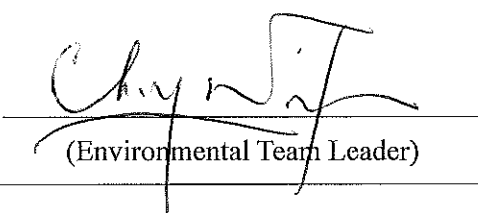


Sun Fook Kong – Biwater Joint Venture

Contract No. DC/2009/10 HATS Stage 2A – Upgrading Works at Stonecutters Island Sewage Treatment Works - Main Pumping Station, Sedimentation Tanks and Ancillary Facilities

Baseline Water Quality Monitoring Report

(Version 1.0)

Certified By 
(Environmental Team Leader)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

CINOTECH accepts no responsibility for changes made to this report by third parties

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**Agreement No. CE 8/2009(EP) Harbour Area Treatment Scheme Stage 2A
Independent Environmental Checker for Construction Phase – Investigation**

Our Reference
GCB/AFK/DC/bw/
T261332/22.01/L-1312

**Contract No. DC/2009/10 Upgrading Works at Stonecutters Island Sewage
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Operation Phase Baseline Water Quality Monitoring Report

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29 March 2018

By Hand

Dear Sir,

I refer to the Operation Phase Baseline Water Quality Monitoring Report submitted by ET on 27 March 2018 via email. In accordance with Condition 2.2 of Environmental Permit EP-322/2008/G, I have no comment on the captioned report.

Yours faithfully
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1. EXECUTIVE SUMMARY

- 1.1 This Baseline Water Quality Monitoring Report was prepared by Cinotech Consultants Ltd. for the Drainage Services Department's (DSD) Contract No. DC/2009/10 "HATS 2A –Upgrading works at Stonecutters Island Treatment Works – Main Pumping, Sedimentation Tanks and Ancillary Facilities". This report presents the baseline water quality monitoring works performed for the Project from September 2017 to February 2018.
- 1.2 The baseline water quality monitoring was conducted at 58 designated monitoring stations, at a frequency of one day per month in a six month period. The monitoring was conducted for a total of 6 days at mid-ebb and mid-flood tides to monitor the parameters including temperature dissolved oxygen, dissolved oxygen saturation, turbidity, salinity and *E. coli*.
- 1.3 During the baseline monitoring period, no marine construction works, temporary sewage bypassing and other observable pollution source were identified in the vicinity of the monitoring stations. The baseline water quality data established in this report are considered to be representative of the baseline conditions.
- 1.4 The baseline data were processed, reviewed and analysed to categorise the sampled data. The Action and Limit Levels for dissolved oxygen, turbidity and *E. coli* are derived for impact monitoring (**Tables 4.6a, 4.6b, 4.7, 4.8a and 4.8b**).

2. INTRODUCTION

- 2.1 Cinotech Consultants Limited (Cinotech) was commissioned by the Sun Fook Kong - Biwater Joint Venture (hereafter called the Contractors) to undertake the baseline water quality monitoring for the Project “HATS Stage 2A – Upgrading Works at Stonecutters Island Sewage Treatment Works and Preliminary Treatment Works on Hong Kong Island ” (hereafter referred to as “the Project”)
- 2.2 The Project is under the Harbour Area Treatment Scheme (HATS) Stage 2A and is a designated project with Register No. : AEIAR-121/2008. The current works under the Project and other Contracts at SCISTW for HATS 2A are covered by the same Environmental Permit (Permit No. EP-322/2008/G), which was issued on 9th May 2014 by the Environmental Protection Department (hereinafter called EPD) to the Drainage Services Department (hereinafter called the DSD) as the Permit Holder.
- 2.3 Under the *Emergency Response Plan for Temporary Sewage Bypass and Emergency Discharge from HATS* in the EM&A manual, in the event of temporary sewage bypass or emergency discharge, daily marine water monitoring shall be conducted at the designated monitoring stations throughout the whole sewage discharge period until the baseline water quality resumes after the normal plant operation is restored. During the following monitoring event, water samples shall be collected at both mid-flood tide and mid-ebb tide.
- 2.4 Case 2 and 4 of the *Emergency Response Plan* covered a 2-week duration of temporary sewage bypass during dry season at SCISTW. During this period, the effluent will be bypassed via the HATS Stage 1 PTWs. For this, a three-month baseline monitoring programme covering the dry season is required at a frequency of once per month to establish the baseline water quality conditions
- 2.5 Under Case 1 and 3 of the *Emergency Response Plan*, during the operation phase of the Project, daily marine water monitoring shall be conducted at the designated monitoring stations in the event of emergency discharge due to plant and power failure until the baseline water quality has been resumed. For this, a six-month baseline monitoring programme covering both dry and wet seasons is required at a frequency of once per month to establish the baseline water quality conditions.
- 2.6 To facilitate the two situations above, a six month baseline water quality monitoring programme is proposed and carried out to fulfil the EM&A requirement on the establishment of baseline condition.
- 2.7 Baseline water quality monitoring was conducted from September 2017 to February 2018, once per month for six months at all selected monitoring stations prior to the commencement of temporary sewage bypass construction work mentioned in **Sections 2.3 and 2.4.**

Purpose of the Report

- 2.8 The purpose of this Baseline Water Quality Monitoring Report is to establish the baseline conditions for various water quality parameters in the vicinity of the project site. These baseline levels will be used as the basis for the impact and post-impact monitoring. This report presents the monitoring locations, equipment, period, methodology, results and observations for the water quality measurements during the baseline period.

3. WATER QUALITY MONITORING

Monitoring Requirement

- 3.1 The monitoring frequency will be once per month for six months at all designated monitoring stations during dry and wet season for Case 1 and 3. At the same time Case 2 and 4 will require a monitoring frequency of once per month for three months during dry season. The monitoring stations are listed in **Table 3.1**.
- 3.2 Water sampling will be conducted twice per monitoring day during mid-ebb and mid-flood tides at three water depths (1 meter below surface, mid-water depth and 1 meter above seabed). Parameters such as temperature, dissolved oxygen (DO) concentration, DO saturation, turbidity, salinity, pH and *E. coli* will be monitored.
- 3.3 Monitoring location/position, time, water depth, sampling depth, tidal stages, weather conditions and any special phenomena or work underway nearby were recorded.

Monitoring Locations

- 3.4 A total of 58 monitoring stations are designated for the water quality monitoring according to the EM&A manual, with the beach locations and the Fish Culture Zone being the sensitive receivers. The monitoring locations were chosen as close to the original coordinates as possible to ensure the collected samples are representative to the sensitive receivers.
- 3.5 The monitoring stations are illustrated in **Figure 2-1**, and the coordinates of the stations divided into the 4 Cases are shown in **Table 3.1**.

Table 3.1 Water Quality Monitoring Station

Station	Description	Easting	Northing
Case 1 - Emergency Discharge of Screened Sewage via all the Stage 1 and Stage 2 PTWs			
B7	Anglers' Beach	823836.36	825044.52
B8	Gemini Beach	825215.29	824933.71
B9	Ho Mei Wan Beach	825388.98	825067.17
B10	Casam Beach	825731.46	825330.90
B11	Lido Beach	825917.78	825385.83
B12	Ting Kau Beach	826277.40	825519.01
B13	Approach Beach	827237.94	825301.02
B14	Ma Wan Beach	824431.47	823415.85
B24	Big Wave Bay Beach	843474.09	811730.33
B25	Rocky Bay Beach	844030.05	810286.64
B26	Shek O Beach	843891.17	809864.31
B30	St. Stephen's Beach	839990.14	808461.60
B31	Chung Hom Kok Beach	838616.79	808752.43
B32	South Bay Beach	838104.70	809598.73
B33	Middle Bay Beach	838056.97	809993.31
B34	Repulse Bay Beach	838008.93	810827.28
B35	Deep Water Bay Beach	836785.60	811635.55
F1	Tung Lung Chau Fish Culture Zone	847571.26	813102.00
F4	Lo Tik Wan Fish Culture Zone	831366.51	809221.48
F5	Ma Wan Fish Culture Zone	823875.25	823699.48

Station	Description	Easting	Northing
WSD4	Tsuen Wan flushing water intake	828908.71	825681.26
WSD5	Tsing Yi flushing water intake	829862.33	823104.16
WSD6	Cheung Sha Wan flushing water intake	833991.16	820235.42
WSD7	Kowloon South flushing water intake	833968.78	818053.54
WSD9	Tai Wan flushing water intake	837955.17	818412.01
WSD10	Cha Kwo Ling flushing water intake	841379.00	817859.28
WSD11	Yau Tong flushing water intake	842149.61	816974.14
WSD12	Tsueng Kwan O flushing water intake	845512.14	817421.15
WSD13	Siu Sai Wan flushing water intake	843904.21	814469.38
WSD15	Sai Wan Ho flushing water intake	841215.41	816451.38
WSD17	Quarry Bay flushing water intake	839685.64	817081.46
WSD18	Central Water Front flushing water intake	833935.18	816624.15
WSD19	Sheung Wan flushing water intake	833383.13	816836.34
WSD20	Kennedy Town flushing water intake	830826.34	816244.46
WSD21	Ap Lei Chau flushing water intake	834105.49	810567.95
WSD22	Wan Chai flushing water intake	836246.19	816134.92
VM12	Gradient Station	830542.34	821139.51
VM14	Gradient Station	829254.66	825159.72
VM15	Gradient Station	832707.02	818964.77
VM8	Gradient Station	830363.95	817092.23
VM7	Gradient Station	832495.44	817473.60
VM5	Gradient Station	836091.75	816541.13
VM2	Gradient Station	839713.80	817641.47
VM4	Gradient Station	838056.49	817637.50
VM1	Gradient Station	841809.43	816567.96
JM3	Gradient Station	844931.70	816956.95
EM1	Gradient Station	844379.62	815140.61
EM2	Gradient Station	845472.92	813712.75
EM3	Gradient Station	845771.79	810953.82
WM1	Gradient Station	830685.17	812441.28
WM2	Gradient Station	827881.70	816189.04
WM4	Gradient Station	825354.99	823325.61
SM3	Gradient Station	833462.67	809640.82
SM2	Gradient Station	836402.69	809492.93
MM13	Control Station	864290.82	808693.11
SM17	Control Station	814115.31	801690.83
Case 2 – Temporary Bypass of Screened Sewage via the Stage 1 PTWs			
B7	Anglers' Beach	823836.36	825044.52
B8	Gemini Beach	825215.29	824933.71
B9	Ho Mei Wan Beach	825388.98	825067.17
B10	Casam Beach	825731.46	825330.90
B11	Lido Beach	825917.78	825385.83
B12	Ting Kau Beach	826277.40	825519.01
B13	Approach Beach	827237.94	825301.02
B14	Ma Wan Beach	824431.47	823415.85
B24	Big Wave Bay Beach	843474.09	811730.33
B25	Rocky Bay Beach	844030.05	810286.64
B26	Shek O Beach	843891.17	809864.31
F1	Tung Lung Chau Fish Culture Zone	847571.26	813102.00
F5	Ma Wan Fish Culture Zone	823875.25	823699.48
WSD5	Tsing Yi flushing water intake	829862.33	823104.16
WSD6	Cheung Sha Wan flushing water intake	833991.16	820235.42

Station	Description	Easting	Northing
WSD7	Kowloon South flushing water intake	833968.78	818053.54
WSD9	Tai Wan flushing water intake	837955.17	818412.01
WSD10	Cha Kwo Ling flushing water intake	841379.00	817859.28
WSD11	Yau Tong flushing water intake	842149.61	816974.14
WSD12	Tsueng Kwan O flushing water intake	845512.14	817421.15
WSD13	Siu Sai Wan flushing water intake	843904.21	814469.38
WSD15	Sai Wan Ho flushing water intake	841215.41	816451.38
WSD17	Quarry Bay flushing water intake	839685.64	817081.46
WSD18	Central Water Front flushing water intake	833935.18	816624.15
WSD19	Sheung Wan flushing water intake	833383.13	816836.34
WSD20	Kennedy Town flushing water intake	830826.34	816244.46
WSD22	Wan Chai flushing water intake	836246.19	816134.92
VM12	Gradient Station	830542.34	821139.51
VM14	Gradient Station	829254.66	825159.72
VM15	Gradient Station	832707.02	818964.77
VM8	Gradient Station	830363.95	817092.23
VM7	Gradient Station	832495.44	817473.60
VM5	Gradient Station	836091.75	816541.13
VM2	Gradient Station	839713.80	817641.47
VM4	Gradient Station	838056.49	817637.50
VM1	Gradient Station	841809.43	816567.96
JM3	Gradient Station	844931.70	816956.95
EM1	Gradient Station	844379.62	815140.61
EM2	Gradient Station	845472.92	813712.75
EM3	Gradient Station	845771.79	810953.82
MM13	Control Station	864290.82	808693.11
SM17	Control Station	814115.31	801690.83
Case 3 - Emergency Discharge of Undisinfected CEPT Effluent via the SCISTW Outfall			
B7	Anglers' Beach	809640.82	833462.67
B8	Gemini Beach	809492.93	836402.69
B9	Ho Mei Wan Beach	806868.38	851275.55
B10	Casam Beach	801678.43	826182.25
B11	Lido Beach	825917.78	825385.83
B12	Ting Kau Beach	826277.40	825519.01
B13	Approach Beach	827237.94	825301.02
B14	Ma Wan Beach	824431.47	823415.85
F5	Ma Wan Fish Culture Zone	823875.25	823699.48
WSD18	Central Water Front	833935.18	816624.15
WSD19	Sheung Wan	833383.13	816836.34
WSD20	Kennedy Town	830826.34	816244.46
WM4	Gradient Station	825354.99	823325.61
VM8	Gradient Station	830363.95	817092.23
VM7	Gradient Station	832495.44	817473.60
SM6	Control Station	826179.81	805902.89
SM12	Control Station	819524.17	808420.40
Case 4 - Bypass of Screened Sewage from NWKPTW at the Seawall of Stonecutters Island			
B7	Anglers' Beach	809640.82	833462.67
B8	Gemini Beach	809492.93	836402.69
B9	Ho Mei Wan Beach	806868.38	851275.55
B10	Casam Beach	801678.43	826182.25
B11	Lido Beach	825917.78	825385.83

Station	Description	Easting	Northing
B12	Ting Kau Beach	826277.40	825519.01
B13	Approach Beach	827237.94	825301.02
B14	Ma Wan Beach	824431.47	823415.85
F5	Ma Wan Fish Culture Zone	823875.25	823699.48
VM14	Gradient Station	829254.66	825159.72
WM4	Gradient Station	825354.99	823325.61
SM6	Control Station	826179.81	805902.89
SM12	Control Station	819524.17	808420.40

Monitoring Schedule

- 3.6 The water quality monitoring was conducted from September 2017 to February 2018. The monitoring schedule is shown in **Appendix A**.

