/14/2017 5:57	0.18				SR12	3/14/2017 5:57	0.16			
SR4						SR12					
SR4	3/14/2017 6:37	0.18				SR12	3/14/2017 6:37	0.20			
SR4	3/14/2017 6:57	0.16				SR12	3/14/2017 6:57	0.17			
SR4	3/14/2017 7:17	0.19				SR12	3/14/2017 7:17	0.17			
SR4	3/14/2017 7:37	0.17				SR12	3/14/2017 7:37	0.18			
SR4	3/14/2017 7:57	0.15				SR12	3/14/2017 7:57	0.16			
SR4	3/14/2017 8:17	0.16				SR12	3/14/2017 8:17	0.17			
SR4	3/14/2017 8:37	0.16				SR12	3/14/2017 8:37	0.17			
SR4	3/14/2017 8:57	0.19				SR12	3/14/2017 8:57	0.17			
SR4	3/14/2017 9:17	0.18				SR12	3/14/2017 9:17	0.19			
SR4	3/14/2017 9:37	0.18				SR12	3/14/2017 9:37	0.16			
SR4	3/14/2017 9:57	0.17				SR12	3/14/2017 9:57	0.19			
SR4	3/14/2017 10:17	0.19				SR12	3/14/2017 10:17	0.18			
SR4	3/14/2017 10:37	0.19				SR12	3/14/2017 10:37	0.18			
SR4	3/14/2017 10:57	0.15				SR12	3/14/2017 10:57	0.18			
SR4	3/14/2017 11:17	0.15				SR12	3/14/2017 11:17	0.18			
SR4	3/14/2017 11:37	0.15				SR12	3/14/2017 11:37	0.17			
SR4	3/14/2017 11:57	0.18				SR12	3/14/2017 11:57	0.18			
SR4	3/14/2017 12:17	0.16				SR12	3/14/2017 12:17	0.19			
SR4	3/14/2017 12:37	0.19				SR12	3/14/2017 12:37	0.18			
SR4	3/14/2017 12:57	0.19				SR12	3/14/2017 12:57	0.20			
SR4	3/14/2017 13:17	0.17				SR12	3/14/2017 13:17	0.16			
SR4	3/14/2017 13:37	0.15				SR12	3/14/2017 13:37	0.20			
SR4	3/14/2017 13:57	0.15				SR12	3/14/2017 13:57	0.17			
SR4	3/14/2017 14:17	0.17				SR12	3/14/2017 14:17	0.19			
SR4	3/14/2017 14:37	0.18				SR12	3/14/2017 14:37	0.16			
SR4	3/14/2017 14:57	0.15				SR12	3/14/2017 14:57	0.18			
SR4	3/14/2017 15:17	0.15				SR12	3/14/2017 15:17	0.16			
SR4	3/14/2017 15:37	0.17				SR12	3/14/2017 15:37	0.16			
SR4	3/14/2017 15:57	0.18				SR12	3/14/2017 15:57	0.20			
SR4	3/14/2017 16:17	0.18				SR12	3/14/2017 16:17	0.16			
SR4	3/14/2017 16:37	0.15				SR12	3/14/2017 16:37	0.19			
SR4	3/14/2017 16:57	0.18				SR12	3/14/2017 16:57	0.20			
SR4	3/14/2017 17:17	0.18				SR12	3/14/2017 17:17	0.16			
SR4	3/14/2017 17:37	0.19				SR12	3/14/2017 17:37	0.19			
SR4	3/14/2017 17:57	0.17				SR12	3/14/2017 17:57	0.19			
SR4	3/14/2017 18:17	0.16				SR12	3/14/2017 18:17	0.19			
SR4	3/14/2017 18:37	0.15				SR12	3/14/2017 18:37	0.17			
SR4	3/14/2017 18:57	0.18				SR12	3/14/2017 18:57	0.18			
SR4	3/14/2017 19:17	0.17				SR12	3/14/2017 19:17	0.16			
SR4	3/14/2017 19:37	0.19				SR12	3/14/2017 19:37	0.17			
SR4	3/14/2017 19:57	0.19				SR12	3/14/2017 19:57	0.20			
SR4	3/14/2017 20:17	0.19				SR12	3/14/2017 20:17	0.19			
SR4	3/14/2017 20:37	0.18				SR12	3/14/2017 20:37	0.18			
SR4	3/14/2017 20:57	0.18				SR12	3/14/2017 20:57	0.19			
SR4	3/14/2017 21:17	0.17				SR12	3/14/2017 21:17	0.17			
SR4	3/14/2017 21:37	0.17				SR12	3/14/2017 21:37	0.18			
SR4	3/14/2017 21:57	0.17				SR12	3/14/2017 21:57	0.20			
SR4	3/14/2017 22:17	0.18				SR12	3/14/2017 22:17	0.20			
SR4	3/14/2017 22:37	0.15				SR12	3/14/2017 22:37	0.16			
SR4	3/14/2017 22:57	0.19				SR12	3/14/2017 22:57	0.20			
SR4	3/14/2017 23:17	0.18				SR12	3/14/2017 23:17	0.21			
SR4	3/14/2017 23:37	0.17				SR12	3/14/2017 23:37	0.17			
SR4	3/14/2017 23:57	0.16				SR12	3/14/2017 23:57	0.21			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12.  
SR5 monitoring station was under maintenance during 10:50-11:10.









24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	3/15/2017 0:17	0.19				SR12	3/15/2017 0:17	0.18			
SR4	3/15/2017 0:37	0.17				SR12	3/15/2017 0:37	0.19			
SR4	3/15/2017 0:57	0.18				SR12	3/15/2017 0:57	0.18			
SR4	3/15/2017 1:17	0.19				SR12	3/15/2017 1:17	0.20			
SR4	3/15/2017 1:37	0.18				SR12	3/15/2017 1:37	0.18			
SR4	3/15/2017 1:57	0.19				SR12	3/15/2017 1:57	0.21			
SR4	3/15/2017 2:17	0.17				SR12	3/15/2017 2:17	0.21			
SR4	3/15/2017 2:37	0.20				SR12	3/15/2017 2:37	0.18			
SR4	3/15/2017 2:57	0.17				SR12	3/15/2017 2:57	0.18			
SR4	3/15/2017 3:17	0.18				SR12	3/15/2017 3:17	0.18			
SR4	3/15/2017 3:37	0.17				SR12	3/15/2017 3:37	0.17			
SR4	3/15/2017 3:57	0.18				SR12	3/15/2017 3:57	0.20			
SR4	3/15/2017 4:17	0.20				SR12	3/15/2017 4:17	0.20			
SR4	3/15/2017 4:37	0.16				SR12	3/15/2017 4:37	0.17			
SR4	3/15/2017 4:57	0.16				SR12	3/15/2017 4:57	0.19			
SR4	3/15/2017 5:17	0.20				SR12	3/15/2017 5:17	0.19			
SR4	3/15/2017 5:37	0.16				SR12	3/15/2017 5:37	0.20			
SR4	3/15/2017 5:57	0.18				SR12	3/15/2017 5:57	0.17			
SR4						SR12					
SR4	3/15/2017 6:37	0.17				SR12	3/15/2017 6:37	0.18			
SR4	3/15/2017 6:57	0.18				SR12	3/15/2017 6:57	0.18			
SR4	3/15/2017 7:17	0.16				SR12	3/15/2017 7:17	0.17			
SR4	3/15/2017 7:37	0.19				SR12	3/15/2017 7:37	0.21			
SR4	3/15/2017 7:57	0.16				SR12	3/15/2017 7:57	0.19			
SR4	3/15/2017 8:17	0.19				SR12	3/15/2017 8:17	0.18			
SR4	3/15/2017 8:37	0.20				SR12	3/15/2017 8:37	0.18			
SR4	3/15/2017 8:57	0.20				SR12	3/15/2017 8:57	0.17			
SR4	3/15/2017 9:17	0.16				SR12	3/15/2017 9:17	0.20			
SR4	3/15/2017 9:37	0.16				SR12					
SR4	3/15/2017 9:57	0.16				SR12					
SR4	3/15/2017 10:17	0.18				SR12					
SR4	3/15/2017 10:37	0.19				SR12					
SR4	3/15/2017 10:57	0.18				SR12					
SR4	3/15/2017 11:17	0.17				SR12	3/15/2017 11:17	0.18			
SR4	3/15/2017 11:37	0.20				SR12	3/15/2017 11:37	0.19			
SR4	3/15/2017 11:57	0.17				SR12	3/15/2017 11:57	0.21			
SR4						SR12	3/15/2017 12:17	0.17			
SR4						SR12	3/15/2017 12:37	0.20			
SR4						SR12	3/15/2017 12:57	0.19			
SR4						SR12	3/15/2017 13:17	0.19			
SR4						SR12	3/15/2017 13:37	0.17			
SR4	3/15/2017 13:57	0.17				SR12	3/15/2017 13:57	0.17			
SR4	3/15/2017 14:17	0.17				SR12	3/15/2017 14:17	0.17			
SR4	3/15/2017 14:37	0.16				SR12	3/15/2017 14:37	0.20			
SR4	3/15/2017 14:57	0.18				SR12	3/15/2017 14:57	0.17			
SR4	3/15/2017 15:17	0.19				SR12	3/15/2017 15:17	0.20			
SR4	3/15/2017 15:37	0.20				SR12	3/15/2017 15:37	0.18			
SR4	3/15/2017 15:57	0.20				SR12	3/15/2017 15:57	0.20			
SR4	3/15/2017 16:17	0.20				SR12	3/15/2017 16:17	0.19			
SR4	3/15/2017 16:37	0.16				SR12	3/15/2017 16:37	0.20			
SR4	3/15/2017 16:57	0.17				SR12	3/15/2017 16:57	0.19			
SR4	3/15/2017 17:17	0.19				SR12	3/15/2017 17:17	0.20			
SR4	3/15/2017 17:37	0.18				SR12	3/15/2017 17:37	0.21			
SR4	3/15/2017 17:57	0.19				SR12	3/15/2017 17:57	0.18			
SR4	3/15/2017 18:17	0.16				SR12	3/15/2017 18:17	0.17			
SR4	3/15/2017 18:37	0.17				SR12	3/15/2017 18:37	0.18			
SR4	3/15/2017 18:57	0.20				SR12	3/15/2017 18:57	0.19			
SR4	3/15/2017 19:17	0.16				SR12	3/15/2017 19:17	0.18			
SR4	3/15/2017 19:37	0.17				SR12	3/15/2017 19:37	0.19			
SR4	3/15/2017 19:57	0.19				SR12	3/15/2017 19:57	0.20			
SR4	3/15/2017 20:17	0.16				SR12	3/15/2017 20:17	0.17			
SR4	3/15/2017 20:37	0.18				SR12	3/15/2017 20:37	0.17			
SR4	3/15/2017 20:57	0.18				SR12	3/15/2017 20:57	0.19			
SR4	3/15/2017 21:17	0.18				SR12	3/15/2017 21:17	0.18			
SR4	3/15/2017 21:37	0.16				SR12	3/15/2017 21:37	0.17			
SR4	3/15/2017 21:57	0.19				SR12	3/15/2017 21:57	0.18			
SR4	3/15/2017 22:17	0.18				SR12	3/15/2017 22:17	0.20			
SR4	3/15/2017 22:37	0.18				SR12	3/15/2017 22:37	0.21			
SR4	3/15/2017 22:57	0.17				SR12	3/15/2017 22:57	0.21			
SR4	3/15/2017 23:17	0.17				SR12	3/15/2017 23:17	0.21			
SR4	3/15/2017 23:37	0.18				SR12	3/15/2017 23:37	0.18			
SR4	3/15/2017 23:57	0.17				SR12	3/15/2017 23:57	0.18			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12.

SR4 monitoring station was under maintenance during 12:06-13:26.

SR12 monitoring station was under maintenance during 9:31-10:51.











24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	3/16/2017 0:17	0.17				SR12	3/16/2017 0:17	0.21			
SR4	3/16/2017 0:37	0.20				SR12	3/16/2017 0:37	0.19			
SR4	3/16/2017 0:57	0.16				SR12	3/16/2017 0:57	0.18			
SR4	3/16/2017 1:17	0.17				SR12	3/16/2017 1:17	0.21			
SR4	3/16/2017 1:37	0.20				SR12	3/16/2017 1:37	0.18			
SR4	3/16/2017 1:57	0.18				SR12	3/16/2017 1:57	0.21			
SR4	3/16/2017 2:17	0.20				SR12	3/16/2017 2:17	0.18			
SR4	3/16/2017 2:37	0.18				SR12	3/16/2017 2:37	0.20			
SR4	3/16/2017 2:57	0.17				SR12	3/16/2017 2:57	0.19			
SR4	3/16/2017 3:17	0.17				SR12	3/16/2017 3:17	0.19			
SR4	3/16/2017 3:37	0.18				SR12	3/16/2017 3:37	0.17			
SR4	3/16/2017 3:57	0.18				SR12	3/16/2017 3:57	0.17			
SR4	3/16/2017 4:17	0.19				SR12	3/16/2017 4:17	0.17			
SR4	3/16/2017 4:37	0.19				SR12	3/16/2017 4:37	0.21			
SR4	3/16/2017 4:57	0.18				SR12	3/16/2017 4:57	0.17			
SR4	3/16/2017 5:17	0.19				SR12	3/16/2017 5:17	0.20			
SR4	3/16/2017 5:37	0.19				SR12	3/16/2017 5:37	0.21			
SR4	3/16/2017 5:57	0.18				SR12	3/16/2017 5:57	0.20			
SR4						SR12					
SR4	3/16/2017 6:37	0.20				SR12	3/16/2017 6:37	0.20			
SR4	3/16/2017 6:57	0.20				SR12	3/16/2017 6:57	0.17			
SR4	3/16/2017 7:17	0.19				SR12	3/16/2017 7:17	0.21			
SR4	3/16/2017 7:37	0.18				SR12	3/16/2017 7:37	0.19			
SR4	3/16/2017 7:57	0.18				SR12	3/16/2017 7:57	0.21			
SR4	3/16/2017 8:17	0.16				SR12	3/16/2017 8:17	0.19			
SR4	3/16/2017 8:37	0.16				SR12	3/16/2017 8:37	0.20			
SR4	3/16/2017 8:57	0.20				SR12	3/16/2017 8:57	0.21			
SR4	3/16/2017 9:17	0.20				SR12	3/16/2017 9:17	0.17			
SR4	3/16/2017 9:37	0.18				SR12	3/16/2017 9:37	0.17			
SR4	3/16/2017 9:57	0.17				SR12	3/16/2017 9:57	0.17			
SR4	3/16/2017 10:17	0.19				SR12	3/16/2017 10:17	0.21			
SR4	3/16/2017 10:37	0.16				SR12	3/16/2017 10:37	0.21			
SR4	3/16/2017 10:57	0.20				SR12	3/16/2017 10:57	0.24			
SR4	3/16/2017 11:17	0.19				SR12	3/16/2017 11:17	0.21			
SR4	3/16/2017 11:37	0.19				SR12	3/16/2017 11:37	0.23			
SR4	3/16/2017 11:57	0.18				SR12	3/16/2017 11:57	0.22			
SR4	3/16/2017 12:17	0.20				SR12	3/16/2017 12:17	0.20			
SR4	3/16/2017 12:37	0.19				SR12	3/16/2017 12:37	0.20			
SR4	3/16/2017 12:57	0.19				SR12	3/16/2017 12:57	0.21			
SR4	3/16/2017 13:17	0.17				SR12	3/16/2017 13:17	0.20			
SR4	3/16/2017 13:37	0.19				SR12	3/16/2017 13:37	0.24			
SR4	3/16/2017 13:57	0.16				SR12	3/16/2017 13:57	0.20			
SR4	3/16/2017 14:17	0.20				SR12	3/16/2017 14:17	0.22			
SR4	3/16/2017 14:37	0.17				SR12	3/16/2017 14:37	0.20			
SR4	3/16/2017 14:57	0.19				SR12	3/16/2017 14:57	0.21			
SR4	3/16/2017 15:17	0.20				SR12	3/16/2017 15:17	0.21			
SR4	3/16/2017 15:37	0.17				SR12	3/16/2017 15:37	0.20			
SR4	3/16/2017 15:57	0.18				SR12	3/16/2017 15:57	0.20			
SR4	3/16/2017 16:17	0.19				SR12	3/16/2017 16:17	0.23			
SR4	3/16/2017 16:37	0.18				SR12	3/16/2017 16:37	0.21			
SR4	3/16/2017 16:57	0.20				SR12	3/16/2017 16:57	0.24			
SR4	3/16/2017 17:17	0.17				SR12	3/16/2017 17:17	0.21			
SR4	3/16/2017 17:37	0.16				SR12	3/16/2017 17:37	0.22			
SR4	3/16/2017 17:57	0.17				SR12	3/16/2017 17:57	0.22			
SR4	3/16/2017 18:17	0.17				SR12	3/16/2017 18:17	0.24			
SR4	3/16/2017 18:37	0.18				SR12	3/16/2017 18:37	0.21			
SR4	3/16/2017 18:57	0.16				SR12	3/16/2017 18:57	0.20			
SR4	3/16/2017 19:17	0.18				SR12	3/16/2017 19:17	0.22			
SR4	3/16/2017 19:37	0.19				SR12	3/16/2017 19:37	0.20			
SR4	3/16/2017 19:57	0.18				SR12	3/16/2017 19:57	0.23			
SR4	3/16/2017 20:17	0.17				SR12	3/16/2017 20:17	0.21			
SR4	3/16/2017 20:37	0.16				SR12	3/16/2017 20:37	0.23			
SR4	3/16/2017 20:57	0.19				SR12	3/16/2017 20:57	0.24			
SR4	3/16/2017 21:17	0.16				SR12	3/16/2017 21:17	0.24			
SR4	3/16/2017 21:37	0.19				SR12	3/16/2017 21:37	0.20			
SR4	3/16/2017 21:57	0.20				SR12	3/16/2017 21:57	0.21			
SR4	3/16/2017 22:17	0.19				SR12	3/16/2017 22:17	0.22			
SR4	3/16/2017 22:37	0.17				SR12	3/16/2017 22:37	0.24			
SR4	3/16/2017 22:57	0.20				SR12	3/16/2017 22:57	0.21			
SR4	3/16/2017 23:17	0.18				SR12	3/16/2017 23:17	0.20			
SR4	3/16/2017 23:37	0.19				SR12	3/16/2017 23:37	0.21			
SR4	3/16/2017 23:57	0.16				SR12	3/16/2017 23:57	0.23			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12. SR5 monitoring station was under maintenance during 12:05-12:30.











24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	3/17/2017 0:17	0.18				SR12	3/17/2017 0:17	0.20			
SR4	3/17/2017 0:37	0.16				SR12	3/17/2017 0:37	0.24			
SR4	3/17/2017 0:57	0.17				SR12	3/17/2017 0:57	0.21			
SR4	3/17/2017 1:17	0.16				SR12	3/17/2017 1:17	0.20			
SR4	3/17/2017 1:37	0.18				SR12	3/17/2017 1:37	0.23			
SR4	3/17/2017 1:57	0.20				SR12	3/17/2017 1:57	0.20			
SR4	3/17/2017 2:17	0.19				SR12	3/17/2017 2:17	0.21			
SR4	3/17/2017 2:37	0.17				SR12	3/17/2017 2:37	0.21			
SR4	3/17/2017 2:57	0.19				SR12	3/17/2017 2:57	0.23			
SR4	3/17/2017 3:17	0.16				SR12	3/17/2017 3:17	0.23			
SR4	3/17/2017 3:37	0.16				SR12	3/17/2017 3:37	0.21			
SR4	3/17/2017 3:57	0.19				SR12	3/17/2017 3:57	0.23			
SR4	3/17/2017 4:17	0.21				SR12	3/17/2017 4:17	0.25			
SR4	3/17/2017 4:37	0.21				SR12	3/17/2017 4:37	0.26			
SR4	3/17/2017 4:57	0.20				SR12	3/17/2017 4:57	0.24			
SR4	3/17/2017 5:17	0.21				SR12	3/17/2017 5:17	0.26			
SR4	3/17/2017 5:37	0.18				SR12	3/17/2017 5:37	0.25			
SR4	3/17/2017 5:57	0.22				SR12	3/17/2017 5:57	0.23			
SR4						SR12					
SR4	3/17/2017 6:37	0.19				SR12	3/17/2017 6:37	0.25			
SR4	3/17/2017 6:57	0.19				SR12	3/17/2017 6:57	0.25			
SR4	3/17/2017 7:17	0.19				SR12	3/17/2017 7:17	0.24			
SR4	3/17/2017 7:37	0.19				SR12	3/17/2017 7:37	0.23			
SR4	3/17/2017 7:57	0.18				SR12	3/17/2017 7:57	0.23			
SR4	3/17/2017 8:17	0.22				SR12	3/17/2017 8:17	0.23			
SR4	3/17/2017 8:37	0.21				SR12	3/17/2017 8:37	0.27			
SR4	3/17/2017 8:57	0.22				SR12	3/17/2017 8:57	0.26			
SR4	3/17/2017 9:17	0.19				SR12	3/17/2017 9:17	0.26			
SR4	3/17/2017 9:37	0.18				SR12	3/17/2017 9:37	0.23			
SR4	3/17/2017 9:57	0.19				SR12	3/17/2017 9:57	0.26			
SR4	3/17/2017 10:17	0.18				SR12	3/17/2017 10:17	0.23			
SR4	3/17/2017 10:37	0.18				SR12	3/17/2017 10:37	0.23			
SR4	3/17/2017 10:57	0.18				SR12	3/17/2017 10:57	0.27			
SR4	3/17/2017 11:17	0.21				SR12	3/17/2017 11:17	0.24			
SR4	3/17/2017 11:37	0.20				SR12	3/17/2017 11:37	0.25			
SR4	3/17/2017 11:57	0.18				SR12	3/17/2017 11:57	0.25			
SR4	3/17/2017 12:17	0.19				SR12	3/17/2017 12:17	0.25			
SR4	3/17/2017 12:37	0.22				SR12	3/17/2017 12:37	0.27			
SR4	3/17/2017 12:57	0.19				SR12	3/17/2017 12:57	0.26			
SR4	3/17/2017 13:17	0.22				SR12	3/17/2017 13:17	0.26			
SR4	3/17/2017 13:37	0.19				SR12	3/17/2017 13:37	0.24			
SR4	3/17/2017 13:57	0.19				SR12	3/17/2017 13:57	0.25			
SR4	3/17/2017 14:17	0.21				SR12	3/17/2017 14:17	0.24			
SR4	3/17/2017 14:37	0.21				SR12	3/17/2017 14:37	0.25			
SR4	3/17/2017 14:57	0.21				SR12	3/17/2017 14:57	0.25			
SR4	3/17/2017 15:17	0.21				SR12	3/17/2017 15:17	0.25			
SR4	3/17/2017 15:37	0.22				SR12	3/17/2017 15:37	0.25			
SR4	3/17/2017 15:57	0.20				SR12	3/17/2017 15:57	0.27			
SR4	3/17/2017 16:17	0.19				SR12	3/17/2017 16:17	0.24			
SR4	3/17/2017 16:37	0.19				SR12	3/17/2017 16:37	0.24			
SR4	3/17/2017 16:57	0.21				SR12	3/17/2017 16:57	0.26			
SR4	3/17/2017 17:17	0.19				SR12	3/17/2017 17:17	0.26			
SR4	3/17/2017 17:37	0.18				SR12	3/17/2017 17:37	0.24			
SR4	3/17/2017 17:57	0.20				SR12	3/17/2017 17:57	0.24			
SR4	3/17/2017 18:17	0.21				SR12	3/17/2017 18:17	0.27			
SR4	3/17/2017 18:37	0.19				SR12	3/17/2017 18:37	0.25			
SR4	3/17/2017 18:57	0.22				SR12	3/17/2017 18:57	0.27			
SR4	3/17/2017 19:17	0.20				SR12	3/17/2017 19:17	0.26			
SR4	3/17/2017 19:37	0.21				SR12	3/17/2017 19:37	0.26			
SR4	3/17/2017 19:57	0.20				SR12	3/17/2017 19:57	0.27			
SR4	3/17/2017 20:17	0.19				SR12	3/17/2017 20:17	0.25			
SR4	3/17/2017 20:37	0.20				SR12	3/17/2017 20:37	0.24			
SR4	3/17/2017 20:57	0.20				SR12	3/17/2017 20:57	0.24			
SR4	3/17/2017 21:17	0.21				SR12	3/17/2017 21:17	0.24			
SR4	3/17/2017 21:37	0.20				SR12	3/17/2017 21:37	0.24			
SR4	3/17/2017 21:57	0.22				SR12	3/17/2017 21:57	0.25			
SR4	3/17/2017 22:17	0.25				SR12	3/17/2017 22:17	0.27			
SR4	3/17/2017 22:37	0.24				SR12	3/17/2017 22:37	0.25			
SR4	3/17/2017 22:57	0.22				SR12	3/17/2017 22:57	0.23			
SR4	3/17/2017 23:17	0.20				SR12	3/17/2017 23:17	0.27			
SR4	3/17/2017 23:37	0.21				SR12	3/17/2017 23:37	0.28			
SR4	3/17/2017 23:57	0.20				SR12	3/17/2017 23:57	0.27			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12. SR13 monitoring station was under maintenance during 10:55-11:15.