Monitoring Equipment

- 3.7 For in-situ monitoring, a multi-parameter meter (YSI EXO1) will be used to measure DO, DO saturation, turbidity, salinity, pH and temperature. The equipment used in the water quality monitoring is summarized in **Table 3.2** and the copies of calibration certificates are shown in **Appendix B**.

Table 3.2 Marine Water Quality Monitoring Equipment

Equipment	Model and Make
Water Sampler	Kahlsico Water Sampler 13SWB203
Multi-parameter Water Quality Probe	YSI EXO1 Multiparameter Sondes

- 3.8 The specification of the standard electrodes of the YSI EXO1 for in-situ monitoring is summarized in **Table 3.3**

Table 3.3 In-situ parameters' measuring range

Dissolved Oxygen	Range	0 - 50 mg/L
	Accuracy	±0.1 mg/L
pH	Range	0 – 14 pH
	Accuracy	± 0.1 pH
Temperature	Range	-5°C – 50°C
	Accuracy	± 0.01°C
Turbidity	Range	0 to 4000 FNU
	Repeatability	± 2% of reading
Salinity	Range	0 – 70.00 ppt
	Accuracy	± 1% of reading

Notes:

- Accuracy: the qualitative concept of an agreeable closeness between the results of the measurement and the true value of the measured samples.

- 3.9 A portable, battery-operated and hand held echo sounder (e.g. Garmin Fishfinder 140) will be used for the determination of water depth at each designated monitoring station.

- 3.10 Hand-held GPS (Magellan eXplorist GC) will be used to ensure the monitoring vessel is

at the correct location before taking measurements.

Monitoring Parameters and Frequency

3.11 **Table 3.4** summarizes the monitoring parameters, monitoring period and frequencies of the water quality monitoring.

Table 3.4 Water Quality Monitoring Parameters and Frequency

Parameters, unit	Depth	Frequency
In-situ Parameters: <ul style="list-style-type: none"> • Temperature • pH • Water depth • DO, mg/L • DO Saturation, % • Salinity, ppt • Turbidity, NTU 	<ul style="list-style-type: none"> • 3 water depths: 1m below water surface, mid-depth and 1m above sea bed. • If the water depth is less than 3m, mid-depth sampling only. • If the water depth is between 3-6m, omit mid-depth sampling. 	<ul style="list-style-type: none"> • Baseline monitoring: once per month for 6 months
Laboratory Testing Parameters: <ul style="list-style-type: none"> • <i>E. coli</i>, cfu/100ml 		

Monitoring Methodology

3.12 Multi-parameter meter (e.g. YSI EXO1) was used to measure the in-situ parameter. At each measurement, two consecutive measurements of pH level, DO concentration, DO saturation, salinity, turbidity and temperature will be taken. Where the difference in the value between the first and second readings of each set is more than 25% of the value of the first reading, the reading will be discarded and further readings will be taken. A single measured sample at each water depth will be collected for *E. coli* analysis.

3.13 Each water sample of about 250 ml were collected and stored in glass bottles. The sample bottles were packed into ice-box and delivered to a HOKLAS-accredited Laboratory, WELLAB Ltd., for the analysis of *E. coli* within 24 hours.

QA/QC for Laboratory Analysis

3.14 The testing laboratory implemented QA/QC measures for the analysis of water samples in order to obtain reliable data that is technically defensible, which including the followings:

Medium Quality Control

3.14 Medium quality control samples were prepared to check the signs of contamination and deterioration of the culture medium for *E. coli* growth. Test for those organisms showed different colours of colonies, such as *E. aerogenes*, *P. aeruginosa*, *K. pneumoniae* and *E. faecalis*, were also included in the medium quality control samples.

Method Quality Control

- 3.15 A laboratory blank sample was analysed under the same sample preparation and analytical procedure as the field samples. Method blank sample is to assess if there is contamination during laboratory testing.
- 3.16 Positive control and negative control samples were prepared to ensure colonies would show their respective colours on the culture medium.

QC laboratory sample duplicate

- 3.17 At least one set of QC sample was analysed for each batch of samples ≤ 20 samples. The sample duplicate test results were used to assess the precision of the analytical process.
- 3.18 The analysis will commence within 24 hours after collection of the water samples. The list of parameter to be analysed as well as the suggested corresponding analytical method and reporting limit are listed in **Table 3.5**.

Table 3.5 Suggested Analytical Method for Laboratory Analysis for Marine Water Samples

Parameter(s)	Analytical Method	Limit of Reporting
<i>E. coli</i>	In-house method SOP069 (Membrane Filtration Method by CHROMagar)	1 cfu/100ml

Maintenance and Calibration

- 3.19 Before each round of monitoring, a zero check in distilled water will be performed with the probes in the YSI EXO1. The probes will be calibrated with a known standard solution.
- 3.20 Laboratory testing for *E. coli* which is analysed in the HOKLAS-accredited laboratory, WELLAB Ltd, are attached in **Appendix E**.

4 RESULTS AND OBSERVATIONS

Monitoring Results

- 4.1 The baseline monitoring schedule is provided in **Appendix A**. All the monitoring results are provided in **Appendices C and D**.
- 4.2 Summaries of the monitoring result for the sensitive receivers are provided in **Table A, B, C and D**. Note that Case 1 and 3 covered all six months of the baseline monitoring locations, while Case 2 and 4 covered only the three months dry season period.

Table A Baseline Water Quality Monitoring Results (in-situ, Case 1 and 3)

Station	DO, surface & middle level (mg/L)			DO, bottom level (mg/L)			Turbidity, depth average (NTU)		
	ave	max	min	ave	max	min	ave	max	min
B10	6.5	8.9	4.8	6.1	8.7	4.4	3.8	6.4	1.8
B11	6.5	8.9	4.7	-	-	-	3.6	6.2	2.0
B12	6.4	9.3	4.7	6.3	8.6	4.5	4.2	6.6	2.2
B13	6.4	9.3	4.5	6.2	9.2	4.1	4.6	7.5	1.5
B14	6.4	8.8	4.5	-	-	-	4.6	7.9	1.8
B24	6.9	8.8	4.2	6.8	8.6	4.1	2.3	7.7	0.9
B25	6.9	8.4	4.0	6.8	8.5	4.1	2.7	12.0	0.3
B26	7.0	8.7	4.4	6.9	8.6	4.3	2.9	10.4	0.9
B30	7.1	9.5	5.6	-	-	-	2.5	5.2	0.6
B31	7.2	8.9	5.5	-	-	-	2.3	4.5	0.7
B32	7.1	9.3	5.4	-	-	-	1.9	3.3	0.7
B33	6.9	8.9	5.5	6.8	8.8	4.6	2.4	4.9	1.0
B34	7.0	8.9	5.3	6.9	8.9	5.1	2.5	6.2	0.6
B35	7.0	9.0	5.5	6.8	8.9	5.0	2.5	4.2	0.6
B7	6.4	8.5	4.2	-	-	-	4.9	9.5	2.0
B8	6.3	8.4	4.2	6.1	8.4	4.1	5.2	10.8	1.7
B9	6.5	9.3	4.7	6.3	8.8	4.3	4.1	7.5	1.8
EM1	6.7	8.9	4.1	6.6	8.6	4.1	2.4	4.7	0.6
EM2	6.8	8.9	4.2	6.7	8.9	4.1	2.6	4.2	0.8
EM3	6.9	9.0	4.3	6.8	8.9	4.5	3.7	11.9	0.9
F1	6.9	9.1	4.3	6.8	9.0	4.3	2.3	3.6	0.6
F4	6.6	9.0	4.7	6.4	8.4	4.3	3.9	8.2	1.3
F5	6.4	8.6	4.7	6.3	8.6	4.3	5.2	9.3	2.7
JM3	6.6	8.7	4.1	6.5	8.7	4.0	3.1	4.9	0.3
MM13	7.3	9.2	6.0	7.0	8.8	5.7	2.9	7.4	0.7
SM17	6.9	8.4	5.3	6.5	8.2	3.8	5.9	12.6	1.9
SM2	6.9	8.8	5.3	6.6	8.4	4.1	3.2	5.2	1.0
SM3	6.6	8.8	4.3	6.4	8.5	4.0	3.4	6.6	0.9

Station	DO, surface & middle level (mg/L)			DO, bottom level (mg/L)			Turbidity, depth average (NTU)		
	ave	max	min	ave	max	min	ave	max	min
VM1	6.5	8.4	4.1	6.4	8.3	3.9	3.0	5.9	1.2
VM12	6.0	8.2	4.2	5.7	7.7	3.7	5.9	10.6	2.0
VM14	6.1	8.5	4.5	5.9	8.0	4.0	6.2	13.1	2.4
VM15	6.0	8.2	4.0	5.8	7.7	3.7	4.3	6.9	1.7
VM2	6.4	8.5	3.9	6.3	8.5	3.9	2.8	4.9	1.0
VM4	6.1	8.2	4.1	6.1	8.2	3.9	2.8	4.2	1.1
VM5	6.1	8.3	4.0	6.0	8.1	3.8	2.9	4.8	0.9
VM7	6.0	8.1	4.0	5.9	7.9	3.8	3.9	8.2	1.3
VM8	6.1	8.3	4.3	6.1	8.0	4.0	5.7	12.8	2.0
WM1	6.6	9.1	4.6	6.4	8.6	4.0	3.8	6.3	1.0
WM2	6.3	8.8	4.4	6.2	8.1	4.1	5.3	8.9	1.2
WM4	6.3	8.4	4.3	6.1	8.3	4.0	5.4	8.5	1.9
WSD10	6.4	8.6	4.0	6.3	8.4	3.9	3.2	6.1	1.0
WSD11	6.4	8.4	3.9	6.3	8.4	3.9	2.7	4.1	0.8
WSD12	6.7	9.0	4.2	6.5	8.9	3.6	2.6	6.0	1.4
WSD13	6.6	8.8	4.2	6.6	8.8	4.1	2.6	5.1	0.7
WSD15	6.4	8.5	3.9	6.4	8.4	3.8	3.2	5.8	0.8
WSD17	6.3	8.3	3.6	6.2	8.3	3.7	3.8	6.1	1.5
WSD18	5.9	7.4	3.9	5.7	7.4	3.7	4.4	7.3	1.8
WSD19	6.0	7.8	4.0	5.9	7.7	3.8	4.5	7.8	1.4
WSD20	6.2	8.4	4.5	6.2	8.0	4.3	4.0	6.4	1.8
WSD21	6.8	8.9	5.0	6.6	9.3	4.0	2.9	4.9	1.3
WSD22	6.0	7.9	4.0	6.0	7.9	3.9	3.4	5.0	1.1
WSD4	6.1	8.5	4.4	6.0	8.5	4.0	5.6	8.3	2.3
WSD5	6.0	8.1	4.3	5.8	8.1	3.9	6.3	10.0	2.5
WSD6	5.4	7.9	3.5	5.4	7.8	3.1	5.4	9.1	1.6
WSD7	5.8	7.9	3.7	5.8	7.8	3.7	4.7	8.1	1.9
WSD9	6.1	8.4	4.0	6.1	8.3	3.8	2.9	5.3	0.9

Table B Baseline Water Quality Monitoring Results (in-situ, Case 2 and 4)

Station	DO, surface & middle level (mg/L)			DO, bottom level (mg/L)			Turbidity, depth average (NTU)		
	ave	max	min	ave	max	min	ave	max	min
B10	7.7	8.9	6.5	7.6	8.7	6.5	2.8	4.5	1.8
B11	7.7	8.9	6.6	-	-	-	2.4	2.9	2
B12	7.7	9.3	6.6	7.8	8.6	6.6	3.0	4.9	2.2
B13	7.6	9.3	6.4	7.5	9.2	6.3	3.2	5.6	1.5
B14	7.6	8.8	6.8	-	-	-	4.0	5.8	1.8