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR4	3/18/2017 0:01	18.74	93.6	7.04	5.9	SR4	3/18/2017 6:01	18.88	91.9	6.91	5.6	SR4	3/18/2017 12:01	18.80	91.9	6.91	8.3	SR4	3/18/2017 18:01	19.30	94.0	7.07	8.1
SR4	3/18/2017 0:06	18.74	95.4	7.17	3.9	SR4	3/18/2017 6:06	18.88	93.0	6.99	7.5	SR4	3/18/2017 12:06	18.81	95.5	7.18	6.7	SR4	3/18/2017 18:06	19.33	94.4	7.10	5.8
SR4	3/18/2017 0:11	18.72	89.5	6.73	2.3	SR4	3/18/2017 6:11	18.89	95.5	7.18	3.7	SR4	3/18/2017 12:11	18.81	89.2	6.71	3.6	SR4	3/18/2017 18:11	19.34	93.8	7.05	4.0
SR4	3/18/2017 0:16	18.72	92.6	6.96	3.4	SR4	3/18/2017 6:16	18.88	93.9	7.06	7.4	SR4	3/18/2017 12:16	18.81	94.0	7.07	5.2	SR4	3/18/2017 18:16	19.41	91.8	6.90	6.4
SR4	3/18/2017 0:21	18.72	92.4	6.95	6.2	SR4	3/18/2017 6:21	18.90	95.8	7.20	2.4	SR4	3/18/2017 12:21	18.81	93.5	7.03	2.7	SR4	3/18/2017 18:21	19.34	93.1	7.00	5.8
SR4	3/18/2017 0:26	18.72	92.8	6.98	7.9	SR4	3/18/2017 6:26	18.90	90.4	6.80	6.2	SR4	3/18/2017 12:26	18.81	89.4	6.72	5.5	SR4	3/18/2017 18:26	19.36	91.6	6.89	8.0
SR4	3/18/2017 0:31	18.72	93.8	7.05	5.0	SR4	3/18/2017 6:31	18.90	91.9	6.91	3.3	SR4	3/18/2017 12:31	18.82	91.1	6.85	6.4	SR4	3/18/2017 18:31	19.36	92.4	6.95	5.5
SR4	3/18/2017 0:36	18.72	92.6	6.96	5.1	SR4	3/18/2017 6:36	18.92	94.0	7.07	8.1	SR4	3/18/2017 12:36	18.83	90.0	6.77	4.4	SR4	3/18/2017 18:36	19.33	92.4	6.95	4.5
SR4	3/18/2017 0:41	18.72	91.2	6.86	6.7	SR4	3/18/2017 6:41	18.93	93.0	6.99	6.8	SR4	3/18/2017 12:41	18.83	93.5	7.03	3.0	SR4	3/18/2017 18:41	19.35	95.4	7.17	7.0
SR4	3/18/2017 0:46	18.72	91.4	6.87	8.0	SR4	3/18/2017 6:46	18.93	90.7	6.82	4.3	SR4	3/18/2017 12:46	18.84	94.3	7.09	3.7	SR4	3/18/2017 18:46	19.38	95.2	7.16	3.8
SR4	3/18/2017 0:51	18.72	91.9	6.91	2.8	SR4	3/18/2017 6:51	18.94	91.2	6.86	2.4	SR4	3/18/2017 12:51	18.83	90.7	6.82	8.3	SR4	3/18/2017 18:51	19.40	92.2	6.93	3.5
SR4	3/18/2017 0:56	18.72	95.6	7.19	2.3	SR4	3/18/2017 6:56	18.94	93.8	7.05	3.8	SR4	3/18/2017 12:56	18.84	90.4	6.80	3.9	SR4	3/18/2017 18:56	19.43	92.4	6.95	5.6
SR4	3/18/2017 1:01	18.72	92.8	6.98	3.3	SR4	3/18/2017 7:01	18.95	91.0	6.84	3.8	SR4	3/18/2017 13:01	18.84	91.2	6.86	2.4	SR4	3/18/2017 19:01	19.40	95.0	7.14	8.0
SR4	3/18/2017 1:06	18.72	93.5	7.03	3.2	SR4	3/18/2017 7:06	18.95	95.8	7.20	7.9	SR4	3/18/2017 13:06	18.84	90.7	6.82	3.9	SR4	3/18/2017 19:06	19.40	94.6	7.11	6.4
SR4	3/18/2017 1:11	18.72	93.1	7.00	2.8	SR4	3/18/2017 7:11	18.94	91.8	6.90	2.7	SR4	3/18/2017 13:11	18.85	92.8	6.98	7.9	SR4	3/18/2017 19:11	19.33	93.0	6.99	5.2
SR4	3/18/2017 1:16	18.72	94.2	7.08	4.1	SR4	3/18/2017 7:16	18.94	91.9	6.91	5.2	SR4	3/18/2017 13:16	18.86	90.6	6.81	4.9	SR4	3/18/2017 19:16	19.26	91.1	6.85	5.1
SR4	3/18/2017 1:21	18.72	91.8	6.90	2.5	SR4	3/18/2017 7:21	18.93	93.0	6.99	7.7	SR4	3/18/2017 13:21	18.87	95.1	7.15	7.4	SR4	3/18/2017 19:21	19.31	90.3	6.79	6.9
SR4	3/18/2017 1:26	18.76	93.9	7.06	6.4	SR4	3/18/2017 7:26	18.93	90.2	6.78	6.9	SR4	3/18/2017 13:26	18.93	90.0	6.77	4.2	SR4	3/18/2017 19:26	19.30	90.7	6.82	2.5
SR4	3/18/2017 1:31	18.78	89.9	6.76	4.9	SR4	3/18/2017 7:31	18.93	95.6	7.19	4.8	SR4	3/18/2017 13:31	19.03	93.2	7.01	3.9	SR4	3/18/2017 19:31	19.31	89.6	6.74	3.1
SR4	3/18/2017 1:36	18.80	92.8	6.98	6.9	SR4	3/18/2017 7:36	18.93	94.7	7.12	4.0	SR4	3/18/2017 13:36	19.11	95.1	7.15	7.2	SR4	3/18/2017 19:36	19.26	89.4	6.72	6.6
SR4	3/18/2017 1:41	18.82	90.7	6.82	4.2	SR4	3/18/2017 7:41	18.92	93.6	7.04	4.9	SR4	3/18/2017 13:41	19.14	95.4	7.17	4.1	SR4	3/18/2017 19:41	19.31	92.2	6.93	5.5
SR4	3/18/2017 1:46	18.83	93.4	7.02	4.7	SR4	3/18/2017 7:46	18.92	93.4	7.02	7.5	SR4	3/18/2017 13:46	19.13	90.7	6.82	5.1	SR4	3/18/2017 19:46	19.33	90.7	6.82	6.7
SR4	3/18/2017 1:51	18.84	89.8	6.75	2.5	SR4	3/18/2017 7:51	18.92	90.8	6.83	4.2	SR4	3/18/2017 13:51	19.13	93.4	7.02	6.8	SR4	3/18/2017 19:51	19.34	92.3	6.94	4.9
SR4	3/18/2017 1:56	18.84	91.5	6.88	4.6	SR4	3/18/2017 7:56	18.92	89.6	6.74	5.3	SR4	3/18/2017 13:56	19.08	90.4	6.80	5.5	SR4	3/18/2017 19:56	19.31	92.3	6.94	4.6
SR4	3/18/2017 2:01	18.85	93.8	7.05	4.1	SR4	3/18/2017 8:01	18.91	91.6	6.89	4.6	SR4	3/18/2017 14:01	19.09	94.7	7.12	3.9	SR4	3/18/2017 20:01	19.33	90.3	6.79	6.8
SR4	3/18/2017 2:06	18.85	95.6	7.19	6.7	SR4	3/18/2017 8:06	18.91	91.2	6.86	6.9	SR4	3/18/2017 14:06	19.12	94.7	7.12	3.7	SR4	3/18/2017 20:06	19.35	91.0	6.84	5.1
SR4	3/18/2017 2:11	18.85	89.2	6.71	2.5	SR4	3/18/2017 8:11	18.91	95.0	7.14	5.0	SR4	3/18/2017 14:11	19.11	94.6	7.11	6.3	SR4	3/18/2017 20:11	19.37	94.6	7.11	8.3
SR4	3/18/2017 2:16	18.86	89.6	6.74	5.2	SR4	3/18/2017 8:16	18.91	90.4	6.80	4.4	SR4	3/18/2017 14:16	19.10	93.9	7.06	6.8	SR4	3/18/2017 20:16	19.41	92.6	6.96	5.0
SR4	3/18/2017 2:21	18.86	92.4	6.95	4.1	SR4	3/18/2017 8:21	18.91	93.4	7.02	5.5	SR4	3/18/2017 14:21	19.02	90.4	6.80	7.4	SR4	3/18/2017 20:21	19.43	95.5	7.18	8.2
SR4	3/18/2017 2:26	18.87	95.1	7.15	5.0	SR4	3/18/2017 8:26	18.91	93.0	6.99	8.3	SR4	3/18/2017 14:26	18.94	94.2	7.08	4.9	SR4	3/18/2017 20:26	19.44	94.2	7.08	6.3
SR4	3/18/2017 2:31	18.88	95.0	7.14	2.6	SR4	3/18/2017 8:31	18.91	93.1	7.00	8.4	SR4	3/18/2017 14:31	19.01	92.4	6.95	4.9	SR4	3/18/2017 20:31	19.45	95.2	7.16	6.2
SR4	3/18/2017 2:36	18.88	89.4	6.72	4.2	SR4	3/18/2017 8:36	18.89	90.4	6.80	6.2	SR4	3/18/2017 14:36	19.07	90.0	6.77	3.8	SR4	3/18/2017 20:36	19.47	90.6	6.81	8.2
SR4	3/18/2017 2:41	18.87	91.4	6.87	5.8	SR4	3/18/2017 8:41	18.88	95.8	7.20	6.7	SR4	3/18/2017 14:41	19.09	95.6	7.19	2.6	SR4	3/18/2017 20:41	19.47	95.4	7.17	3.8
SR4	3/18/2017 2:46	18.88	90.0	6.77	7.5	SR4	3/18/2017 8:46	18.88	92.4	6.95	2.9	SR4	3/18/2017 14:46	19.10	93.0	6.99	4.5	SR4	3/18/2017 20:46	19.46	93.9	7.06	5.8
SR4	3/18/2017 2:51	18.87	91.5	6.88	5.8	SR4	3/18/2017 8:51	18.87	92.2	6.93	4.4	SR4	3/18/2017 14:51	19.12	91.0	6.84	7.7	SR4	3/18/2017 20:51	19.46	92.2	6.93	3.1
SR4	3/18/2017 2:56	18.87	95.8	7.20	8.4	SR4	3/18/2017 8:56	18.86	95.4	7.17	4.8	SR4	3/18/2017 14:56	19.11	95.6	7.19	3.0	SR4	3/18/2017 20:56	19.42	93.0	6.99	5.3
SR4	3/18/2017 3:01	18.85	89.8	6.75	2.7	SR4	3/18/2017 9:01	18.85	90.6	6.81	4.5	SR4	3/18/2017 15:01	19.11	95.8	7.20	5.0	SR4	3/18/2017 21:01	19.41	92.8	6.98	3.2
SR4	3/18/2017 3:06	18.84	92.6	6.96	4.1	SR4	3/18/2017 9:06	18.85	95.0	7.14	4.5	SR4	3/18/2017 15:06	19.10	91.1	6.85	7.3	SR4	3/18/2017 21:06	19.41	92.6	6.96	7.0
SR4	3/18/2017 3:11	18.84	91.8	6.90	3.6	SR4	3/18/2017 9:11	18.84	95.2	7.16	3.5	SR4	3/18/2017 15:11	19.10	91.9	6.91	4.9	SR4	3/18/2017 21:11	19.40	91.9	6.91	8.3
SR4	3/18/2017 3:16	18.83	92.6	6.96	8.2	SR4	3/18/2017 9:16	18.84	92.7	6.97	7.6	SR4	3/18/2017 15:16	19.13	89.4	6.72	3.0	SR4	3/18/2017 21:16	19.39	93.1	7.00	5.1
SR4	3/18/2017 3:21	18.82	90.7	6.82	7.8	SR4	3/18/2017 9:21	18.83	91.9	6.91	7.4	SR4	3/18/2017 15:21	19.14	89.6	6.74	3.0	SR4	3/18/2017 21:21	19.39	90.6	6.81	5.9
SR4	3/18/2017 3:26	18.82	91.4	6.87	3.4	SR4	3/18/2017 9:26	18.83	94.4	7.10	5.7	SR4	3/18/2017 15:26	19.13	95.2	7.16	2.3	SR4	3/18/2017 21:26	19.40	93.9	7.06	6.0
SR4	3/18/2017 3:31	18.81	94.4	7.10	5.6	SR4	3/18/2017 9:31	18.83	94.8	7.13	5.7	SR4	3/18/2017 15:31	19.13	92.0	6.92	4.5	SR4	3/18/2017 21:31	19.40	93.5	7.03	3.7
SR4	3/18/2017 3:36	18.81	93.0	6.99	7.9	SR4	3/18/2017 9:36	18.83	95.1	7.15	2.4	SR4	3/18/2017 15:36	19.14	93.6	7.04	5.8	SR4	3/18/2017 21:36	19.39	91.2	6.86	7.1
SR4	3/18/2017 3:41	18.80	93.5	7.03	3.9	SR4	3/18/2017 9:41	18.81	94.8	7.13	3.0	SR4	3/18/2017 15:41	19.16	92.8	6.98	5.3	SR4	3/18/2017 21:41	19.38	93.2	7.01	8.2
SR4	3/18/2017 3:46	18.80	92.2	6.93	6.5	SR4	3/18/2017 9:46	18.80	94.7	7.12	5.2	SR4	3/18/2017 15:46	19.19	90.3	6.79	3.6	SR4	3/18/2017 21:46	19.38	90.8	6.83	3.3
SR4	3/18/2017 3:51	18.80	91.6	6.89	8.2	SR4	3/18/2017 9:51	18.79	90.7	6.82	4.5	SR4	3/18/2017 15:51	19.25	89.2	6.71	7.4	SR4	3/18/2017 21:51	19.39	90.3	6.79	5.8
SR4	3/18/2017 3:56	18.79	90.7	6.82	7.1	SR4	3/18/2017 9:56	18.79	94.4	7.10													

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR5	3/18/2017 0:00	19.37	93.8	6.90	5.7	SR5	3/18/2017 6:00	19.45	97.9	7.20	5.3	SR5	3/18/2017 12:00	19.40	98.9	7.27	4.8	SR5	3/18/2017 18:00	19.87	95.9	7.05	3.1
SR5	3/18/2017 0:05	19.37	97.5	7.17	5.6	SR5	3/18/2017 6:05	19.45	98.3	7.23	3.8	SR5	3/18/2017 12:05	19.43	94.4	6.94	3.1	SR5	3/18/2017 18:05	19.89	95.5	7.02	3.9
SR5	3/18/2017 0:10	19.35	99.3	7.30	3.7	SR5	3/18/2017 6:10	19.44	100.8	7.41	3.2	SR5	3/18/2017 12:10	19.44	94.8	6.97	5.0	SR5	3/18/2017 18:10	19.91	98.2	7.22	5.5
SR5	3/18/2017 0:15	19.35	99.1	7.29	3.7	SR5	3/18/2017 6:15	19.44	101.2	7.44	5.9	SR5	3/18/2017 12:15	19.40	95.7	7.04	4.1	SR5	3/18/2017 18:15	19.93	94.4	6.94	3.1
SR5	3/18/2017 0:20	19.35	101.6	7.47	4.7	SR5	3/18/2017 6:20	19.44	98.3	7.23	5.1	SR5	3/18/2017 12:20	19.42	94.7	6.96	4.1	SR5	3/18/2017 18:20	19.98	95.2	7.00	5.7
SR5	3/18/2017 0:25	19.35	100.6	7.40	4.3	SR5	3/18/2017 6:25	19.46	100.2	7.37	3.7	SR5	3/18/2017 12:25	19.43	94.5	6.95	4.1	SR5	3/18/2017 18:25	19.92	94.9	6.98	5.0
SR5	3/18/2017 0:30	19.35	96.3	7.08	4.4	SR5	3/18/2017 6:30	19.46	99.1	7.29	4.4	SR5	3/18/2017 12:30	19.43	94.1	6.92	4.1	SR5	3/18/2017 18:30	19.92	98.3	7.23	4.2
SR5	3/18/2017 0:35	19.35	99.8	7.34	4.9	SR5	3/18/2017 6:35	19.47	101.0	7.43	5.1	SR5	3/18/2017 12:35	19.44	99.6	7.32	4.1	SR5	3/18/2017 18:35	19.88	96.2	7.07	5.7
SR5	3/18/2017 0:40	19.35	97.1	7.14	3.8	SR5	3/18/2017 6:40	19.51	95.9	7.05	5.9	SR5	3/18/2017 12:40	19.43	94.5	6.95	5.7	SR5	3/18/2017 18:40	19.88	94.0	6.91	5.6
SR5	3/18/2017 0:45	19.35	95.7	7.04	4.6	SR5	3/18/2017 6:45	19.52	95.5	7.02	3.1	SR5	3/18/2017 12:45	19.42	96.6	7.10	4.8	SR5	3/18/2017 18:45	19.90	101.2	7.44	3.7
SR5	3/18/2017 0:50	19.35	99.4	7.31	5.2	SR5	3/18/2017 6:50	19.50	101.6	7.47	4.8	SR5	3/18/2017 12:50	19.43	94.5	6.95	4.1	SR5	3/18/2017 18:50	19.96	95.5	7.02	5.0
SR5	3/18/2017 0:55	19.35	98.1	7.21	4.8	SR5	3/18/2017 6:55	19.48	102.1	7.51	5.9	SR5	3/18/2017 12:55	19.40	96.0	7.06	5.7	SR5	3/18/2017 18:55	19.89	100.2	7.37	3.1
SR5	3/18/2017 1:00	19.36	100.1	7.36	5.6	SR5	3/18/2017 7:00	19.50	99.8	7.34	5.6	SR5	3/18/2017 13:00	19.40	102.3	7.52	3.4	SR5	3/18/2017 19:00	19.91	102.1	7.51	5.4
SR5	3/18/2017 1:05	19.35	101.5	7.46	4.0	SR5	3/18/2017 7:05	19.48	94.1	6.92	5.2	SR5	3/18/2017 13:05	19.41	94.8	6.97	5.4	SR5	3/18/2017 19:05	19.89	100.4	7.38	4.8
SR5	3/18/2017 1:10	19.35	97.4	7.16	5.3	SR5	3/18/2017 7:10	19.48	98.5	7.24	5.3	SR5	3/18/2017 13:10	19.41	100.5	7.39	4.2	SR5	3/18/2017 19:10	19.86	95.3	7.01	4.8
SR5	3/18/2017 1:15	19.35	97.8	7.19	3.6	SR5	3/18/2017 7:15	19.46	94.0	6.91	4.0	SR5	3/18/2017 13:15	19.43	102.4	7.53	3.1	SR5	3/18/2017 19:15	19.84	95.9	7.05	3.7
SR5	3/18/2017 1:20	19.35	96.4	7.09	4.8	SR5	3/18/2017 7:20	19.44	101.3	7.45	5.3	SR5	3/18/2017 13:20	19.44	94.2	6.93	3.4	SR5	3/18/2017 19:20	19.83	101.2	7.44	5.4
SR5	3/18/2017 1:25	19.36	96.8	7.12	5.6	SR5	3/18/2017 7:25	19.44	99.4	7.31	4.3	SR5	3/18/2017 13:25	19.48	95.6	7.03	4.6	SR5	3/18/2017 19:25	19.74	100.1	7.36	4.1
SR5	3/18/2017 1:30	19.37	101.0	7.43	4.6	SR5	3/18/2017 7:30	19.46	100.5	7.39	4.0	SR5	3/18/2017 13:30	19.55	94.4	6.94	3.3	SR5	3/18/2017 19:30	19.74	101.5	7.46	5.4
SR5	3/18/2017 1:35	19.38	96.7	7.11	4.0	SR5	3/18/2017 7:35	19.46	96.2	7.07	3.1	SR5	3/18/2017 13:35	19.65	98.3	7.23	3.2	SR5	3/18/2017 19:35	19.68	97.8	7.19	3.6
SR5	3/18/2017 1:40	19.41	95.2	7.00	5.9	SR5	3/18/2017 7:40	19.48	98.6	7.25	3.5	SR5	3/18/2017 13:40	19.61	102.1	7.51	5.5	SR5	3/18/2017 19:40	19.75	94.5	6.95	4.1
SR5	3/18/2017 1:45	19.36	95.5	7.02	5.8	SR5	3/18/2017 7:45	19.50	99.6	7.32	4.6	SR5	3/18/2017 13:45	19.74	98.7	7.26	3.6	SR5	3/18/2017 19:45	19.61	101.7	7.48	4.8
SR5	3/18/2017 1:50	19.39	97.5	7.17	5.8	SR5	3/18/2017 7:50	19.53	96.4	7.09	4.2	SR5	3/18/2017 13:50	19.67	97.9	7.20	3.9	SR5	3/18/2017 19:50	19.60	98.6	7.25	5.9
SR5	3/18/2017 1:55	19.42	100.9	7.42	5.4	SR5	3/18/2017 7:55	19.53	100.6	7.40	3.3	SR5	3/18/2017 13:55	19.63	100.8	7.41	5.7	SR5	3/18/2017 19:55	19.62	99.4	7.31	3.3
SR5	3/18/2017 2:00	19.41	102.3	7.52	3.1	SR5	3/18/2017 8:00	19.53	93.8	6.90	5.0	SR5	3/18/2017 14:00	19.59	101.6	7.47	3.8	SR5	3/18/2017 20:00	19.62	94.7	6.96	5.3
SR5	3/18/2017 2:05	19.45	98.7	7.26	3.2	SR5	3/18/2017 8:05	19.53	97.1	7.14	3.8	SR5	3/18/2017 14:05	19.57	95.1	6.99	5.9	SR5	3/18/2017 20:05	19.57	99.3	7.30	5.7
SR5	3/18/2017 2:10	19.48	94.4	6.94	5.2	SR5	3/18/2017 8:10	19.53	98.2	7.22	5.7	SR5	3/18/2017 14:10	19.52	97.6	7.18	3.1	SR5	3/18/2017 20:10	19.60	98.6	7.25	4.2
SR5	3/18/2017 2:15	19.44	99.7	7.33	5.6	SR5	3/18/2017 8:15	19.53	99.1	7.29	5.0	SR5	3/18/2017 14:15	19.49	96.8	7.12	3.3	SR5	3/18/2017 20:15	19.64	101.7	7.48	4.1
SR5	3/18/2017 2:20	19.45	94.4	6.94	4.0	SR5	3/18/2017 8:20	19.53	95.6	7.03	5.7	SR5	3/18/2017 14:20	19.48	101.9	7.49	4.6	SR5	3/18/2017 20:20	19.60	97.4	7.16	4.4
SR5	3/18/2017 2:25	19.46	99.3	7.30	5.6	SR5	3/18/2017 8:25	19.53	101.7	7.48	4.8	SR5	3/18/2017 14:25	19.48	98.5	7.24	5.5	SR5	3/18/2017 20:25	19.59	95.1	6.99	5.4
SR5	3/18/2017 2:30	19.49	98.6	7.25	3.1	SR5	3/18/2017 8:30	19.52	96.4	7.09	5.7	SR5	3/18/2017 14:30	19.46	100.9	7.42	4.4	SR5	3/18/2017 20:30	19.59	98.5	7.24	5.4
SR5	3/18/2017 2:35	19.49	100.4	7.38	3.7	SR5	3/18/2017 8:35	19.52	100.5	7.39	5.0	SR5	3/18/2017 14:35	19.50	96.6	7.10	4.3	SR5	3/18/2017 20:35	19.60	95.7	7.04	3.7
SR5	3/18/2017 2:40	19.47	98.3	7.23	5.4	SR5	3/18/2017 8:40	19.50	95.9	7.05	5.4	SR5	3/18/2017 14:40	19.51	97.0	7.13	5.2	SR5	3/18/2017 20:40	19.61	94.1	6.92	3.4
SR5	3/18/2017 2:45	19.47	99.0	7.28	4.3	SR5	3/18/2017 8:45	19.50	101.3	7.45	3.1	SR5	3/18/2017 14:45	19.54	100.6	7.40	5.7	SR5	3/18/2017 20:45	19.67	101.6	7.47	5.9
SR5	3/18/2017 2:50	19.49	102.4	7.53	4.7	SR5	3/18/2017 8:50	19.48	94.0	6.91	3.3	SR5	3/18/2017 14:50	19.58	96.8	7.12	3.7	SR5	3/18/2017 20:50	19.73	98.1	7.21	4.5
SR5	3/18/2017 2:55	19.48	100.8	7.41	4.4	SR5	3/18/2017 8:55	19.47	102.3	7.52	3.4	SR5	3/18/2017 14:55	19.58	94.0	6.91	5.3	SR5	3/18/2017 20:55	19.77	94.7	6.96	5.1
SR5	3/18/2017 3:00	19.47	99.1	7.29	4.5	SR5	3/18/2017 9:00	19.47	97.5	7.17	3.5	SR5	3/18/2017 15:00	19.60	94.7	6.96	5.7	SR5	3/18/2017 21:00	19.73	99.4	7.31	4.2
SR5	3/18/2017 3:05	19.46	101.5	7.46	3.7	SR5	3/18/2017 9:05	19.46	94.7	6.96	3.3	SR5	3/18/2017 15:05	19.62	100.9	7.42	3.9	SR5	3/18/2017 21:05	19.66	97.6	7.18	4.4
SR5	3/18/2017 3:10	19.44	96.4	7.09	3.1	SR5	3/18/2017 9:10	19.46	96.7	7.11	3.5	SR5	3/18/2017 15:10	19.63	100.8	7.41	4.1	SR5	3/18/2017 21:10	19.67	94.7	6.96	3.7
SR5	3/18/2017 3:15	19.45	98.1	7.21	5.8	SR5	3/18/2017 9:15	19.45	101.9	7.49	5.2	SR5	3/18/2017 15:15	19.65	98.7	7.26	4.8	SR5	3/18/2017 21:15	19.68	102.0	7.50	5.4
SR5	3/18/2017 3:20	19.44	99.6	7.32	5.0	SR5	3/18/2017 9:20	19.45	97.5	7.17	4.9	SR5	3/18/2017 15:20	19.64	97.0	7.13	3.8	SR5	3/18/2017 21:20	19.64	100.1	7.36	3.8
SR5	3/18/2017 3:25	19.42	94.7	6.96	4.0	SR5	3/18/2017 9:25	19.45	99.6	7.32	4.3	SR5	3/18/2017 15:25	19.67	97.1	7.14	4.5	SR5	3/18/2017 21:25	19.63	94.1	6.92	4.5
SR5	3/18/2017 3:30	19.43	94.7	6.96	3.6	SR5	3/18/2017 9:30	19.46	100.8	7.41	3.8	SR5	3/18/2017 15:30	19.69	94.7	6.96	5.5	SR5	3/18/2017 21:30	19.62	96.0	7.06	5.0
SR5	3/18/2017 3:35	19.42	98.6	7.25	5.4	SR5	3/18/2017 9:35	19.46	98.5	7.24	3.9	SR5	3/18/2017 15:35	19.68	100.6	7.40	3.7	SR5	3/18/2017 21:35	19.64	96.3	7.08	4.8
SR5	3/18/2017 3:40	19.41	94.5	6.95	5.4	SR5	3/18/2017 9:40	19.44	95.5	7.02	3.8	SR5	3/18/2017 15:40	19.71	100.6	7.40	3.4	SR5	3/18/2017 21:40	19.65	99.1	7.29	3.7
SR5	3/18/2017 3:45	19.43	98.9	7.27	5.7	SR5	3/18/2017 9:45	19.43	100.6	7.40	3.9	SR5	3/18/2017 15:45	19.76	97.6	7.18	4.4	SR5	3/18/2017 21:45	19.69	101.6	7.47	4.3
SR5	3/18/2017 3:50	19.43	97.4	7.16	5.1	SR5	3/18/2017 9:50	19.41	94.0	6.91	3.1	SR5	3/18/2017 15:50	19.78	100.1	7.36	4.7	SR5	3/18/2017 21:50	19.69	94.9	6.98	5.1
SR5	3/18/2017 3:55	19.43	94.1	6.92	4.2																		

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR12	3/18/2017 0:01	18.71	98.8	7.16	6.8	SR12	3/18/2017 6:01	18.83	98.3	7.12	5.8	SR12	3/18/2017 12:01	18.80	98.4	7.13	6.4	SR12	3/18/2017 18:01	19.24	95.9	6.95	4.4
SR12	3/18/2017 0:06	18.71	97.2	7.04	4.2	SR12	3/18/2017 6:06	18.84	99.6	7.22	4.2	SR12	3/18/2017 12:06	18.81	98.9	7.17	4.9	SR12	3/18/2017 18:06	19.26	101.3	7.34	4.8
SR12	3/18/2017 0:11	18.71	96.0	6.96	6.3	SR12	3/18/2017 6:11	18.83	98.3	7.12	3.3	SR12	3/18/2017 12:11	18.80	101.8	7.38	3.5	SR12	3/18/2017 18:11	19.25	98.5	7.14	3.6
SR12	3/18/2017 0:16	18.69	95.4	6.91	3.6	SR12	3/18/2017 6:16	18.84	97.8	7.09	4.3	SR12	3/18/2017 12:16	18.80	99.8	7.23	5.3	SR12	3/18/2017 18:16	19.28	97.7	7.08	5.0
SR12	3/18/2017 0:21	18.69	98.8	7.16	3.6	SR12	3/18/2017 6:21	18.85	97.7	7.08	5.1	SR12	3/18/2017 12:21	18.79	100.6	7.29	5.9	SR12	3/18/2017 18:21	19.30	96.0	6.96	3.2
SR12	3/18/2017 0:26	18.69	100.6	7.29	4.9	SR12	3/18/2017 6:26	18.85	100.7	7.30	5.1	SR12	3/18/2017 12:26	18.79	101.8	7.38	4.9	SR12	3/18/2017 18:26	19.32	96.5	6.99	5.1
SR12	3/18/2017 0:31	18.69	100.2	7.26	6.2	SR12	3/18/2017 6:31	18.86	101.2	7.33	5.8	SR12	3/18/2017 12:31	18.79	99.2	7.19	5.6	SR12	3/18/2017 18:31	19.29	99.1	7.18	3.4
SR12	3/18/2017 0:36	18.69	97.6	7.07	5.4	SR12	3/18/2017 6:36	18.88	98.1	7.11	2.9	SR12	3/18/2017 12:36	18.80	95.6	6.93	6.2	SR12	3/18/2017 18:36	19.26	102.1	7.40	5.0
SR12	3/18/2017 0:41	18.69	102.0	7.39	5.5	SR12	3/18/2017 6:41	18.90	98.9	7.17	6.8	SR12	3/18/2017 12:41	18.82	101.7	7.37	3.3	SR12	3/18/2017 18:41	19.26	98.7	7.15	5.8
SR12	3/18/2017 0:46	18.69	100.2	7.26	5.8	SR12	3/18/2017 6:46	18.90	98.4	7.13	6.2	SR12	3/18/2017 12:46	18.83	96.6	7.00	5.9	SR12	3/18/2017 18:46	19.27	95.4	6.91	5.7
SR12	3/18/2017 0:51	18.69	98.5	7.14	5.4	SR12	3/18/2017 6:51	18.90	95.1	6.89	5.1	SR12	3/18/2017 12:51	18.82	97.4	7.06	6.3	SR12	3/18/2017 18:51	19.31	95.2	6.90	4.2
SR12	3/18/2017 0:56	18.69	96.3	6.98	5.6	SR12	3/18/2017 6:56	18.90	97.0	7.03	3.9	SR12	3/18/2017 12:56	18.82	97.0	7.03	5.0	SR12	3/18/2017 18:56	19.34	98.3	7.12	6.4
SR12	3/18/2017 1:01	18.69	96.6	7.00	6.2	SR12	3/18/2017 7:01	18.90	97.3	7.05	4.0	SR12	3/18/2017 13:01	18.81	95.1	6.89	4.0	SR12	3/18/2017 19:01	19.38	100.2	7.26	3.3
SR12	3/18/2017 1:06	18.69	102.0	7.39	6.4	SR12	3/18/2017 7:06	18.90	99.2	7.19	5.5	SR12	3/18/2017 13:06	18.79	95.4	6.91	6.3	SR12	3/18/2017 19:06	19.39	95.4	6.91	4.0
SR12	3/18/2017 1:11	18.69	101.7	7.37	3.6	SR12	3/18/2017 7:11	18.90	96.6	7.00	4.2	SR12	3/18/2017 13:11	18.81	96.7	7.01	3.8	SR12	3/18/2017 19:11	19.37	98.9	7.17	5.6
SR12	3/18/2017 1:16	18.69	97.7	7.08	4.6	SR12	3/18/2017 7:16	18.89	99.5	7.21	2.9	SR12	3/18/2017 13:16	18.78	97.4	7.06	3.7	SR12	3/18/2017 19:16	19.35	101.0	7.32	4.8
SR12	3/18/2017 1:21	18.68	96.7	7.01	5.1	SR12	3/18/2017 7:21	18.88	100.5	7.28	5.8	SR12	3/18/2017 13:21	18.78	95.2	6.90	6.5	SR12	3/18/2017 19:21	19.31	95.6	6.93	5.4
SR12	3/18/2017 1:26	18.68	99.5	7.21	4.3	SR12	3/18/2017 7:26	18.88	96.3	6.98	3.9	SR12	3/18/2017 13:26	18.80	95.5	6.92	3.5	SR12	3/18/2017 19:26	19.27	98.3	7.12	4.8
SR12	3/18/2017 1:31	18.70	97.7	7.08	4.4	SR12	3/18/2017 7:31	18.89	100.1	7.25	3.1	SR12	3/18/2017 13:31	18.83	97.7	7.08	4.8	SR12	3/18/2017 19:31	19.26	97.8	7.09	5.2
SR12	3/18/2017 1:36	18.71	95.8	6.94	3.2	SR12	3/18/2017 7:36	18.89	101.3	7.34	4.0	SR12	3/18/2017 13:36	18.88	98.4	7.13	5.7	SR12	3/18/2017 19:36	19.24	100.2	7.26	3.5
SR12	3/18/2017 1:41	18.72	99.1	7.18	3.3	SR12	3/18/2017 7:41	18.89	99.1	7.18	4.9	SR12	3/18/2017 13:41	18.94	102.0	7.39	3.2	SR12	3/18/2017 19:41	19.21	97.4	7.06	6.3
SR12	3/18/2017 1:46	18.74	101.6	7.36	4.8	SR12	3/18/2017 7:46	18.89	99.9	7.24	3.7	SR12	3/18/2017 13:46	19.01	95.4	6.91	5.3	SR12	3/18/2017 19:46	19.18	99.2	7.19	4.2
SR12	3/18/2017 1:51	18.74	96.3	6.98	6.4	SR12	3/18/2017 7:51	18.89	95.9	6.95	6.3	SR12	3/18/2017 13:51	19.06	95.6	6.93	5.3	SR12	3/18/2017 19:51	19.18	100.9	7.31	5.2
SR12	3/18/2017 1:56	18.74	98.9	7.17	3.6	SR12	3/18/2017 7:56	18.89	96.2	6.97	4.9	SR12	3/18/2017 13:56	19.06	98.1	7.11	6.0	SR12	3/18/2017 19:56	19.18	98.8	7.16	6.6
SR12	3/18/2017 2:01	18.75	100.7	7.30	3.6	SR12	3/18/2017 8:01	18.89	99.5	7.21	2.9	SR12	3/18/2017 14:01	19.03	96.7	7.01	5.0	SR12	3/18/2017 20:01	19.18	102.0	7.39	4.0
SR12	3/18/2017 2:06	18.76	95.4	6.91	6.7	SR12	3/18/2017 8:06	18.89	100.9	7.31	4.0	SR12	3/18/2017 14:06	19.00	99.6	7.22	5.1	SR12	3/18/2017 20:06	19.17	97.4	7.06	4.3
SR12	3/18/2017 2:11	18.75	99.9	7.24	6.7	SR12	3/18/2017 8:11	18.89	99.6	7.22	6.5	SR12	3/18/2017 14:11	19.03	98.4	7.13	6.5	SR12	3/18/2017 20:11	19.18	99.4	7.20	4.1
SR12	3/18/2017 2:16	18.79	97.4	7.06	5.1	SR12	3/18/2017 8:16	18.88	96.5	6.99	6.3	SR12	3/18/2017 14:16	18.94	96.3	6.98	4.8	SR12	3/18/2017 20:16	19.19	100.5	7.28	5.1
SR12	3/18/2017 2:21	18.80	99.5	7.21	3.9	SR12	3/18/2017 8:21	18.88	99.2	7.19	3.2	SR12	3/18/2017 14:21	18.91	98.5	7.14	3.3	SR12	3/18/2017 20:21	19.20	95.8	6.94	5.3
SR12	3/18/2017 2:26	18.81	100.2	7.26	3.9	SR12	3/18/2017 8:26	18.88	100.1	7.25	4.6	SR12	3/18/2017 14:26	18.90	95.4	6.91	3.1	SR12	3/18/2017 20:26	19.23	99.8	7.23	6.1
SR12	3/18/2017 2:31	18.81	99.9	7.24	5.0	SR12	3/18/2017 8:31	18.88	99.4	7.20	3.6	SR12	3/18/2017 14:31	18.88	98.5	7.14	4.0	SR12	3/18/2017 20:31	19.22	96.7	7.01	5.4
SR12	3/18/2017 2:36	18.82	97.0	7.03	5.3	SR12	3/18/2017 8:36	18.88	95.4	6.91	3.1	SR12	3/18/2017 14:36	18.87	98.9	7.17	3.2	SR12	3/18/2017 20:36	19.20	101.0	7.32	3.6
SR12	3/18/2017 2:41	18.83	96.0	6.96	5.0	SR12	3/18/2017 8:41	18.87	101.6	7.36	3.7	SR12	3/18/2017 14:41	18.87	95.5	6.92	4.5	SR12	3/18/2017 20:41	19.19	101.2	7.33	5.1
SR12	3/18/2017 2:46	18.84	99.5	7.21	6.4	SR12	3/18/2017 8:46	18.86	99.4	7.20	3.6	SR12	3/18/2017 14:46	18.90	98.7	7.15	3.4	SR12	3/18/2017 20:46	19.24	97.3	7.05	4.4
SR12	3/18/2017 2:51	18.84	100.3	7.27	5.1	SR12	3/18/2017 8:51	18.86	95.1	6.89	6.2	SR12	3/18/2017 14:51	18.92	98.7	7.15	5.8	SR12	3/18/2017 20:51	19.28	101.6	7.36	3.8
SR12	3/18/2017 2:56	18.84	99.5	7.21	5.8	SR12	3/18/2017 8:56	18.85	99.8	7.23	6.1	SR12	3/18/2017 14:56	18.95	100.2	7.26	3.4	SR12	3/18/2017 20:56	19.28	101.2	7.33	4.6
SR12	3/18/2017 3:01	18.84	97.8	7.09	4.6	SR12	3/18/2017 9:01	18.84	100.5	7.28	6.3	SR12	3/18/2017 15:01	18.97	100.3	7.27	4.6	SR12	3/18/2017 21:01	19.27	101.6	7.36	4.9
SR12	3/18/2017 3:06	18.83	95.2	6.90	6.4	SR12	3/18/2017 9:06	18.83	95.2	6.90	3.2	SR12	3/18/2017 15:06	18.98	101.7	7.37	4.4	SR12	3/18/2017 21:06	19.23	98.8	7.16	4.9
SR12	3/18/2017 3:11	18.84	99.8	7.23	5.7	SR12	3/18/2017 9:11	18.84	97.0	7.03	3.9	SR12	3/18/2017 15:11	18.97	95.2	6.90	3.3	SR12	3/18/2017 21:11	19.26	96.7	7.01	6.5
SR12	3/18/2017 3:16	18.80	100.7	7.30	6.6	SR12	3/18/2017 9:16	18.82	96.5	6.99	6.6	SR12	3/18/2017 15:16	19.00	102.1	7.40	6.4	SR12	3/18/2017 21:16	19.19	101.4	7.35	6.3
SR12	3/18/2017 3:21	18.80	101.3	7.34	2.9	SR12	3/18/2017 9:21	18.81	101.0	7.32	3.9	SR12	3/18/2017 15:21	19.01	101.7	7.37	4.9	SR12	3/18/2017 21:21	19.15	100.6	7.29	4.8
SR12	3/18/2017 3:26	18.79	100.1	7.25	5.9	SR12	3/18/2017 9:26	18.81	101.4	7.35	6.5	SR12	3/18/2017 15:26	19.02	98.9	7.17	3.6	SR12	3/18/2017 21:26	19.16	100.2	7.26	4.1
SR12	3/18/2017 3:31	18.79	102.1	7.40	2.9	SR12	3/18/2017 9:31	18.81	100.5	7.28	3.2	SR12	3/18/2017 15:31	19.04	98.8	7.16	4.2	SR12	3/18/2017 21:31	19.18	102.1	7.40	6.8
SR12	3/18/2017 3:36	18.78	98.8	7.16	5.6	SR12	3/18/2017 9:36	18.81	98.0	7.10	2.9	SR12	3/18/2017 15:36	19.05	101.0	7.32	4.8	SR12	3/18/2017 21:36	19.16	94.9	6.88	3.0
SR12	3/18/2017 3:41	18.78	99.6	7.22	5.9	SR12	3/18/2017 9:41	18.81	98.1	7.11	6.7	SR12	3/18/2017 15:41	19.06	97.2	7.04	6.6	SR12	3/18/2017 21:41	19.15	98.3	7.12	4.5
SR12	3/18/2017 3:46	18.78	97.4	7.06	6.4	SR12	3/18/2017 9:46	18.80	100.3	7.27	5.3	SR12	3/18/2017 15:46	19.08	97.2	7.04	5.2	SR12	3/18/2017 21:46	19.15	99.1	7.18	4.6
SR12	3/18/2017 3:51	18.77	101.2	7.33	4.5	SR12	3/18/2017 9:51	18.79	97.7														

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR13	3/18/2017 0:00	18.67	95.6	6.88	8.3	SR13	3/18/2017 6:00	18.77	100.5	7.23	6.3	SR13	3/18/2017 12:00	18.74	97.7	7.03	7.2	SR13	3/18/2017 18:00	19.19	96.9	6.97	8.9
SR13	3/18/2017 0:05	18.68	99.4	7.15	5.5	SR13	3/18/2017 6:05	18.76	94.8	6.82	7.8	SR13	3/18/2017 12:05	18.75	98.4	7.08	6.2	SR13	3/18/2017 18:05	19.14	98.4	7.08	5.3
SR13	3/18/2017 0:10	18.65	97.6	7.02	5.2	SR13	3/18/2017 6:10	18.76	96.2	6.92	7.0	SR13	3/18/2017 12:10	18.74	95.6	6.88	8.9	SR13	3/18/2017 18:10	19.30	96.9	6.97	5.6
SR13	3/18/2017 0:15	18.65	99.2	7.14	7.4	SR13	3/18/2017 6:15	18.75	101.3	7.29	5.5	SR13	3/18/2017 12:15	18.77	94.8	6.82	7.5	SR13	3/18/2017 18:15	19.28	98.0	7.05	6.0
SR13	3/18/2017 0:20	18.65	100.6	7.24	5.1	SR13	3/18/2017 6:20	18.78	99.1	7.13	6.4	SR13	3/18/2017 12:20	18.74	102.0	7.34	8.7	SR13	3/18/2017 18:20	19.31	101.3	7.29	7.1
SR13	3/18/2017 0:25	18.66	97.9	7.04	7.4	SR13	3/18/2017 6:25	18.77	94.9	6.83	5.2	SR13	3/18/2017 12:25	18.74	95.8	6.89	8.5	SR13	3/18/2017 18:25	19.15	101.2	7.28	5.3
SR13	3/18/2017 0:30	18.66	95.8	6.89	8.5	SR13	3/18/2017 6:30	18.80	96.9	6.97	5.7	SR13	3/18/2017 12:30	18.75	94.9	6.83	6.3	SR13	3/18/2017 18:30	19.15	101.5	7.30	7.5
SR13	3/18/2017 0:35	18.66	96.2	6.92	6.1	SR13	3/18/2017 6:35	18.86	100.4	7.22	5.8	SR13	3/18/2017 12:35	18.77	94.8	6.82	6.0	SR13	3/18/2017 18:35	19.23	98.1	7.06	6.5
SR13	3/18/2017 0:40	18.66	99.1	7.13	6.1	SR13	3/18/2017 6:40	18.82	100.5	7.23	6.1	SR13	3/18/2017 12:40	18.79	99.9	7.19	7.5	SR13	3/18/2017 18:40	19.25	99.7	7.17	7.0
SR13	3/18/2017 0:45	18.66	95.9	6.90	9.0	SR13	3/18/2017 6:45	18.83	98.1	7.06	8.3	SR13	3/18/2017 12:45	18.77	97.3	7.00	8.6	SR13	3/18/2017 18:45	19.21	97.0	6.98	6.7
SR13	3/18/2017 0:50	18.66	97.0	6.98	6.4	SR13	3/18/2017 6:50	18.84	98.1	7.06	8.5	SR13	3/18/2017 12:50	18.77	95.9	6.90	16.1	SR13	3/18/2017 18:50	19.28	96.0	6.91	5.5
SR13	3/18/2017 0:55	18.66	94.9	6.83	5.5	SR13	3/18/2017 6:55	18.86	99.5	7.16	6.5	SR13	3/18/2017 12:55	18.78	100.9	7.26	9.2	SR13	3/18/2017 18:55	19.16	94.7	6.81	5.7
SR13	3/18/2017 1:00	18.66	96.2	6.92	9.2	SR13	3/18/2017 7:00	18.83	99.0	7.12	7.3	SR13	3/18/2017 13:00	18.75	96.6	6.95	6.8	SR13	3/18/2017 19:00	19.31	98.6	7.09	6.6
SR13	3/18/2017 1:05	18.66	99.8	7.18	8.1	SR13	3/18/2017 7:05	18.84	95.4	6.86	7.1	SR13	3/18/2017 13:05	18.74	99.4	7.15	5.6	SR13	3/18/2017 19:05	19.19	95.9	6.90	8.0
SR13	3/18/2017 1:10	18.66	96.2	6.92	5.6	SR13	3/18/2017 7:10	18.81	95.8	6.89	7.7	SR13	3/18/2017 13:10	18.74	96.2	6.92	5.2	SR13	3/18/2017 19:10	19.19	96.2	6.92	8.2
SR13	3/18/2017 1:15	18.66	101.3	7.29	5.8	SR13	3/18/2017 7:15	18.86	101.7	7.32	6.6	SR13	3/18/2017 13:15	18.75	98.4	7.08	5.3	SR13	3/18/2017 19:15	19.15	100.8	7.25	5.8
SR13	3/18/2017 1:20	18.65	100.8	7.25	8.8	SR13	3/18/2017 7:20	18.87	97.0	6.98	9.0	SR13	3/18/2017 13:20	18.76	98.6	7.09	7.8	SR13	3/18/2017 19:20	19.07	100.2	7.21	5.4
SR13	3/18/2017 1:25	18.66	101.1	7.27	7.5	SR13	3/18/2017 7:25	18.87	94.7	6.81	5.6	SR13	3/18/2017 13:25	18.77	96.9	6.97	7.2	SR13	3/18/2017 19:25	19.07	100.1	7.20	6.5
SR13	3/18/2017 1:30	18.68	100.1	7.20	6.5	SR13	3/18/2017 7:30	18.86	100.4	7.22	5.6	SR13	3/18/2017 13:30	18.81	101.9	7.33	6.5	SR13	3/18/2017 19:30	19.08	95.5	6.87	7.7
SR13	3/18/2017 1:35	18.68	99.7	7.17	6.6	SR13	3/18/2017 7:35	18.86	101.1	7.27	7.8	SR13	3/18/2017 13:35	18.95	98.3	7.07	8.6	SR13	3/18/2017 19:35	19.07	96.7	6.96	7.8
SR13	3/18/2017 1:40	18.69	97.9	7.04	7.0	SR13	3/18/2017 7:40	18.86	98.8	7.11	6.8	SR13	3/18/2017 13:40	18.98	95.9	6.90	7.4	SR13	3/18/2017 19:40	19.02	101.6	7.31	5.1
SR13	3/18/2017 1:45	18.68	99.1	7.13	5.8	SR13	3/18/2017 7:45	18.86	99.0	7.12	5.4	SR13	3/18/2017 13:45	18.91	95.4	6.86	5.9	SR13	3/18/2017 19:45	19.06	100.9	7.26	9.2
SR13	3/18/2017 1:50	18.70	101.7	7.32	9.2	SR13	3/18/2017 7:50	18.85	97.0	6.98	6.7	SR13	3/18/2017 13:50	19.02	100.2	7.21	7.0	SR13	3/18/2017 19:50	19.00	96.6	6.95	6.7
SR13	3/18/2017 1:55	18.70	95.6	6.88	6.9	SR13	3/18/2017 7:55	18.85	101.9	7.33	7.6	SR13	3/18/2017 13:55	18.88	101.5	7.30	7.3	SR13	3/18/2017 19:55	18.97	94.7	6.81	5.4
SR13	3/18/2017 2:00	18.70	101.7	7.32	6.2	SR13	3/18/2017 8:00	18.85	97.0	6.98	6.6	SR13	3/18/2017 14:00	18.85	99.1	7.13	7.2	SR13	3/18/2017 20:00	18.96	99.2	7.14	5.6
SR13	3/18/2017 2:05	18.72	98.7	7.10	8.5	SR13	3/18/2017 8:05	18.85	99.4	7.15	9.3	SR13	3/18/2017 14:05	18.84	96.6	6.95	7.3	SR13	3/18/2017 20:05	18.97	101.1	7.27	7.1
SR13	3/18/2017 2:10	18.74	96.7	6.96	6.9	SR13	3/18/2017 8:10	18.85	101.6	7.31	6.7	SR13	3/18/2017 14:10	18.84	96.2	6.92	8.8	SR13	3/18/2017 20:10	19.06	99.2	7.14	6.7
SR13	3/18/2017 2:15	18.74	94.8	6.82	8.0	SR13	3/18/2017 8:15	18.85	100.4	7.22	8.3	SR13	3/18/2017 14:15	18.83	96.6	6.95	8.0	SR13	3/18/2017 20:15	19.12	97.4	7.01	8.9
SR13	3/18/2017 2:20	18.73	99.2	7.14	5.2	SR13	3/18/2017 8:20	18.85	101.5	7.30	5.2	SR13	3/18/2017 14:20	18.76	98.1	7.06	5.3	SR13	3/18/2017 20:20	19.00	101.1	7.27	6.4
SR13	3/18/2017 2:25	18.76	100.1	7.20	8.1	SR13	3/18/2017 8:25	18.85	101.3	7.29	7.6	SR13	3/18/2017 14:25	18.75	97.6	7.02	5.5	SR13	3/18/2017 20:25	19.00	101.5	7.30	9.1
SR13	3/18/2017 2:30	18.79	100.1	7.20	7.0	SR13	3/18/2017 8:30	18.85	98.8	7.11	7.9	SR13	3/18/2017 14:30	18.79	98.7	7.10	8.6	SR13	3/18/2017 20:30	19.03	98.6	7.09	8.7
SR13	3/18/2017 2:35	18.77	101.1	7.27	8.2	SR13	3/18/2017 8:35	18.83	100.2	7.21	8.1	SR13	3/18/2017 14:35	18.82	98.4	7.08	7.9	SR13	3/18/2017 20:35	19.05	101.7	7.32	6.2
SR13	3/18/2017 2:40	18.77	101.2	7.28	7.9	SR13	3/18/2017 8:40	18.83	95.5	6.87	7.4	SR13	3/18/2017 14:40	18.81	98.7	7.10	7.2	SR13	3/18/2017 20:40	19.16	97.6	7.02	6.4
SR13	3/18/2017 2:45	18.78	95.9	6.90	7.7	SR13	3/18/2017 8:45	18.84	97.4	7.01	6.3	SR13	3/18/2017 14:45	18.81	100.9	7.26	6.9	SR13	3/18/2017 20:45	19.08	100.5	7.23	7.2
SR13	3/18/2017 2:50	18.78	99.7	7.17	6.5	SR13	3/18/2017 8:50	18.81	94.7	6.81	8.8	SR13	3/18/2017 14:50	18.94	94.8	6.82	6.7	SR13	3/18/2017 20:50	19.33	97.3	7.00	5.2
SR13	3/18/2017 2:55	18.81	98.1	7.06	7.5	SR13	3/18/2017 8:55	18.80	96.6	6.95	5.9	SR13	3/18/2017 14:55	18.96	95.6	6.88	5.2	SR13	3/18/2017 20:55	19.20	101.6	7.31	6.4
SR13	3/18/2017 3:00	18.80	96.0	6.91	8.9	SR13	3/18/2017 9:00	18.80	96.7	6.96	9.2	SR13	3/18/2017 15:00	18.99	96.0	6.91	6.2	SR13	3/18/2017 21:00	19.19	100.4	7.22	5.1
SR13	3/18/2017 3:05	18.79	94.9	6.83	5.4	SR13	3/18/2017 9:05	18.79	94.8	6.82	7.8	SR13	3/18/2017 15:05	18.99	99.8	7.18	7.5	SR13	3/18/2017 21:05	19.16	94.7	6.81	5.5
SR13	3/18/2017 3:10	18.77	101.5	7.30	7.1	SR13	3/18/2017 9:10	18.78	99.4	7.15	5.8	SR13	3/18/2017 15:10	18.98	98.1	7.06	7.9	SR13	3/18/2017 21:10	19.24	98.0	7.05	6.2
SR13	3/18/2017 3:15	18.77	94.8	6.82	5.9	SR13	3/18/2017 9:15	18.78	101.7	7.32	7.3	SR13	3/18/2017 15:15	19.00	99.8	7.18	9.3	SR13	3/18/2017 21:15	19.26	95.8	6.89	8.5
SR13	3/18/2017 3:20	18.76	94.7	6.81	8.5	SR13	3/18/2017 9:20	18.78	94.9	6.83	8.0	SR13	3/18/2017 15:20	19.02	101.9	7.33	7.7	SR13	3/18/2017 21:20	19.26	97.4	7.01	7.1
SR13	3/18/2017 3:25	18.75	99.1	7.13	5.6	SR13	3/18/2017 9:25	18.78	97.3	7.00	8.3	SR13	3/18/2017 15:25	19.03	95.5	6.87	5.3	SR13	3/18/2017 21:25	19.29	97.4	7.01	5.1
SR13	3/18/2017 3:30	18.76	100.2	7.21	7.0	SR13	3/18/2017 9:30	18.77	95.9	6.90	5.6	SR13	3/18/2017 15:30	19.01	98.6	7.09	6.7	SR13	3/18/2017 21:30	19.28	100.9	7.26	7.5
SR13	3/18/2017 3:35	18.75	101.9	7.33	6.1	SR13	3/18/2017 9:35	18.77	97.3	7.00	8.3	SR13	3/18/2017 15:35	19.04	96.6	6.95	9.1	SR13	3/18/2017 21:35	19.17	100.9	7.26	8.5
SR13	3/18/2017 3:40	18.74	97.0	6.98	5.4	SR13	3/18/2017 9:40	18.76	96.3	6.93	8.1	SR13	3/18/2017 15:40	19.08	95.6	6.88	5.3	SR13	3/18/2017 21:40	19.16	100.1	7.20	8.3
SR13	3/18/2017 3:45	18.75	99.8	7.18	6.8	SR13	3/18/2017 9:45	18.77	99.8	7.18	5.1	SR13	3/18/2017 15:45	19.04	99.1	7.13	9.0	SR13	3/18/2017 21:45	19.20	94.7	6.81	7.4
SR13	3/18/2017 3:50	18.74	102.0	7.34	8.5	SR13	3/18/2017 9:50	18.73	101.6	7.31	7.4	SR13											

24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	3/18/2017 0:17	0.25				SR12	3/18/2017 0:17	0.28			
SR4	3/18/2017 0:37	0.22				SR12	3/18/2017 0:37	0.28			
SR4	3/18/2017 0:57	0.25				SR12	3/18/2017 0:57	0.25			
SR4	3/18/2017 1:17	0.24				SR12	3/18/2017 1:17	0.23			
SR4	3/18/2017 1:37	0.23				SR12	3/18/2017 1:37	0.27			
SR4	3/18/2017 1:57	0.25				SR12	3/18/2017 1:57	0.24			
SR4	3/18/2017 2:17	0.24				SR12	3/18/2017 2:17	0.27			
SR4	3/18/2017 2:37	0.20				SR12	3/18/2017 2:37	0.22			
SR4	3/18/2017 2:57	0.21				SR12	3/18/2017 2:57	0.22			
SR4	3/18/2017 3:17	0.23				SR12	3/18/2017 3:17	0.28			
SR4	3/18/2017 3:37	0.25				SR12	3/18/2017 3:37	0.26			
SR4	3/18/2017 3:57	0.24				SR12	3/18/2017 3:57	0.26			
SR4	3/18/2017 4:17	0.25				SR12	3/18/2017 4:17	0.28			
SR4	3/18/2017 4:37	0.21				SR12	3/18/2017 4:37	0.23			
SR4	3/18/2017 4:57	0.22				SR12	3/18/2017 4:57	0.26			
SR4	3/18/2017 5:17	0.23				SR12	3/18/2017 5:17	0.25			
SR4	3/18/2017 5:37	0.21				SR12	3/18/2017 5:37	0.22			
SR4	3/18/2017 5:57	0.22				SR12	3/18/2017 5:57	0.26			
SR4						SR12					
SR4	3/18/2017 6:37	0.20				SR12	3/18/2017 6:37	0.27			
SR4	3/18/2017 6:57	0.22				SR12	3/18/2017 6:57	0.27			
SR4	3/18/2017 7:17	0.21				SR12	3/18/2017 7:17	0.24			
SR4	3/18/2017 7:37	0.25				SR12	3/18/2017 7:37	0.27			
SR4	3/18/2017 7:57	0.23				SR12	3/18/2017 7:57	0.22			
SR4	3/18/2017 8:17	0.20				SR12	3/18/2017 8:17	0.23			
SR4	3/18/2017 8:37	0.25				SR12	3/18/2017 8:37	0.26			
SR4	3/18/2017 8:57	0.23				SR12	3/18/2017 8:57	0.27			
SR4	3/18/2017 9:17	0.25				SR12	3/18/2017 9:17	0.27			
SR4	3/18/2017 9:37	0.20				SR12	3/18/2017 9:37	0.22			
SR4	3/18/2017 9:57	0.23				SR12	3/18/2017 9:57	0.27			
SR4	3/18/2017 10:17	0.24				SR12	3/18/2017 10:17	0.25			
SR4	3/18/2017 10:37	0.22				SR12	3/18/2017 10:37	0.24			
SR4	3/18/2017 10:57	0.23				SR12	3/18/2017 10:57	0.23			
SR4	3/18/2017 11:17	0.24				SR12	3/18/2017 11:17	0.26			
SR4	3/18/2017 11:37	0.24				SR12	3/18/2017 11:37	0.24			
SR4	3/18/2017 11:57	0.21				SR12	3/18/2017 11:57	0.25			
SR4	3/18/2017 12:17	0.25				SR12	3/18/2017 12:17	0.25			
SR4	3/18/2017 12:37	0.22				SR12	3/18/2017 12:37	0.22			
SR4	3/18/2017 12:57	0.22				SR12	3/18/2017 12:57	0.24			
SR4	3/18/2017 13:17	0.23				SR12	3/18/2017 13:17	0.26			
SR4	3/18/2017 13:37	0.20				SR12	3/18/2017 13:37	0.22			
SR4	3/18/2017 13:57	0.20				SR12	3/18/2017 13:57	0.27			
SR4	3/18/2017 14:17	0.23				SR12	3/18/2017 14:17	0.25			
SR4	3/18/2017 14:37	0.21				SR12	3/18/2017 14:37	0.23			
SR4	3/18/2017 14:57	0.24				SR12	3/18/2017 14:57	0.28			
SR4	3/18/2017 15:17	0.20				SR12	3/18/2017 15:17	0.25			
SR4	3/18/2017 15:37	0.21				SR12	3/18/2017 15:37	0.24			
SR4	3/18/2017 15:57	0.22				SR12	3/18/2017 15:57	0.21			
SR4	3/18/2017 16:17	0.21				SR12	3/18/2017 16:17	0.22			
SR4	3/18/2017 16:37	0.20				SR12	3/18/2017 16:37	0.25			
SR4	3/18/2017 16:57	0.22				SR12	3/18/2017 16:57	0.25			
SR4	3/18/2017 17:17	0.19				SR12	3/18/2017 17:17	0.22			
SR4	3/18/2017 17:37	0.19				SR12	3/18/2017 17:37	0.22			
SR4	3/18/2017 17:57	0.23				SR12	3/18/2017 17:57	0.22			
SR4	3/18/2017 18:17	0.23				SR12	3/18/2017 18:17	0.24			
SR4	3/18/2017 18:37	0.19				SR12	3/18/2017 18:37	0.23			
SR4	3/18/2017 18:57	0.20				SR12	3/18/2017 18:57	0.24			
SR4	3/18/2017 19:17	0.24				SR12	3/18/2017 19:17	0.23			
SR4	3/18/2017 19:37	0.21				SR12	3/18/2017 19:37	0.25			
SR4	3/18/2017 19:57	0.22				SR12	3/18/2017 19:57	0.24			
SR4	3/18/2017 20:17	0.19				SR12	3/18/2017 20:17	0.21			
SR4	3/18/2017 20:37	0.24				SR12	3/18/2017 20:37	0.23			
SR4	3/18/2017 20:57	0.21				SR12	3/18/2017 20:57	0.25			
SR4	3/18/2017 21:17	0.20				SR12	3/18/2017 21:17	0.23			
SR4	3/18/2017 21:37	0.22				SR12	3/18/2017 21:37	0.21			
SR4	3/18/2017 21:57	0.21				SR12	3/18/2017 21:57	0.23			
SR4	3/18/2017 22:17	0.21				SR12	3/18/2017 22:17	0.25			
SR4	3/18/2017 22:37	0.21				SR12	3/18/2017 22:37	0.22			
SR4	3/18/2017 22:57	0.23				SR12	3/18/2017 22:57	0.25			
SR4	3/18/2017 23:17	0.19				SR12	3/18/2017 23:17	0.21			
SR4	3/18/2017 23:37	0.24				SR12	3/18/2017 23:37	0.23			
SR4	3/18/2017 23:57	0.20				SR12	3/18/2017 23:57	0.22			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH<sub>3</sub>-N monitor was carried out during 5:57-6:37 at SR4 and SR12.