Station	DO, surface & middle level (mg/L)			DO, bottom level (mg/L)			Turbidity, depth average (NTU)		
	ave	max	min	ave	max	min	ave	max	min
B24	8.0	8.8	7.1	7.9	8.6	7.1	1.6	2.1	1.2
B25	7.9	8.4	7	7.8	8.5	7.0	1.4	1.8	0.7
B26	8.0	8.7	7.1	8.0	8.6	7.1	1.9	2.5	1.2
B7	7.7	8.5	6.5	-	-	-	3.6	5	2
B8	7.5	8.4	6.5	7.4	8.4	6.4	3.4	4	1.7
B9	7.7	9.3	6.6	7.6	8.8	6.5	2.8	3.5	1.8
EM1	7.9	8.9	6.9	7.9	8.6	7.0	1.8	3	0.6
EM2	8.0	8.9	7	8.0	8.9	7.1	2.0	3.2	0.8
EM3	8.0	9	7	7.9	8.9	7.0	2.2	3.4	0.9
F1	8.0	9.1	7	8.0	9.0	7.0	1.5	2.2	0.6
F5	7.6	8.6	6.7	7.5	8.6	6.5	3.9	4.4	2.7
JM3	7.8	8.7	6.8	7.7	8.7	6.7	1.9	3.3	0.3
MM13	8.1	9.2	7.1	7.9	8.8	7.0	2.5	4	0.7
SM17	7.8	8.4	7.1	7.6	8.2	6.9	4.1	6.6	1.9
VM1	7.7	8.4	6.8	7.7	8.3	6.8	2.1	2.8	1.2
VM12	7.2	8.2	6.1	6.9	7.7	5.9	4.0	5.7	2
VM14	7.3	8.5	6.1	7.1	8.0	6.0	5.5	13.1	2.4
VM15	7.1	8.2	6.1	7.0	7.7	6.0	3.4	5.5	1.7
VM2	7.6	8.5	6.4	7.5	8.5	6.2	2.0	2.8	1
VM4	7.3	8.2	6.3	7.2	8.2	6.1	2.1	3	1.1
VM5	7.2	8.3	6.1	7.1	8.1	6.0	2.0	3	0.9
VM7	7.1	8.1	6.1	7.0	7.9	5.9	2.5	3.8	1.3
VM8	7.4	8.3	6.4	7.3	8.0	6.4	3.8	6.9	2
WSD10	7.6	8.6	6.4	7.5	8.4	6.5	2.4	4.2	1
WSD11	7.6	8.4	6.6	7.5	8.4	6.4	2.2	3.2	0.8
WSD12	7.9	9	6.9	7.8	8.9	6.9	1.9	2.9	1.4
WSD13	7.9	8.8	6.9	7.8	8.8	6.9	1.8	2.7	0.7
WSD15	7.7	8.5	6.7	7.6	8.4	6.7	2.2	4	0.8
WSD17	7.5	8.3	6.3	7.4	8.3	6.2	2.7	3.9	1.5
WSD18	6.8	7.4	6	6.8	7.4	5.8	2.8	4	1.8
WSD19	7.0	7.8	5.9	6.9	7.7	5.9	2.5	3.9	1.4
WSD20	7.3	8.4	6.2	7.3	8.0	6.4	3.5	5.6	1.8
WSD22	7.1	7.9	6.1	7.1	7.9	6.1	2.3	4.8	1.1
WSD5	7.2	8.1	6.1	7.1	8.1	6.0	4.6	6.1	2.5
WSD6	6.6	7.9	5.6	6.6	7.8	5.5	4.4	5.3	2.3
WSD7	6.9	7.9	5.9	6.8	7.8	5.8	3.5	5.3	1.9
WSD9	7.2	8.4	6	7.2	8.3	6.0	2.3	5.3	0.9

Table C Baseline Water Quality Monitoring Results (E.coli, Case 1 and 3)

Stations	E.coli (cfu/100ml)			Stations	E.coli (cfu/100ml)		
	average	max	min		average	max	min
B10	649	3200	1	VM1	110	350	6
B11	589	2800	1	VM12	1889	16000	9
B12	482	2600	<1	VM14	605	2200	36
B13	464	2600	<1	VM15	1316	7100	24
B14	390	2500	<1	VM2	144	880	2
B24	47	610	<1	VM4	483	1500	20
B25	10	100	<1	VM5	1426	5900	12
B26	28	150	<1	VM7	1617	7200	1
B30	5	45	<1	VM8	5071	32000	6
B31	1	2	<1	WM1	691	7100	<1
B32	7	46	<1	WM2	986	4700	5
B33	3	11	<1	WM4	504	2500	<1
B34	7	36	<1	WSD10	140	740	2
B35	5	62	<1	WSD11	142	940	12
B7	399	1800	4	WSD12	47	500	<1
B8	709	3700	<1	WSD13	228	4000	<1
B9	533	3100	<1	WSD15	236	1500	20
EM1	161	4600	<1	WSD17	2029	43000	23
EM2	191	3700	<1	WSD18	2968	14000	26
EM3	13	110	<1	WSD19	2537	9600	15
F1	29	360	<1	WSD20	4079	26000	6
F4	1226	19000	2	WSD21	561	9100	<1
F5	347	3200	2	WSD22	1516	6700	120
JM3	130	3300	<1	WSD4	744	3100	9
MM13	5	140	<1	WSD5	774	2000	51
SM17	6	120	<1	WSD6	1173	6000	44
SM2	3	22	<1	WSD7	1474	4800	88
SM3	491	9200	<1	WSD9	806	4500	5

Notes:

- For conservative assessment, 1 cfu/100ml was adopted as the lowest level in the average calculation if the tested result was below reporting limit (<1).

Table D Baseline Water Quality Monitoring Results (E.coli, Case 2 and 4)

Stations	E.coli (cfu/100ml)			Stations	E.coli (cfu/100ml)		
	average	max	min		average	max	min
B10	70	340	1	VM14	245	660	36
B11	60	220	1	VM15	1343	5500	86
B12	95	220	<1	VM2	62	170	2

Stations	E.coli (cfu/100ml)			Stations	E.coli (cfu/100ml)		
	average	max	min		average	max	min
B13	117	360	<1	VM4	363	1300	45
B14	58	320	<1	VM5	1579	5200	12
B24	2	10	<1	VM7	1759	7200	45
B25	2	4	<1	VM8	3176	14000	48
B26	26	150	<1	WSD10	69	130	2
B7	146	490	4	WSD11	64	160	12
B8	284	1800	<1	WSD12	25	67	<1
B9	140	800	<1	WSD13	288	4000	<1
EM1	24	130	<1	WSD15	168	600	20
EM2	14	56	<1	WSD17	784	3600	23
EM3	6	24	<1	WSD18	3776	14000	420
F1	13	56	<1	WSD19	2788	9600	170
F5	87	510	2	WSD20	3412	15000	32
JM3	51	120	<1	WSD22	1778	6700	270
MM13	1	1	<1	WSD5	414	1400	72
SM17	3	19	<1	WSD6	452	2000	44
VM1	91	300	6	WSD7	1148	3000	88
VM12	2341	16000	9	WSD9	634	2100	5

Notes:

- For conservative assessment, 1 cfu/100ml was adopted as the lowest level in the average calculation if the tested result was below reporting limit (<1).

Observations

- 4.3 During the baseline water quality monitoring period, no observable pollution source was identified at all the designated monitoring stations during the baseline monitoring period.
- 4.4 Since no observable pollution activity was observed for all stations during sampling, the baseline monitoring results are considered to be representative of the ambient water quality levels.

Statistical Analysis

- 4.5 Normal Distribution (95% confidence interval) analysis was conducted to identify the outliers from the monitoring results.
- 4.6 In order to determine the guideline for establishing the Action/Limit levels at the sensitive receivers, One Way Analysis of Variance (ANOVA) was applied to test the differences of the baseline monitoring data between the water quality monitoring locations under each individual Cases. The purpose of the analysis was to test the following hypothesis:

H₀: The data of the monitoring stations within a Case would have no significant

difference.

H_1 : The data of the monitoring stations within a Case would have significant difference.

- 4.7 There are no significant difference amongst the data of Turbidity for Case 3 and 4. For Case 1 and 2, however, significant differences between the data were found. Therefore the Action/Limit level for these two cases of monitoring stations will be analysed in groups instead. For Dissolved Oxygen, all Cases show no significant difference amongst the data. The Action/Limit level for this parameter will be assessed together within the same case.
- 4.8 The analysis results for Dissolved Oxygen and Turbidity with no significant differences are presented in **Table 4.1a-b** and **4.2a**.

Table 4.1a Summary of the Results of ANOVA (Dissolved Oxygen, surface & middle depth)

Dissolved Oxygen, surface & middle depth	Sample Size	Degree of Freedom	F-value	P-value
Case 1	429	35	1.1530	0.2577
Case 2	162	26	1.2291	0.2229
Case 3	144	11	0.2497	0.9930
Case 4	54	8	0.0282	1

Table 4.1b Summary of the Results of ANOVA (Dissolved Oxygen, bottom depth)

Dissolved Oxygen, bottom depth	Sample Size	Degree of Freedom	F-value	P-value
Case 1	356	29	0.9130	0.5988
Case 2	141	23	1.4411	0.1064
Case 3	105	8	0.2142	0.9877
Case 4	33	5	0.0790	0.9950

Table 4.2a Summary of the Results of ANOVA (Turbidity, Case 3 and 4)

Turbidity	Sample Size	Degree of Freedom	F-value	P-value
Case 3	140	11	0.5727	0.8481
Case 4	54	8	1.6544	0.1364

- 4.9 Since the Turbidity data for Case 1 and 2 (the monitoring stations other than gradient stations and control stations) were found to have significant differences, a second hypothesis is proposed for the two parameters as follow:

H_0 : The data of the monitoring stations in specific groups within Case 1 and 2 would

have no significant difference (Shown in **Table 4.2b-c**).

H₂: The data of the monitoring stations in specific groups within Case 1 and 2 would have significant difference (Shown in **Table 4.2b-c**).

- 4.10 The second ANOVA results shown that there are no significant differences among the data of the grouped monitoring stations. The outcome of this analysis will be adopted to set the Turbidity's Action and Limit levels for Case 1 and 2 under these groupings. The analysis results for Turbidity are shown in **Table 4.2b-c**.

Table 4.2b Summary of the Results of ANOVA (Turbidity, Case 1)

Turbidity (Case 1)	Sample Size	Degree of Freedom	F-value	P-value
B30, B31, B32, B33, B34, B35 , WSD21, F4	92	7	1.8972	0.0801
B10, B11, B12, B13, B14, B7, B8, B9, F5	104	8	0.7721	0.6281
B24, B25, B26, F1	45	3	0.3770	0.7700
WSD17, WSD9, WSD20, WSD18, WSD19, WSD7, WSD6	84	6	2.1746	0.0544
WSD10, WSD11, WSD12, WSD13, WSD15, WSD22	68	5	1.6351	0.1640
WSD4, WSD5	24	1	0.5680	0.4591

Table 4.2c Summary of the Results of ANOVA (Turbidity, Case 2)

Turbidity (Case 2)	Sample Size	Degree of Freedom	F-value	P-value
B10, B11, B12, B13, B14, B7, B8, B9, F5	54	8	1.6544	0.1364
B24, B25, B26, F1	24	3	1.1111	0.3680
WSD7, WSD9, WSD10, WSD11, WSD12, WSD13, WSD15, WSD17, WSD18, WSD19, WSD20, WSD22	72	11	1.4479	0.1759
WSD5, WSD6	12	1	0.0457	0.8349

- 4.11 For the E.coli parameter, the Action and Limit level will be established based on the result of the individual monitoring stations. The guideline for the establishment of the E.coli's Action/Limit level is shown in **Table 4.4** and **4.5**.

Guidelines for Establishment of Action and Limit Levels

- 4.12 Formulated on the basis of the ANOVA results, the monitoring locations with no significant difference between their sampled parameters will be grouped together for the evaluation of the Action and Limit Levels. All outliers were removed before the calculation of the Action and Limit Levels for Marine Water Quality. An exceedance will be considered to be valid when either the monitoring results exceed the established Action/Limit levels which are derived from the baseline data, or exceed 20% (Action

level) or 30% (Limit level) of the monitoring results from the control stations.

- 4.13 The Action and Limit levels guideline are established and shown in **Tables 4.3 to 4.5**. For reference, the Water Quality Objectives established for various Water Control Zones in the EIA study (CE 43/2005, Section 6.20) indicated that the target limit for *E. coli*, calculated as the geometric mean of all samples collected in one calendar year, was 610 cfu/100ml for Fish Culture Subzones and Secondary Contact Recreation Subzones. The level of 610 cfu/100ml is also the criteria value in which the gazetted beaches would be closed for poor water quality if exceeded. The Dissolved Oxygen levels were set at 4 mg/l for averaged depth and 2 mg/l for bottom depth. Also noted that the gradient station are used to assist in the identification of the source of potential impact at the sensitive receiver (e.g. beach locations) and was therefore excluded from the Action/Limit level Guidelines, along with the control stations.

Table 4.3 Guidelines for Establishment of Action and Limit Levels for In-situ Monitoring Parameters

Parameter (unit)	Water Depth	Action Level	Limit Level
DO (mg/L)	Surface and Middle	5%-ile of baseline data	4 mg/L or 1%-ile of baseline data
	Bottom	5%-ile of baseline data	2 mg/L or 1%-ile of baseline data
Turbidity (NTU)	Depth average	95%-ile of baseline data or 120% of upstream control station's turbidity at the same tide of the same day	99%-ile of baseline data or 130% of turbidity at the upstream control station at the same tide of the same day

Table 4.4 Guidelines for Establishment of Limit Levels for *E. coli* for WSD Intakes

Parameter (unit)	Water Depth	Limit Level
<i>E. coli</i> (cfu/100ml)	Depth average	20,000 cfu/100ml

Remark:

- The limit level is based on Water Supplies Department's criteria regarding the target limit of the flushing water.

Table 4.5 Guidelines for Establishment of Action and Limit Levels for Laboratory Testing Parameter for Monitoring Stations Other than WSD Intakes, Gradient Stations and Control Stations

Parameter (unit)	Water Depth	Action Level	Limit Level
<i>E. coli</i> (cfu/100ml)	Depth average (geometric mean)	<i>E. coli</i> of 95%-ile of baseline data	<i>E. coli</i> of 99%-ile of baseline data or 610 cfu/100ml

Established Action and Limit Levels

4.14 Following the criteria as shown in **Table 4.3** to **Table 4.5**, the Action and Limit Levels for water quality impact monitoring have been established and shown in **Tables 4.6a, 4.6b, 4.7, 4.8a** and **4.8b**.

Table 4.6a Calculated Action and Limit Levels for In-situ Monitoring Parameters (Dissolved Oxygen)

Case	Monitoring Stations	Water Depth	Action Level	Limit Level
Case 1	All Case 1's stations	Surface and Middle	4.2	4 ⁽¹⁾
		Bottom	4.0	3.7
Case 2	All Case 2's stations	Surface and Middle	6.1	5.8
		Bottom	6.0	5.7
Case 3	All Case 3's stations	Surface and Middle	4.5	4.1
		Bottom	4.1	3.8
Case 4	All Case 4's stations	Surface and Middle	6.5	6.5
		Bottom	6.4	6.3

Notes:

- 1) 4 mg/L was selected as the limit levels, since the 1 percentile of the DO baseline data were lower than the recommended limit level of 4 mg/L.
- For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limit levels.