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR4	3/19/2017 0:01	19.14	88.6	6.76	7.2	SR4	3/19/2017 6:01	19.17	88.7	6.77	7.2	SR4	3/19/2017 12:01	19.10	91.3	6.97	8.3	SR4	3/19/2017 18:01	19.23	87.4	6.67	5.6
SR4	3/19/2017 0:06	19.14	91.6	6.99	7.9	SR4	3/19/2017 6:06	19.18	87.5	6.68	6.0	SR4	3/19/2017 12:06	19.06	86.6	6.61	4.9	SR4	3/19/2017 18:06	19.22	88.6	6.76	9.0
SR4	3/19/2017 0:11	19.14	89.3	6.82	6.7	SR4	3/19/2017 6:11	19.18	89.6	6.84	7.7	SR4	3/19/2017 12:11	19.06	86.3	6.59	6.9	SR4	3/19/2017 18:11	19.21	86.3	6.59	6.5
SR4	3/19/2017 0:16	19.13	89.2	6.81	8.3	SR4	3/19/2017 6:16	19.18	87.2	6.66	6.3	SR4	3/19/2017 12:16	19.05	86.3	6.59	6.4	SR4	3/19/2017 18:16	19.22	85.3	6.51	9.4
SR4	3/19/2017 0:21	19.13	85.3	6.51	8.7	SR4	3/19/2017 6:21	19.17	85.8	6.55	8.0	SR4	3/19/2017 12:21	19.03	87.4	6.67	8.3	SR4	3/19/2017 18:21	19.23	85.9	6.56	7.7
SR4	3/19/2017 0:26	19.13	86.1	6.57	8.1	SR4	3/19/2017 6:26	19.17	88.9	6.79	6.7	SR4	3/19/2017 12:26	19.01	86.3	6.59	5.6	SR4	3/19/2017 18:26	19.25	85.5	6.53	6.2
SR4	3/19/2017 0:31	19.13	87.6	6.69	6.9	SR4	3/19/2017 6:31	19.17	89.9	6.86	6.2	SR4	3/19/2017 12:31	19.00	89.7	6.85	9.4	SR4	3/19/2017 18:31	19.25	90.1	6.88	7.7
SR4	3/19/2017 0:36	19.12	88.9	6.79	5.6	SR4	3/19/2017 6:36	19.15	89.6	6.84	6.9	SR4	3/19/2017 12:36	19.00	85.9	6.56	7.4	SR4	3/19/2017 18:36	19.24	90.5	6.91	4.9
SR4	3/19/2017 0:41	19.11	86.3	6.59	7.4	SR4	3/19/2017 6:41	19.15	91.4	6.98	9.2	SR4	3/19/2017 12:41	19.01	90.8	6.93	5.6	SR4	3/19/2017 18:41	19.23	88.8	6.78	5.1
SR4	3/19/2017 0:46	19.10	91.3	6.97	6.0	SR4	3/19/2017 6:46	19.16	91.3	6.97	6.8	SR4	3/19/2017 12:46	19.02	90.4	6.90	5.0	SR4	3/19/2017 18:46	19.23	86.2	6.58	5.2
SR4	3/19/2017 0:51	19.09	90.5	6.91	8.1	SR4	3/19/2017 6:51	19.16	90.4	6.90	6.7	SR4	3/19/2017 12:51	19.01	85.3	6.51	8.2	SR4	3/19/2017 18:51	19.21	87.4	6.67	5.9
SR4	3/19/2017 0:56	19.08	88.9	6.79	9.7	SR4	3/19/2017 6:56	19.15	89.7	6.85	6.0	SR4	3/19/2017 12:56	19.00	88.9	6.79	6.6	SR4	3/19/2017 18:56	19.22	90.1	6.88	7.2
SR4	3/19/2017 1:01	19.07	89.3	6.82	8.0	SR4	3/19/2017 7:01	19.15	89.1	6.80	5.8	SR4	3/19/2017 13:01	18.99	88.6	6.76	7.2	SR4	3/19/2017 19:01	19.22	91.2	6.96	8.9
SR4	3/19/2017 1:06	19.05	87.4	6.67	5.3	SR4	3/19/2017 7:06	19.15	89.5	6.83	5.1	SR4	3/19/2017 13:06	18.99	91.2	6.96	8.6	SR4	3/19/2017 19:06	19.20	85.4	6.52	8.0
SR4	3/19/2017 1:11	19.03	85.9	6.56	5.1	SR4	3/19/2017 7:11	19.14	88.7	6.77	5.9	SR4	3/19/2017 13:11	19.07	86.5	6.60	7.1	SR4	3/19/2017 19:11	19.20	87.1	6.65	6.5
SR4	3/19/2017 1:16	19.02	86.2	6.58	7.8	SR4	3/19/2017 7:16	19.13	89.9	6.86	9.4	SR4	3/19/2017 13:16	19.09	90.0	6.87	5.6	SR4	3/19/2017 19:16	19.20	87.5	6.68	5.6
SR4	3/19/2017 1:21	19.03	90.1	6.88	8.2	SR4	3/19/2017 7:21	19.13	91.6	6.99	8.3	SR4	3/19/2017 13:21	19.06	88.7	6.77	8.2	SR4	3/19/2017 19:21	19.19	91.0	6.95	7.0
SR4	3/19/2017 1:26	19.06	85.3	6.51	6.5	SR4	3/19/2017 7:26	19.13	88.6	6.76	8.4	SR4	3/19/2017 13:26	19.06	91.7	7.00	8.8	SR4	3/19/2017 19:26	19.19	90.7	6.92	5.0
SR4	3/19/2017 1:31	19.06	87.2	6.66	7.3	SR4	3/19/2017 7:31	19.13	90.0	6.87	8.8	SR4	3/19/2017 13:31	19.07	88.9	6.79	5.6	SR4	3/19/2017 19:31	19.18	90.4	6.90	6.4
SR4	3/19/2017 1:36	19.08	88.0	6.72	5.1	SR4	3/19/2017 7:36	19.14	88.8	6.78	8.3	SR4	3/19/2017 13:36	19.10	89.7	6.85	8.8	SR4	3/19/2017 19:36	19.19	91.6	6.99	6.1
SR4	3/19/2017 1:41	19.09	89.2	6.81	9.4	SR4	3/19/2017 7:41	19.14	90.4	6.90	8.6	SR4	3/19/2017 13:41	19.11	90.4	6.90	9.1	SR4	3/19/2017 19:41	19.19	91.4	6.98	8.7
SR4	3/19/2017 1:46	19.09	85.8	6.55	6.0	SR4	3/19/2017 7:46	19.13	89.7	6.85	6.3	SR4	3/19/2017 13:46	19.10	90.0	6.87	4.9	SR4	3/19/2017 19:46	19.19	90.7	6.92	5.5
SR4	3/19/2017 1:51	19.13	89.2	6.81	6.8	SR4	3/19/2017 7:51	19.12	87.8	6.70	7.0	SR4	3/19/2017 13:51	19.10	89.7	6.85	7.6	SR4	3/19/2017 19:51	19.20	89.9	6.86	5.8
SR4	3/19/2017 1:56	19.15	86.1	6.57	7.2	SR4	3/19/2017 7:56	19.13	87.5	6.68	6.8	SR4	3/19/2017 13:56	19.09	87.2	6.66	7.5	SR4	3/19/2017 19:56	19.40	91.0	6.95	8.4
SR4	3/19/2017 2:01	19.16	89.9	6.86	7.9	SR4	3/19/2017 8:01	19.13	88.7	6.77	8.1	SR4	3/19/2017 14:01	19.10	91.2	6.96	5.5	SR4	3/19/2017 20:01	19.44	91.6	6.99	9.1
SR4	3/19/2017 2:06	19.16	87.9	6.71	6.7	SR4	3/19/2017 8:06	19.13	86.1	6.57	9.6	SR4	3/19/2017 14:06	19.11	87.8	6.70	5.4	SR4	3/19/2017 20:06	19.43	90.3	6.89	6.2
SR4	3/19/2017 2:11	19.16	89.6	6.84	5.4	SR4	3/19/2017 8:11	19.14	87.9	6.71	9.4	SR4	3/19/2017 14:11	19.13	88.4	6.75	6.3	SR4	3/19/2017 20:11	19.40	89.1	6.80	7.6
SR4	3/19/2017 2:16	19.16	89.7	6.85	7.8	SR4	3/19/2017 8:16	19.13	91.6	6.99	9.2	SR4	3/19/2017 14:16	19.17	87.8	6.70	7.0	SR4	3/19/2017 20:16	19.38	90.8	6.93	9.7
SR4	3/19/2017 2:21	19.16	86.3	6.59	8.7	SR4	3/19/2017 8:21	19.13	89.2	6.81	6.8	SR4	3/19/2017 14:21	19.18	90.4	6.90	7.7	SR4	3/19/2017 20:21	19.34	89.7	6.85	7.4
SR4	3/19/2017 2:26	19.16	87.5	6.68	6.6	SR4	3/19/2017 8:26	19.13	90.8	6.93	8.4	SR4	3/19/2017 14:26	19.18	88.4	6.75	6.6	SR4	3/19/2017 20:26	19.32	87.5	6.68	5.3
SR4	3/19/2017 2:31	19.17	90.5	6.91	9.6	SR4	3/19/2017 8:31	19.13	87.2	6.66	7.1	SR4	3/19/2017 14:31	19.09	89.7	6.85	7.9	SR4	3/19/2017 20:31	19.38	91.2	6.96	8.1
SR4	3/19/2017 2:36	19.19	91.7	7.00	8.2	SR4	3/19/2017 8:36	19.13	90.4	6.90	6.0	SR4	3/19/2017 14:36	19.06	86.2	6.58	7.2	SR4	3/19/2017 20:36	19.46	86.1	6.57	7.5
SR4	3/19/2017 2:41	19.19	88.0	6.72	6.1	SR4	3/19/2017 8:41	19.13	86.1	6.57	5.3	SR4	3/19/2017 14:41	19.11	87.8	6.70	5.6	SR4	3/19/2017 20:41	19.45	90.7	6.92	5.4
SR4	3/19/2017 2:46	19.19	91.7	7.00	8.4	SR4	3/19/2017 8:46	19.13	88.6	6.76	6.3	SR4	3/19/2017 14:46	19.11	89.5	6.83	5.2	SR4	3/19/2017 20:46	19.47	87.6	6.69	9.7
SR4	3/19/2017 2:51	19.20	88.4	6.75	9.4	SR4	3/19/2017 8:51	19.12	86.9	6.63	7.5	SR4	3/19/2017 14:51	19.10	87.4	6.67	6.8	SR4	3/19/2017 20:51	19.47	86.3	6.59	6.9
SR4	3/19/2017 2:56	19.21	88.3	6.74	9.3	SR4	3/19/2017 8:56	19.12	87.9	6.71	9.2	SR4	3/19/2017 14:56	19.11	90.0	6.87	5.2	SR4	3/19/2017 20:56	19.50	89.6	6.84	5.7
SR4	3/19/2017 3:01	19.22	89.2	6.81	5.6	SR4	3/19/2017 9:01	19.11	88.0	6.72	9.3	SR4	3/19/2017 15:01	19.10	91.2	6.96	5.3	SR4	3/19/2017 21:01	19.49	91.7	7.00	7.6
SR4	3/19/2017 3:06	19.23	86.9	6.63	8.7	SR4	3/19/2017 9:06	19.11	89.7	6.85	9.4	SR4	3/19/2017 15:06	19.10	91.0	6.95	7.3	SR4	3/19/2017 21:06	19.49	91.7	7.00	6.6
SR4	3/19/2017 3:11	19.24	85.8	6.55	7.3	SR4	3/19/2017 9:11	19.12	87.9	6.71	6.8	SR4	3/19/2017 15:11	19.11	88.0	6.72	7.2	SR4	3/19/2017 21:11	19.47	86.1	6.57	7.7
SR4	3/19/2017 3:16	19.25	86.6	6.61	6.7	SR4	3/19/2017 9:16	19.12	88.3	6.74	8.2	SR4	3/19/2017 15:16	19.12	91.7	7.00	8.1	SR4	3/19/2017 21:16	19.46	85.3	6.51	6.9
SR4	3/19/2017 3:21	19.26	89.2	6.81	9.0	SR4	3/19/2017 9:21	19.11	88.6	6.76	9.4	SR4	3/19/2017 15:21	19.13	91.2	6.96	9.2	SR4	3/19/2017 21:21	19.45	88.2	6.73	9.5
SR4	3/19/2017 3:26	19.28	85.9	6.56	9.7	SR4	3/19/2017 9:26	19.11	86.2	6.58	8.8	SR4	3/19/2017 15:26	19.13	87.6	6.69	7.6	SR4	3/19/2017 21:26	19.44	88.9	6.79	7.9
SR4	3/19/2017 3:31	19.28	88.9	6.79	5.1	SR4	3/19/2017 9:31	19.11	87.6	6.69	6.0	SR4	3/19/2017 15:31	19.14	90.4	6.90	6.7	SR4	3/19/2017 21:31	19.44	91.4	6.98	7.5
SR4	3/19/2017 3:36	19.28	86.6	6.61	7.3	SR4	3/19/2017 9:36	19.12	90.9	6.94	5.7	SR4	3/19/2017 15:36	19.16	89.2	6.81	5.4	SR4	3/19/2017 21:36	19.42	88.2	6.73	7.9
SR4	3/19/2017 3:41	19.27	89.2	6.81	8.8	SR4	3/19/2017 9:41	19.13	90.3	6.89	8.3	SR4	3/19/2017 15:41	19.19	85.8	6.55	8.1	SR4	3/19/2017 21:41	19.40	85.7	6.54	6.3
SR4	3/19/2017 3:46	19.24	86.6	6.61	8.6	SR4	3/19/2017 9:46	19.11	91.4	6.98	5.2	SR4	3/19/2017 15:46	19.18	86.7	6.62	7.4	SR4	3/19/2017 21:46	19.39	85.8	6.55	6.8
SR4	3/19/2017 3:51	19.21	91.0	6.95	5.3	SR4	3/19/2017 9:51	19.09	88.3	6.74	6.5	SR4	3/19/2017 15:51	19.19	88.4	6.75	7.5	SR4	3/19/2017 21:51	19.40	87.4	6.67	7.9
SR4	3/19/2017 3:56	19.19	87.5	6.68	5.4	SR4	3/19/2017 9:56	19.															

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR5	3/19/2017 0:00	19.73	95.8	7.15	4.6	SR5	3/19/2017 6:00	19.59	92.5	6.90	4.9	SR5	3/19/2017 12:00	19.67	95.3	7.11	4.4	SR5	3/19/2017 18:00	19.62	94.3	7.04	4.2
SR5	3/19/2017 0:05	19.74	95.9	7.16	5.6	SR5	3/19/2017 6:05	19.58	92.6	6.91	6.1	SR5	3/19/2017 12:05	19.66	91.5	6.83	5.5	SR5	3/19/2017 18:05	19.60	90.2	6.73	5.5
SR5	3/19/2017 0:10	19.73	96.9	7.23	3.8	SR5	3/19/2017 6:10	19.58	96.1	7.17	5.0	SR5	3/19/2017 12:10	19.67	91.4	6.82	4.0	SR5	3/19/2017 18:10	19.68	96.9	7.23	6.1
SR5	3/19/2017 0:15	19.73	93.7	6.99	5.8	SR5	3/19/2017 6:15	19.58	89.5	6.68	6.4	SR5	3/19/2017 12:15	19.66	95.5	7.13	5.7	SR5	3/19/2017 18:15	19.61	93.9	7.01	4.6
SR5	3/19/2017 0:20	19.72	91.3	6.81	5.5	SR5	3/19/2017 6:20	19.59	95.3	7.11	5.2	SR5	3/19/2017 12:20	19.62	91.3	6.81	4.2	SR5	3/19/2017 18:20	19.58	96.3	7.19	5.8
SR5	3/19/2017 0:25	19.72	96.9	7.23	5.5	SR5	3/19/2017 6:25	19.61	93.3	6.96	5.2	SR5	3/19/2017 12:25	19.60	89.9	6.71	4.2	SR5	3/19/2017 18:25	19.61	94.6	7.06	4.0
SR5	3/19/2017 0:30	19.72	88.8	6.63	5.7	SR5	3/19/2017 6:30	19.62	96.2	7.18	4.3	SR5	3/19/2017 12:30	19.59	91.5	6.83	3.9	SR5	3/19/2017 18:30	19.57	88.8	6.63	6.3
SR5	3/19/2017 0:35	19.70	94.1	7.02	3.8	SR5	3/19/2017 6:35	19.66	93.1	6.95	5.9	SR5	3/19/2017 12:35	19.58	94.3	7.04	3.9	SR5	3/19/2017 18:35	19.57	92.6	6.91	6.3
SR5	3/19/2017 0:40	19.70	89.9	6.71	4.5	SR5	3/19/2017 6:40	19.65	93.7	6.99	6.1	SR5	3/19/2017 12:40	19.61	92.3	6.89	6.4	SR5	3/19/2017 18:40	19.56	93.8	7.00	6.3
SR5	3/19/2017 0:45	19.69	92.3	6.89	9.1	SR5	3/19/2017 6:45	19.68	92.1	6.87	5.8	SR5	3/19/2017 12:45	19.60	91.9	6.86	4.8	SR5	3/19/2017 18:45	19.63	95.7	7.14	8.1
SR5	3/19/2017 0:50	19.68	89.2	6.66	3.8	SR5	3/19/2017 6:50	19.67	94.6	7.06	5.5	SR5	3/19/2017 12:50	19.59	93.7	6.99	4.4	SR5	3/19/2017 18:50	19.66	96.7	7.22	4.6
SR5	3/19/2017 0:55	19.67	88.7	6.62	5.2	SR5	3/19/2017 6:55	19.62	94.9	7.08	4.5	SR5	3/19/2017 12:55	19.58	92.6	6.91	4.6	SR5	3/19/2017 18:55	19.65	95.9	7.16	5.3
SR5	3/19/2017 1:00	19.67	96.3	7.19	5.0	SR5	3/19/2017 7:00	19.65	89.8	6.70	4.4	SR5	3/19/2017 13:00	19.59	88.4	6.60	6.4	SR5	3/19/2017 19:00	19.56	94.7	7.07	4.2
SR5	3/19/2017 1:05	19.62	91.7	6.84	5.9	SR5	3/19/2017 7:05	19.61	94.7	7.07	5.3	SR5	3/19/2017 13:05	19.58	92.5	6.90	4.8	SR5	3/19/2017 19:05	19.56	89.6	6.69	5.4
SR5	3/19/2017 1:10	19.63	93.0	6.94	4.0	SR5	3/19/2017 7:10	19.63	96.6	7.21	5.0	SR5	3/19/2017 13:10	19.65	95.3	7.11	5.8	SR5	3/19/2017 19:10	19.57	90.7	6.77	6.3
SR5	3/19/2017 1:15	19.62	89.8	6.70	4.4	SR5	3/19/2017 7:15	19.63	96.1	7.17	5.0	SR5	3/19/2017 13:15	19.66	95.7	7.14	3.9	SR5	3/19/2017 19:15	19.60	95.5	7.13	5.5
SR5	3/19/2017 1:20	19.64	95.4	7.12	5.6	SR5	3/19/2017 7:20	19.67	96.6	7.21	5.4	SR5	3/19/2017 13:20	19.61	89.0	6.64	5.2	SR5	3/19/2017 19:20	19.60	92.7	6.92	5.6
SR5	3/19/2017 1:25	19.62	92.7	6.92	6.0	SR5	3/19/2017 7:25	19.62	88.3	6.59	3.8	SR5	3/19/2017 13:25	19.61	91.0	6.79	5.8	SR5	3/19/2017 19:25	19.53	90.3	6.74	4.5
SR5	3/19/2017 1:30	19.61	89.4	6.67	4.5	SR5	3/19/2017 7:30	19.61	88.8	6.63	5.6	SR5	3/19/2017 13:30	19.59	89.6	6.69	4.8	SR5	3/19/2017 19:30	19.55	93.9	7.01	5.8
SR5	3/19/2017 1:35	19.64	90.7	6.77	5.4	SR5	3/19/2017 7:35	19.64	96.6	7.21	5.5	SR5	3/19/2017 13:35	19.60	88.2	6.58	6.3	SR5	3/19/2017 19:35	19.55	93.7	6.99	5.5
SR5	3/19/2017 1:40	19.65	90.7	6.77	6.2	SR5	3/19/2017 7:40	19.63	93.4	6.97	5.0	SR5	3/19/2017 13:40	19.60	92.2	6.88	4.9	SR5	3/19/2017 19:40	19.55	94.2	7.03	3.8
SR5	3/19/2017 1:45	19.66	95.8	7.15	12.3	SR5	3/19/2017 7:45	19.64	95.5	7.13	6.3	SR5	3/19/2017 13:45	19.59	91.5	6.83	4.5	SR5	3/19/2017 19:45	19.54	93.4	6.97	4.0
SR5	3/19/2017 1:50	19.74	91.0	6.79	4.1	SR5	3/19/2017 7:50	19.67	91.9	6.86	4.4	SR5	3/19/2017 13:50	19.59	90.5	6.75	6.2	SR5	3/19/2017 19:50	19.60	96.9	7.23	4.9
SR5	3/19/2017 1:55	19.69	92.1	6.87	5.1	SR5	3/19/2017 7:55	19.69	93.7	6.99	3.9	SR5	3/19/2017 13:55	19.60	92.6	6.91	5.6	SR5	3/19/2017 19:55	19.67	92.3	6.89	5.4
SR5	3/19/2017 2:00	19.69	93.7	6.99	5.0	SR5	3/19/2017 8:00	19.68	91.9	6.86	4.0	SR5	3/19/2017 14:00	19.59	93.5	6.98	3.9	SR5	3/19/2017 20:00	19.49	89.4	6.87	4.1
SR5	3/19/2017 2:05	19.70	95.0	7.09	5.9	SR5	3/19/2017 8:05	19.69	94.1	7.02	4.0	SR5	3/19/2017 14:05	19.59	92.3	6.89	4.7	SR5	3/19/2017 20:05	19.68	92.6	6.91	6.0
SR5	3/19/2017 2:10	19.72	93.4	6.97	3.8	SR5	3/19/2017 8:10	19.71	94.3	7.04	3.8	SR5	3/19/2017 14:10	19.66	90.7	6.77	4.5	SR5	3/19/2017 20:10	19.66	89.1	6.65	4.9
SR5	3/19/2017 2:15	19.65	91.9	6.86	4.7	SR5	3/19/2017 8:15	19.70	96.9	7.23	5.0	SR5	3/19/2017 14:15	19.67	89.4	6.67	6.4	SR5	3/19/2017 20:15	19.69	97.0	7.24	4.2
SR5	3/19/2017 2:20	19.69	96.2	7.18	6.1	SR5	3/19/2017 8:20	19.70	95.0	7.09	4.4	SR5	3/19/2017 14:20	19.72	96.7	7.22	4.1	SR5	3/19/2017 20:20	19.75	95.7	7.14	6.2
SR5	3/19/2017 2:25	19.72	93.4	6.97	7.7	SR5	3/19/2017 8:25	19.69	93.9	7.01	4.2	SR5	3/19/2017 14:25	19.75	89.2	6.66	5.2	SR5	3/19/2017 20:25	19.69	95.1	7.10	6.4
SR5	3/19/2017 2:30	19.71	94.9	7.08	5.6	SR5	3/19/2017 8:30	19.66	94.9	7.08	4.7	SR5	3/19/2017 14:30	19.69	90.9	6.78	4.6	SR5	3/19/2017 20:30	19.69	93.5	6.98	4.8
SR5	3/19/2017 2:35	19.76	91.5	6.83	4.5	SR5	3/19/2017 8:35	19.66	95.1	7.10	5.4	SR5	3/19/2017 14:35	19.60	94.9	7.08	4.8	SR5	3/19/2017 20:35	19.73	88.3	6.59	3.9
SR5	3/19/2017 2:40	19.77	90.2	6.73	5.3	SR5	3/19/2017 8:40	19.60	89.8	6.70	4.1	SR5	3/19/2017 14:40	19.61	95.1	7.10	5.0	SR5	3/19/2017 20:40	19.76	96.7	7.22	5.3
SR5	3/19/2017 2:45	19.78	95.7	7.14	4.5	SR5	3/19/2017 8:45	19.71	89.2	6.66	4.2	SR5	3/19/2017 14:45	19.65	89.1	6.65	4.5	SR5	3/19/2017 20:45	19.76	96.5	7.20	5.6
SR5	3/19/2017 2:50	19.75	95.7	7.14	4.4	SR5	3/19/2017 8:50	19.67	96.1	7.17	4.0	SR5	3/19/2017 14:50	19.69	96.5	7.20	5.3	SR5	3/19/2017 20:50	19.80	88.8	6.63	6.4
SR5	3/19/2017 2:55	19.76	88.4	6.60	4.2	SR5	3/19/2017 8:55	19.56	96.1	7.17	6.4	SR5	3/19/2017 14:55	19.69	91.7	6.84	5.8	SR5	3/19/2017 20:55	19.82	93.4	6.97	4.0
SR5	3/19/2017 3:00	19.80	95.8	7.15	5.2	SR5	3/19/2017 9:00	19.60	92.9	6.93	6.4	SR5	3/19/2017 15:00	19.69	88.7	6.62	4.7	SR5	3/19/2017 21:00	19.84	91.0	6.79	5.2
SR5	3/19/2017 3:05	19.82	92.2	6.88	4.7	SR5	3/19/2017 9:05	19.67	89.5	6.68	5.2	SR5	3/19/2017 15:05	19.65	96.6	7.21	6.1	SR5	3/19/2017 21:05	19.80	94.5	7.05	5.7
SR5	3/19/2017 3:10	19.81	91.8	6.85	5.4	SR5	3/19/2017 9:10	19.72	92.5	6.90	4.8	SR5	3/19/2017 15:10	19.63	97.2	7.25	5.8	SR5	3/19/2017 21:10	19.83	93.7	6.99	4.8
SR5	3/19/2017 3:15	19.82	96.7	7.22	5.2	SR5	3/19/2017 9:15	19.72	92.7	6.92	4.3	SR5	3/19/2017 15:15	19.65	94.5	7.05	4.3	SR5	3/19/2017 21:15	19.82	90.0	6.72	5.9
SR5	3/19/2017 3:20	19.75	88.6	6.61	4.2	SR5	3/19/2017 9:20	19.70	90.3	6.74	4.8	SR5	3/19/2017 15:20	19.62	90.7	6.77	5.7	SR5	3/19/2017 21:20	19.84	92.1	6.87	5.9
SR5	3/19/2017 3:25	19.71	88.4	6.60	5.1	SR5	3/19/2017 9:25	19.70	91.7	6.84	3.9	SR5	3/19/2017 15:25	19.68	93.3	6.96	5.2	SR5	3/19/2017 21:25	19.85	90.2	6.73	4.6
SR5	3/19/2017 3:30	19.71	91.5	6.83	6.1	SR5	3/19/2017 9:30	19.70	89.5	6.68	5.7	SR5	3/19/2017 15:30	19.69	94.5	7.05	4.3	SR5	3/19/2017 21:30	19.84	93.4	6.97	5.4
SR5	3/19/2017 3:35	19.73	96.1	7.17	6.4	SR5	3/19/2017 9:35	19.72	97.2	7.25	4.4	SR5	3/19/2017 15:35	19.69	91.0	6.79	5.5	SR5	3/19/2017 21:35	19.81	95.4	7.12	4.9
SR5	3/19/2017 3:40	19.70	96.3	7.19	5.5	SR5	3/19/2017 9:40	19.74	94.5	7.05	5.6	SR5	3/19/2017 15:40	19.73	88.4	6.60	3.8	SR5	3/19/2017 21:40	19.80	91.9	6.86	5.7
SR5	3/19/2017 3:45	19.73	92.2	6.88	9.4	SR5	3/19/2017 9:45	19.71	90.7	6.77	4.0	SR5	3/19/2017 15:45	19.72	96.5	7.20	4.4	SR5	3/19/2017 21:45	19.80	94.7	7.07	5.7
SR5	3/19/2017 3:50	19.77	94.9	7.08	5.3	SR5	3/19/2017 9:50	19.69	95.3	7.11	5.5	SR5	3/19/2017 15:50	19.70	88.6	6.61	6.3	SR5	3/19/2017 21:50	19.80	95.4	7.12	6.1
SR5	3/19/2017 3:55	19.75	96.6	7.21	4.7	SR5	3/19/2017 9:55	19															







24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	3/19/2017 0:17	0.23				SR12	3/19/2017 0:17	0.24			
SR4	3/19/2017 0:37	0.19				SR12	3/19/2017 0:37	0.24			
SR4	3/19/2017 0:57	0.23				SR12	3/19/2017 0:57	0.21			
SR4	3/19/2017 1:17	0.23				SR12	3/19/2017 1:17	0.25			
SR4	3/19/2017 1:37	0.22				SR12	3/19/2017 1:37	0.24			
SR4	3/19/2017 1:57	0.21				SR12	3/19/2017 1:57	0.21			
SR4	3/19/2017 2:17	0.24				SR12	3/19/2017 2:17	0.21			
SR4	3/19/2017 2:37	0.23				SR12	3/19/2017 2:37	0.22			
SR4	3/19/2017 2:57	0.21				SR12	3/19/2017 2:57	0.23			
SR4	3/19/2017 3:17	0.19				SR12	3/19/2017 3:17	0.25			
SR4	3/19/2017 3:37	0.22				SR12	3/19/2017 3:37	0.25			
SR4	3/19/2017 3:57	0.19				SR12	3/19/2017 3:57	0.22			
SR4	3/19/2017 4:17	0.19				SR12	3/19/2017 4:17	0.23			
SR4	3/19/2017 4:37	0.19				SR12	3/19/2017 4:37	0.25			
SR4	3/19/2017 4:57	0.20				SR12	3/19/2017 4:57	0.21			
SR4	3/19/2017 5:17	0.24				SR12	3/19/2017 5:17	0.22			
SR4	3/19/2017 5:37	0.23				SR12	3/19/2017 5:37	0.22			
SR4	3/19/2017 5:57	0.23				SR12	3/19/2017 5:57	0.22			
SR4						SR12					
SR4	3/19/2017 6:37	0.24				SR12	3/19/2017 6:37	0.21			
SR4	3/19/2017 6:57	0.19				SR12	3/19/2017 6:57	0.24			
SR4	3/19/2017 7:17	0.24				SR12	3/19/2017 7:17	0.25			
SR4	3/19/2017 7:37	0.22				SR12	3/19/2017 7:37	0.21			
SR4	3/19/2017 7:57	0.23				SR12	3/19/2017 7:57	0.24			
SR4	3/19/2017 8:17	0.23				SR12	3/19/2017 8:17	0.21			
SR4	3/19/2017 8:37	0.23				SR12	3/19/2017 8:37	0.24			
SR4	3/19/2017 8:57	0.20				SR12	3/19/2017 8:57	0.24			
SR4	3/19/2017 9:17	0.21				SR12	3/19/2017 9:17	0.20			
SR4	3/19/2017 9:37	0.19				SR12	3/19/2017 9:37	0.22			
SR4	3/19/2017 9:57	0.18				SR12	3/19/2017 9:57	0.22			
SR4	3/19/2017 10:17	0.20				SR12	3/19/2017 10:17	0.20			
SR4	3/19/2017 10:37	0.21				SR12	3/19/2017 10:37	0.21			
SR4	3/19/2017 10:57	0.19				SR12	3/19/2017 10:57	0.18			
SR4	3/19/2017 11:17	0.17				SR12	3/19/2017 11:17	0.21			
SR4	3/19/2017 11:37	0.18				SR12	3/19/2017 11:37	0.19			
SR4	3/19/2017 11:57	0.21				SR12	3/19/2017 11:57	0.18			
SR4	3/19/2017 12:17	0.21				SR12	3/19/2017 12:17	0.18			
SR4	3/19/2017 12:37	0.19				SR12	3/19/2017 12:37	0.20			
SR4	3/19/2017 12:57	0.21				SR12	3/19/2017 12:57	0.20			
SR4	3/19/2017 13:17	0.18				SR12	3/19/2017 13:17	0.19			
SR4	3/19/2017 13:37	0.19				SR12	3/19/2017 13:37	0.22			
SR4	3/19/2017 13:57	0.20				SR12	3/19/2017 13:57	0.22			
SR4	3/19/2017 14:17	0.19				SR12	3/19/2017 14:17	0.19			
SR4	3/19/2017 14:37	0.18				SR12	3/19/2017 14:37	0.19			
SR4	3/19/2017 14:57	0.18				SR12	3/19/2017 14:57	0.19			
SR4	3/19/2017 15:17	0.18				SR12	3/19/2017 15:17	0.18			
SR4	3/19/2017 15:37	0.17				SR12	3/19/2017 15:37	0.20			
SR4	3/19/2017 15:57	0.21				SR12	3/19/2017 15:57	0.19			
SR4	3/19/2017 16:17	0.18				SR12	3/19/2017 16:17	0.20			
SR4	3/19/2017 16:37	0.17				SR12	3/19/2017 16:37	0.18			
SR4	3/19/2017 16:57	0.20				SR12	3/19/2017 16:57	0.20			
SR4	3/19/2017 17:17	0.18				SR12	3/19/2017 17:17	0.20			
SR4	3/19/2017 17:37	0.19				SR12	3/19/2017 17:37	0.21			
SR4	3/19/2017 17:57	0.17				SR12	3/19/2017 17:57	0.22			
SR4	3/19/2017 18:17	0.21				SR12	3/19/2017 18:17	0.18			
SR4	3/19/2017 18:37	0.19				SR12	3/19/2017 18:37	0.20			
SR4	3/19/2017 18:57	0.20				SR12	3/19/2017 18:57	0.19			
SR4	3/19/2017 19:17	0.19				SR12	3/19/2017 19:17	0.21			
SR4	3/19/2017 19:37	0.19				SR12	3/19/2017 19:37	0.19			
SR4	3/19/2017 19:57	0.19				SR12	3/19/2017 19:57	0.19			
SR4	3/19/2017 20:17	0.17				SR12	3/19/2017 20:17	0.19			
SR4	3/19/2017 20:37	0.21				SR12	3/19/2017 20:37	0.21			
SR4	3/19/2017 20:57	0.18				SR12	3/19/2017 20:57	0.20			
SR4	3/19/2017 21:17	0.20				SR12	3/19/2017 21:17	0.20			
SR4	3/19/2017 21:37	0.21				SR12	3/19/2017 21:37	0.22			
SR4	3/19/2017 21:57	0.20				SR12	3/19/2017 21:57	0.21			
SR4	3/19/2017 22:17	0.19				SR12	3/19/2017 22:17	0.19			
SR4	3/19/2017 22:37	0.21				SR12	3/19/2017 22:37	0.22			
SR4	3/19/2017 22:57	0.19				SR12	3/19/2017 22:57	0.18			
SR4	3/19/2017 23:17	0.17				SR12	3/19/2017 23:17	0.22			
SR4	3/19/2017 23:37	0.20				SR12	3/19/2017 23:37	0.22			
SR4	3/19/2017 23:57	0.20				SR12	3/19/2017 23:57	0.21			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12.









24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	3/20/2017 0:17	0.20				SR12	3/20/2017 0:17	0.20			
SR4	3/20/2017 0:37	0.21				SR12	3/20/2017 0:37	0.18			
SR4	3/20/2017 0:57	0.20				SR12	3/20/2017 0:57	0.22			
SR4	3/20/2017 1:17	0.20				SR12	3/20/2017 1:17	0.19			
SR4	3/20/2017 1:37	0.20				SR12	3/20/2017 1:37	0.22			
SR4	3/20/2017 1:57	0.19				SR12	3/20/2017 1:57	0.22			
SR4	3/20/2017 2:17	0.18				SR12	3/20/2017 2:17	0.22			
SR4	3/20/2017 2:37	0.18				SR12	3/20/2017 2:37	0.19			
SR4	3/20/2017 2:57	0.21				SR12	3/20/2017 2:57	0.19			
SR4	3/20/2017 3:17	0.21				SR12	3/20/2017 3:17	0.17			
SR4	3/20/2017 3:37	0.18				SR12	3/20/2017 3:37	0.17			
SR4	3/20/2017 3:57	0.18				SR12	3/20/2017 3:57	0.21			
SR4	3/20/2017 4:17	0.20				SR12	3/20/2017 4:17	0.21			
SR4	3/20/2017 4:37	0.19				SR12	3/20/2017 4:37	0.17			
SR4	3/20/2017 4:57	0.19				SR12	3/20/2017 4:57	0.20			
SR4	3/20/2017 5:17	0.17				SR12	3/20/2017 5:17	0.20			
SR4	3/20/2017 5:37	0.19				SR12	3/20/2017 5:37	0.17			
SR4	3/20/2017 5:57	0.20				SR12	3/20/2017 5:57	0.18			
SR4						SR12					
SR4	3/20/2017 6:37	0.20				SR12	3/20/2017 6:37	0.19			
SR4	3/20/2017 6:57	0.17				SR12	3/20/2017 6:57	0.18			
SR4	3/20/2017 7:17	0.17				SR12	3/20/2017 7:17	0.20			
SR4	3/20/2017 7:37	0.17				SR12	3/20/2017 7:37	0.17			
SR4	3/20/2017 7:57	0.17				SR12	3/20/2017 7:57	0.20			
SR4	3/20/2017 8:17	0.17				SR12	3/20/2017 8:17	0.20			
SR4	3/20/2017 8:37	0.18				SR12	3/20/2017 8:37	0.17			
SR4	3/20/2017 8:57	0.20				SR12	3/20/2017 8:57	0.21			
SR4	3/20/2017 9:17	0.17				SR12	3/20/2017 9:17	0.17			
SR4	3/20/2017 9:37	0.17				SR12					
SR4	3/20/2017 9:57	0.21				SR12					
SR4	3/20/2017 10:17	0.21				SR12					
SR4	3/20/2017 10:37	0.19				SR12					
SR4	3/20/2017 10:57	0.17				SR12					
SR4	3/20/2017 11:17	0.19				SR12	3/20/2017 11:17	0.21			
SR4	3/20/2017 11:37	0.17				SR12	3/20/2017 11:37	0.17			
SR4	3/20/2017 11:57	0.17				SR12	3/20/2017 11:57	0.17			
SR4						SR12	3/20/2017 12:17	0.19			
SR4						SR12	3/20/2017 12:37	0.19			
SR4						SR12	3/20/2017 12:57	0.17			
SR4						SR12	3/20/2017 13:17	0.20			
SR4	3/20/2017 13:37	0.19				SR12	3/20/2017 13:37	0.19			
SR4	3/20/2017 13:57	0.17				SR12	3/20/2017 13:57	0.17			
SR4	3/20/2017 14:17	0.17				SR12	3/20/2017 14:17	0.19			
SR4	3/20/2017 14:37	0.19				SR12	3/20/2017 14:37	0.21			
SR4	3/20/2017 14:57	0.18				SR12	3/20/2017 14:57	0.19			
SR4	3/20/2017 15:17	0.20				SR12	3/20/2017 15:17	0.21			
SR4	3/20/2017 15:37	0.17				SR12	3/20/2017 15:37	0.20			
SR4	3/20/2017 15:57	0.20				SR12	3/20/2017 15:57	0.18			
SR4	3/20/2017 16:17	0.18				SR12	3/20/2017 16:17	0.20			
SR4	3/20/2017 16:37	0.18				SR12	3/20/2017 16:37	0.20			
SR4	3/20/2017 16:57	0.20				SR12	3/20/2017 16:57	0.17			
SR4	3/20/2017 17:17	0.20				SR12	3/20/2017 17:17	0.21			
SR4	3/20/2017 17:37	0.18				SR12	3/20/2017 17:37	0.18			
SR4	3/20/2017 17:57	0.19				SR12	3/20/2017 17:57	0.19			
SR4	3/20/2017 18:17	0.21				SR12	3/20/2017 18:17	0.18			
SR4	3/20/2017 18:37	0.18				SR12	3/20/2017 18:37	0.19			
SR4	3/20/2017 18:57	0.20				SR12	3/20/2017 18:57	0.21			
SR4	3/20/2017 19:17	0.19				SR12	3/20/2017 19:17	0.21			
SR4	3/20/2017 19:37	0.17				SR12	3/20/2017 19:37	0.18			
SR4	3/20/2017 19:57	0.20				SR12	3/20/2017 19:57	0.17			
SR4	3/20/2017 20:17	0.21				SR12	3/20/2017 20:17	0.18			
SR4	3/20/2017 20:37	0.19				SR12	3/20/2017 20:37	0.21			
SR4	3/20/2017 20:57	0.19				SR12	3/20/2017 20:57	0.18			
SR4	3/20/2017 21:17	0.19				SR12	3/20/2017 21:17	0.17			
SR4	3/20/2017 21:37	0.20				SR12	3/20/2017 21:37	0.20			
SR4	3/20/2017 21:57	0.17				SR12	3/20/2017 21:57	0.19			
SR4	3/20/2017 22:17	0.17				SR12	3/20/2017 22:17	0.20			
SR4	3/20/2017 22:37	0.17				SR12	3/20/2017 22:37	0.21			
SR4	3/20/2017 22:57	0.18				SR12	3/20/2017 22:57	0.19			
SR4	3/20/2017 23:17	0.18				SR12	3/20/2017 23:17	0.18			
SR4	3/20/2017 23:37	0.19				SR12	3/20/2017 23:37	0.17			
SR4	3/20/2017 23:57	0.21				SR12	3/20/2017 23:57	0.19			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12.