Table 4.6b Calculated Action and Limit Levels for In-situ Monitoring Parameters (Turbidity)

Case	Monitoring Stations	Water Depth	Action Level ⁽¹⁾	Limit Level ⁽²⁾
Case 1	B30, B31, B32, B33, B34, B35, WSD21, F4	Depth average	4.3	6.2
	B10, B11, B12, B13, B14, B7, B8, B9, F5		7.2	7.9
	B24, B25, B26, F1		5.0	6.9
	WSD17, WSD9, WSD20, WSD18, WSD19, WSD7, WSD6		7.3	8.9
	WSD10, WSD11, WSD12, WSD13, WSD15, WSD22		4.9	5.5
	WSD4, WSD5		9.2	9.8
Case 2	B10, B11, B12, B13, B14, B7, B8, B9, F5	Depth average	4.9	5.7
	B24, B25, B26, F1		2.2	2.4

Case	Monitoring Stations	Water Depth	Action Level ⁽¹⁾	Limit Level ⁽²⁾
	WSD7, WSD9, WSD10, WSD11, WSD12, WSD13, WSD15, WSD17, WSD18, WSD19, WSD20, WSD22		5.1	5.4
	WSD5, WSD6		5.7	6.0
Case 3	All Case 3's stations	Depth average	7.3	7.9
Case 4	All Case 4's stations	Depth average	4.9	5.7

Notes:

- For turbidity, non-compliance of water quality limits occurs when monitoring result is higher than the limit levels.
- 1) Baseline data or 120% of upstream control station's turbidity at the same tide of the same day
- 2) Baseline data or 130% of upstream control station's turbidity at the same tide of the same day

Table 4.7 Limit Levels for *E. coli* for WSD Flushing Water Intakes

Parameter (unit)	Water Depth	Limit Level
<i>E. coli</i> (cfu/100ml)	Depth average	20,000 cfu/100ml

Notes:

- The limit level is based on the Water Supplies Department's Criteria regarding the target limit of the flushing water.
- For *E. coli*, non-compliance of water quality limits occurs when monitoring result is higher than the limit levels.

Table 4.8a Action and Limit Levels for *E. coli* at Monitoring Stations other than WSD Flushing Water Intakes, Gradient Stations and Control Stations (Case 1 and 3)

Parameter (unit)	Monitoring locations	Water Depth	Action Level (cfu/100ml)	Limit Level (cfu/100ml)
<i>E. coli</i> (cfu/100ml)	B10	Geometric mean	610*	610*
	B11		610*	610*
	B12		610*	610*
	B13		610*	610*
	B14		610*	610*
	B24		61	86
	B25		13	17
	B26		54	61
	B30		6	6
	B31		1	2
	B32		13	25

Parameter (unit)	Monitoring locations	Water Depth	Action Level (cfu/100ml)	Limit Level (cfu/100ml)
	B33		3	4
	B34		10	14
	B35		6	9
	B7		414	475
	B8		610*	610*
	B9		610*	610*
	F1		35	48
	F4		610*	610*
	F5		610*	610*

Notes:

- For *E. coli*, non-compliance of water quality limits occurs when monitoring result is higher than the limit levels.
- For conservative assessment, 1 cfu/100ml was adopted as the lowest level in the calculation if the tested result was below reporting limit (<1).
- * The Action and Limit Level were set as 95%-tile and 99%-tile of the baseline data if they were lower than the criteria's level of 610cfu/100ml.

Table 4.8b Action and Limit Levels for *E. coli* at Monitoring Stations other than WSD Flushing Water Intakes, Gradient Stations and Control Stations (Case 2 and 4)

Parameter (unit)	Monitoring locations	Water Depth	Action Level (cfu/100ml)	Limit Level (cfu/100ml)
<i>E. coli</i> (cfu/100ml)	B10	Geometric mean	31	35
	B11		195	215
	B12		146	150
	B13		223	223
	B14		13	15
	B24		5	6
	B25		3	3
	B26		58	62
	B7		448	482
	B8		101	105
	B9		333	370
	F1		9	9
	F5		258	298

Notes:

- For *E. coli*, non-compliance of water quality limits occurs when monitoring result is higher than the limit levels.
- For conservative assessment, 1 cfu/100ml was adopted as the lowest level in the calculation if the tested result was below reporting limit (<1).

Action Plan

4.15 Actions prior to and during the Temporary Sewage Bypass will be carried out in accordance with the Action Plan as shown in **Appendix F**.

5. CONCLUSIONS

- 5.1 The overall baseline water quality monitoring programme was conducted at 58 monitoring stations for 6 months, covering both dry and wet season. The monitoring results were used to establish the Action and Limit Levels for the relevant parameters during impact monitoring and also post-project monitoring throughout the implementation of the temporary sewage bypass works.
- 5.2 The baseline water quality monitoring was conducted at 58 monitoring stations, no marine construction works and observable pollution source were identified in the vicinity at the stations.

FIGURES



SCALE	N.T.S	DATE	8/2017
CHECK	-	DRAWN	VW
JOB No.	MA11007	FIGURE NO.	Fig 2
		REV	-

**APPENDIX A
BASELINE WATER QUALITY
MONITORING SCHEDULE**

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW
Tentative Baseline Marine Water Quality Monitoring Schedule (September 2017)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Sep	2-Sep
3-Sep	4-Sep	5-Sep	6-Sep	7-Sep	8-Sep	9-Sep
10-Sep	11-Sep	12-Sep	13-Sep	14-Sep	15-Sep	16-Sep
<u>(Ma Wan)</u> Mid-Flood 09:00 Mid-Ebb 15:05 <u>(Kwai Chung)</u> Mid-Flood 08:52 Mid-Ebb 14:58 <u>(Tai Miu Wan)</u> Mid-Flood 08:48 Mid-Ebb 14:54	<u>(Cheung Chau)</u> Mid-Flood 08:49 Mid-Ebb 14:55 <u>(Quarry Bay)</u> Mid-Flood 08:53 Mid-Ebb 14:59					
17-Sep	18-Sep	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep
24-Sep	25-Sep	26-Sep	27-Sep	28-Sep	29-Sep	30-Sep

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

Route 1: SM12, SM6, SM17 (Cheung Chau)

Route 2: B7, B8, B9, B10, B11, B12, B13, B14, F5, WM4, WSD4, WSD5, VM14, VM12 (Ma Wan)

Route 3: VM4, VM5, VM7, VM8, VM15, WSD6, WSD7, WSD9, WSD18, WSD19, WSD20, WSD22, WM2 (Kwai Chung)

Route 4: WM1, F4, SM2, SM3, B30, B31, B32, B33, B34, B35, WSD21 (Quarry Bay)

Route 5: VM1, VM2, WSD10, WSD11, WSD12, WSD13, WSD15, WSD17, JM3, EM1, EM2, F1 (Quarry Bay)

Route 6: EM3, B24, B25, B26, MM13 (Tai Miu Wan)

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW
Tentative Baseline Marine Water Quality Monitoring Schedule (October 2017)**

Sunday		Monday		Tuesday		Wednesday		Thursday		Friday		Saturday	
1-Oct		2-Oct		3-Oct		4-Oct		5-Oct		6-Oct		7-Oct	
8-Oct		9-Oct		10-Oct		11-Oct		12-Oct		13-Oct		14-Oct	
(Ma Wan)		(Cheung Chau)											
Mid-Flood	08:06	Mid-Flood	07:57										
Mid-Ebb	14:05	Mid-Ebb	13:57										
(Kwai Chung)		(Quarry Bay)											
Mid-Flood	07:58	Mid-Flood	07:59										
Mid-Ebb	13:58	Mid-Ebb	13:58										
(Tai Miu Wan)													
Mid-Flood	07:55												
Mid-Ebb	13:53												
15-Oct		16-Oct		17-Oct		18-Oct		19-Oct		20-Oct		21-Oct	
22-Oct		23-Oct		24-Oct		25-Oct		26-Oct		27-Oct		28-Oct	
29-Oct		30-Oct		31-Oct									

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

Route 1: SM12, SM6, SM17 (Cheung Chau)

Route 2: B7, B8, B9, B10, B11, B12, B13, B14, F5, WM4, WSD4, WSD5, VM14, VM12 (Ma Wan)

Route 3: VM4, VM5, VM7, VM8, VM15, WSD6, WSD7, WSD9, WSD18, WSD19, WSD20, WSD22, WM2 (Kwai Chung)

Route 4: WM1, F4, SM2, SM3, B30, B31, B32, B33, B34, B35, WSD21 (Quarry Bay)

Route 5: VM1, VM2, WSD10, WSD11, WSD12, WSD13, WSD15, WSD17, JM3, EM1, EM2, F1 (Quarry Bay)

Route 6: EM3, B24, B25, B26, MM13 (Tai Miu Wan)

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW
Tentative Baseline Marine Water Quality Monitoring Schedule (November 2017)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Nov	2-Nov	3-Nov	4-Nov
5-Nov	6-Nov	7-Nov	8-Nov	9-Nov	10-Nov	11-Nov
12-Nov	13-Nov	14-Nov	15-Nov	16-Nov	17-Nov	18-Nov
19-Nov	20-Nov	21-Nov	22-Nov	23-Nov	24-Nov	25-Nov
<u>(Ma Wan)</u> Mid-Ebb 13:07 Mid-Flood 18:31 <u>(Cheung Chau)</u> Mid-Ebb 12:56 Mid-Flood 18:20 <u>(Kwai Chung)</u> Mid-Ebb 13:01 Mid-Flood 18:23 <u>(Tai Miu Wan)</u> Mid-Ebb 12:48 Mid-Flood 18:14						
26-Nov	27-Nov	28-Nov	29-Nov	30-Nov		

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

- Route 1: SM12, SM6, SM17 (Cheung Chau)
- Route 2: B7, B8, B9, B10, B11, B12, B13, B14, F5, WM4, WSD4, WSD5, VM14, VM12 (Ma Wan)
- Route 3: VM4, VM5, VM7, VM8, VM15, WSD6, WSD7, WSD9, WSD18, WSD19, WSD20, WSD22, WM2 (Kwai Chung)
- Route 4: WM1, F4, SM2, SM3, B30, B31, B32, B33, B34, B35, WSD21 (Quarry Bay)
- Route 5: VM1, VM2, WSD10, WSD11, WSD12, WSD13, WSD15, WSD17, JM3, EM1, EM2, F1 (Quarry Bay)
- Route 6: EM3, B24, B25, B26, MM13 (Tai Miu Wan)

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW
Tentative Baseline Marine Water Quality Monitoring Schedule (December 2017)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Dec	2-Dec
3-Dec	4-Dec	5-Dec	6-Dec	7-Dec	8-Dec	9-Dec
10-Dec	11-Dec	12-Dec	13-Dec	14-Dec	15-Dec	16-Dec
<u>(Ma Wan)</u> Mid-Ebb 13:03 Mid-Flood 18:35 <u>(Cheung Chau)</u> Mid-Ebb 12:52 Mid-Flood 18:30 <u>(Kwai Chung)</u> Mid-Ebb 12:51 Mid-Flood 18:24 <u>(Quarry Bay)</u> Mid-Ebb 12:47 Mid-Flood 18:17 <u>(Tai Miu Wan)</u> Mid-Ebb 12:39 Mid-Flood 18:08						
17-Dec	18-Dec	19-Dec	20-Dec	21-Dec	22-Dec	23-Dec
24-Dec	25-Dec	26-Dec	27-Dec	28-Dec	29-Dec	30-Dec

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

- Route 1: SM12, SM6, SM17 (Cheung Chau)
- Route 2: B7, B8, B9, B10, B11, B12, B13, B14, F5, WM4, WSD4, WSD5, VM14, VM12 (Ma Wan)
- Route 3: VM4, VM5, VM7, VM8, VM15, WSD6, WSD7, WSD9, WSD18, WSD19, WSD20, WSD22, WM2 (Kwai Chung)
- Route 4: WM1, F4, SM2, SM3, B30, B31, B32, B33, B34, B35, WSD21 (Quarry Bay)
- Route 5: VM1, VM2, WSD10, WSD11, WSD12, WSD13, WSD15, WSD17, JM3, EM1, EM2, F1 (Quarry Bay)
- Route 6: EM3, B24, B25, B26, MM13 (Tai Miu Wan)

**DC/2009/10 HATS 2A Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW
Tentative Baseline Marine Water Quality Monitoring Schedule (January 2018)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-Jan	2-Jan	3-Jan	4-Jan	5-Jan	6-Jan
7-Jan	8-Jan	9-Jan	10-Jan	11-Jan	12-Jan	13-Jan
14-Jan	15-Jan	16-Jan	17-Jan	18-Jan	19-Jan	20-Jan
						Route 1 - F (09:16), E (14:49) Route 2 - F (09:07), E (14:46) Route 3 - F (09:05), E (14:37) Route 4 - F (09:07), E (14:46) Route 5 - F (09:01), E (14:29) Route 6 - F (09:02), E (14:39)
21-Jan	22-Jan	23-Jan	24-Jan	25-Jan	26-Jan	27-Jan
28-Jan	29-Jan	30-Jan	31-Jan			

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

- Route 1: SM12, SM6, SM17
- Route 2: B7, B8, B9, B10, B11, B12, B13, B14, F5, WM4, WSD4, WSD5, VM14, VM12
- Route 3: VM4, VM5, VM7, VM8, VM15, WSD6, WSD7, WSD9, WSD18, WSD19, WSD20, WSD2
- Route 4: WM1, F4, SM2, SM3, B30, B31, B32, B33, B34, B35, WSD21
- Route 5: VM1, VM2, WSD10, WSD11, WSD12, WSD13, WSD15, WSD17, JM3, EM1, EM2, F1
- Route 6: EM3, B24, B25, B26, MM13

**DC/2009/10 HATS 2A Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW
Tentative Baseline Marine Water Quality Monitoring Schedule (February 2018)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Feb	2-Feb	3-Feb
4-Feb	5-Feb	6-Feb	7-Feb	8-Feb	9-Feb	10-Feb
ROUTE 1 - F (09:52), E (15:30) ROUTE 2 - F (09:39), E (15:26) ROUTE 3 - F (09:34), E (15:19) ROUTE 4 - F (09:39), E (15:26) ROUTE 5 - F (09:27), E (15:09) ROUTE 6 - F (09:37), E (15:22)						
11-Feb	12-Feb	13-Feb	14-Feb	15-Feb	16-Feb	17-Feb
18-Feb	19-Feb	20-Feb	21-Feb	22-Feb	23-Feb	24-Feb
25-Feb	26-Feb	27-Feb	28-Feb			