SR4 monitoring station was under maintenance during 12:11-13:16.

SR12 monitoring station was under maintenance during 9:31-11:01.

SR13 monitoring station was under maintenance during 14:50-15:10.











24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	3/21/2017 0:17	0.17				SR12	3/21/2017 0:17	0.18			
SR4	3/21/2017 0:37	0.18				SR12	3/21/2017 0:37	0.21			
SR4	3/21/2017 0:57	0.21				SR12	3/21/2017 0:57	0.20			
SR4	3/21/2017 1:17	0.20				SR12	3/21/2017 1:17	0.21			
SR4	3/21/2017 1:37	0.18				SR12	3/21/2017 1:37	0.17			
SR4	3/21/2017 1:57	0.17				SR12	3/21/2017 1:57	0.19			
SR4	3/21/2017 2:17	0.20				SR12	3/21/2017 2:17	0.18			
SR4	3/21/2017 2:37	0.19				SR12	3/21/2017 2:37	0.17			
SR4	3/21/2017 2:57	0.18				SR12	3/21/2017 2:57	0.20			
SR4	3/21/2017 3:17	0.21				SR12	3/21/2017 3:17	0.20			
SR4	3/21/2017 3:37	0.17				SR12	3/21/2017 3:37	0.20			
SR4	3/21/2017 3:57	0.20				SR12	3/21/2017 3:57	0.19			
SR4	3/21/2017 4:17	0.20				SR12	3/21/2017 4:17	0.17			
SR4	3/21/2017 4:37	0.19				SR12	3/21/2017 4:37	0.20			
SR4	3/21/2017 4:57	0.20				SR12	3/21/2017 4:57	0.18			
SR4	3/21/2017 5:17	0.17				SR12	3/21/2017 5:17	0.21			
SR4	3/21/2017 5:37	0.19				SR12	3/21/2017 5:37	0.17			
SR4	3/21/2017 5:57	0.21				SR12	3/21/2017 5:57	0.18			
SR4						SR12					
SR4	3/21/2017 6:37	0.19				SR12	3/21/2017 6:37	0.17			
SR4	3/21/2017 6:57	0.19				SR12	3/21/2017 6:57	0.19			
SR4	3/21/2017 7:17	0.17				SR12	3/21/2017 7:17	0.19			
SR4	3/21/2017 7:37	0.18				SR12	3/21/2017 7:37	0.17			
SR4	3/21/2017 7:57	0.19				SR12	3/21/2017 7:57	0.20			
SR4	3/21/2017 8:17	0.19				SR12	3/21/2017 8:17	0.17			
SR4	3/21/2017 8:37	0.21				SR12	3/21/2017 8:37	0.20			
SR4	3/21/2017 8:57	0.21				SR12	3/21/2017 8:57	0.19			
SR4	3/21/2017 9:17	0.18				SR12	3/21/2017 9:17	0.20			
SR4	3/21/2017 9:37	0.19				SR12	3/21/2017 9:37	0.21			
SR4	3/21/2017 9:57	0.20				SR12	3/21/2017 9:57	0.17			
SR4	3/21/2017 10:17	0.21				SR12	3/21/2017 10:17	0.21			
SR4	3/21/2017 10:37	0.20				SR12	3/21/2017 10:37	0.18			
SR4	3/21/2017 10:57	0.21				SR12	3/21/2017 10:57	0.21			
SR4	3/21/2017 11:17	0.18				SR12	3/21/2017 11:17	0.21			
SR4	3/21/2017 11:37	0.18				SR12	3/21/2017 11:37	0.20			
SR4	3/21/2017 11:57	0.20				SR12	3/21/2017 11:57	0.18			
SR4	3/21/2017 12:17	0.20				SR12	3/21/2017 12:17	0.17			
SR4	3/21/2017 12:37	0.19				SR12	3/21/2017 12:37	0.18			
SR4	3/21/2017 12:57	0.20				SR12	3/21/2017 12:57	0.18			
SR4	3/21/2017 13:17	0.17				SR12	3/21/2017 13:17	0.20			
SR4	3/21/2017 13:37	0.17				SR12	3/21/2017 13:37	0.18			
SR4	3/21/2017 13:57	0.21				SR12	3/21/2017 13:57	0.20			
SR4	3/21/2017 14:17	0.18				SR12	3/21/2017 14:17	0.17			
SR4	3/21/2017 14:37	0.21				SR12	3/21/2017 14:37	0.19			
SR4	3/21/2017 14:57	0.19				SR12	3/21/2017 14:57	0.21			
SR4	3/21/2017 15:17	0.17				SR12	3/21/2017 15:17	0.17			
SR4	3/21/2017 15:37	0.18				SR12	3/21/2017 15:37	0.18			
SR4	3/21/2017 15:57	0.17				SR12	3/21/2017 15:57	0.21			
SR4	3/21/2017 16:17	0.21				SR12	3/21/2017 16:17	0.21			
SR4	3/21/2017 16:37	0.17				SR12	3/21/2017 16:37	0.20			
SR4	3/21/2017 16:57	0.20				SR12	3/21/2017 16:57	0.20			
SR4	3/21/2017 17:17	0.18				SR12	3/21/2017 17:17	0.20			
SR4	3/21/2017 17:37	0.19				SR12	3/21/2017 17:37	0.18			
SR4	3/21/2017 17:57	0.21				SR12	3/21/2017 17:57	0.19			
SR4	3/21/2017 18:17	0.18				SR12	3/21/2017 18:17	0.21			
SR4	3/21/2017 18:37	0.18				SR12	3/21/2017 18:37	0.19			
SR4	3/21/2017 18:57	0.18				SR12	3/21/2017 18:57	0.21			
SR4	3/21/2017 19:17	0.18				SR12	3/21/2017 19:17	0.18			
SR4	3/21/2017 19:37	0.19				SR12	3/21/2017 19:37	0.17			
SR4	3/21/2017 19:57	0.17				SR12	3/21/2017 19:57	0.17			
SR4	3/21/2017 20:17	0.18				SR12	3/21/2017 20:17	0.19			
SR4	3/21/2017 20:37	0.19				SR12	3/21/2017 20:37	0.17			
SR4	3/21/2017 20:57	0.19				SR12	3/21/2017 20:57	0.21			
SR4	3/21/2017 21:17	0.19				SR12	3/21/2017 21:17	0.21			
SR4	3/21/2017 21:37	0.18				SR12	3/21/2017 21:37	0.18			
SR4	3/21/2017 21:57	0.18				SR12	3/21/2017 21:57	0.21			
SR4	3/21/2017 22:17	0.17				SR12	3/21/2017 22:17	0.17			
SR4	3/21/2017 22:37	0.19				SR12	3/21/2017 22:37	0.19			
SR4	3/21/2017 22:57	0.19				SR12	3/21/2017 22:57	0.20			
SR4	3/21/2017 23:17	0.17				SR12	3/21/2017 23:17	0.20			
SR4	3/21/2017 23:37	0.20				SR12	3/21/2017 23:37	0.21			
SR4	3/21/2017 23:57	0.17				SR12	3/21/2017 23:57	0.19			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12. SR5 monitoring station was under maintenance during 13:50-14:10.









24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR13	3/22/2017 0:00	20.47	95.3	7.22	8.7	SR13	3/22/2017 6:00	19.86	95.4	7.23	8.7	SR13	3/22/2017 12:00	19.69	95.0	7.20	9.6	SR13	3/22/2017 18:00	19.33	90.6	6.86	7.0
SR13	3/22/2017 0:05	20.56	94.9	7.19	5.3	SR13	3/22/2017 6:05	19.85	91.3	6.92	7.3	SR13	3/22/2017 12:05	19.70	90.8	6.88	9.4	SR13	3/22/2017 18:05	19.33	91.6	6.94	5.5
SR13	3/22/2017 0:10	20.29	96.6	7.32	8.1	SR13	3/22/2017 6:10	19.88	96.4	7.30	8.5	SR13	3/22/2017 12:10	19.65	94.4	7.15	5.1	SR13	3/22/2017 18:10	19.33	93.6	7.09	7.4
SR13	3/22/2017 0:15	20.06	94.1	7.13	6.9	SR13	3/22/2017 6:15	19.82	96.1	7.28	7.4	SR13	3/22/2017 12:15	19.72	95.7	7.25	7.0	SR13	3/22/2017 18:15	19.35	95.3	7.22	7.1
SR13	3/22/2017 0:20	20.52	95.7	7.25	9.6	SR13	3/22/2017 6:20	19.88	93.7	7.10	9.6	SR13	3/22/2017 12:20	19.70	95.3	7.22	6.7	SR13	3/22/2017 18:20	19.34	96.8	7.33	9.0
SR13	3/22/2017 0:25	20.47	94.4	7.15	8.7	SR13	3/22/2017 6:25	19.94	95.0	7.20	7.2	SR13	3/22/2017 12:25	19.68	94.0	7.12	6.7	SR13	3/22/2017 18:25	19.35	96.0	7.27	6.6
SR13	3/22/2017 0:30	20.37	91.3	6.92	8.8	SR13	3/22/2017 6:30	19.91	91.6	6.94	5.7	SR13	3/22/2017 12:30	19.69	93.6	7.09	5.3	SR13	3/22/2017 18:30	19.34	92.3	6.99	9.1
SR13	3/22/2017 0:35	20.20	93.9	7.11	9.0	SR13	3/22/2017 6:35	19.91	93.3	7.07	5.8	SR13	3/22/2017 12:35	19.64	93.3	7.07	5.7	SR13	3/22/2017 18:35	19.33	94.4	7.15	6.2
SR13	3/22/2017 0:40	19.95	95.8	7.26	5.3	SR13	3/22/2017 6:40	19.88	91.5	6.93	7.3	SR13	3/22/2017 12:40	19.71	91.3	6.92	7.0	SR13	3/22/2017 18:40	19.32	95.6	7.24	8.7
SR13	3/22/2017 0:45	20.17	94.0	7.12	9.2	SR13	3/22/2017 6:45	19.90	96.8	7.33	5.3	SR13	3/22/2017 12:45	19.68	95.3	7.22	5.1	SR13	3/22/2017 18:45	19.33	95.4	7.23	5.7
SR13	3/22/2017 0:50	20.63	94.8	7.18	8.2	SR13	3/22/2017 6:50	19.83	91.2	6.91	6.9	SR13	3/22/2017 12:50	19.70	91.2	6.91	7.5	SR13	3/22/2017 18:50	19.33	96.2	7.29	7.0
SR13	3/22/2017 0:55	20.15	91.1	6.90	6.3	SR13	3/22/2017 6:55	19.81	92.9	7.04	7.3	SR13	3/22/2017 12:55	19.70	92.8	7.03	7.2	SR13	3/22/2017 18:55	19.33	92.1	6.98	5.6
SR13	3/22/2017 1:00	20.71	94.6	7.17	7.0	SR13	3/22/2017 7:00	19.81	96.2	7.29	8.8	SR13	3/22/2017 13:00	19.68	93.9	7.11	6.0	SR13	3/22/2017 19:00	19.35	94.5	7.16	5.3
SR13	3/22/2017 1:05	20.26	93.9	7.11	9.1	SR13	3/22/2017 7:05	19.80	90.6	6.86	8.0	SR13	3/22/2017 13:05	19.67	96.2	7.29	6.4	SR13	3/22/2017 19:05	19.36	91.6	6.94	5.7
SR13	3/22/2017 1:10	20.61	95.0	7.20	5.0	SR13	3/22/2017 7:10	19.80	91.5	6.93	6.8	SR13	3/22/2017 13:10	19.66	96.9	7.34	8.2	SR13	3/22/2017 19:10	19.37	95.7	7.25	8.9
SR13	3/22/2017 1:15	20.59	94.5	7.16	6.6	SR13	3/22/2017 7:15	19.78	95.6	7.24	8.5	SR13	3/22/2017 13:15	19.62	90.9	6.89	5.6	SR13	3/22/2017 19:15	19.37	92.8	7.03	9.5
SR13	3/22/2017 1:20	20.63	94.1	7.13	7.6	SR13	3/22/2017 7:20	19.79	92.5	7.01	5.0	SR13	3/22/2017 13:20	19.58	91.7	6.95	5.8	SR13	3/22/2017 19:20	19.37	94.4	7.15	5.8
SR13	3/22/2017 1:25	20.64	91.5	6.93	6.0	SR13	3/22/2017 7:25	19.79	94.0	7.12	7.7	SR13	3/22/2017 13:25	19.60	91.1	6.90	9.6	SR13	3/22/2017 19:25	19.37	96.0	7.27	5.2
SR13	3/22/2017 1:30	20.65	96.1	7.28	9.2	SR13	3/22/2017 7:30	19.78	94.0	7.12	6.6	SR13	3/22/2017 13:30	19.62	94.2	7.14	8.0	SR13	3/22/2017 19:30	19.36	90.6	6.86	9.6
SR13	3/22/2017 1:35	20.60	90.4	6.85	5.3	SR13	3/22/2017 7:35	19.77	90.6	6.86	7.6	SR13	3/22/2017 13:35	19.61	92.8	7.03	7.7	SR13	3/22/2017 19:35	19.37	96.6	7.32	7.9
SR13	3/22/2017 1:40	20.54	93.6	7.09	5.7	SR13	3/22/2017 7:40	19.74	90.9	6.89	7.8	SR13	3/22/2017 13:40	19.59	90.6	6.86	5.1	SR13	3/22/2017 19:40	19.37	90.4	6.85	8.8
SR13	3/22/2017 1:45	20.60	91.1	6.90	6.8	SR13	3/22/2017 7:45	19.76	95.7	7.25	7.2	SR13	3/22/2017 13:45	19.61	91.1	6.90	8.1	SR13	3/22/2017 19:45	19.37	92.3	6.99	9.3
SR13	3/22/2017 1:50	20.44	95.0	7.20	5.6	SR13	3/22/2017 7:50	19.79	90.8	6.88	9.1	SR13	3/22/2017 13:50	19.55	95.4	7.23	9.5	SR13	3/22/2017 19:50	19.40	94.2	7.14	6.3
SR13	3/22/2017 1:55	20.40	93.6	7.09	6.2	SR13	3/22/2017 7:55	19.77	92.3	6.99	8.9	SR13	3/22/2017 13:55	19.55	92.9	7.04	6.7	SR13	3/22/2017 19:55	19.42	96.9	7.34	9.3
SR13	3/22/2017 2:00	20.34	94.8	7.18	8.1	SR13	3/22/2017 8:00	19.77	92.1	6.98	5.2	SR13	3/22/2017 14:00	19.55	93.9	7.11	9.2	SR13	3/22/2017 20:00	19.43	94.2	7.14	9.1
SR13	3/22/2017 2:05	20.27	95.7	7.25	7.2	SR13	3/22/2017 8:05	19.76	96.1	7.28	8.4	SR13	3/22/2017 14:05	19.54	94.1	7.13	7.6	SR13	3/22/2017 20:05	19.45	96.0	7.27	9.1
SR13	3/22/2017 2:10	20.23	94.4	7.15	6.7	SR13	3/22/2017 8:10	19.76	94.2	7.14	6.7	SR13						SR13	3/22/2017 20:10	19.41	92.0	6.97	9.1
SR13	3/22/2017 2:15	20.16	94.2	7.14	9.0	SR13	3/22/2017 8:15	19.79	95.2	7.21	9.2	SR13						SR13	3/22/2017 20:15	19.43	90.6	6.86	5.9
SR13	3/22/2017 2:20	20.15	91.5	6.93	8.5	SR13	3/22/2017 8:20	19.79	92.4	7.00	5.6	SR13						SR13	3/22/2017 20:20	19.44	93.1	7.05	5.9
SR13	3/22/2017 2:25	20.14	93.5	7.08	5.6	SR13	3/22/2017 8:25	19.80	95.6	7.24	9.5	SR13	3/22/2017 14:25	19.54	95.7	7.25	8.5	SR13	3/22/2017 20:25	19.45	92.4	7.00	8.2
SR13	3/22/2017 2:30	20.13	91.6	6.94	7.4	SR13	3/22/2017 8:30	19.80	94.6	7.17	6.2	SR13	3/22/2017 14:30	19.52	91.1	6.90	5.1	SR13	3/22/2017 20:30	19.45	93.2	7.06	5.9
SR13	3/22/2017 2:35	20.10	91.1	6.90	7.0	SR13	3/22/2017 8:35	19.81	96.0	7.27	6.1	SR13	3/22/2017 14:35	19.50	93.1	7.05	8.0	SR13	3/22/2017 20:35	19.47	92.5	7.01	7.4
SR13	3/22/2017 2:40	20.07	92.4	7.00	9.2	SR13	3/22/2017 8:40	19.79	95.2	7.21	7.0	SR13	3/22/2017 14:40	19.50	94.0	7.12	6.5	SR13	3/22/2017 20:40	19.48	95.0	7.20	6.5
SR13	3/22/2017 2:45	20.10	94.1	7.13	5.9	SR13	3/22/2017 8:45	19.80	94.6	7.17	8.5	SR13	3/22/2017 14:45	19.51	94.1	7.13	8.3	SR13	3/22/2017 20:45	19.47	92.1	6.98	9.0
SR13	3/22/2017 2:50	20.02	90.8	6.88	9.4	SR13	3/22/2017 8:50	19.84	96.1	7.28	8.2	SR13	3/22/2017 14:50	19.50	96.8	7.33	8.0	SR13	3/22/2017 20:50	19.61	95.3	7.22	6.3
SR13	3/22/2017 2:55	20.23	92.0	6.97	7.4	SR13	3/22/2017 8:55	19.85	91.9	6.96	8.7	SR13	3/22/2017 14:55	19.48	92.5	7.01	5.6	SR13	3/22/2017 20:55	19.78	93.7	7.10	7.3
SR13	3/22/2017 3:00	20.22	93.5	7.08	6.1	SR13	3/22/2017 9:00	19.84	96.0	7.27	5.2	SR13	3/22/2017 15:00	19.47	95.7	7.25	5.5	SR13	3/22/2017 21:00	19.86	92.5	7.01	6.8
SR13	3/22/2017 3:05	20.26	90.9	6.89	7.2	SR13	3/22/2017 9:05	19.84	93.7	7.10	6.4	SR13	3/22/2017 15:05	19.48	91.1	6.90	6.5	SR13	3/22/2017 21:05	19.80	91.6	6.94	5.8
SR13	3/22/2017 3:10	20.20	95.7	7.25	6.9	SR13	3/22/2017 9:10	19.83	96.6	7.32	5.9	SR13	3/22/2017 15:10	19.50	91.9	6.96	7.4	SR13	3/22/2017 21:10	19.88	92.3	6.99	7.7
SR13	3/22/2017 3:15	20.10	94.4	7.15	8.1	SR13	3/22/2017 9:15	19.82	92.1	6.98	7.9	SR13	3/22/2017 15:15	19.49	90.8	6.88	8.2	SR13	3/22/2017 21:15	19.92	92.8	7.03	5.2
SR13	3/22/2017 3:20	20.06	95.0	7.20	6.5	SR13	3/22/2017 9:20	19.82	90.9	6.89	7.9	SR13	3/22/2017 15:20	19.49	92.9	7.04	6.2	SR13	3/22/2017 21:20	19.92	93.7	7.10	5.1
SR13	3/22/2017 3:25	20.10	92.5	7.01	7.7	SR13	3/22/2017 9:25	19.81	91.6	6.94	9.1	SR13	3/22/2017 15:25	19.48	92.0	6.97	6.9	SR13	3/22/2017 21:25	19.88	90.8	6.88	8.8
SR13	3/22/2017 3:30	20.09	91.6	6.94	6.1	SR13	3/22/2017 9:30	19.83	91.3	6.92	6.8	SR13	3/22/2017 15:30	19.48	94.8	7.18	8.1	SR13	3/22/2017 21:30	19.91	90.7	6.87	5.8
SR13	3/22/2017 3:35	20.02	95.3	7.22	6.4	SR13	3/22/2017 9:35	19.78	95.4	7.23	8.9	SR13	3/22/2017 15:35	19.49	90.7	6.87	8.8	SR13	3/22/2017 21:35	19.90	91.2	6.91	5.4
SR13	3/22/2017 3:40	20.04	90.9	6.89	5.9	SR13	3/22/2017 9:40	19.70	91.2	6.91	6.4	SR13	3/22/2017 15:40	19.47	94.8	7.18	7.2	SR13	3/22/2017 21:40	19.89	95.2	7.21	5.0
SR13	3/22/2017 3:45	20.05	95.7	7.25	9.0	SR13	3/22/2017 9:45	19.77	91.5	6.93	6.1	SR13	3/22/2017 15:45	19.48	91.5	6.93	7.9	SR13	3/22/2017 21:45	19.90	93.1	7.05	5.5
SR13	3/22/2017 3:50	20.12	94.9	7.19	9.0	SR13	3/22/2017 9:50	19.71	95.3	7.22	7.2	SR13	3/22/2017 15:50	19.44	92.1	6.98	5.7	SR13	3/22/2017 21:50	19.90	90.9	6.89	6.5
SR13	3/2																						

24-hr Water Quality Monitoring

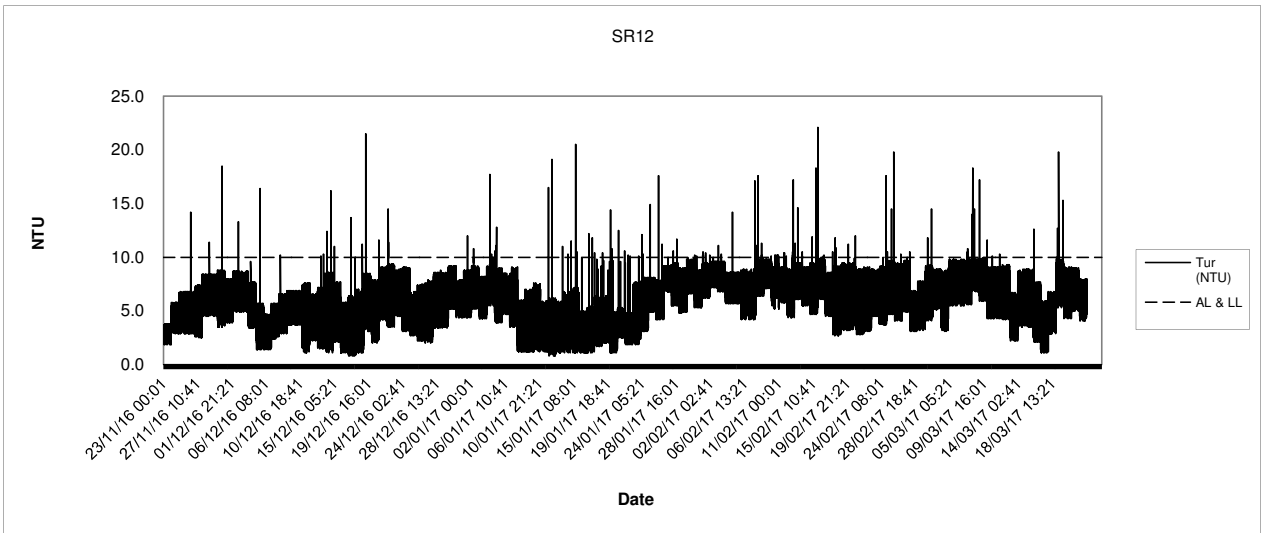
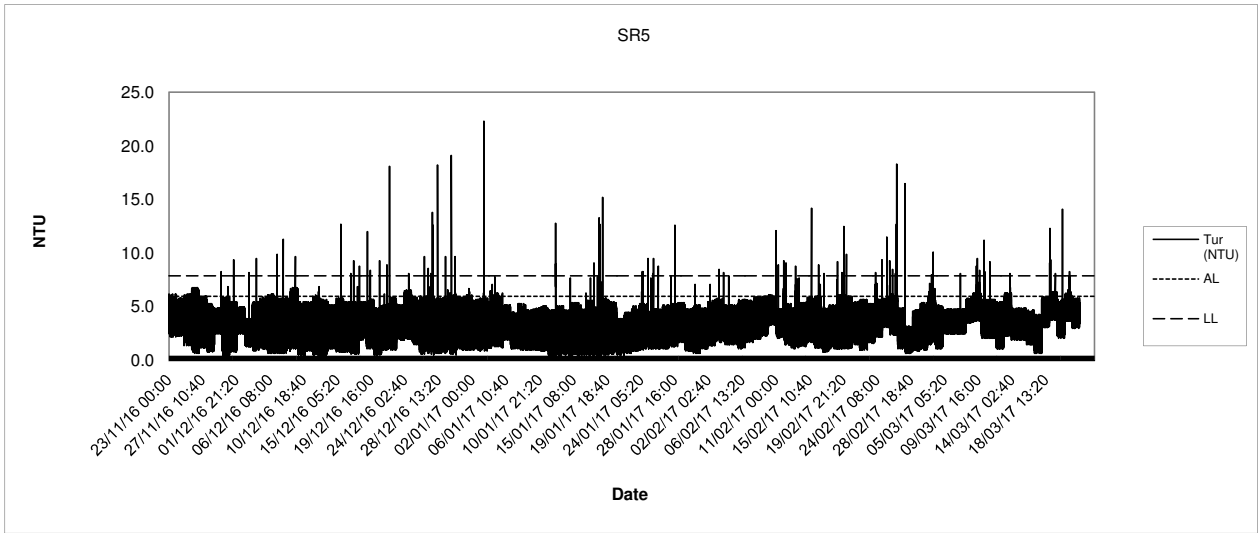
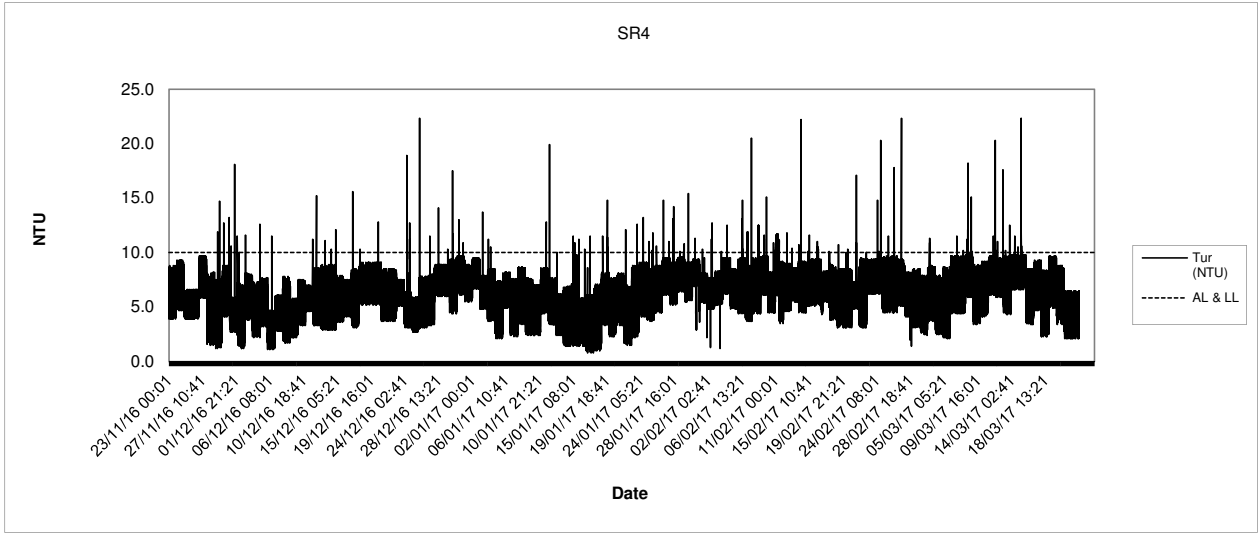
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SR4	3/22/2017 0:37	0.18				SR12	3/22/2017 0:37	0.20			
SR4	3/22/2017 0:57	0.20				SR12	3/22/2017 0:57	0.20			
SR4	3/22/2017 1:17	0.19				SR12	3/22/2017 1:17	0.21			
SR4	3/22/2017 1:37	0.17				SR12	3/22/2017 1:37	0.21			
SR4	3/22/2017 1:57	0.19				SR12	3/22/2017 1:57	0.19			
SR4	3/22/2017 2:17	0.21				SR12	3/22/2017 2:17	0.20			
SR4	3/22/2017 2:37	0.18				SR12	3/22/2017 2:37	0.21			
SR4	3/22/2017 2:57	0.17				SR12	3/22/2017 2:57	0.21			
SR4	3/22/2017 3:17	0.20				SR12	3/22/2017 3:17	0.18			
SR4	3/22/2017 3:37	0.18				SR12	3/22/2017 3:37	0.19			
SR4	3/22/2017 3:57	0.18				SR12	3/22/2017 3:57	0.17			
SR4	3/22/2017 4:17	0.20				SR12	3/22/2017 4:17	0.17			
SR4	3/22/2017 4:37	0.18				SR12	3/22/2017 4:37	0.18			
SR4	3/22/2017 4:57	0.20				SR12	3/22/2017 4:57	0.17			
SR4	3/22/2017 5:17	0.19				SR12	3/22/2017 5:17	0.21			
SR4	3/22/2017 5:37	0.20				SR12	3/22/2017 5:37	0.17			
SR4	3/22/2017 5:57	0.19				SR12	3/22/2017 5:57	0.17			
SR4						SR12					
SR4	3/22/2017 6:37	0.19				SR12	3/22/2017 6:37	0.17			
SR4	3/22/2017 6:57	0.20				SR12	3/22/2017 6:57	0.20			
SR4	3/22/2017 7:17	0.19				SR12	3/22/2017 7:17	0.20			
SR4	3/22/2017 7:37	0.21				SR12	3/22/2017 7:37	0.17			
SR4	3/22/2017 7:57	0.18				SR12	3/22/2017 7:57	0.20			
SR4	3/22/2017 8:17	0.19				SR12	3/22/2017 8:17	0.18			
SR4	3/22/2017 8:37	0.17				SR12	3/22/2017 8:37	0.21			
SR4	3/22/2017 8:57	0.16				SR12	3/22/2017 8:57	0.21			
SR4	3/22/2017 9:17	0.15				SR12	3/22/2017 9:17	0.21			
SR4	3/22/2017 9:37	0.16				SR12	3/22/2017 9:37	0.20			
SR4	3/22/2017 9:57	0.15				SR12	3/22/2017 9:57	0.20			
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SR4	3/22/2017 11:37	0.18				SR12	3/22/2017 11:37	0.17			
SR4	3/22/2017 11:57	0.19				SR12	3/22/2017 11:57	0.21			
SR4	3/22/2017 12:17	0.19				SR12	3/22/2017 12:17	0.19			
SR4	3/22/2017 12:37	0.19				SR12	3/22/2017 12:37	0.17			
SR4	3/22/2017 12:57	0.19				SR12	3/22/2017 12:57	0.18			
SR4	3/22/2017 13:17	0.19				SR12	3/22/2017 13:17	0.17			
SR4	3/22/2017 13:37	0.16				SR12	3/22/2017 13:37	0.18			
SR4	3/22/2017 13:57	0.15				SR12	3/22/2017 13:57	0.18			
SR4	3/22/2017 14:17	0.16				SR12	3/22/2017 14:17	0.17			
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SR4	3/22/2017 16:17	0.15				SR12	3/22/2017 16:17	0.17			
SR4	3/22/2017 16:37	0.16				SR12	3/22/2017 16:37	0.17			
SR4	3/22/2017 16:57	0.19				SR12	3/22/2017 16:57	0.20			
SR4	3/22/2017 17:17	0.18				SR12	3/22/2017 17:17	0.20			
SR4	3/22/2017 17:37	0.17				SR12	3/22/2017 17:37	0.18			
SR4	3/22/2017 17:57	0.19				SR12	3/22/2017 17:57	0.20			
SR4	3/22/2017 18:17	0.16				SR12	3/22/2017 18:17	0.19			
SR4	3/22/2017 18:37	0.17				SR12	3/22/2017 18:37	0.17			
SR4	3/22/2017 18:57	0.16				SR12	3/22/2017 18:57	0.17			
SR4	3/22/2017 19:17	0.15				SR12	3/22/2017 19:17	0.20			
SR4	3/22/2017 19:37	0.15				SR12	3/22/2017 19:37	0.19			
SR4	3/22/2017 19:57	0.15				SR12	3/22/2017 19:57	0.21			
SR4	3/22/2017 20:17	0.15				SR12	3/22/2017 20:17	0.17			
SR4	3/22/2017 20:37	0.17				SR12	3/22/2017 20:37	0.18			
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SR4	3/22/2017 21:17	0.16				SR12	3/22/2017 21:17	0.20			
SR4	3/22/2017 21:37	0.17				SR12	3/22/2017 21:37	0.21			
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SR4	3/22/2017 22:57	0.19				SR12	3/22/2017 22:57	0.19			
SR4	3/22/2017 23:17	0.15				SR12	3/22/2017 23:17	0.17			
SR4	3/22/2017 23:37	0.19				SR12	3/22/2017 23:37	0.19			
SR4	3/22/2017 23:57	0.17				SR12	3/22/2017 23:57	0.17			

Remark: Fonts with underline: Action Level Exceedance

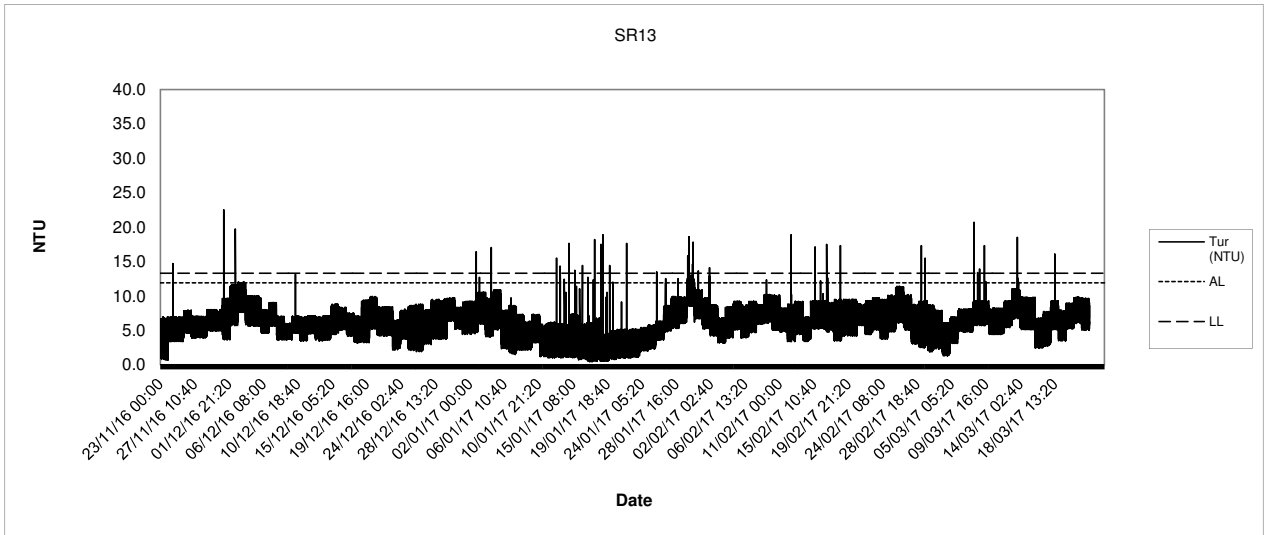
**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12. SR13 monitoring station was under maintenance during 14:05-14:25.

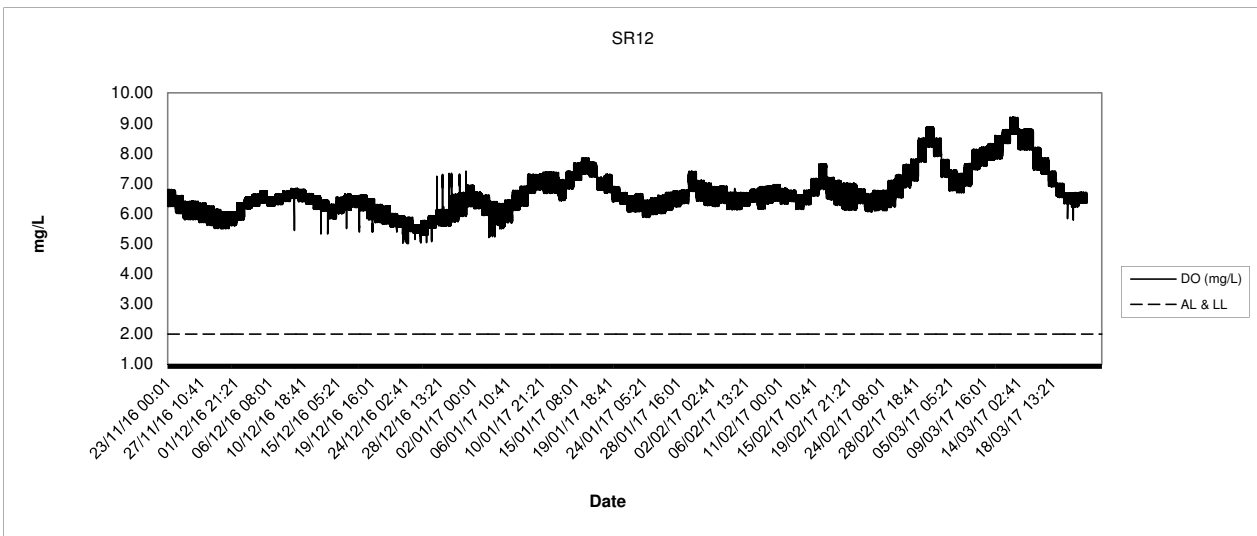
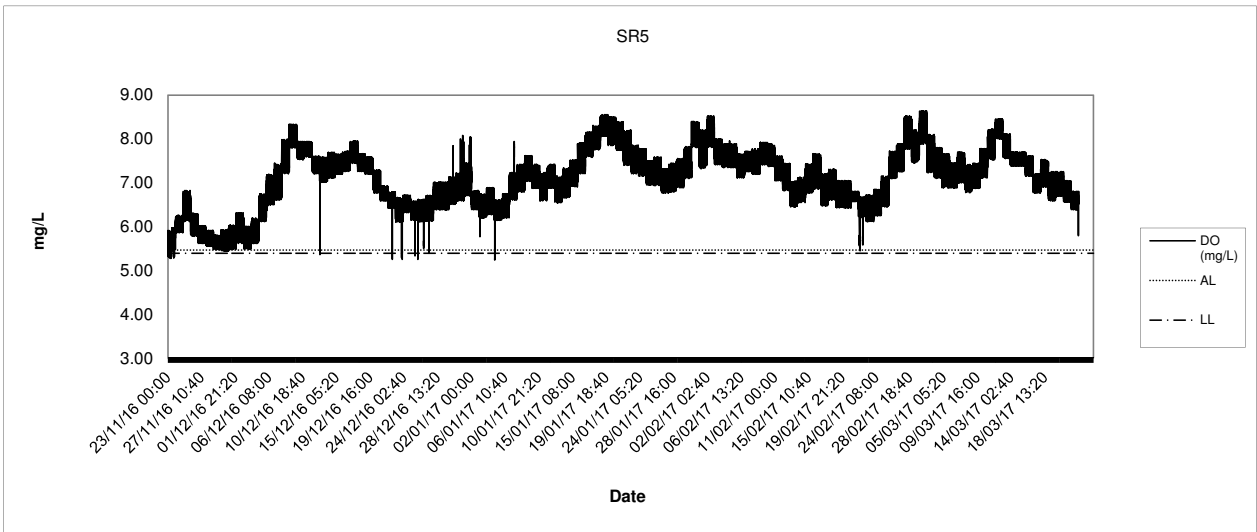
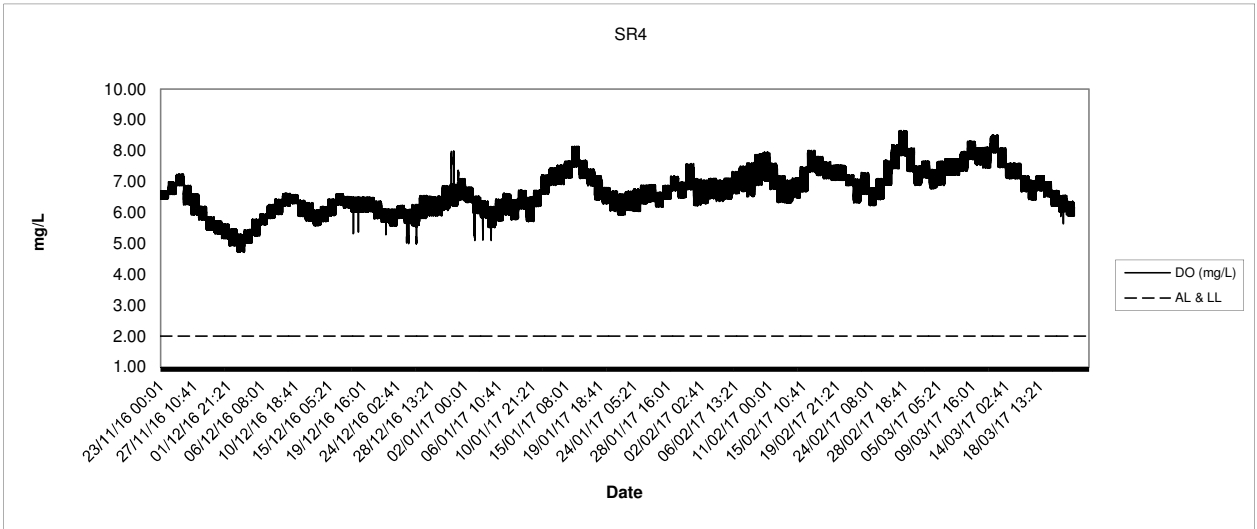
### Turbidity 24-hr Water Quality Monitoring



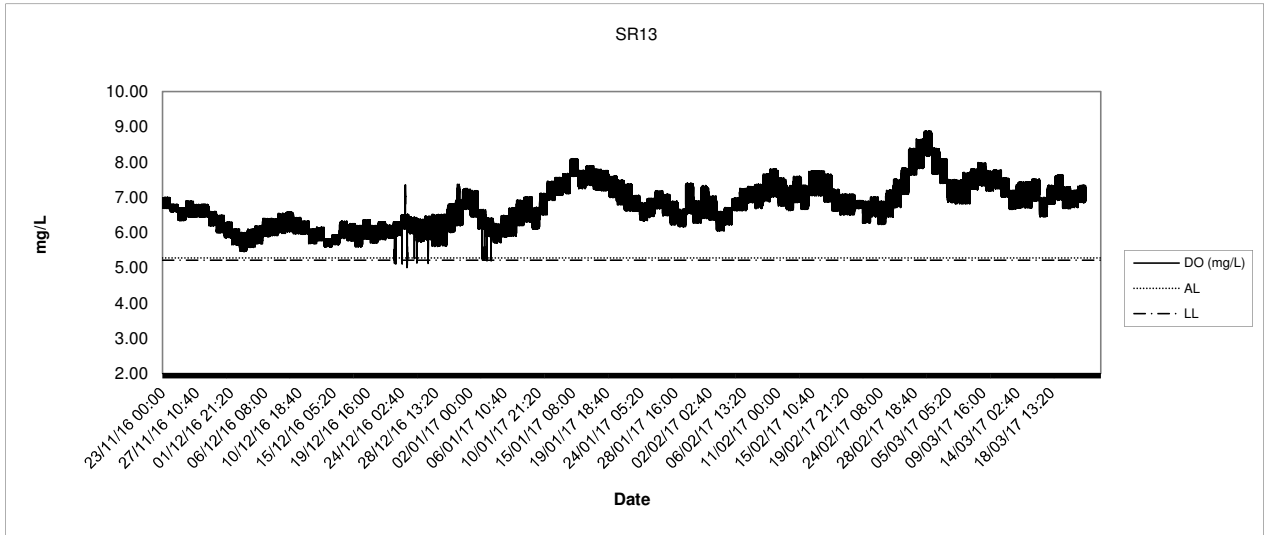
**Turbidity  
24-hr Water Quality Monitoring**



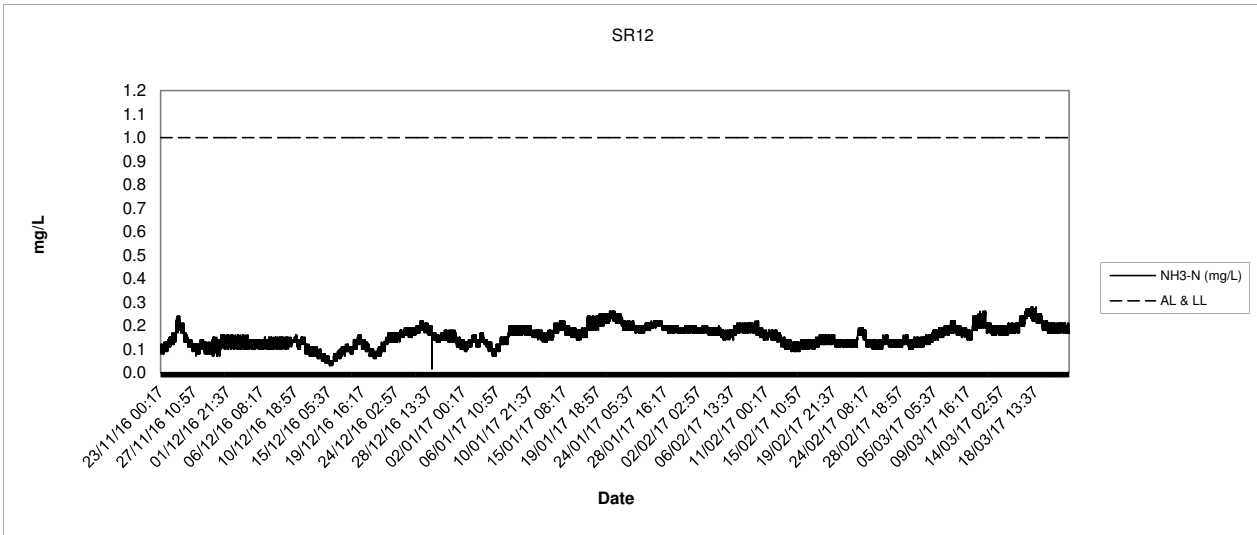
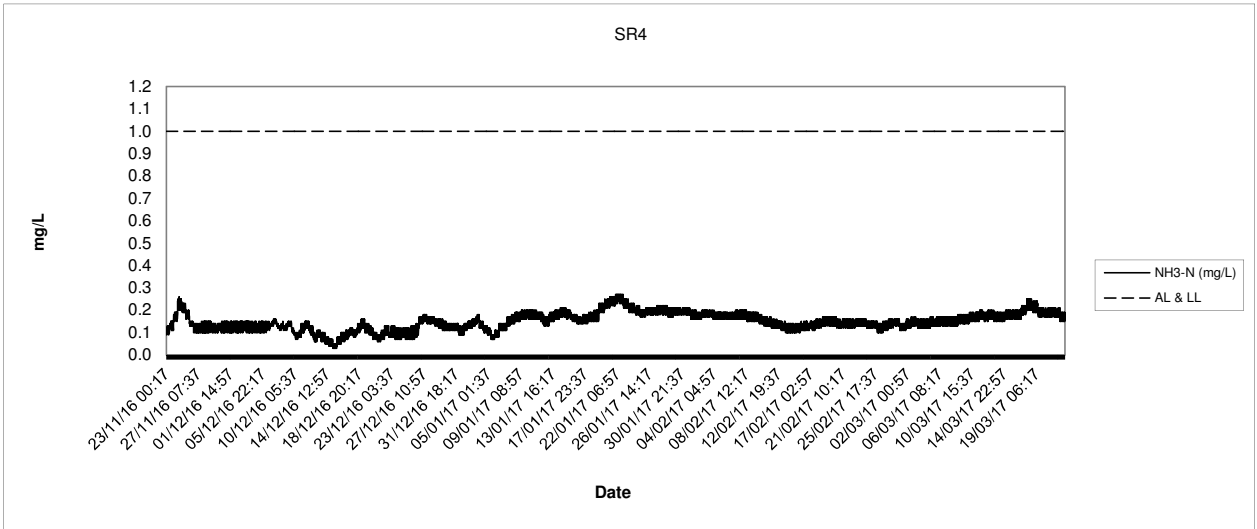
Dissolved Oxygen  
24-hr Water Quality Monitoring



Dissolved Oxygen  
24-hr Water Quality Monitoring



**Ammonia-N  
24-hr Water Quality Monitoring**



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**MaterialLab**

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Report No.: 0394/13/ED/0356A

Appendix H  
Event and Action Plans



## Typical Event and Action Plan for Water Quality for Construction Phase

Event	Action			
	ET Leader	IEC	ER	Contractor
Action Level				
Exceedance for one sample	<ol style="list-style-type: none"> <li>1. Repeat in-situ measurement to confirm finding;</li> <li>2. Identify source(s) of impact;</li> <li>3. Inform IEC and Contractor;</li> <li>4. Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>5. Discuss mitigation measures with IEC and Contractor; and</li> <li>6. Repeat measurement on next day of exceedance.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss with ET and Contractor on the mitigation measures;</li> <li>2. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; and</li> <li>3. Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss with IEC on the proposed mitigation measures; and</li> <li>2. Make agreement on the mitigation measures to be implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Inform the ER and confirm notification of the non-compliance in writing;</li> <li>2. Rectify unacceptable practice;</li> <li>3. Check all plant and equipment;</li> <li>4. Consider changes of working methods;</li> <li>5. Discuss with ET and IEC and propose mitigation measures to IEC and ER; and</li> <li>6. Implement the agreed mitigation measures.</li> </ol>
Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> <li>1. Repeat in-situ measurement to confirm finding;</li> <li>2. Identify source(s) of impact;</li> <li>3. Inform IEC and Contractor;</li> <li>4. Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>5. Discuss mitigation measures with IEC and Contractor;</li> <li>6. Ensure mitigation measures are implemented;</li> <li>7. Prepare to increase the monitoring frequency to daily; and</li> <li>8. Repeat measurement on next day of exceedance.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss with ET and Contractor on the mitigation measures;</li> <li>2. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; and</li> <li>3. Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss with IEC on the proposed mitigation measures;</li> <li>2. Make agreement on the mitigation measures to be implemented; and</li> <li>3. Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Inform the ER and confirm notification of the non-compliance in writing;</li> <li>2. Rectify unacceptable practice;</li> <li>3. Check all plant and equipment;</li> <li>4. Consider changes of working methods;</li> <li>5. Discuss with ET and IEC and propose mitigation measures to IEC and ER within 3 working days; and</li> <li>6. Implement the agreed mitigation measures.</li> </ol>
Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> <li>1. Repeat in-situ measurement to confirm finding;</li> <li>2. Identify source(s) of impact;</li> <li>3. Inform IEC and Contractor;</li> <li>4. Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>5. Discuss mitigation measures with IEC and Contractor;</li> <li>6. Ensure mitigation measures are implemented;</li> <li>7. Prepare to increase the monitoring frequency to daily; and</li> <li>8. Repeat measurement on next day of exceedance.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss with ET and Contractor on the mitigation measures;</li> <li>2. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; and</li> <li>3. Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss with IEC on the proposed mitigation measures;</li> <li>2. Make agreement on the mitigation measures to be implemented; and</li> <li>3. Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Inform the ER and confirm notification of the non-compliance in writing;</li> <li>2. Rectify unacceptable practice;</li> <li>3. Check all plant and equipment;</li> <li>4. Consider changes of working methods;</li> <li>5. Discuss with ET and IEC and propose mitigation measures to IEC and ER within 3 working days; and</li> <li>6. Implement the agreed mitigation measures.</li> </ol>
Limit Level				
Exceedance for one sample	<ol style="list-style-type: none"> <li>1. Repeat in-situ measurement to confirm finding;</li> <li>2. Identify source(s) of impact;</li> <li>3. Inform IEC, Contractor and EPD, if the exceedance is recorded at Fish Culture Zone, AFCD should be informed. If the exceedance is recorded at WSD Flushing Water intakes, WSD should be informed;</li> <li>4. Check monitoring data, all plant, equipment</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss with ET and Contractor on the mitigation measures;</li> <li>2. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; and</li> <li>3. Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss with IEC, ET and Contractor on the proposed mitigation measures; and</li> <li>2. Request Contractor to critically review the working methods;</li> <li>3. Make agreement on the mitigation measures to be implemented; and</li> <li>4. Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Inform the ER and confirm notification of the non-compliance in writing;</li> <li>2. Rectify unacceptable practice;</li> <li>3. Check all plant and equipment;</li> <li>4. Consider changes of working methods;</li> <li>5. Discuss with ET and IEC and ER and propose mitigation measures to IEC and ER within 3 working days; and</li> <li>6. Implement the agreed mitigation measures.</li> </ol>

Event	Action			
	ET Leader	IEC	ER	Contractor
	<p>and Contractor's working methods;</p> <p>5. Discuss mitigation measures with IEC, ER and Contractor;</p> <p>6. Ensure mitigation measures are implemented; and</p> <p>7. Increase the monitoring frequency to daily until no exceedance of Limit level.</p>			
Exceedance for two or more consecutive samples	<p>1. Repeat in-situ measurement to confirm finding;</p> <p>2. Identify source(s) of impact;</p> <p>3. Inform IEC, Contractor and EPD, if the exceedance is recorded at Fish Culture Zone, AFCD should be informed. If the exceedance is recorded at WSD Flushing Water intakes, WSD should be informed;</p> <p>4. Check monitoring data, all plant, equipment and Contractor's working methods;</p> <p>5. Discuss mitigation measures with IEC, ER and Contractor;</p> <p>6. Ensure mitigation measures are implemented; and</p> <p>7. Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days.</p>	<p>1. Discuss with ET and Contractor on the mitigation measures;</p> <p>2. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; and</p> <p>3. Assess the effectiveness of the implemented mitigation measures.</p>	<p>1. Discuss with IEC, ET and Contractor on the proposed mitigation measures; and</p> <p>2. Request Contractor to critically review the working methods;</p> <p>3. Make agreement on the mitigation measures to be implemented;</p> <p>4. Assess the effectiveness of the implemented mitigation measures; and</p> <p>5. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit Level.</p>	<p>1. Inform the ER and confirm notification of the non-compliance in writing;</p> <p>2. Rectify unacceptable practice;</p> <p>3. Check all plant and equipment;</p> <p>4. Consider changes of working methods;</p> <p>5. Discuss with ET and IEC and ER and propose mitigation measures to IEC and ER within 3 working days;</p> <p>6. Implement the agreed mitigation measures; and</p> <p>7. As directed by the ER, to slow down or to stop all or part of the marine work or construction activities.</p>

## Event and Action Plan for 24-hour Water Quality Monitoring

Event	Action			
	ET Leader	Contractor	ER	IEC
Action Level				
On Action Level exceedance of turbidity or DO (mg/L) (over a period of 30-minute), or exceedance of ammonia (mg/L) (over a period of 60-minute). Notification is sent to ET, Contractor, ER, EPD, AFCD and WSD automatically via email	<ol style="list-style-type: none"> <li>1. Check data and determine if the exceedance was due to equipment problem. If so, fix the problem within 1 working day. Continue monitoring</li> <li>2. Carry out investigation as soon as possible after identification of exceedance. Check monitoring data (including data from regular water quality), all plant, equipment and Contractor's working methods;</li> <li>3. Report the initial investigation results to the Contractor within 24 hours of identification of exceedance. Advise contractor if exceedance may be due to contractor's construction works.</li> <li>4. Conduct water quality monitoring at the mariculture/ WSD flushing water intake station with exceedance recorded and gradient stations in vicinity within 18 hours of identification of exceedance if the exceedance may be due to the works. Parameters to monitor include DO (mg/L), turbidity and SS.</li> <li>5. Report the monitoring data to the Contractor within 48 hours of identification of exceedance. Advise contractor if exceedance is due to contractor's construction works.</li> <li>6. Discuss mitigation measures with IEC, ER and Contractor within 2 working days of submission of the investigation results.</li> <li>7. Ensure mitigation measures are implemented;</li> <li>8. Closely monitor the concerned 24-hr station.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check all plant and equipment;</li> <li>2. Consider changes of working methods;</li> <li>3. Rectify unacceptable practice;</li> <li>4. Submit the monitoring data and results of the investigation to IEC and ER within 48 hours of the identification of an exceedance Inform EPD, AFCD and WSD of the results;</li> <li>5. Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 2 working days of submission of the investigation results;</li> <li>6. Implement the agreed mitigation measures within reasonable time scale</li> </ol>	<ol style="list-style-type: none"> <li>1. Request Contractor to critically review the working methods;</li> <li>2. Discuss with IEC, ET and Contractor on the proposed mitigation measures;</li> <li>3. Ensure remedial measures are properly implemented</li> <li>4. Assess the effectiveness of the implemented mitigation measures</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET</li> <li>2. Confirm ET assessment if exceedance is due /not due to the works</li> <li>3. Discuss with ET, ER and Contractor on the mitigation measures</li> <li>4. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly</li> <li>5. Assess the effectiveness of the implemented mitigation measures</li> </ol>
Limit Level				
On Limit Level exceedance of turbidity or DO (mg/L) (over a period of 30-minute or exceedance of ammonia (mg/L) (over a period of 60-minute). Notification is sent to ET, Contractor, ER, EPD, AFCD and	<ol style="list-style-type: none"> <li>1. Check data and determine if the exceedance was due to equipment problem. If so, fix the problem within 1 working day. Continue monitoring</li> <li>2. Carry out investigation as soon as possible after identification of exceedance. Check monitoring data (including data from regular water quality), all plant, equipment and Contractor's working methods;</li> </ol>	<ol style="list-style-type: none"> <li>1. Check all plant and equipment;</li> <li>2. Consider changes of working methods;</li> <li>3. Rectify unacceptable practice;</li> <li>4. Submit the monitoring data and results of the investigation to IEC and ER within 48 hours of the identification of an exceedance Inform EPD, AFCD and WSD of the results;</li> <li>5. Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within</li> </ol>	<ol style="list-style-type: none"> <li>1. Request Contractor to critically review the working methods;</li> <li>2. Discuss with IEC, ET and Contractor on the proposed mitigation measures;</li> <li>3. Ensure remedial measures are properly implemented</li> <li>4. Assess the effectiveness of the implemented mitigation measures;</li> <li>5. Consider and instruct, if necessary, the Contractor to slow down or to stop all or</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET</li> <li>2. Confirm ET assessment if exceedance is due /not due to the works</li> <li>3. Discuss with ET, ER and Contractor on the mitigation measures</li> <li>4. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly</li> <li>5. Assess the effectiveness of the implemented mitigation measures</li> </ol>

Event	Action			
	ET Leader	Contractor	ER	IEC
WSD automatically via email	<p>3. Report the initial investigation results to the Contractor within 24 hours of identification of exceedance. Advise contractor if exceedance may be due to contractor's construction works.</p> <p>4. Conduct water quality monitoring at the all monitoring stations within 18 hours of identification of exceedance if the exceedance may be due to the works. Parameters to monitor include DO (mg/L), turbidity and SS.</p> <p>5. Report the monitoring data to the Contractor within 48 hours of identification of exceedance. Advise contractor if exceedance is due to contractor's construction works.</p> <p>6. Discuss mitigation measures with IEC, ER and Contractor within 2 working days of submission of the investigation results.</p> <p>7. Ensure mitigation measures are implemented;</p> <p>8. Closely monitor the concerned 24-hr station.</p>	<p>2 working days of submission of the investigation results;</p> <p>6. Implement the agreed mitigation measures within reasonable time scale;</p> <p>7. As directed by ER, to slow down or stop all or part of the marine work or construction activities.</p>	<p>part of the marine work until no exceedance of Limit Level.</p>	

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**MaterialLab**

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Report No.: 0394/13/ED/0356A

Appendix I

Details of Notification of Exceedances

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**MaterialLab**

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Report No.: 0394/13/ED/0356A

Routine Impact Monitoring

**MATERIALAB CONSULTANTS LIMITED**

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**Interim Notification of Environmental Quality Limits Exceedances  
Impact Water Quality Monitoring**