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

- Route 1: SM12, SM6, SM17
- Route 2: B7, B8, B9, B10, B11, B12, B13, B14, F5, WM4, WSD4, WSD5, VM14, VM12
- Route 3: VM4, VM5, VM7, VM8, VM15, WSD6, WSD7, WSD9, WSD18, WSD19, WSD20, WSD22.
- Route 4: WM1, F4, SM2, SM3, B30, B31, B32, B33, B34, B35, WSD21
- Route 5: VM1, VM2, WSD10, WSD11, WSD12, WSD13, WSD15, WSD17, JM3, EM1, EM2, F1
- Route 6: EM3, B24, B25, B26, MM13

**APPENDIX B
COPIES OF CALIBRATION
CERTIFICATES FOR WATER QUALITY
MONITORING EQUIPMENT**

TEST REPORT

APPLICANT: Cinotech Consultants Limited
RM 1710, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Test Report No.:	C/W/170826
Date of Issue:	2017-08-26
Date Received:	2017-08-26
Date Tested:	2017-08-26
Date Completed:	2017-08-26
Next Due Date:	2017-11-25

ATTN: Miss Mei Ling Tang

Page: 1 of 2

Certificate of Calibration

Item for calibration:

YSI EXO1 Multiparameter Sondes	Equipment No.:	SW-08-03 (S/N: 16J100677)
Manufacturer:	YSI Incorporated, a Xylem brand	
Description:	Model No.	Serial No.
- EXO Optical DO Sensor, Ti	599100-01	16H102982
- EXO conductivity/Temperature Sensor, Ti	599870	16G102304
- EXO Turbidity Sensor, Ti	599101-01	16H102460
- EXO pH Sensor Assembly, Guarded, Ti	599701	16J100413

Test conditions:

Room Temperature : 21 degree Celsius
Relative Humidity : 65%

Test Specifications:

Performance checking for Conductivity, Temperature, pH, Dissolved oxygen (D.O.) and Turbidity

Methodology:

According to manufacturer instruction manual, APHA 20e 4500-O C

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Laboratory Manager

TEST REPORT

Test Report No.:	C/W/170826
Date of Issue:	2017-08-26
Date Received:	2017-08-26
Date Tested:	2017-08-26
Date Completed:	2017-08-26
Next Due Date:	2017-11-25
Page:	2 of 2

Certificate of Calibration

Results:

Conductivity performance checking

	Instrument Readings ($\mu\text{S}/\text{cm}$)	Acceptance Criteria	Comment
KCl stock solution (12890 $\mu\text{S}/\text{cm}$)	12900	12246-13534	Pass

Temperature performance checking

Reference thermometer- E431 Readings ($^{\circ}\text{C}$)	Instrument Readings ($^{\circ}\text{C}$)	Correction ($^{\circ}\text{C}$)	Comment
22.4	22.406	-0.006	N/A

pH performance checking

	Instrument Readings (pH unit)	Acceptance Criteria	Comment
pH QC buffer 4.00	4.01	4.00 \pm 0.10	Pass
pH QC buffer 6.86	6.87	6.86 \pm 0.10	Pass
pH QC buffer 9.18	9.20	9.18 \pm 0.10	Pass

D.O. performance checking

	Instrument Readings (mg/L)	Acceptance Criteria	Comment
Zero DO solution	0.05	<0.1mg/L	Pass

Winkler Titration value (mg/L)	Instrument Readings (mg/L)	Acceptance Criteria	Comment
8.00	7.96	Difference between Titration value and instrument reading <0.2mg/L	Pass

Turbidity performance checking

Turbidity stock solution	Instrument Readings (NTU)	Acceptance Criteria	Comment
10 NTU	10.13	9.0-11.0	Pass
50 NTU	51.03	45.0-55.0	Pass
100 NTU	101.2	90.0-110.0	Pass

Depth performance checking

Water Depth	Instrument Readings (NTU)	Acceptance Criteria	Comment
0.5 meter	0.50	0.45-0.55	Pass

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
RM 1710, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Test Report No.:	C/W/170826A
Date of Issue:	2017-08-26
Date Received:	2017-08-26
Date Tested:	2017-08-26
Date Completed:	2017-08-26
Next Due Date:	2017-11-25

ATTN: Miss Mei Ling Tang

Page: 1 of 2

Certificate of Calibration

Item for calibration:

YSI EXO1 Multiparameter Sondes	Equipment No.: SW-08-09 (S/N: 16J100869)	
Manufacturer:	YSI Incorporated, a Xylem brand	
Description:	Model No.	Serial No.
- EXO Optical DO Sensor, Ti	599100-01	16H102988
- EXO conductivity/Temperature Sensor, Ti	599870	16G102310
- EXO Turbidity Sensor, Ti	599101-01	16H102467
- EXO pH Sensor Assembly, Guarded, Ti	599701	16J100419

Test conditions:

Room Temperature : 21 degree Celsius
Relative Humidity : 65%

Test Specifications:

Performance checking for Conductivity, Temperature, pH, Dissolved oxygen (D.O.) and Turbidity

Methodology:

According to manufacturer instruction manual, APHA 20e 4500-O C

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Laboratory Manager

TEST REPORT

Test Report No.:	C/W/170826A
Date of Issue:	2017-08-26
Date Received:	2017-08-26
Date Tested:	2017-08-26
Date Completed:	2017-08-26
Next Due Date:	2017-11-25
Page:	2 of 2

Certificate of Calibration

Results:

Conductivity performance checking

	Instrument Readings ($\mu\text{S/cm}$)	Acceptance Criteria	Comment
KCl stock solution (12890 $\mu\text{S/cm}$)	13000	12246-13534	Pass

Temperature performance checking

Reference thermometer- E431 Readings ($^{\circ}\text{C}$)	Instrument Readings ($^{\circ}\text{C}$)	Correction ($^{\circ}\text{C}$)	Comment
22.4	22.407	-0.007	N/A

pH performance checking

	Instrument Readings (pH unit)	Acceptance Criteria	Comment
pH QC buffer 4.00	4.01	4.00 \pm 0.10	Pass
pH QC buffer 6.86	6.87	6.86 \pm 0.10	Pass
pH QC buffer 9.18	9.20	9.18 \pm 0.10	Pass

D.O. performance checking

	Instrument Readings (mg/L)	Acceptance Criteria	Comment
Zero DO solution	0.05	<0.1mg/L	Pass

Wincler Titration value (mg/L)	Instrument Readings (mg/L)	Acceptance Criteria	Comment
8.00	7.86	Difference between Titration value and instrument reading <0.2mg/L	Pass

Turbidity performance checking

Turbidity stock solution	Instrument Readings (NTU)	Acceptance Criteria	Comment
10 NTU	10.23	9.0-11.0	Pass
50 NTU	51.03	45.0-55.0	Pass
100 NTU	101.5	90.0-110.0	Pass

Depth performance checking

Water Depth	Instrument Readings (NTU)	Acceptance Criteria	Comment
0.5 meter	0.50	0.45-0.55	Pass

*****BND OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
RM 1710, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Test Report No.:	C/W/170826B
Date of Issue:	2017-08-26
Date Received:	2017-08-26
Date Tested:	2017-08-26
Date Completed:	2017-08-26
Next Due Date:	2017-11-25

ATTN: Miss Mei Ling Tang

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Certificate of Calibration

Item for calibration:

YSI EXO1 Multiparameter Sondes	Equipment No.: SW-08-20 (S/N: 16J100881)	
Manufacturer:	YSI Incorporated, a Xylem brand	
Description:	Model No.	Serial No.
- EXO Optical DO Sensor, Ti	599100-01	16J100944
- EXO conductivity/Temperature Sensor, Ti	599870	16H100178
- EXO Turbidity Sensor, Ti	599101-01	16J101097
- EXO pH Sensor Assembly, Guarded, Ti	599701	16J100706

Test conditions:

Room Temperature : 21 degree Celsius
Relative Humidity : 65%

Test Specifications:

Performance checking for Conductivity, Temperature, pH, Dissolved oxygen (D.O.) and Turbidity

Methodology:

According to manufacturer instruction manual, APHA 20e 4500-O C

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Laboratory Manager

TEST REPORT

Test Report No.:	C/W/170826B
Date of Issue:	2017-08-26
Date Received:	2017-08-26
Date Tested:	2017-08-26
Date Completed:	2017-08-26
Next Due Date:	2017-11-25

Page: 2 of 2

Certificate of Calibration

Results:

Conductivity performance checking

	Instrument Readings ($\mu\text{S/cm}$)	Acceptance Criteria	Comment
KCl stock solution (12890 $\mu\text{S/cm}$)	12900	12246-13534	Pass

Temperature performance checking

Reference thermometer- E431 Readings ($^{\circ}\text{C}$)	Instrument Readings ($^{\circ}\text{C}$)	Correction ($^{\circ}\text{C}$)	Comment
22.4	22.422	-0.022	N/A

pH performance checking

	Instrument Readings (pH unit)	Acceptance Criteria	Comment
pH QC buffer 4.00	4.01	4.00 \pm 0.10	Pass
pH QC buffer 6.86	6.89	6.86 \pm 0.10	Pass
pH QC buffer 9.18	9.11	9.18 \pm 0.10	Pass

D.O. performance checking

	Instrument Readings (mg/L)	Acceptance Criteria	Comment
Zero DO solution	0.06	<0.1mg/L	Pass

Winkler Titration value (mg/L)	Instrument Readings (mg/L)	Acceptance Criteria	Comment
8.00	7.99	Difference between Titration value and instrument reading <0.2mg/L	Pass

Turbidity performance checking

Turbidity stock solution	Instrument Readings (NTU)	Acceptance Criteria	Comment
10 NTU	10.25	9.0-11.0	Pass
50 NTU	51.08	45.0-55.0	Pass
100 NTU	101.54	90.0-110.0	Pass

Depth performance checking

Water Depth	Instrument Readings (NTU)	Acceptance Criteria	Comment
0.5 meter	0.50	0.45-0.55	Pass

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
RM 1710, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Test Report No.:	C/W/170826D
Date of Issue:	2017-08-26
Date Received:	2017-08-26
Date Tested:	2017-08-26
Date Completed:	2017-08-26
Next Due Date:	2017-11-25

ATTN: Miss Mei Ling Tang

Page: 1 of 2

Certificate of Calibration

Item for calibration:

YSI EXO1 Multiparameter Sondes	Equipment No.:	SW-08-85 (S/N: 17B100180)
Manufacturer:	YSI Incorporated, a Xylem brand	
Description:	Model No.	Serial No.
- EXO Optical DO Sensor, Ti	599100-01	17A105009
- EXO conductivity/Temperature Sensor, Ti	599870	17A105103
- EXO Turbidity Sensor, Ti	599101-01	17A104092
- EXO pH Sensor Assembly, Guarded, Ti	599701	17A105263

Test conditions:

Room Temperature : 21 degree Celsius
Relative Humidity : 65%

Test Specifications:

Performance checking for Conductivity, Temperature, pH, Dissolved oxygen (D.O.) and Turbidity

Methodology:

According to manufacturer instruction manual, APHA 20e 4500-O C

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Laboratory Manager

TEST REPORT

Test Report No.:	C/W/170826D
Date of Issue:	2017-08-26
Date Received:	2017-08-26
Date Tested:	2017-08-26
Date Completed:	2017-08-26
Next Due Date:	2017-11-25
Page:	2 of 2

Certificate of Calibration

Results:

Conductivity performance checking

	Instrument Readings ($\mu\text{S/cm}$)	Acceptance Criteria	Comment
KCl stock solution (12890 $\mu\text{S/cm}$)	12900	12246-13534	Pass

Temperature performance checking

Reference thermometer- E431 Readings ($^{\circ}\text{C}$)	Instrument Readings ($^{\circ}\text{C}$)	Correction ($^{\circ}\text{C}$)	Comment
22.4	22.408	-0.008	N/A

pH performance checking

	Instrument Readings (pH unit)	Acceptance Criteria	Comment
pH QC buffer 4.00	4.01	4.00 ± 0.10	Pass
pH QC buffer 6.86	6.88	6.86 ± 0.10	Pass
pH QC buffer 9.18	9.19	9.18 ± 0.10	Pass

D.O. performance checking

	Instrument Readings (mg/L)	Acceptance Criteria	Comment
Zero DO solution	0.05	$<0.1\text{mg/L}$	Pass

Winkler Titration value (mg/L)	Instrument Readings (mg/L)	Acceptance Criteria	Comment
8.00	7.99	Difference between Titration value and instrument reading $<0.2\text{mg/L}$	Pass

Turbidity performance checking

Turbidity stock solution	Instrument Readings (NTU)	Acceptance Criteria	Comment
10 NTU	10.04	9.0-11.0	Pass
50 NTU	50.27	45.0-55.0	Pass
100 NTU	101.8	90.0-110.0	Pass

Depth performance checking

Water Depth	Instrument Readings (NTU)	Acceptance Criteria	Comment
0.5 meter	0.50	0.45-0.55	Pass

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
RM 1710, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Test Report No.:	C/W/170826E
Date of Issue:	2017-08-26
Date Received:	2017-08-26
Date Tested:	2017-08-26
Date Completed:	2017-08-26
Next Due Date:	2017-11-25

ATTN: Miss Mei Ling Tang

Page: 1 of 2

Certificate of Calibration

Item for calibration:

YSI EXO1 Multiparameter Sondes	Equipment No.: SW-08-107 (S/N: 17B100680)	
Manufacturer:	YSI Incorporated, a Xylem brand	
Description:	Model No.	Serial No.
- EXO Optical DO Sensor, Ti	599100-01	17B101535
- EXO conductivity/Temperature Sensor, Ti	599870	17B100782
- EXO Turbidity Sensor, Ti	599101-01	17B101578
- EXO pH Sensor Assembly, Guarded, Ti	599701	17B103614

Test conditions:

Room Temperature : 21 degree Celsius
Relative Humidity : 65%

Test Specifications:

Performance checking for Conductivity, Temperature, pH, Dissolved oxygen (D.O.) and Turbidity

Methodology:

According to manufacturer instruction manual, APHA 20e 4500-O C

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
Laboratory Manager

TEST REPORT

Test Report No.:	C/W/170826E
Date of Issue:	2017-08-26
Date Received:	2017-08-26
Date Tested:	2017-08-26
Date Completed:	2017-08-26
Next Due Date:	2017-11-25
Page:	2 of 2

Certificate of Calibration

Results:

Conductivity performance checking

	Instrument Readings ($\mu\text{S/cm}$)	Acceptance Criteria	Comment
KCl stock solution (12890 $\mu\text{S/cm}$)	13000	12246-13534	Pass

Temperature performance checking

Reference thermometer- E431 Readings ($^{\circ}\text{C}$)	Instrument Readings ($^{\circ}\text{C}$)	Correction ($^{\circ}\text{C}$)	Comment
22.4	22.421	-0.021	N/A

pH performance checking

	Instrument Readings (pH unit)	Acceptance Criteria	Comment
pH QC buffer 4.00	4.01	4.00 \pm 0.10	Pass
pH QC buffer 6.86	6.87	6.86 \pm 0.10	Pass
pH QC buffer 9.18	9.22	9.18 \pm 0.10	Pass

D.O. performance checking

	Instrument Readings (mg/L)	Acceptance Criteria	Comment
Zero DO solution	0.05	<0.1mg/L	Pass

Winkler Titration value (mg/L)	Instrument Readings (mg/L)	Acceptance Criteria	Comment
8.00	8.11	Difference between Titration value and instrument reading <0.2mg/L	Pass

Turbidity performance checking

Turbidity stock solution	Instrument Readings (NTU)	Acceptance Criteria	Comment
10 NTU	10.09	9.0-11.0	Pass
50 NTU	50.52	45.0-55.0	Pass
100 NTU	101.2	90.0-110.0	Pass

Depth performance checking

Water Depth	Instrument Readings (NTU)	Acceptance Criteria	Comment
0.5 meter	0.50	0.45-0.55	Pass

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
RM 1710, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Test Report No.:	C/W/171124
Date of Issue:	2017-11-25
Date Received:	2017-11-24
Date Tested:	2017-11-24 to 2017-11-25
Date Completed:	2017-11-25
Next Due Date:	2018-02-24

ATTN: Miss Mei Ling Tang

Page: 1 of 2

Certificate of Calibration

Item for calibration:

YSI EXO1 Multiparameter Sondes	Equipment No.: SW-08-03	
Manufacturer:	YSI Incorporated, a Xylem brand	
Description:	Model No.	Serial No.
- EXO Optical DO Sensor, Ti	599100-01	16H102982
- EXO conductivity/Temperature Sensor, Ti	599870	16G102304
- EXO Turbidity Sensor, Ti	599101-01	16H102460
- EXO pH Sensor Assembly, Guarded, Ti	599701	16J100413

Test conditions:

Room Temperature : 17-22 degree Celsius
Relative Humidity : 40-70%

Test Specifications:

Performance checking for Conductivity, Temperature, pH, Dissolved oxygen (D.O.) and Turbidity

Methodology:

According to manufacturer instruction manual, APHA 20e 4500-O C

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
Laboratory Manager

TEST REPORT

Test Report No.:	C/W/171124
Date of Issue:	2017-11-25
Date Received:	2017-11-24
Date Tested:	2017-11-24 to 2017-11-25
Date Completed:	2017-11-25
Next Due Date:	2018-02-24
Page:	2 of 2

Certificate of Calibration

Results:

Conductivity performance checking

	Instrument Readings (µS/cm)	Acceptance Criteria	Comment
KCl stock solution (12890 µS/cm)	13000	12246-13534	Pass

Temperature performance checking

Reference thermometer- E431 Readings (°C)	Instrument Readings (°C)	Correction (°C)	Comment
20.7	20.705	-0.005	N/A

pH performance checking

	Instrument Readings (pH unit)	Acceptance Criteria	Comment
pH QC buffer 4.00	4.00	4.00 ± 0.10	Pass
pH QC buffer 6.86	6.87	6.86 ± 0.10	Pass
pH QC buffer 9.18	9.20	9.18 ± 0.10	Pass

D.O. performance checking

	Instrument Readings (mg/L)	Acceptance Criteria	Comment
Zero DO solution	0.05	<0.1mg/L	Pass

Winkler Titration value (mg/L)	Instrument Readings (mg/L)	Acceptance Criteria	Comment
8.00	8.06	Difference between Titration value and instrument reading <0.2mg/L	Pass

Turbidity performance checking

Turbidity stock solution	Instrument Readings (NTU)	Acceptance Criteria	Comment
10 NTU	10.09	9.0-11.0	Pass
50 NTU	50.03	45.0-55.0	Pass
100 NTU	100.4	90.0-110.0	Pass

Depth performance checking

Water Depth	Instrument Readings (NTU)	Acceptance Criteria	Comment
0.5 meter	0.50	0.45-0.55	Pass

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
RM 1710, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Test Report No.:	C/W/171124A
Date of Issue:	2017-11-25
Date Received:	2017-11-24
Date Tested:	2017-11-24 to 2017-11-25
Date Completed:	2017-11-25
Next Due Date:	2018-02-24

ATTN: Miss Mei Ling Tang

Page: 1 of 2

Certificate of Calibration

Item for calibration:

YSI EXO1 Multiparameter Sondes	Equipment No.: SW-08-06	
Manufacturer:	YSI Incorporated, a Xylem brand	
Description:	Model No.	Serial No.
- EXO Optical DO Sensor, Ti	599100-01	16H102985
- EXO conductivity/Temperature Sensor, Ti	599870	16G102307
- EXO Turbidity Sensor, Ti	599101-01	16H102463
- EXO pH Sensor Assembly, Guarded, Ti	599701	16H102985

Test conditions:

Room Temperature : 17-22 degree Celsius
Relative Humidity : 40-70%

Test Specifications:

Performance checking for Conductivity, Temperature, pH, Dissolved oxygen (D.O.) and Turbidity

Methodology:

According to manufacturer instruction manual, APHA 20e 4500-O C

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
Laboratory Manager

TEST REPORT

Test Report No.:	C/W/171124A
Date of Issue:	2017-11-25
Date Received:	2017-11-24
Date Tested:	2017-11-24 to 2017-11-25
Date Completed:	2017-11-25
Next Due Date:	2018-02-24
Page:	2 of 2

Certificate of Calibration

Results:

Conductivity performance checking

	Instrument Readings ($\mu\text{S}/\text{cm}$)	Acceptance Criteria	Comment
KCl stock solution (12890 $\mu\text{S}/\text{cm}$)	13000	12246-13534	Pass

Temperature performance checking

Reference thermometer- E431 Readings ($^{\circ}\text{C}$)	Instrument Readings ($^{\circ}\text{C}$)	Correction ($^{\circ}\text{C}$)	Comment
20.7	20.706	-0.006	N/A

pH performance checking

	Instrument Readings (pH unit)	Acceptance Criteria	Comment
pH QC buffer 4.00	4.01	4.00 ± 0.10	Pass
pH QC buffer 6.86	6.86	6.86 ± 0.10	Pass
pH QC buffer 9.18	9.19	9.18 ± 0.10	Pass

D.O. performance checking

	Instrument Readings (mg/L)	Acceptance Criteria	Comment
Zero DO solution	0.05	$<0.1\text{mg}/\text{L}$	Pass

Winkler Titration value (mg/L)	Instrument Readings (mg/L)	Acceptance Criteria	Comment
8.00	8.07	Difference between Titration value and instrument reading $<0.2\text{mg}/\text{L}$	Pass

Turbidity performance checking

Turbidity stock solution	Instrument Readings (NTU)	Acceptance Criteria	Comment
10 NTU	10.02	9.0-11.0	Pass
50 NTU	50.06	45.0-55.0	Pass
100 NTU	100.3	90.0-110.0	Pass

Depth performance checking

Water Depth	Instrument Readings (NTU)	Acceptance Criteria	Comment
0.5 meter	0.50	0.45-0.55	Pass

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
RM 1710, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Test Report No.:	C/W/171124B
Date of Issue:	2017-11-25
Date Received:	2017-11-24
Date Tested:	2017-11-24 to 2017-11-25
Date Completed:	2017-11-25
Next Due Date:	2018-02-24

ATTN: Miss Mei Ling Tang

Page: 1 of 2

Certificate of Calibration

Item for calibration:

YSI EXO1 Multiparameter Sondes	Equipment No.: SW-08-13	
Manufacturer:	YSI Incorporated, a Xylem brand	
Description:	Model No.	Serial No.
- EXO Optical DO Sensor, Ti	599100-01	16J100937
- EXO conductivity/Temperature Sensor, Ti	599870	16H100171
- EXO Turbidity Sensor, Ti	599101-01	16J101090
- EXO pH Sensor Assembly, Guarded, Ti	599701	16J100568

Test conditions:

Room Temperature : 17-22 degree Celsius
Relative Humidity : 40-70%

Test Specifications:

Performance checking for Conductivity, Temperature, pH, Dissolved oxygen (D.O.) and Turbidity

Methodology:

According to manufacturer instruction manual, APHA 20e 4500-O C

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
Laboratory Manager

TEST REPORT

Test Report No.:	C/W/171124B
Date of Issue:	2017-11-25
Date Received:	2017-11-24
Date Tested:	2017-11-24 to 2017-11-25
Date Completed:	2017-11-25
Next Due Date:	2018-02-24
Page:	2 of 2

Certificate of Calibration

Results:

Conductivity performance checking

	Instrument Readings ($\mu\text{S}/\text{cm}$)	Acceptance Criteria	Comment
KCl stock solution (12890 $\mu\text{S}/\text{cm}$)	13000	12246-13534	Pass

Temperature performance checking

Reference thermometer- E431 Readings ($^{\circ}\text{C}$)	Instrument Readings ($^{\circ}\text{C}$)	Correction ($^{\circ}\text{C}$)	Comment
20.7	20.704	-0.004	N/A

pH performance checking

	Instrument Readings (pH unit)	Acceptance Criteria	Comment
pH QC buffer 4.00	4.00	4.00 ± 0.10	Pass
pH QC buffer 6.86	6.87	6.86 ± 0.10	Pass
pH QC buffer 9.18	9.20	9.18 ± 0.10	Pass

D.O. performance checking

	Instrument Readings (mg/L)	Acceptance Criteria	Comment
Zero DO solution	0.05	$<0.1\text{mg}/\text{L}$	Pass

Winkler Titration value (mg/L)	Instrument Readings (mg/L)	Acceptance Criteria	Comment
8.00	8.04	Difference between Titration value and instrument reading $<0.2\text{mg}/\text{L}$	Pass

Turbidity performance checking

Turbidity stock solution	Instrument Readings (NTU)	Acceptance Criteria	Comment
10 NTU	10.06	9.0-11.0	Pass
50 NTU	50.12	45.0-55.0	Pass
100 NTU	99.8	90.0-110.0	Pass

Depth performance checking

Water Depth	Instrument Readings (NTU)	Acceptance Criteria	Comment
0.5 meter	0.50	0.45-0.55	Pass

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
RM 1710, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Test Report No.:	C/W/171124C
Date of Issue:	2017-11-25
Date Received:	2017-11-24
Date Tested:	2017-11-24 to 2017-11-25
Date Completed:	2017-11-25
Next Due Date:	2018-02-24

ATTN: Miss Mei Ling Tang

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Certificate of Calibration

Item for calibration:

YSI EXO1 Multiparameter Sondes	Equipment No.:	SW-08-20
Manufacturer:	YSI Incorporated, a Xylem brand	
Description:	Model No.	Serial No.
- EXO Optical DO Sensor, Ti	599100-01	16J100944
- EXO conductivity/Temperature Sensor, Ti	599870	16H100178
- EXO Turbuduty Sensor, Ti	599101-01	16J101097
- EXO pH Sensor Assembly, Guarded, Ti	599701	16J100706

Test conditions:

Room Temperatre : 17-22 degree Celsius
Relative Humidity : 40-70%

Test Specifications:

Performance checking for Conductivity, Temperature, pH, Dissolved oxygen (D.O.) and Turbidity

Methodology:

According to manufacturer instruction manual, APHA 20e 4500-O C

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
Laboratory Manager

TEST REPORT

Test Report No.:	C/W/171124C
Date of Issue:	2017-11-25
Date Received:	2017-11-24
Date Tested:	2017-11-24 to 2017-11-25
Date Completed:	2017-11-25
Next Due Date:	2018-02-24
Page:	2 of 2

Certificate of Calibration

Results:

Conductivity performance checking

	Instrument Readings (µS/cm)	Acceptance Criteria	Comment
KCl stock solution (12890 µS/cm)	13000	12246-13534	Pass

Temperature performance checking

Reference thermometer- E431 Readings (°C)	Instrument Readings (°C)	Correction (°C)	Comment
20.7	20.702	-0.002	N/A

pH performance checking

	Instrument Readings (pH unit)	Acceptance Criteria	Comment
pH QC buffer 4.00	4.03	4.00 ± 0.10	Pass
pH QC buffer 6.86	6.88	6.86 ± 0.10	Pass
pH QC buffer 9.18	9.23	9.18 ± 0.10	Pass

D.O. performance checking

	Instrument Readings (mg/L)	Acceptance Criteria	Comment
Zero DO solution	0.05	<0.1mg/L	Pass

Winkler Titration value (mg/L)	Instrument Readings (mg/L)	Acceptance Criteria	Comment
8.00	8.09	Difference between Titration value and instrument reading <0.2mg/L	Pass

Turbidity performance checking

Turbidity stock solution	Instrument Readings (NTU)	Acceptance Criteria	Comment
10 NTU	10.07	9.0-11.0	Pass
50 NTU	50.27	45.0-55.0	Pass
100 NTU	100.6	90.0-110.0	Pass

Depth performance checking

Water Depth	Instrument Readings (NTU)	Acceptance Criteria	Comment
0.5 meter	0.50	0.45-0.55	Pass

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
RM 1710, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Test Report No.:	C/W/171124D
Date of Issue:	2017-11-25
Date Received:	2017-11-24
Date Tested:	2017-11-24 to 2017-11-25
Date Completed:	2017-11-25
Next Due Date:	2018-02-24

ATTN: Miss Mei Ling Tang

Page: 1 of 2

Certificate of Calibration

Item for calibration:

YSI EXO1 Multiparameter Sondes	Equipment No.:	SW-08-61
Manufacturer:	YSI Incorporated, a Xylem brand	
Description:	Model No.	Serial No.
- EXO Optical DO Sensor, Ti	599100-01	16J100986
- EXO conductivity/Temperature Sensor, Ti	599870	16H100170
- EXO Turbidity Sensor, Ti	599101-01	16J101140
- EXO pH Sensor Assembly, Guarded, Ti	599701	16J101307

Test conditions:

Room Temperature : 17-22 degree Celsius
Relative Humidity : 40-70%

Test Specifications:

Performance checking for Conductivity, Temperature, pH, Dissolved oxygen (D.O.) and Turbidity

Methodology:

According to manufacturer instruction manual, APHA 20e 4500-O C

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Laboratory Manager

TEST REPORT

Test Report No.:	C/W/171124D
Date of Issue:	2017-11-25
Date Received:	2017-11-24
Date Tested:	2017-11-24 to 2017-11-25
Date Completed:	2017-11-25
Next Due Date:	2018-02-24

Page: 2 of 2

Certificate of Calibration

Results:

Conductivity performance checking

	Instrument Readings ($\mu\text{S/cm}$)	Acceptance Criteria	Comment
KCl stock solution (12890 $\mu\text{S/cm}$)	13000	12246-13534	Pass

Temperature performance checking

Reference thermometer- E431 Readings ($^{\circ}\text{C}$)	Instrument Readings ($^{\circ}\text{C}$)	Correction ($^{\circ}\text{C}$)	Comment
20.7	20.704	-0.004	N/A

pH performance checking

	Instrument Readings (pH unit)	Acceptance Criteria	Comment
pH QC buffer 4.00	4.05	4.00 ± 0.10	Pass
pH QC buffer 6.86	6.87	6.86 ± 0.10	Pass
pH QC buffer 9.18	9.20	9.18 ± 0.10	Pass

D.O. performance checking

	Instrument Readings (mg/L)	Acceptance Criteria	Comment
Zero DO solution	0.05	$<0.1\text{mg/L}$	Pass

Winkler Titration value (mg/L)	Instrument Readings (mg/L)	Acceptance Criteria	Comment
8.00	8.04	Difference between Titration value and instrument reading $<0.2\text{mg/L}$	Pass

Turbidity performance checking

Turbidity stock solution	Instrument Readings (NTU)	Acceptance Criteria	Comment
10 NTU	10.03	9.0-11.0	Pass
50 NTU	50.08	45.0-55.0	Pass
100 NTU	100.2	90.0-110.0	Pass

Depth performance checking

Water Depth	Instrument Readings (NTU)	Acceptance Criteria	Comment
0.5 meter	0.50	0.45-0.55	Pass

*****END OF REPORT*****

**APPENDIX C
BASELINE WATER QUALITY
MONITORING RESULTS
(IN-SITU PARAMETERS)**

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 10 September 2017 (Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	
B10	Fine	Rough	14:31	Surface	1	29.5 29.4	29.5	8.0 8.0	8.0	24.5 24.6	24.6	79.1 75.8	77.5	5.3 5.1	5.2	5.2	2.6 2.7	2.7	2.9	
				Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-
				Bottom	3	28.1 28.7	28.4	8.0 8.0	8.0	27.4 27.0	27.2	68.8 68.2	68.5	4.6 4.5	4.6		4.6	2.9 3.0		3.0
B11	Fine	Rough	14:37	Surface	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	3.1	
				Middle	1.1	29.1 29.1	29.1	8.0 8.0	8.0	24.8 24.7	24.8	75.2 75.1	75.2	5.0 5.0	5.0		3.0 3.1	3.1		
				Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		
B12	Fine	Rough	14:45	Surface	1	28.7 28.7	28.7	8.0 8.0	8.0	24.8 24.8	24.8	72.4 69.1	70.8	4.9 4.7	4.8	4.8	3.8 3.7	3.8	4.6	
				Middle	-	-	-	-	-	-	-	-	-	-	-		-			
				Bottom	3	28.1 28.1	28.1	8.0 8.0	8.0	26.5 26.5	26.5	65.9 65.6	65.8	4.5 4.4	4.5		4.5	5.3 5.4		5.4
B13	Fine	Rough	14:55	Surface	1	28.0 28.1	28.1	8.0 8.0	8.0	26.8 26.7	26.8	66.8 64.8	65.8	4.5 4.4	4.5	4.5	4.8 4.6	4.7	4.0	
				Middle	3.5	28.0 28.0	28.0	8.0 8.0	8.0	27.3 27.4	27.4	65.3 64.9	65.1	4.4 4.4	4.4		3.6 3.2	3.4		
				Bottom	6	27.9 27.9	27.9	8.0 8.0	8.0	27.5 27.5	27.5	63.9 64.5	64.2	4.3 4.3	4.3		4.3	3.7 4.0		3.9
B14	Fine	Rough	13:50	Surface	-	-	-	-	-	-	-	-	-	-	-	4.7	-	-	3.7	
				Middle	1.2	28.4 28.3	28.4	8.0 8.0	8.0	28.0 28.0	28.0	71.0 70.2	70.6	4.7 4.7	4.7		3.5 3.8	3.7		
				Bottom	-	-	-	-	-	-	-	-	-	-	-		-			
B24	Fine	Rough	15:46	Surface	1	27.9 27.9	27.9	8.0 8.0	8.0	31.7 31.6	31.7	72.8 72.4	72.6	4.8 4.8	4.8	4.7	1.0 1.0	1.0	1.5	
				Middle	4	26.9 26.9	26.9	8.0 8.0	8.0	32.2 32.2	32.2	66.9 66.3	66.6	4.5 4.4	4.5		1.6 1.7	1.7		
				Bottom	7	26.9 26.9	26.9	8.0 8.0	8.0	32.4 32.4	32.4	66.7 66.6	66.7	4.5 4.4	4.5		4.5	1.8 1.8		1.8
B25	Fine	Rough	15:33	Surface	1	28.3 28.0	28.2	8.0 8.0	8.0	31.6 31.7	31.7	81.9 79.8	80.9	5.4 5.2	5.3	5.3	1.0 1.0	1.0	1.1	
				Middle	-	-	-	-	-	-	-	-	-	-	-		-			
				Bottom	4	27.6 27.6	27.6	8.0 8.0	8.0	31.8 31.8	31.8	75.2 73.2	74.2	5.0 4.8	4.9		4.9	1.1 1.1		1.1
B26	Fine	Rough	14:56	Surface	1	28.1 27.6	27.9	8.0 8.1	8.1	31.9 32.2	32.1	81.7 82.6	82.2	5.4 5.4	5.4	5.4	1.1 1.3	1.2	1.5	
				Middle	5.5	27.0 26.9	27.0	8.1 8.1	8.1	32.6 32.8	32.7	79.6 83.3	81.5	5.3 5.5	5.4		1.6 1.7	1.7		
				Bottom	10	26.7 26.6	26.7	8.1 8.1	8.1	33.0 33.2	33.1	77.1 74.4	75.8	5.1 5.0	5.1		5.1	1.6 1.5		1.6

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 10 September 2017 (Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)	Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)					
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*			
B30	Fine	Rough	14:13	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				Middle	1.3	28.7	28.7	8.0	8.0	28.4	28.4	94.4	94.3	6.2	6.2	6.2	6.2	6.2	0.6	0.6	
				Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B31	Fine	Rough	14:00	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				Middle	1.1	29.0	29.0	8.1	8.1	27.6	27.6	112.9	112.1	7.5	7.5	7.5	7.5	7.5	0.9	0.9	
				Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B32	Fine	Rough	14:22	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				Middle	1.3	28.8	29.0	8.0	8.0	28.4	28.3	94.6	97.9	6.2	6.6	6.4	6.4	6.4	0.7	0.7	
				Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B33	Fine	Rough	14:27	Surface	1	29.0	29.0	8.0	8.0	28.2	28.2	93.3	92.8	6.1	6.1	6.1	6.1	6.1	0.8		
				Middle	4	28.1	28.1	8.0	8.0	29.0	29.1	85.4	84.9	5.7	5.6	5.7	5.7	5.7	0.7	0.8	
				Bottom	7	28.0	28.0	8.0	8.0	29.5	29.6	80.1	80.2	5.3	5.3	5.3	5.3	5.3	2.0	2.2	
B34	Fine	Rough	14:37	Surface	1	29.0	29.1	8.0	8.0	28.0	28.0	97.2	97.3	6.4	6.4	6.4	6.4	6.4	6.4	0.4	
				Middle	3.5	28.3	28.3	8.0	8.0	28.4	28.5	92.8	92.8	6.2	6.2	6.2	6.2	6.2	6.2	0.7	0.7
				Bottom	6	28.2	28.3	8.0	8.0	28.8	28.8	87.8	87.4	5.8	5.8	5.8	5.8	5.8	5.8	1.3	1.3
B35	Fine	Rough	14:50	Surface	1	29.7	29.6	8.0	8.0	28.0	28.1	94.5	94.1	6.2	6.1	6.2	6.0	6.0	6.0	0.4	
				Middle	4.5	28.1	28.1	8.0	8.0	29.1	29.1	86.3	86.0	5.7	5.7	5.7	5.7	5.7	5.7	0.7	0.7
				Bottom	8	27.9	27.9	8.0	8.0	30.3	30.3	74.3	75.3	4.9	5.1	5.0	5.0	5.0	7.1	6.6	
B7	Fine	Rough	14:10	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				Middle	0.9	28.3	28.3	8.0	8.0	27.0	27.0	69.9	70.1	4.7	4.7	4.7	4.7	4.7	4.7	3.6	
				Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B8	Fine	Rough	14:18	Surface	1	28.3	28.3	8.0	8.0	26.9	26.9	69.2	68.8	4.6	4.6	4.6	4.5	4.5	4.5	3.9	
				Middle	8	27.9	28.0	8.0	8.0	28.3	28.2	65.1	65.2	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.3
				Bottom	15	27.6	27.6	8.0	8.0	30.1	30.0	60.9	60.8	4.1	4.1	4.1	4.1	4.1	5.2	5.2	

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 10 September 2017 (Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	
B9	Fine	Rough	14:25	Surface	1	28.3	28.3	8.0	8.0	26.2	26.2	71.4	69.7	4.8	4.7	4.7	3.2	3.2	3.8	
						28.3	28.3	8.0	8.0	26.2	26.2	68.0	68.0	4.6	4.7		3.2	3.2		
				Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
				Bottom	4	27.9	27.9	8.0	8.0	28.1	28.2	64.6	64.3	4.3	4.3	4.3	4.4	4.4		
						27.9	27.9	8.0	8.0	28.2	28.2	63.9	64.3	4.3	4.3	4.3	4.3	4.4		
EM1	Fine	Rough	15:37	Surface	1	27.8	27.7	8.7	8.5	32.3	32.5	64.0	63.3	4.2	4.2	4.1	1.1	1.1	3.2	
						27.6	27.7	8.3	8.5	32.6	32.5	62.5	63.3	4.1	4.2		1.1	1.1		
				Middle	9	26.4	26.5	8.7	8.5	35.2	35.1	61.2	60.6	4.0	4.0	4.0	4.0	3.4		3.7
						26.6	26.5	8.3	8.5	35.0	35.1	60.0	60.6	4.0	4.0	4.0	4.0	4.0	3.7	
				Bottom	17	26.3	26.3	8.7	8.5	35.5	35.5	61.3	61.0	4.1	4.1	4.1	4.8	4.8		
						26.3	26.3	8.3	8.5	35.5	35.5	60.7	61.0	4.0	4.1	4.1	4.7	4.8		
EM2	Fine	Rough	15:13	Surface	1	27.3	27.4	8.2	8.2	33.5	33.5	63.6	63.8	4.2	4.2	4.2	1.9	1.9	3.0	
						27.4	27.4	8.1	8.2	33.5	33.5	63.9	63.8	4.2	4.2		1.9	1.9		
				Middle	10	26.8	26.9	8.2	8.2	34.5	34.5	61.8	61.9	4.1	4.1	4.1	2.4	2.5		
						26.9	26.9	8.1	8.2	34.4	34.5	62.0	61.9	4.1	4.1	4.1	2.5	2.5		
				Bottom	19	26.4	26.3	8.2	8.2	35.4	35.6	62.0	62.0	4.1	4.1	4.1	5.0	4.7		
						26.2	26.3	8.2	8.2	35.8	35.6	61.9	62.0	4.1	4.1	4.1	4.4	4.7		
EM3	Fine	Rough	15:12	Surface	1	27.6	27.6	8.0	8.0	31.5	31.6	67.9	68.0	4.5	4.5	4.9	1.4	1.4	3.3	
						27.6	27.6	8.0	8.0	31.6	31.6	68.0	68.0	4.5	4.5		1.4	1.4		
				Middle	12.5	26.7	26.8	8.1	8.1	33.0	32.9	74.3	77.9	5.0	5.2	5.0	5.2	1.4		1.4
						26.8	26.8	8.1	8.1	32.8	32.9	81.4	77.9	5.4	5.2	5.4	5.2	1.4	1.4	
				Bottom	24	25.8	25.8	8.1	8.1	33.9	33.9	67.2	67.2	4.5	4.5	4.5	7.1	7.2		
						25.8	25.8	8.1	8.1	33.9	33.9	67.2	67.2	4.5	4.5	4.5	7.2	7.2		
F1	Fine	Rough	16:02	Surface	1	27.5	27.6	8.0	8.0	31.9	31.9	71.4	71.2	4.7	4.7	4.9	1.5	1.4	2.2	
						27.6	27.6	8.0	8.0	31.8	31.9	71.0	71.2	4.7	4.7		1.5	1.4		
				Middle	4.5	26.9	26.9	8.0	8.1	32.6	32.7	73.0	75.3	4.9	5.1	4.9	2.3	2.3		
						26.8	26.9	8.1	8.1	32.8	32.7	77.6	75.3	5.2	5.1	5.2	2.2	2.3		
				Bottom	8	26.5	26.6	8.1	8.1	33.3	33.2	69.0	71.0	4.6	4.8	4.8	2.7	2.8		
						26.6	26.6	8.1	8.1	33.1	33.2	72.9	71.0	4.9	4.8	4.8	2.8	2.8		
F4	Fine	Rough	15:50	Surface	1	28.2	28.3	8.0	8.0	29.1	29.0	76.8	74.6	5.1	5.0	5.0	1.4	1.4	1.7	
						28.3	28.3	8.0	8.0	28.9	29.0	72.4	74.6	4.8	5.0		1.4	1.4		
				Middle	5	28.0	28.0	8.0	8.0	29.5	29.5	74.1	73.8	4.9	4.9	4.9	4.9	1.6		1.6
						28.0	28.0	8.0	8.0	29.5	29.5	73.5	73.8	4.9	4.9	4.9	1.6	1.6		
				Bottom	9	27.9	27.9	8.0	8.0	29.8	29.9	70.0	70.3	4.7	4.7	4.7	2.3	2.2		
						27.8	27.9	8.0	8.0	29.9	29.9	70.6	70.3	4.7	4.7	4.7	2.1	2.2		
F5	Fine	Rough	14:01	Surface	1	28.7	28.7	8.0	8.0	25.0	25.1	70.5	70.1	4.8	4.8	4.8	4.3	4.1	3.9	
						28.7	28.7	8.0	8.0	25.1	25.1	69.6	70.1	4.7	4.8		4.7	4.8		3.8
				Middle	4	28.6	28.6	8.0	8.0	25.4	25.4	69.1	69.0	4.7	4.7	4.7	4.7	3.6		3.8
						28.5	28.6	8.0	8.0	25.4	25.4	68.8	69.0	4.6	4.7	4.6	3.9	3.8		
				Bottom	7	28.4	28.4	8.0	8.0	25.7	25.7	67.5	67.3	4.6	4.6	4.6	3.8	3.9		
						28.4	28.4	8.0	8.0	25.7	25.7	67.1	67.3	4.5	4.6	4.6	4.0	3.9		
JM3	Fine	Rough	15:53	Surface	1	27.3	27.4	8.6	8.5	34.1	34.1	67.6	67.4	4.4	4.4	4.4	1.1	1.1	4.0	
						27.4	27.4	8.3	8.5	34.1	34.1	67.1	67.4	4.4	4.4		1.1	1.1		
				Middle	5.5	27.0	27.0	8.5	8.4	34.3	34.3	64.7	64.5	4.3	4.3	4.3	4.3	1.4		1.4
						27.0	27.0	8.3	8.4	34.3	34.3	64.3	64.5	4.2	4.3	4.2	1.4	1.4		
				Bottom	10	26.5	26.5	8.5	8.4	35.2	35.3	60.1	60.0	4.0	4.0	4.0	9.2	9.6		
						26.5	26.5	8.3	8.4	35.3	35.3	59.8	60.0	3.9	4.0	4.0	9.9	9.6		