**Incident Report on Action Level or Limit Level Non-compliance**

Reference No.:	20170223 /IM/SR5					
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel					
Date:	23/02/2017					
Time: (hh:mm)	Mid-Flood: 12:58	Mid-Ebb: 11:36				
Monitoring Location:	SR5 - Ma Wan FCZ					
Action Level / Limit Level:	DO (S&M): 5.45 / 5.39 mg/L	Turbidity: 6.7 / 10.1 NTU				
	DO (B): 5.43 / 5.27 mg/L	TIN: 0.45/0.50(wet season) or 0.36/0.39(dry season)mg/L				
	TSS: 12 / 19 mg/L	:				
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:	Mid-Ebb:				
	DO (S&M): _____ AL / LL	DO (B): _____ AL / LL	DO (S&M): _____ AL / LL	DO (B): _____ AL / LL		
	Turbidity: _____ AL / LL	TIN(In-situ): <u>0.49</u> AL / <input checked="" type="checkbox"/> LL	Turbidity: _____ AL / LL	TIN(In-situ): <u>0.51</u> AL / <input checked="" type="checkbox"/> LL		
	TIN(Lab): <u>0.49</u> AL / <input checked="" type="checkbox"/> LL	_____ AL / LL	TIN(Lab): <u>0.50</u> AL / <input checked="" type="checkbox"/> LL	_____ AL / LL		
Action taken / to be taken: (tick / fill in as appropriate)	Inspection:					
	<input type="checkbox"/> Silt curtain in proper condition <input type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____					
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)		DO(S&M)	DO(B)	Turbidity	TIN (In-situ)	TIN (Lab)
	Findings / Evidences					
	<input checked="" type="checkbox"/> Station at Upstream Location at ME				✓	✓
	<input checked="" type="checkbox"/> Upstream Control Station (or gradient station) exceeded AL/LL				MF:0.71mg/L(C2A)	MF:0.71mg/L(C2A)
	<input type="checkbox"/> No increasing trend towards the Project at MF:	Upstream: _____ ( )mg/L	Upstream: _____ ( )mg/L	Upstream: _____ ( )NTU	Upstream: _____ ( )mg/L	
	Downstream: _____ ( )mg/L	Downstream: _____ ( )mg/L	Downstream: _____ ( )NTU	Downstream: _____ ( )mg/L		
Conclusion	<input checked="" type="checkbox"/> No Dredging Works carried out.					
	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.				✓	✓
Remarks: (tick / fill in as appropriate)	Repeat In-situ measurement was done.					
	Mid-Flood:	DO (S&M): _____	DO (B): _____	Turbidity: _____		
		TIN: <u>0.49</u>	:	:		
	Mid-Ebb:	DO (S&M): _____	DO (B): _____	Turbidity: _____		
	TIN: <u>0.51</u>	:	:			
	<input type="checkbox"/> _____ _____ _____ _____					

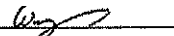
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**Materialab**

	DO(S&M)	DO(B)	Turbidity	TIN (In-situ)	TIN (Lab)
Others					

Prepared by: Wingo SoSignature: Date (dd/mm/yyyy): 15 / 03 / 2017

Certified by: Collin Yung

Designation: Environmental Team Leader

Signature: Date (dd/mm/yy): 15 / 03 / 2017**Notes:**

- Abbreviation:

AL – Action Level

DO (B) – Dissolved Oxygen (Bottom)

DO (S&amp;M) – Dissolved Oxygen (Surface &amp; Middle)

LL – Limit Level

ME – Mid Ebb

MF – Mid Flood

NH3-N (In-situ) – Ammoniacal Nitrogen (In-situ results)

NH3-N (Lab) – Ammoniacal Nitrogen (Laboratory results)

TIN (In-situ) – Total Inorganic Nitrogen (In-situ results)

TIN (Lab) – Total Inorganic Nitrogen (Laboratory results)

TSS – Total Suspended Solids

- Wet Season: April to October; Dry Season: November to March



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**Interim Notification of Environmental Quality Limits Exceedances  
Impact Water Quality Monitoring**

**Incident Report on Action Level or Limit Level Non-compliance**

Reference No.:	20170225 /IM/SR4					
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel					
Date:	25/02/2017					
Time: (hh:mm)	Mid-Flood: 08:11		Mid-Ebb: 12:06			
Monitoring Location:	SR4 - Tsuen Wan, WSD Flushing Water Intake					
Action Level / Limit Level:	DO (S&M): 2/2 mg/L;	NH3-N: <1/<1 mg/L ;				
	DO (B): 2/2 mg/L;	Turbidity: <10/<10 NTU;				
	Total Suspended Solids : <10/<10 mg/L	_____ : _____ / _____ mg/L				
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:		Mid-Ebb:			
	DO (S&M): _____ AL / LL	DO (B): _____ AL / LL	DO (S&M): _____ AL / LL	DO (B): _____ AL / LL		
	Turbidity: _____ AL / LL	NH3-N(In-situ): _____ AL / LL	Turbidity: _____ AL / LL	NH3-N(In-situ): _____ AL / LL		
	NH3-N(Lab): _____ AL / LL	TSS : 13 AL / (L)	NH3-N(Lab): _____ AL / LL	TSS : 11 AL / (L)		
Action taken / to be taken: (tick / fill in as appropriate)	Inspection: <input type="checkbox"/> Silt curtain in proper condition <input type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____					
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)		DO(S&M)	DO(B)	Turbidity	NH3-N	TSS
	Findings / Evidences					
	<input checked="" type="checkbox"/> Station at Upstream Location at ME					✓
	<input type="checkbox"/> Upstream Control Station ( or gradient station ) exceeded AL/LL					
<input checked="" type="checkbox"/> No increasing / decreasing (for <del>DO</del> ) trend across the Project at MF	Upstream:	( ) mg/L	Upstream:	( ) mg/L	Upstream:	( ) NTU
	Downstream:	( ) mg/L	Downstream:	( ) mg/L	Downstream:	( ) NTU
<input checked="" type="checkbox"/> No Dredging Works carried out.						
Conclusion	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.					✓
Remarks: (tick / fill in as appropriate)	Repeat In-situ measurement was done.					
	Mid-Flood:	DO (S&M): _____	DO (B): _____	Turbidity: _____		
		NH3-N: _____	_____	_____		
	Mid-Ebb:	DO (S&M): _____	DO (B): _____	Turbidity: _____		
		NH3-N: _____	_____	_____		
<input type="checkbox"/> _____ _____ _____ _____						

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**MaterialLab**

	DO(S&M)	DO(B)	Turbidity	NH3-N	
Others					

Prepared by: Wingo SoSignature: Date (dd/mm/yyyy): 15 / 03 / 2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature: Date (dd/mm/yy): 15 / 03 / 2017

## Notes:

- Abbreviation:

AL – Action Level

DO (B) – Dissolved Oxygen (Bottom)

DO (S&amp;M) – Dissolved Oxygen (Surface &amp; Middle)

LL – Limit Level

ME – Mid Ebb

MF – Mid Flood

NH3-N (In-situ) – Ammoniacal Nitrogen (In-situ results)

NH3-N (Lab) – Ammoniacal Nitrogen (Laboratory results)

TIN (In-situ) – Total Inorganic Nitrogen (In-situ results)

TIN (Lab) – Total Inorganic Nitrogen (Laboratory results)

TSS – Total Suspended Solids

- Wet Season: April to October; Dry Season: November to March

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**Interim Notification of Environmental Quality Limits Exceedances  
Impact Water Quality Monitoring**

**Incident Report on Action Level or Limit Level Non-compliance**

Reference No.:	20170225 /IM/SR12					
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel					
Date:	25/02/2017					
Time: (hh:mm)	Mid-Flood: 07:49		Mid-Ebb: 12:37			
Monitoring Location:	SR12 - Tsing Yi, WSD Flushing Water Intake					
Action Level / Limit Level:	DO (S&M): 2/2 mg/L;	NH3-N: <1/<1 mg/L ;				
	DO (B): 2/2 mg/L;	Turbidity: <10/<10 NTU;				
	Total Suspended Solids : <10/<10 mg/L	_____ : _____ / _____ mg/L				
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:		Mid-Ebb:			
	DO (S&M): _____ AL / LL	DO (B): _____ AL / LL	DO (S&M): _____ AL / LL	DO (B): _____ AL / LL		
	Turbidity: _____ AL / LL	NH3-N(In-situ): _____ AL / LL	Turbidity: _____ AL / LL	NH3-N(In-situ): _____ AL / LL		
	NH3-N(Lab): _____ AL / LL	TSS : 10 AL / LL	NH3-N(Lab): _____ AL / LL	TSS : _____ AL / LL		
Action taken / to be taken: (tick / fill in as appropriate)	Inspection: <input type="checkbox"/> Silt curtain in proper condition <input type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____					
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)		DO(S&M)	DO(B)	Turbidity	NH3-N	TSS
	Findings / Evidences					
	<input type="checkbox"/> Station at Upstream Location at ME					
	<input type="checkbox"/> Upstream Control Station ( <sup>or gradient station</sup> ) exceeded AL/LL					
<input checked="" type="checkbox"/> <del>No increasing / decreasing (for DO) trend across the Project at MF</del>	Upstream: _____ ( )mg/L	Upstream: _____ ( )mg/L	Upstream: _____ ( )NTU	Upstream: _____ ( )mg/L	Upstream: 7 mg/L (C2A)	
	Downstream: _____ ( )mg/L	Downstream: _____ ( )mg/L	Downstream: _____ ( )NTU	Downstream: _____ ( )mg/L	Downstream: 8 mg/L (C1A)	
<input checked="" type="checkbox"/> No Dredging Works carried out.						
Conclusion	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.				✓	
Remarks: (tick / fill in as appropriate)	Repeat In-situ measurement was done. Mid-Flood: DO (S&M): _____ DO (B): _____ Turbidity: _____ NH3-N: _____ : _____ : _____ Mid-Ebb: DO (S&M): _____ DO (B): _____ Turbidity: _____ NH3-N: _____ : _____ : _____ <input type="checkbox"/> _____ _____ _____ _____					


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**Materialab**

	DO(S&M)	DO(B)	Turbidity	NH3-N	
Others					

Prepared by: Wingo SoSignature: Date (dd/mm/yyyy): 15/03/2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature: Date (dd/mm/yy): 15/03/2017**Notes:**

- Abbreviation:

AL – Action Level

DO (B) – Dissolved Oxygen (Bottom)

DO (S&amp;M) – Dissolved Oxygen (Surface &amp; Middle)

LL – Limit Level

ME – Mid Ebb

MF – Mid Flood

NH3-N (In-situ) – Ammoniacal Nitrogen (In-situ results)

NH3-N (Lab) – Ammoniacal Nitrogen (Laboratory results)

TIN (In-situ) – Total Inorganic Nitrogen (In-situ results)

TIN (Lab) – Total Inorganic Nitrogen (Laboratory results)

TSS – Total Suspended Solids

- Wet Season: April to October; Dry Season: November to March

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**Interim Notification of Environmental Quality Limits Exceedances  
Impact Water Quality Monitoring**

Incident Report on Action Level or Limit Level Non-compliance

Reference No.:	20170302 /IM/SR5								
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel								
Date:	02/03/2017								
Time: (hh:mm)	Mid-Flood: 11:36		Mid-Ebb: 12:34						
Monitoring Location:	SR5 - Ma Wan FCZ								
Action Level / Limit Level:	DO (S&M): 5.45 / 5.39 mg/L	Turbidity: 6.7 / 10.1 NTU							
	DO (B): 5.43 / 5.27 mg/L	TIN: 0.45/0.50 <sub>(wet season)</sub> or 0.36/0.39 <sub>(dry season)</sub> mg/L							
	TSS : 12 / 19 mg/L	:	/ mg/L						
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:		Mid-Ebb:						
	DO (S&M):	AL / LL	DO (B):	AL / LL	DO (S&M):	AL / LL	DO (B):	AL / LL	
	Turbidity:	AL / LL	TIN(In-situ):	AL / LL	Turbidity:	AL / LL	TIN(In-situ):	0.38 (A) / LL	
	TIN(Lab):	AL / LL	:	AL / LL	TIN(Lab):	0.38 (A) / LL	:	AL / LL	
Action taken / to be taken: (tick / fill in as appropriate)	Inspection:								
	<input type="checkbox"/> Silt curtain in proper condition <input type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____								
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)	Findings / Evidences								
	<input checked="" type="checkbox"/> Station at Upstream Location at ME					✓	✓		
	<input type="checkbox"/> Upstream Control Station (station) exceeded AL/LL								
	<input type="checkbox"/> No increasing trend towards the Project at MF:	Upstream:	( ) mg/L	Upstream:	( ) mg/L	Upstream:	( ) NTU	Upstream:	( ) mg/L
		Downstream:	( ) mg/L	Downstream:	( ) mg/L	Downstream:	( ) NTU	Downstream:	( ) mg/L
<input checked="" type="checkbox"/> No Dredging Works carried out.									
Conclusion	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, I.e. not Project related.					✓	✓		
Remarks: (tick / fill in as appropriate)	Repeat In-situ measurement was done.								
	Mid-Flood:	DO (S&M):	_____	DO (B):	_____	Turbidity:	_____		
		TIN:	_____	:	_____	:	_____		
	Mid-Ebb:	DO (S&M):	_____	DO (B):	_____	Turbidity:	_____		
	TIN:	0.38	:	_____	:	_____	_____		
<input type="checkbox"/> _____ _____ _____ _____									

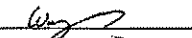
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**MaterialLab**

	DO(S&M)	DO(B)	Turbidity	TIN (In-situ)	TIN (Lab)
Others					

Prepared by: Wingo SoSignature: Date (dd/mm/yyyy): 17/03/2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature: Date (dd/mm/yy): 17/03/2017**Notes:**

- Abbreviation:

AL – Action Level

DO (B) – Dissolved Oxygen (Bottom)

DO (S&amp;M) – Dissolved Oxygen (Surface &amp; Middle)

LL – Limit Level

ME – Mid Ebb

MF – Mid Flood

NH3-N (In-situ) – Ammoniacal Nitrogen (In-situ results)

NH3-N (Lab) – Ammoniacal Nitrogen (Laboratory results)

TIN (In-situ) – Total Inorganic Nitrogen (In-situ results)

TIN (Lab) – Total Inorganic Nitrogen (Laboratory results)

TSS – Total Suspended Solids

- Wet Season: April to October; Dry Season: November to March

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**Interim Notification of Environmental Quality Limits Exceedances  
Impact Water Quality Monitoring**

Incident Report on Action Level or Limit Level Non-compliance

Reference No.:	20170304 /IM/SR4																																							
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel																																							
Date:	04/03/2017																																							
Time: (hh:mm)	Mid-Flood: 11:00		Mid-Ebb: 14:45																																					
Monitoring Location:	SR4 - Tsuen Wan, WSD Flushing Water Intake																																							
Action Level / Limit Level:	DO (S&M): 2/2 mg/L;	NH3-N: <1/<1 mg/L ;	DO (B): 2/2 mg/L;	Turbidity: <10/<10 NTU;	Total Suspended Solids : _____ : _____ / _____ mg/L																																			
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:		Mid-Ebb:																																					
	DO (S&M): _____ AL / LL	DO (B): _____ AL / LL	DO (S&M): _____ AL / LL	DO (B): _____ AL / LL	Turbidity: _____ AL / LL																																			
Action taken / to be taken: (tick / fill in as appropriate)	NH3-N(Lab): _____ AL / LL		NH3-N(Lab): _____ AL / LL																																					
	TSS : _____ AL / LL		TSS : _____ AL / LL																																					
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)	Inspection: <input type="checkbox"/> Silt curtain in proper condition <input checked="" type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____																																							
	<table border="1"> <thead> <tr> <th></th> <th>DO(S&amp;M)</th> <th>DO(B)</th> <th>Turbidity</th> <th>NH3-N</th> <th>TSS</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/> Station at Upstream Location at ME</td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> </tr> <tr> <td><input type="checkbox"/> Upstream Control Station ( <small>or gradient station</small> ) exceeded AL/LL</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> No increasing / decreasing (for DO) trend across the Project at MF</td> <td>Upstream: _____ ( )mg/L Downstream: _____ ( )mg/L</td> <td>Upstream: _____ ( )mg/L Downstream: _____ ( )mg/L</td> <td>Upstream: _____ ( )NTU Downstream: _____ ( )NTU</td> <td>Upstream: _____ ( )mg/L Downstream: _____ ( )mg/L</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> No Dredging Works carried out.</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Conclusion</td> <td colspan="4"><input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.</td> <td>✓</td> </tr> </tbody> </table>						DO(S&M)	DO(B)	Turbidity	NH3-N	TSS	<input checked="" type="checkbox"/> Station at Upstream Location at ME					✓	<input type="checkbox"/> Upstream Control Station ( <small>or gradient station</small> ) exceeded AL/LL						<input type="checkbox"/> No increasing / decreasing (for DO) trend across the Project at MF	Upstream: _____ ( )mg/L Downstream: _____ ( )mg/L	Upstream: _____ ( )mg/L Downstream: _____ ( )mg/L	Upstream: _____ ( )NTU Downstream: _____ ( )NTU	Upstream: _____ ( )mg/L Downstream: _____ ( )mg/L		<input checked="" type="checkbox"/> No Dredging Works carried out.						Conclusion	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.			
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Remarks: (tick / fill in as appropriate)	Repeat In-situ measurement was done. Mid-Flood: DO (S&M): _____ DO (B): _____ Turbidity: _____ NH3-N: _____ Mid-Ebb: DO (S&M): _____ DO (B): _____ Turbidity: _____ NH3-N: _____ <input type="checkbox"/> _____ _____ _____ _____																																							

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	DO(S&M)	DO(B)	Turbidity	NH3-N	
Others					

Prepared by: Wingo So

Signature:

Date (dd/mm/yyyy): 17/03/2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature:

Date (dd/mm/yy): 17/03/2017

Notes:

- Abbreviation:

AL – Action Level

DO (B) – Dissolved Oxygen (Bottom)

DO (S&M) – Dissolved Oxygen (Surface & Middle)

LL – Limit Level

ME – Mid Ebb

MF – Mid Flood

NH3-N (In-situ) – Ammoniacal Nitrogen (In-situ results)

NH3-N (Lab) – Ammoniacal Nitrogen (Laboratory results)

TIN (In-situ) – Total Inorganic Nitrogen (In-situ results)

TIN (Lab) – Total Inorganic Nitrogen (Laboratory results)

TSS – Total Suspended Solids

- Wet Season: April to October; Dry Season: November to March



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**Interim Notification of Environmental Quality Limits Exceedances  
 Impact Water Quality Monitoring**

Incident Report on Action Level or Limit Level Non-compliance

Reference No.:	20170304 /IM/SR5a					
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel					
Date:	04/03/2017					
Time: (hh:mm)	Mid-Flood:	12:03	Mid-Ebb:	13:50		
Monitoring Location:	SR5 – Ma Wan FCZ					
Action Level / Limit Level:	DO (S&M):	5.45 / 5.39 mg/L	Turbidity:	6.7 / 10.1 NTU		
	DO (B):	5.43 / 5.27 mg/L	TIN	0.45/0.50 <sub>(wet season)</sub> or 0.36/0.39 <sub>(dry season)</sub> mg/L		
	TSS :	12 / 19 mg/L				
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:		Mid-Ebb:			
	DO (S&M):	AL / LL	DO (B):	AL / LL	DO (S&M):	AL / LL
	Turbidity:	AL / LL	TIN(In-situ):	0.41 AL / (L)	Turbidity:	AL / LL
	TIN(Lab):	0.40 AL / (L)			TIN(Lab):	0.40 AL / (L)
Action taken / to be taken: (tick / fill in as appropriate)	Inspection:					
	<input type="checkbox"/> Silt curtain in proper condition <input type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____					
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)		DO(S&M)	DO(B)	Turbidity	TIN (In-situ)	TIN (Lab)
	Findings / Evidences					
	<input checked="" type="checkbox"/> Station at Upstream Location at ME				✓	✓
	<input checked="" type="checkbox"/> Upstream Control Station (or gradient station) exceeded AL/LL				MF:0.78mg/L(C2A)	MF:0.78mg/L(C2A)
<input type="checkbox"/> No increasing trend towards the Project at MF:	Upstream:	( ) mg/L	Upstream:	( ) mg/L	Upstream:	( ) mg/L
	Downstream:	( ) mg/L	Downstream:	( ) mg/L	Downstream:	( ) mg/L
<input checked="" type="checkbox"/> No Dredging Works carried out.						
Conclusion	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.				✓	✓
Remarks: (tick / fill in as appropriate)	Repeat In-situ measurement was done.					
	Mid-Flood:	DO (S&M):	DO (B):	Turbidity:		
		TIN:				
	Mid-Ebb:	DO (S&M):	DO (B):	Turbidity:		
	TIN:	0.41				
<input type="checkbox"/> _____ _____ _____ _____ _____						

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	DO(S&M)	DO(B)	Turbidity	TIN (In-situ)	TIN (Lab)
Others					

Prepared by: Cyrus Lai

Signature:

Date (dd/mm/yyyy): 06/04/2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature:

Date (dd/mm/yy): 06/04/2017

**Notes:**

- Abbreviation:
- AL – Action Level
- DO (B) – Dissolved Oxygen (Bottom)
- DO (S&M) – Dissolved Oxygen (Surface & Middle)
- LL – Limit Level
- ME – Mid Ebb
- MF – Mid Flood
- NH3-N (In-situ) – Ammoniacal Nitrogen (In-situ results)
- NH3-N (Lab) – Ammoniacal Nitrogen (Laboratory results)
- TIN (In-situ) – Total Inorganic Nitrogen (In-situ results)
- TIN (Lab) – Total Inorganic Nitrogen (Laboratory results)
- TSS – Total Suspended Solids
- Wet Season: April to October; Dry Season: November to March

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**Interim Notification of Environmental Quality Limits Exceedances  
Impact Water Quality Monitoring**

Incident Report on Action Level or Limit Level Non-compliance

Reference No.:	20170307 /IM/SR5					
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel					
Date:	07/03/2017					
Time: (hh:mm)	Mid-Flood:	09:46	Mid-Ebb:	08:41		
Monitoring Location:	SR5 – Ma Wan FCZ					
Action Level / Limit Level:	DO (S&M):	5.45 / 5.39 mg/L	Turbidity:	6.7 / 10.1 NTU		
	DO (B):	5.43 / 5.27 mg/L	TIN	0.45/0.50(wet season) or 0.36/0.39(dry season)mg/L		
	TSS :	12 / 19 mg/L	:	/ mg/L		
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:	Mid-Ebb:				
	DO (S&M):	AL / LL	DO (B):	AL / LL	DO (S&M): AL / LL DO (B): AL / LL	
	Turbidity:	AL / LL	TIN(In-situ):	0.48 AL / LL	Turbidity: AL / LL TIN(In-situ): 0.48 AL / LL	
	TIN(Lab):	0.47 AL / LL	:	AL / LL	TIN(Lab): 0.48 AL / LL :	
Action taken / to be taken: (tick / fill in as appropriate)	Inspection:					
	<input type="checkbox"/> Silt curtain in proper condition <input type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____					
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)		DO(S&M)	DO(B)	Turbidity	TIN (In-situ)	TIN (Lab)
	Findings / Evidences					
	<input checked="" type="checkbox"/> Station at Upstream Location at ME				✓	✓
	<input checked="" type="checkbox"/> Upstream Control Station (or gradient station) exceeded AL/LL				MF:0.47mg/L(C2A)	MF:0.47mg/L(C2A)
	<input type="checkbox"/> No increasing trend towards the Project at MF:	Upstream: ( )mg/L	Upstream: ( )mg/L	Upstream: ( )NTU	Upstream: ( )mg/L	
	Downstream: ( )mg/L	Downstream: ( )mg/L	Downstream: ( )NTU	Downstream: ( )mg/L		
Conclusion	<input checked="" type="checkbox"/> No Dredging Works carried out.					
	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.					
Remarks: (tick / fill in as appropriate)	Repeat in-situ measurement was done.					
	Mid-Flood:	DO (S&M):	DO (B):	Turbidity:		
		TIN:	0.48	:		
	Mid-Ebb:	DO (S&M):	DO (B):	Turbidity:		
		TIN:	0.48	:		
<input type="checkbox"/> _____ _____ _____ _____						


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**MaterialLab**

	DO(S&M)	DO(B)	Turbidity	TIN (In-situ)	TIN (Lab)
Others					

Prepared by: Wingo SoSignature: Date (dd/mm/yyyy): 31 / 03 / 2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature: Date (dd/mm/yy): 31 / 03 / 2017

## Notes:

- Abbreviation:

AL – Action Level

DO (B) – Dissolved Oxygen (Bottom)

DO (S&amp;M) – Dissolved Oxygen (Surface &amp; Middle)

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TIN (Lab) – Total Inorganic Nitrogen (Laboratory results)

TSS – Total Suspended Solids

- Wet Season: April to October; Dry Season: November to March

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**Interim Notification of Environmental Quality Limits Exceedances  
Impact Water Quality Monitoring**

Incident Report on Action Level or Limit Level Non-compliance

Reference No.:	20170309 /IM/SR5									
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel									
Date:	09/03/2017									
Time: (hh:mm)	Mid-Flood: 12:58		Mid-Ebb: 11:47							
Monitoring Location:	SR5 - Ma Wan FCZ									
Action Level / Limit Level:	DO (S&M): 5.45 / 5.39 mg/L DO (B): 5.43 / 5.27 mg/L TSS : 12 / 19 mg/L		Turbidity: 6.7 / 10.1 NTU TIN 0.45/0.50 <sub>(wet season)</sub> or 0.36/0.39 <sub>(dry season)</sub> mg/L							
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:		Mid-Ebb:							
	DO (S&M):	AL / LL	DO (B):	AL / LL	DO (S&M):	AL / LL	DO (B):	AL / LL		
	Turbidity:	AL / LL	TIN(In-situ):	0.37 <u>AL</u> / LL	Turbidity:	AL / LL	TIN(In-situ):	0.37 <u>AL</u> / LL		
	TIN(Lab):	0.37 <u>AL</u> / LL	:	AL / LL	TIN(Lab):	0.37 <u>AL</u> / LL	:	AL / LL		
Action taken / to be taken: (tick / fill in as appropriate)	Inspection: <input type="checkbox"/> Silt curtain in proper condition <input type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____									
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)		DO(S&M)	DO(B)	Turbidity	TIN (In-situ)	TIN (Lab)				
	Findings / Evidences									
	<input checked="" type="checkbox"/> Station at Upstream Location at ME				✓	✓				
	<input type="checkbox"/> Upstream Control Station <sup>(or gradient station)</sup> exceeded AL/LL									
<input checked="" type="checkbox"/> No increasing / decreasing <del>(for DO)</del> trend across the Project at MF	Upstream:	( ) mg/L	Upstream:	( ) mg/L	Upstream:	( ) NTU	Upstream:	0.36mg/L (C2A)	Upstream:	0.36mg/L (C2A)
	Downstream:	( ) mg/L	Downstream:	( ) mg/L	Downstream:	( ) NTU	Downstream:	0.35mg/L (G2)	Downstream:	0.35mg/L (G2)
<input checked="" type="checkbox"/> No Dredging Works carried out.										
Conclusion	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.				✓	✓				
Remarks: (tick / fill in as appropriate)	Repeat In-situ measurement was done.									
	Mid-Flood:	DO (S&M):	TIN: 0.37	DO (B):	Turbidity:					
	Mid-Ebb:	DO (S&M):	TIN: 0.37	DO (B):	Turbidity:					
<input type="checkbox"/> _____ _____ _____ _____										


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**Materialab**

	DO(S&M)	DO(B)	Turbidity	TIN (In-situ)	TIN (Lab)
Others					

Prepared by: Wingo SoSignature: Date (dd/mm/yyyy): 31/03/2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature: Date (dd/mm/yy): 31/03/2017**Notes:**

- Abbreviation:

AL – Action Level

DO (B) – Dissolved Oxygen (Bottom)

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LL – Limit Level

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TIN (In-situ) – Total Inorganic Nitrogen (In-situ results)

TIN (Lab) – Total Inorganic Nitrogen (Laboratory results)

TSS – Total Suspended Solids

- Wet Season: April to October; Dry Season: November to March

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**Interim Notification of Environmental Quality Limits Exceedances  
Impact Water Quality Monitoring**

Incident Report on Action Level or Limit Level Non-compliance

Reference No.:	20170309 /IM/SR12					
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel					
Date:	09/03/2017					
Time: (hh:mm)	Mid-Flood: 14:31		Mid-Ebb: 10:01			
Monitoring Location:	SR12 - Tsing Yi, WSD Flushing Water Intake					
Action Level / Limit Level:	DO (S&M): 2/2 mg/L;	NH3-N: <1/<1 mg/L ;				
	DO (B): 2/2 mg/L;	Turbidity: <10/<10 NTU;				
	Total Suspended Solids : <10/<10 mg/L	_____ : _____ / _____ mg/L				
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:		Mid-Ebb:			
	DO (S&M): _____ AL / LL	DO (B): _____ AL / LL	DO (S&M): _____ AL / LL	DO (B): _____ AL / LL		
	Turbidity: _____ AL / LL	NH3-N(in-situ): _____ AL / LL	Turbidity: _____ AL / LL	NH3-N(in-situ): _____ AL / LL		
	NH3-N(Lab): _____ AL / LL	TSS : _____ AL / LL	NH3-N(Lab): _____ AL / LL	TSS : 12 AL/LL		
Action taken / to be taken: (tick / fill in as appropriate)	Inspection:					
	<input type="checkbox"/> Silt curtain in proper condition <input checked="" type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____					
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)		DO(S&M)	DO(B)	Turbidity	NH3-N	TSS
	Findings / Evidences					
	<input checked="" type="checkbox"/> Station at Upstream Location at ME					✓
	<input type="checkbox"/> Upstream Control Station (or gradient station) exceeded AL/LL					
	<input type="checkbox"/> No increasing/decreasing (or DO) trend across the Project at MF	Upstream: _____ ( )mg/L	Upstream: _____ ( )mg/L	Upstream: _____ ( )NTU	Upstream: _____ ( )mg/L	
	Downstream: _____ ( )mg/L	Downstream: _____ ( )mg/L	Downstream: _____ ( )NTU	Downstream: _____ ( )mg/L		
Conclusion	<input checked="" type="checkbox"/> No Dredging Works carried out.					
	<input checked="" type="checkbox"/> Due to change of/and influence of ambient condition in the vicinity, i.e. not Project related.					✓
Remarks: (tick / fill in as appropriate)	Repeat In-situ measurement was done.					
	Mid-Flood:	DO (S&M): _____	DO (B): _____	Turbidity: _____		
		NH3-N: _____	_____	_____		
	Mid-Ebb:	DO (S&M): _____	DO (B): _____	Turbidity: _____		
	NH3-N: _____	_____	_____			
<input type="checkbox"/> _____ _____ _____ _____						

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	DO(S&M)	DO(B)	Turbidity	NH3-N	
Others					

Prepared by: Wingo So

Signature:

Date (dd/mm/yyyy): 31/03/2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature:

Date (dd/mm/yy): 31/03/2017

**Notes:**

- Abbreviation:

AL – Action Level

DO (B) – Dissolved Oxygen (Bottom)

DO (S&M) – Dissolved Oxygen (Surface & Middle)

LL – Limit Level

ME – Mid Ebb

MF – Mid Flood

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NH3-N (Lab) – Ammoniacal Nitrogen (Laboratory results)

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TIN (Lab) – Total Inorganic Nitrogen (Laboratory results)

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- Wet Season: April to October; Dry Season: November to March



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**Interim Notification of Environmental Quality Limits Exceedances  
Impact Water Quality Monitoring**

Incident Report on Action Level or Limit Level Non-compliance

Reference No.:	20170314 /IM/SR5					
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel					
Date:	14/03/2017					
Time: (hh:mm)	Mid-Flood:	09:44	Mid-Ebb:	11:18		
Monitoring Location:	SR5 – Ma Wan FCZ					
Action Level / Limit Level:	DO (S&M):	5.45 / 5.39 mg/L	Turbidity:	6.7 / 10.1 NTU		
	DO (B):	5.43 / 5.27 mg/L	TIN	0.45/0.50 <sub>(wet season)</sub> OR 0.36/0.39 <sub>(dry season)</sub> mg/L		
	TSS :	12 / 19 mg/L	:	/ mg/L		
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:	Mid-Ebb:				
	DO (S&M):	AL / LL	DO (B):	AL / LL	DO (S&M): AL / LL DO (B): AL / LL	
	Turbidity:	AL / LL	TIN(In-situ):	0.45 AL / (L)	Turbidity: AL / LL TIN(In-situ): 0.45 AL / (L)	
	TIN(Lab):	0.45 AL / (L)	:	AL / LL	TIN(Lab): 0.45 AL / (L) : AL / LL	
Action taken / to be taken: (tick / fill in as appropriate)	Inspection: <input type="checkbox"/> Silt curtain in proper condition <input type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____					
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)		DO(S&M)	DO(B)	Turbidity	TIN (In-situ)	TIN (Lab)
	Findings / Evidences					
	<input checked="" type="checkbox"/> Station at Upstream Location at ME				✓	✓
	<input checked="" type="checkbox"/> Upstream Control Station (or gradient station) exceeded AL/LL				MF:0.41mg/L(C2A)	MF:0.41mg/L(C2A)
<input type="checkbox"/> No increasing trend towards the Project at MF:	Upstream: ( )mg/L	Upstream: ( )mg/L	Upstream: ( )NTU	Upstream: ( )mg/L		
	Downstream: ( )mg/L	Downstream: ( )mg/L	Downstream: ( )NTU	Downstream: ( )mg/L		
<input checked="" type="checkbox"/> No Dredging Works carried out.						
Conclusion	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.			✓	✓	
Remarks: (tick / fill in as appropriate)	Repeat In-situ measurement was done. Mid-Flood: DO (S&M): _____ DO (B): _____ Turbidity: _____ TIN: 0.45 _____ Mid-Ebb: DO (S&M): _____ DO (B): _____ Turbidity: _____ TIN: 0.45 _____ <input type="checkbox"/> _____ _____ _____ _____					

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**MaterialLab**

	DO(S&M)	DO(B)	Turbidity	TIN (In-situ)	TIN (Lab)
Others					

Prepared by: Wingo So

Signature: 

Date (dd/mm/yyyy): 31/03/2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature: 

Date (dd/mm/yy): 31/03/2017

**Notes:**

- Abbreviation:

AL – Action Level

DO (B) – Dissolved Oxygen (Bottom)

DO (S&M) – Dissolved Oxygen (Surface & Middle)

LL – Limit Level

ME – Mid Ebb

MF – Mid Flood

NH3-N (In-situ) – Ammoniacal Nitrogen (In-situ results)

NH3-N (Lab) – Ammoniacal Nitrogen (Laboratory results)

TIN (In-situ) – Total Inorganic Nitrogen (In-situ results)

TIN (Lab) – Total Inorganic Nitrogen (Laboratory results)

TSS – Total Suspended Solids

- Wet Season: April to October; Dry Season: November to March

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**Interim Notification of Environmental Quality Limits Exceedances  
Impact Water Quality Monitoring**

Incident Report on Action Level or Limit Level Non-compliance

Reference No.:	20170316 /IM/SR5					
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel					
Date:	16/03/2017					
Time: (hh:mm)	Mid-Flood: 10:49		Mid-Ebb: 12:00			
Monitoring Location:	SR5 - Ma Wan FCZ					
Action Level / Limit Level:	DO (S&M): 5.45 / 5.39 mg/L DO (B): 5.43 / 5.27 mg/L TSS : 12 / 19 mg/L		Turbidity: 6.7 / 10.1 NTU TIN 0.45/0.50(wet season) or 0.36/0.39(dry season)mg/L mg/L			
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:		Mid-Ebb:			
	DO (S&M): <u>      </u> AL / LL	DO (B): <u>      </u> AL / LL	DO (S&M): <u>      </u> AL / LL	DO (B): <u>      </u> AL / LL		
	Turbidity: <u>      </u> AL / LL	TIN(In-situ): <u>0.45</u> AL / <input checked="" type="radio"/> LL	Turbidity: <u>      </u> AL / LL	TIN(In-situ): <u>0.46</u> AL / <input checked="" type="radio"/> LL		
	TIN(Lab): <u>0.46</u> AL / <input checked="" type="radio"/> LL	<u>      </u> AL / LL	TIN(Lab): <u>0.46</u> AL / <input checked="" type="radio"/> LL	<u>      </u> AL / LL		
Action taken / to be taken: (tick / fill in as appropriate)	Inspection: <input type="checkbox"/> Silt curtain in proper condition <input type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____					
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)		DO(S&M)	DO(B)	Turbidity	TIN (In-situ)	TIN (Lab)
	Findings / Evidences					
	<input checked="" type="checkbox"/> Station at Upstream Location at ME				✓	✓
	<input checked="" type="checkbox"/> Upstream Control Station (or gradient station) exceeded AL/LL				MF:0.71mg/L(C2A)	MF:0.72mg/L(C2A)
<input type="checkbox"/> No increasing trend towards the Project at MF:	Upstream: _____ ( )mg/L	Upstream: _____ ( )mg/L	Upstream: _____ ( )NTU	Upstream: _____ ( )mg/L		
	Downstream: _____ ( )mg/L	Downstream: _____ ( )mg/L	Downstream: _____ ( )NTU	Downstream: _____ ( )mg/L		
<input checked="" type="checkbox"/> No Dredging Works carried out.						
Conclusion	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.			✓	✓	
Remarks: (tick / fill in as appropriate)	Repeat In-situ measurement was done. Mid-Flood: DO (S&M): _____ DO (B): _____ Turbidity: _____ TIN: <u>0.45</u> _____ : _____ Mid-Ebb: DO (S&M): _____ DO (B): _____ Turbidity: _____ TIN: <u>0.46</u> _____ : _____ <input type="checkbox"/> _____ _____ _____ _____					


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**MaterialLab**

	DO(S&M)	DO(B)	Turbidity	TIN (In-situ)	TIN (Lab)
Others					

Prepared by: Wingo SoSignature: Date (dd/mm/yyyy): 31/03/2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature: Date (dd/mm/yy): 31/03/2017**Notes:**

- Abbreviation:

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NH<sub>3</sub>-N (In-situ) – Ammoniacal Nitrogen (In-situ results)NH<sub>3</sub>-N (Lab) – Ammoniacal Nitrogen (Laboratory results)

TIN (In-situ) – Total Inorganic Nitrogen (In-situ results)

TIN (Lab) – Total Inorganic Nitrogen (Laboratory results)

TSS – Total Suspended Solids

- Wet Season: April to October; Dry Season: November to March

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**Interim Notification of Environmental Quality Limits Exceedances  
Impact Water Quality Monitoring**

**Incident Report on Action Level or Limit Level Non-compliance**

Reference No.:	20170318 /IM/SR5					
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel					
Date:	18/03/2017					
Time: (hh:mm)	Mid-Flood: 13:15		Mid-Ebb: 11:52			
Monitoring Location:	SR5 - Ma Wan FCZ					
Action Level / Limit Level:	DO (S&M): 5.45 / 5.39 mg/L	Turbidity: 6.7 / 10.1 NTU	DO (B): 5.43 / 5.27 mg/L			
	TSS : 12 / 19 mg/L	TIN : / mg/L	0.45/0.50(wet season) or 0.36/0.39(dry season)mg/L			
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:		Mid-Ebb:			
	DO (S&M): AL / LL	DO (B): AL / LL	DO (S&M): AL / LL	DO (B): AL / LL		
	Turbidity: AL / LL	TIN(In-situ): 0.47 AL / LL	Turbidity: AL / LL	TIN(In-situ): 0.48 AL / LL		
	TIN(Lab): 0.47 AL / LL	: AL / LL	TIN(Lab): 0.47 AL / LL	: AL / LL		
Action taken / to be taken: (tick / fill in as appropriate)	Inspection: <input type="checkbox"/> Silt curtain in proper condition <input type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____					
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)		DO(S&M)	DO(B)	Turbidity	TIN (In-situ)	TIN (Lab)
	Findings / Evidences					
	<input checked="" type="checkbox"/> Station at Upstream Location at ME				✓	✓
	<input checked="" type="checkbox"/> Upstream Control Station (station) exceeded AL/LL				MF:0.89mg/L(C2A)	MF:0.90mg/L(C2A)
<input type="checkbox"/> No increasing trend towards the Project at MF:	Upstream:	( )mg/L	Upstream:	( )mg/L	Upstream:	( )mg/L
	Downstream:	( )mg/L	Downstream:	( )mg/L	Downstream:	( )mg/L
<input checked="" type="checkbox"/> No Dredging Works carried out.						
Conclusion	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.					
Remarks: (tick / fill in as appropriate)	Repeat In-situ measurement was done.					
	Mid-Flood:	DO (S&M):	TIN: 0.47	DO (B):	Turbidity:	
	Mid-Ebb:	DO (S&M):	TIN: 0.48	DO (B):	Turbidity:	
	<input type="checkbox"/>	_____				
	<input type="checkbox"/>	_____				


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**MaterialLab**

	DO(S&M)	DO(B)	Turbidity	TIN (In-situ)	TIN (Lab)
Others					

Prepared by: Wingo SoSignature: Date (dd/mm/yyyy): 31/03/2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature: Date (dd/mm/yy): 31/03/2017**Notes:**

- Abbreviation:

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- Wet Season: April to October; Dry Season: November to March

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**Interim Notification of Environmental Quality Limits Exceedances  
Impact Water Quality Monitoring**

Incident Report on Action Level or Limit Level Non-compliance

Reference No.:	20170321 /IM/SR5					
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel					
Date:	21/03/2017					
Time: (hh:mm)	Mid-Flood: 12:55		Mid-Ebb: 15:34			
Monitoring Location:	SR5 – Ma Wan FCZ					
Action Level / Limit Level:	DO (S&M): 5.45 / 5.39 mg/L		Turbidity: 6.7 / 10.1 NTU		DO (B): 5.43 / 5.27 mg/L	
	TSS : 12 / 19 mg/L		TIN : 0.45/0.50 (wet season) or 0.36/0.39 (dry season) mg/L			
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:			Mid-Ebb:		
	DO (S&M):	AL / LL	DO (B):	AL / LL	DO (S&M):	AL / LL
	Turbidity:	AL / LL	TIN(In-situ):	0.58 AL / LL	Turbidity:	AL / LL
	TIN(Lab):	0.58 AL / LL	:	AL / LL	TIN(Lab):	0.58 AL / LL
Action taken / to be taken: (tick / fill in as appropriate)	Inspection:					
	<input type="checkbox"/> Silt curtain in proper condition <input type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____					
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)		DO(S&M)	DO(B)	Turbidity	TIN (In-situ)	TIN (Lab)
	Findings / Evidences					
	<input checked="" type="checkbox"/> Station at Upstream Location at ME				✓	✓
	<input checked="" type="checkbox"/> Upstream Control Station (or gradient station) exceeded AL/LL				MF:0.57mg/L(C2A)	MF:0.67mg/L(C2A)
	<input type="checkbox"/> No increasing trend towards the Project at MF:	Upstream: _____ ( )mg/L	Upstream: _____ ( )mg/L	Upstream: _____ ( )NTU	Upstream: _____ ( )mg/L	
	Downstream: _____ ( )mg/L	Downstream: _____ ( )mg/L	Downstream: _____ ( )NTU	Downstream: _____ ( )mg/L		
<input checked="" type="checkbox"/> No Dredging Works carried out.						
Conclusion	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.				✓	✓
Remarks: (tick / fill in as appropriate)	Repeat In-situ measurement was done.					
	Mid-Flood:	DO (S&M): _____	DO (B): _____	Turbidity: _____		
		TIN: 0.58	:	:		
	Mid-Ebb:	DO (S&M): _____	DO (B): _____	Turbidity: _____		
		TIN: 0.57	:	:		
<input type="checkbox"/> _____ _____ _____ _____						

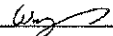
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**MaterialLab**

	DO(S&M)	DO(B)	Turbidity	TIN (In-situ)	TIN (Lab)
Others					

Prepared by: Wingo SoSignature: Date (dd/mm/yyyy): 31/03/2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature: Date (dd/mm/yy): 31/03/2017**Notes:**

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- Wet Season: April to October; Dry Season: November to March



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**MaterialLab**

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Report No.: 0394/13/ED/0356A

Appendix J

Environmental Mitigation Implementation Schedule

EIA Ref	EM&A Ref	No.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Who to implement the measure	Location of the measure	When to implement the measure?	Implementation Status
		A	Water Quality					
3.8	2.9		<u>Use of Silt Screens</u>	Minimize the effect of potential increase in SS levels at the seawater intakes	Contractor	WSD8, WSD9 and EMSD1	Construction Phase	Implemented
	A1	Silt Screens shall be installed at the flushing water intakes WSRs WSD1, WSD8, WSD9 and EMSD1 to minimise the effect of potential increase in SS levels at the seawater intakes.						
3.8	2.9		<u>Use of Silt Curtains</u>	Minimize the release of suspended soil from the dredging area	Contractor	Construction Work Sites	Construction Phase	NA-no dredging work carried out in reporting month
	A2	To minimize the potential SS impact from dredging, deployment of silt curtains around the grab dredgers is recommended; and  Before commencement of dredging works, the holder of the Environmental Permit shall submit detailed proposal of the design and arrangement of the frame type silt curtain to EPD for approval.						
3.10	2.9	A3	Water Quality Monitoring Program	Perform water quality monitoring at sensitive receivers during construction phase	ET	Monitoring Locations as stated in Table 2.1 of the EM&A Manual	Construction Phase	Implemented
			Water quality monitoring shall be carried out in accordance with Section 2 of the Environmental Monitoring and Audit (EM&A) Manual.  Event and Action Plan (EAP) for water quality shall be followed in case of any exceedance in action and limit level.					
3.8 (EP Ref 3)	-		Dredging Operation	Minimize potential adverse effect as a result of dredging activities	Contractor	Construction Work Sites	Construction Phase	NA-no dredging work carried out in reporting month
	A4	Only two types of dredgers are allowed for this Project: (a) grab dredger with closed grab, and (b) <del>cutter suction dredger</del> spud pole grab dredger.						
	A5	The speed of any construction vessels shall not exceed 10 knots when passing through the area of the Project.						
	A6	No more than <del>three</del> two grab dredgers with closed grab ( <del>or one cutter suction dredger with two closed grab dredgers</del> ) shall be operated within the Project Area at any one time for the Project.						
	A7	Only one closed grab dredger <del>or one cutter suction dredger</del> shall be operated in Zone 2B and during which no other closed grab dredger shall be allowed in other zones within the Project Area.						
	A8	No more than one grab dredger with closed grab ( <del>or one cutter suction dredger</del> ) shall be operated within each of the five main zones at any one time for the Project in which the cutter suction dredger shall only be operated in Zones 2 and 4 with maximum dredging rate of 700 m <sup>3</sup> in 30 minutes in any given hour (max. 8,400 m <sup>3</sup> /day, based on a 12-hour operation per day).						
	A9	The maximum dredging rate for closed grab dredger at Rambler Channel – Zones 1 to 2 (subzones Z1A, Z1B, Z2A, Z2B and Z2C) shall follow the Dredging Plan for the Hotspot, as shown in EP-426/2011/A.						
	A10	The maximum dredging rate for closed grab dredger at Rambler Channel – Zones 3 to 4 (subzones Z3A to Z4B) shall not exceed 1,600 m <sup>3</sup> per day during dry season or 3,440 m <sup>3</sup> per day during wet season as shown in EP-426/2011/A.						
	A11	The maximum dredging rate for closed grab dredger at Rambler Channel – Zones 5 to 6 (subzones Z5A, Z5B and Z6A) shall not exceed 4,000 m <sup>3</sup> per day during both dry and wet seasons as shown in EP-426/2011/A.						
	A12	The maximum dredging rate for closed grab dredger at Rambler Channel –						

EIA Ref	EM& A Ref	No.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Who to implement the measure	Location of the measure	When to implement the measure?	Implementation Status
			Zones 5 to 8 (subzones Z5C, Z6B, Z6C, Z6D, Z7 and Z8) shall not exceed 4,000 m <sup>3</sup> per day during both dry and wet seasons as shown in EP-426/2011/A.					
		A13	The maximum dredging rate for closed grab dredger at Northern Fairway – Zones 9 to 12 shall not exceed 4,000 m <sup>3</sup> per day during both dry and wet seasons as shown in EP-426/2011/A.					
		A14	The maximum dredging rate for closed grab dredger at Western Fairway – Zone 13A shall not exceed 4,000 m <sup>3</sup> per day during both dry and wet seasons as shown in EP-426/2011/A.					
		A15	The maximum dredging rate for closed grab dredger at Western Fairway – Zone 13B shall not exceed 4,000 m <sup>3</sup> per day during both dry and wet seasons as shown in EP-426/2011/A.					
		A16	<del>The dredging pump of cutter suction dredger shall be operated during cutting to reduce the sediment loss to water body.</del>					NA-no CSD employed
		A17	Project dredging works within Zone 1 to 6 (including sub-zones) of the Container Basin shall not be carried out at the same time with Terminal Operator's maintenance dredging activities.					NA-No Terminal Operator's maintenance dredging carried out
		A18	<del>Cutter suction dredger is only to be deployed for the removal of harder material during daytime only (07:00 to 19:00) in Zone 2 (including subzones) of the Container Basin.</del>					NA-no CSD employed
		A19	In case of rainstorm warning in effect during dredging works, the dredged material on barge shall be covered properly before transportation to disposal site.					NA-no dredging material generated
		A20	In case of exceedance of SS and NH <sub>3</sub> -N at the Tsing Yi WSD flushing intake due to dredging operation is evidenced, the Contractor shall propose mitigation measures not limited to reducing dredging rate. If exceedance persists, the Contractor shall propose not to undertake dredging operation in close proximity to the Tsing Yi flushing water intake during flood tide. The Contractor shall liaise with the ETL, IEC, ER, EPD and WSD for the proposed mitigation measures.					NA-no exceedance due to dredging operation
		A21	If further mitigation measures are required due to continuous exceedance of SS and NH <sub>3</sub> -N, consideration shall then be given to dredge only on the state of the tide which would avoid migration of SS towards the WSD and EMSD intakes.					NA-no exceedance due to dredging operation
		A22	Dredging sub-zone Z2B where high NH <sub>3</sub> -N in sediment is found shall be isolated with dredging works to be carried out towards the end of construction programme.					NA-no dredging works in such area
		A23	Administrative control in terms of dredging rate adjustment in controlling the release of contaminants shall be employed as mitigation measures.					Implemented
		A24	Field trials shall be carried out to propose the most effective dredging process and rate to control the release of ammoniacal nitrogen and UIA into the water column and achieve compliance at the WSD1 seawater intake (NH <sub>3</sub> -N) and at the beaches for UIA.					Implemented

EIA Ref	EM& A Ref	No.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Who to implement the measure	Location of the measure	When to implement the measure?	Implementation Status
			Capital dredging works in dredging sub-zone Z2B (Figure 1.2h refers) should not therefore be carried out until the proposed method and rate are confirmed.					
		A25	Detailed dredging plan shall be prepared providing details of individual dredging subzones and dredging rate taking into account of the field trial results.					Implemented
3.8	-		<u>Other Good Site Practices for Dredging</u>	Minimize potential adverse effect as a result of dredging activities	Contractor	Construction Work Sites	Construction Phase	NA-no dredging work carried out in reporting month
		A26	All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash.					
		A27	The speed of all Contractor's vessels should be controlled within the works area to prevent propeller wash from stirring up the seabed sediments.					
		A28	All barges / dredgers used should be fitted with tight fitting seals to their bottom openings to prevent leakage of material.					
		A29	Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds.					
		A30	No overflow of dredged mud should be allowed. Barges or hopper should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation.					
		<b>B</b>	<b>Waste Management</b>					
			<u>Good Site Practices</u>	Minimize potential adverse effect arising from the handling of dredged material	Contractor	Construction Work Sites (General)	Construction Phase	
4.5	3.3	B1	Obtain the profile of different sediment categories and careful planning of sediment removal.					Implemented
		B2	Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.					Implemented
		B3	Training of site personnel in proper waste management and chemical handling procedures.					Implemented
		B4	Provision of sufficient waste disposal points and regular collection of waste.					Implemented
		B5	Well planned delivery programme for offsite disposal such that adverse environmental impact from transporting sediment material is not anticipated.					Implemented
		B6	Use well maintained PME on site.					Implemented
			<u>General Refuse</u>	Minimize the adverse effect arising from the handling of site general refuse	Contractor	Construction Work Sites (General)	Construction Phase	
4.5	3.3	B7	General refuse should be stored in enclosed bins. A reputable waste collector should be employed by the contractor to remove general refuse from the site.					Implemented
			<u>Chemical Waste</u>	Minimize the adverse effect arising from the handling of site chemical waste	Contractor	Construction Work Site	Construction Phase	
4.5	3.3	B8	If chemical wastes are produced at the construction site, the Contractor shall be required to register with the EPD as a chemical waste producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes shall be used, and incompatible chemicals should be stored separately. Appropriate labels shall be securely attached on each chemical waste container indicating the corresponding					Implemented

EIA Ref	EM& A Ref	No.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Who to implement the measure	Location of the measure	When to implement the measure?	Implementation Status
			chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical wastes, to either the approved Chemical Waste Treatment Centre, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.					
4.5	3.3		<b>Marine Dredged Sediment</b>	Control of transportation and disposal of dredged material in a manner to minimize potential impacts on water quality	Contractor	Construction Work Site	Construction Phase	NA-no marine dredged sediment generated in the reporting month
		B9	Control of transportation and disposal of dredged material in a manner to minimize potential impacts on water quality.					
		B10	Bottom opening of barges will be fitted with tight fitting seals to prevent leakage of material. Excess material shall be cleaned from the decks and exposed fittings of barges and dredgers before the vessel is moved.					
		B11	Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the EPD.					
		B12	Barges or hopper barges shall not be filled to a level that would cause the overflow of materials or sediment laden water during loading or transportation.					
		B13	Sediment Quality Report shall be prepared and submit to EPD under DASO.					
		B14	If disposal of Type 3 sediment is identified, agreement with EPD shall be reached regarding the treatment of sediment before disposal.					
		B15	Project works shall not be carried out before obtaining confirmation from MFC on disposal option.					
		B16	Follow strictly all conditions stipulated in the dumping permit.					
		<b>C</b>	<b>Marine Ecology</b>	Review and assess the potential adverse effect on marine ecology	Contractor	Construction Work Sites	Construction Phase	Implemented
5.7	4.1	C1	Water quality monitoring results shall be reviewed from time to time to assess if there were any impact to marine ecology due to dredging operation.					
		<b>D</b>	<b>Fisheries</b>	Review and assess the potential adverse effect on fisheries	Contractor	Construction Work Sites	Construction Phase	Implemented
6.7	5.1	D1	Water quality monitoring results shall be reviewed from time to time to assess if there were any impact to fisheries due to dredging operation.					
		<b>E</b>	<b>Hazard to Life</b>		Contractor	Construction Work Sites (General)	Construction Phase	Implemented
7.8.2	6.2	E1	Sound communication channel shall be established with the oil companies, Marine Department, and Fire Services Department for effective notification and emergency evacuation in case of accidents.					
		E2	Proper safety and emergency training shall be given to the relevant operation staff at the dredging site. Emergency plans and procedures should be prepared and drills should be performed periodically.					
		<b>F</b>	<b>Landscape Visual and Glare</b>	Minimize landscape and visual impacts during construction phase	Contractor	Construction activities' area	Throughout design, construction phase	Implemented
8.9 Table 8-3 & 8-6	7.2	F1	Visa shields to the lights of dredgers shall be provided.					
		F2	The light source shall not point directly to any VSRs.					
		F3	Lights shall be switched off if they are not in use.					
		<b>G</b>	<b>Cultural Heritage</b>	Minimize potential marine archaeological	Contractor	Locations of the 20	During Construction	
9.5	8		<b>Monitoring Brief</b>					

EIA Ref	EM& A Ref	No.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Who to implement the measure	Location of the measure	When to implement the measure?	Implementation Status
		G1	A monitoring brief shall be conducted during the dredging. It shall only be required during dredging at the locations of the 20 unidentified sonar contacts and masked areas and does not need to cover all of the dredging activities. Dredging staff should be briefed about the possibility of locating archaeological objects and a marine archaeologist shall be available to monitor the dredged spoil and provide advice. If material indicative of archaeological remains is retrieved, the AMO should be contacted as soon as possible.	impact during dredging activities		unidentified sonar contacts and masked areas	works	NA- no archaeological deposit was found during reporting period.
		<b>H</b>	<b>Noise</b>					
10.8	9		<u>Good Site Practices</u>	Control and minimize the generation of undue noise nuisance	Contractor	Construction Work Sites (Along the alignment of dredging)	Construction Phase	
	H1	Only well-maintained plant shall be operated on-site and plant should be serviced regularly during the construction program.	Implemented					
	H2	Machines and plant that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum.	Implemented					
	H3	Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from nearby NSRs.	Implemented					
	H4	If dredging is to be carried out during restricted hours, work locations close to NSRs shall be avoided.	NA-no dredging work carried out in reporting month					
		<b>I</b>	<b>Construction Dust</b>					
11.7	10		<u>Dust Control</u>	Good site practice to control dust and odour impact to the nearby sensitive receivers	Contractor	Construction Work Sites (General)	Construction Phase	
	I1	Requirements of the Air Pollution Control (Construction Dust) Regulation, where relevant, shall be adhered to during the construction period.	Implemented					
			<u>Odour</u>		Contractor	Construction Work Sites (General)	Construction Phase	
	I2	To minimize potential odour emissions, if dredged sediment is anticipated to be placed on barge for more than a day the load shall be properly covered as far as practicable to minimise the exposed area and potential odour.	NA-no work in such condition					
	I3	If dredged sediment is found to be malodorous it shall be removed from site as soon as possible within one hour after the barge being filled up.	NA-no work in such condition					

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Report No.: 0394/13/ED/0356A

Appendix K  
Waste Generation in Reporting Period

Name of Department : Civil Engineering and Development Department  
 Contract No. : CV/2013/04

**Monthly Summary Waste Flow Table for 2017 (year)**

Year	Actual Quantities of Inert C&D Materials Generated Monthly					Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Broken Concrete (see Note 4)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Metals	Paper/cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000 m <sup>3</sup> )	(in '000 m <sup>3</sup> )	(in '000 m <sup>3</sup> )	(in '000 m <sup>3</sup> )	(in '000 m <sup>3</sup> )	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 m <sup>3</sup> )
2017	nil	nil	nil	nil	nil	nil	nil	nil	nil	0.01
Jan	nil	nil	nil	nil	nil	nil	nil	nil	nil	0.01
Feb	nil	nil	nil	nil	nil	nil	nil	nil	nil	0.01
Mar	nil	nil	nil	nil	nil	nil	nil	nil	nil	0.01
Apr										
May										
Jun										
Jul										
Aug										
Sep										
Oct										
Nov										
Dec										
Total	nil	nil	nil	nil	nil	nil	nil	nil	nil	0.03

Notes:

- (1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- (2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
- (3) Broken concrete for recycling into aggregates



**Monthly Summary of Sediment Disposal (2014 - 2017)**

<b>Marine Sediment Type</b>	<b>Type 1 – Open Sea Disposal</b>	<b>Type 2 – Confined Marine Disposal</b>	<b>Type 3 – Special Treatment / Disposal</b>
Month	Monthly Quantity (m <sup>3</sup> )	Monthly Quantity (m <sup>3</sup> )	Monthly Quantity (m <sup>3</sup> )
<b>2014</b>			
Jan-Dec	549,430	99,660	nil
<b>2015</b>			
Jan-Dec	938,560	372,370	nil
<b>2016</b>			
January	12,580	22,290	nil
February	47,980	30,300	nil
March	34,550	20,070	nil
April	31,040	14,540	nil
May	23,960	20,490	1,260
June	29,950	26,820	nil
July	9,500	18,040	nil
August	6,300	700	nil
September	nil	nil	nil
October	nil	nil	nil
November	nil	nil	nil
December	nil	nil	nil
<b>2017</b>			
January	nil	nil	nil
February	nil	nil	nil
March	nil	nil	nil
Total	1,683,850	625,280	1,260

**Yearly Summary Waste Flow Table**

Year	Estimated Annual Quantities of Inert C&D Materials (in '000m <sup>3</sup> )										Estimated Annual of C&D Wastes									
	Total Quantity Generated		Broken Concrete (see Note 3)		Reused in the Contract		Reused in other Projects		Disposed as Public Fill		Metals		Paper/cardboard packaging		Plastics (see Note 2)		Chemical Waste		Others, e.g. general refuse	
	(a)		(b)		(c)		(d)		(a-b-c-d)		(in '000 kg)		(in '000 kg)		(in '000 kg)		(in '000 kg)		(in '000 m <sup>3</sup> )	
	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.
2013	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.003	0.01
2014	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.2	0.16
2015	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	13	14.4	0.2	0.12
2016	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	17	Nil	0.2	0.12
2017	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	10	-	0.15	-
2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2020																				
2021																				
Grand Total	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	40	14.4	0.753	0.41

**Notes:**

- (1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- (2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
- (3) Broken concrete for recycling into aggregates.

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Appendix L

Weather Conditions and Red Tide Occurrences for the Reporting Month

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Date	Air Temperature			Mean Relative Humidity (%)	Total Rainfall (mm)
	Maximum (deg. C)	Mean (deg. C)	Minimum (deg. C)		
<b>February 2017</b>					
23	20.2	17.9	15	88	Trace
24	15.1	13	12	81	Trace
25	13.8	12.2	10.7	85	0.7
26	17	13.9	10.6	79	1.4
27	19.8	17	15.4	66	0
28	20.8	17.4	15.1	64	0
<b>March 2017</b>					
1	22.9	18.8	15.9	67	0
2	23.9	19.4	17.2	45	0
3	20.1	17.4	15.7	67	0
4	21.8	18.7	16.8	73	0
5	24	20.7	18.7	83	0
6	23.5	20.3	17.9	80	Trace
7	20.7	18	17.1	75	Trace
8	17.3	16.3	15	86	2.8
9	19.6	17	16	74	Trace
10	19.2	17.8	16.4	90	Trace
11	18.4	17.5	16.7	88	Trace
12	19.5	18.4	17	90	1
13	24.4	21.7	19.4	92	0
14	22	19.1	16.8	94	8.5
15	17.9	16.8	16.2	75	Trace
16	19	17.8	16.8	78	Trace
17	20.4	18.1	17	86	Trace
18	20.1	18.9	17.4	90	0.3
19	20.6	19.8	18.9	94	10.7
20	27.1	21.9	18.6	86	Trace
21	27.6	22.9	19.1	85	0.6
22	19.7	18.8	17.6	88	0.9

Source: Hong Kong Observatory

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**Strong Monsoon Signal**

Direction	Issuing		Cancelling		Duration hh mm
	hh mm	dd/mon/yy yy	hh mm	dd/mon/yy yy	
East	10:15	14-Mar-17	5:45	16-Mar-17	05 45

Source: Hong Kong Observatory

**Thunderstorm Warning**

Start Time		End Time		Duration hh mm
hh mm	dd/mon/yyyy	hh mm	dd/mon/yyyy	
7:05	19-Mar-17	9:30	19-Mar-17	02 25

Source: Hong Kong Observatory

**Hong Kong Red Tide Record in the Reporting Period**

Sighting Start Date	Sighting End Date	Location	Species Group	Species
13/03/2017	15/03/2017	Stanley Main Beach, Hong Kong Island	Dinoflagellates	Noctiluca scintillans

Source: Agriculture, Fisheries and Conservation Department