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Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	
MM13	Fine	Rough	13:45	Surface	1	28.8 29.1	29.0	8.3 8.3	8.3	28.7 27.8	28.3	129.6 130.2	129.9	8.5 8.6	8.6	7.2	0.3 0.3	0.3	1.8	
				Middle	14.5	27.7 27.5	27.6	8.2 8.2	8.2	33.6 33.6	33.6	88.1 87.5	87.8	5.8 5.7	5.8		0.2 0.2			
				Bottom	28	25.9 25.9	25.9	8.2 8.2	8.2	34.1 34.1	34.1	85.4 85.5	85.5	5.7 5.7	5.7		4.9 4.8			4.9
SM12	Fine	Rough	13:29	Surface	1	29.2 29.2	29.2	8.1 8.1	8.1	26.4 26.4	26.4	99.1 98.4	98.8	6.6 6.5	6.6	6.3	0.4 0.4	0.4	4.8	
				Middle	4	28.4 28.3	28.4	8.1 8.1	8.1	27.2 27.6	27.4	90.3 85.7	88.0	6.0 5.7	5.9		0.9 1.0			1.0
				Bottom	7	27.7 27.7	27.7	8.0 8.0	8.0	30.3 30.5	30.4	62.6 61.5	62.1	4.2 4.1	4.2		13.1 13.1			13.1
SM17	Fine	Rough	14:00	Surface	1	29.0 29.0	29.0	8.2 8.2	8.2	22.9 22.9	22.9	112.2 111.0	111.6	7.6 7.5	7.6	6.0	1.9 1.9	1.9	6.7	
				Middle	8.5	27.6 27.6	27.6	8.1 8.1	8.1	32.1 32.8	32.5	65.2 63.2	64.2	4.3 4.2	4.3		1.9 2.0			2.0
				Bottom	16	27.4 27.4	27.4	8.1 8.1	8.1	34.1 34.1	34.1	57.8 58.4	58.1	3.8 3.8	3.8		17.1 15.0			16.1
SM2	Fine	Rough	15:07	Surface	1	29.0 29.0	29.0	8.0 8.0	8.0	28.7 28.7	28.7	89.0 89.6	89.3	5.9 5.9	5.9	5.8	0.7 0.8	0.8	2.1	
				Middle	7	28.4 28.3	28.4	8.0 8.0	8.0	29.4 29.5	29.5	84.2 83.1	83.7	5.6 5.5	5.6		0.8 0.8			
				Bottom	13	27.2 27.2	27.2	8.0 8.0	8.0	33.6 33.5	33.6	62.5 65.2	63.9	4.1 4.3	4.2		4.7 4.6			4.7
SM3	Fine	Rough	15:37	Surface	1	28.0 28.2	28.1	8.0 8.0	8.0	28.8 28.5	28.7	69.3 68.7	69.0	4.6 4.6	4.6	4.3	3.3 3.0	3.2	4.4	
				Middle	16	27.1 27.1	27.1	8.0 8.1	8.1	33.8 33.9	33.9	61.4 61.1	61.3	4.0 4.0	4.0		4.7 5.0			4.9
				Bottom	31	27.1 27.1	27.1	8.1 8.1	8.1	33.8 33.9	33.9	60.9 60.4	60.7	4.0 4.0	4.0		4.9 5.5			5.2
SM6	Fine	Rough	14:37	Surface	1	29.7 29.6	29.7	8.3 8.3	8.3	25.0 25.1	25.1	128.3 130.0	129.2	8.5 8.6	8.6	6.6	0.8 0.8	0.8	3.3	
				Middle	7.5	27.7 27.9	27.8	8.1 8.1	8.1	29.7 29.0	29.4	66.2 69.2	67.7	4.4 4.6	4.5		1.1 1.2			1.2
				Bottom	14	27.5 27.5	27.5	8.1 8.1	8.1	34.0 33.9	34.0	59.1 59.1	59.1	3.9 3.9	3.9		8.1 7.4			7.8
VM1	Fine	Rough	14:39	Surface	1	27.7 27.6	27.7	8.1 8.1	8.1	32.4 32.4	32.4	62.3 61.2	61.8	4.1 4.0	4.1	4.1	1.9 1.8	1.9	2.0	
				Middle	20.5	27.1 27.2	27.2	8.2 8.2	8.2	33.6 33.3	33.5	60.0 60.0	60.0	4.0 4.0	4.0		1.9 1.7			1.8
				Bottom	30	26.9 26.9	26.9	8.2 8.2	8.2	34.0 34.0	34.0	59.1 58.9	59.0	3.9 3.9	3.9		2.3 2.3			2.3
VM12	Fine	Rough	15:43	Surface	1	28.1 28.0	28.1	8.0 8.0	8.0	28.0 28.1	28.1	68.6 64.5	66.6	4.6 4.3	4.5	4.3	4.7 4.7	4.7	10.6	
				Middle	9.5	27.7 27.7	27.7	8.0 8.0	8.0	29.8 29.8	29.8	60.1 59.9	60.0	4.0 4.0	4.0		13.6 13.6			13.6
				Bottom	18	27.3 27.3	27.3	8.1 8.1	8.1	32.7 32.7	32.7	56.5 56.1	56.3	3.7 3.7	3.7		13.7 13.2			13.5

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Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
VM14	Fine	Rough	15:19	Surface	1	28.6	28.6	8.0	8.0	25.8	25.8	71.7	70.7	4.8	4.8	4.6	2.9	2.8	7.2
						28.6		8.0		25.7		69.6		4.7			2.6		
				Middle	7	27.9	28.1	8.0	8.0	27.8	27.2	64.6	65.8	4.3	4.4	4.3	4.4		
				28.2		8.0		26.5		66.9		4.5		4.4					
				Bottom	13	27.6	27.6	8.0	8.0	29.3	29.4	59.1	58.9	4.0	4.0	4.0	14.5	14.4	
						27.6		8.0		29.4		58.7		3.9		14.3			
VM15	Fine	Rough	15:18	Surface	1	28.3	28.4	7.8	7.9	29.8	29.8	62.1	62.9	4.1	4.2	4.0	2.1	2.0	4.2
						28.4		7.9		29.7		63.6		4.2			1.8		
				Middle	6	27.6	27.6	7.9	7.9	30.8	30.8	57.7	57.4	3.8	3.8	4.2	4.3		
				27.6		7.9		30.7		57.1		3.8		3.8					
				Bottom	11	27.4	27.4	7.9	7.9	31.4	31.4	55.8	55.8	3.7	3.7	3.7	6.0	6.2	
						27.4		7.9		31.4		55.7		3.7		6.4			
VM2	Fine	Rough	14:05	Surface	1	27.7	27.7	8.7	8.5	31.5	31.6	59.7	59.2	3.9	3.9	3.9	2.6	2.5	3.6
						27.7		8.2		31.6		58.6		3.9			2.4		
				Middle	7	26.9	27.0	8.8	8.5	33.8	33.7	59.0	58.4	3.9	3.9	3.2	3.2		
				27.0		8.2		33.5		57.8		3.8		3.9					
				Bottom	13	26.7	26.8	8.6	8.5	34.4	34.4	58.3	58.3	3.9	3.9	3.9	5.2	5.1	
						26.8		8.3		34.3		58.2		3.8		4.9			
VM4	Fine	Rough	13:45	Surface	1	27.8	27.9	7.9	7.9	30.8	30.8	63.5	63.6	4.2	4.2	4.1	1.8	1.9	3.7
						27.9		7.9		30.7		63.7		4.2			1.9		
				Middle	7.5	27.3	27.3	7.9	7.9	31.9	31.9	58.2	58.2	3.9	3.9	3.6	3.6		
				27.3		7.9		31.9		58.1		3.9		3.9					
				Bottom	14	26.7	26.7	8.0	8.0	34.1	34.1	59.1	59.3	3.9	3.9	3.9	5.7	5.7	
						26.7		8.0		34.1		59.4		3.9		5.6			
VM5	Fine	Rough	15:47	Surface	1	28.4	28.4	7.9	7.9	29.3	29.4	70.6	70.0	4.7	4.7	4.7	2.0	2.1	3.7
						28.3		7.9		29.4		69.3		4.6			2.1		
				Middle	6.5	27.9	27.9	7.9	8.0	30.4	30.5	69.2	68.8	4.6	4.6	2.4	2.5		
				27.9		8.0		30.5		68.4		4.5		2.5					
				Bottom	12	27.7	27.7	7.9	8.0	31.0	31.0	63.7	63.9	4.2	4.2	4.2	6.7	6.6	
						27.7		8.0		30.9		64.0		4.2		6.4			
VM7	Fine	Rough	14:30	Surface	1	28.5	28.5	8.0	8.0	28.8	28.9	71.6	70.2	4.7	4.7	4.5	2.0	2.0	5.0
						28.4		8.0		28.9		68.7		4.6			1.9		
				Middle	6.5	27.8	27.8	7.9	8.0	30.1	30.3	63.2	64.7	4.2	4.3	1.2	1.3		
				27.8		8.0		30.4		66.1		4.4		1.3					
				Bottom	12	27.4	27.5	8.0	8.0	32.4	32.2	61.6	61.3	4.1	4.1	4.1	11.8	11.7	
						27.5		8.0		31.9		60.9		4.0		11.6			
VM8	Fine	Rough	14:51	Surface	1	28.4	28.5	7.9	7.9	28.6	28.6	70.0	70.2	4.6	4.7	4.6	1.9	2.0	4.0
						28.5		7.9		28.5		70.3		4.7			2.1		
				Middle	6	27.6	27.6	8.0	8.0	30.3	30.4	66.1	66.0	4.4	4.4	1.7	1.8		
				27.6		8.0		30.4		65.9		4.4		1.8					
				Bottom	11	27.3	27.3	8.0	8.0	33.1	32.9	60.3	60.5	4.0	4.0	4.0	8.2	8.2	
						27.3		8.0		32.7		60.7		4.0		8.2			
WM1	Fine	Rough	16:02	Surface	1	28.9	28.9	8.0	8.0	27.4	27.4	76.2	75.3	5.0	5.0	4.9	2.5	2.5	3.3
						28.8		7.9		27.4		74.4		4.9			2.4		
				Middle	15.5	27.8	27.8	8.0	8.0	30.1	30.2	70.4	70.0	4.7	4.7	1.5	1.4		
				27.8		8.0		30.2		69.6		4.6		1.3					
				Bottom	30	27.2	27.2	8.0	8.0	33.6	33.6	60.2	60.0	4.0	4.0	4.0	6.0	5.9	
						27.2		8.0		33.5		59.7		3.9		5.8			

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 10 September 2017 (Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
WM2	Fine	Rough	15:02	Surface	1	28.2 28.3	28.3	7.9 7.9	7.9	27.6 27.6	27.6	67.5 67.0	67.3	4.5 4.5	4.5	4.5	2.7 2.7	2.7	4.2
				Middle	7.5	27.7 27.9	27.8	7.9 7.9	7.9	29.2 28.9	29.1	64.0 65.4	64.7	4.3 4.4	4.4		4.4 4.3	4.4	
				Bottom	14	27.3 27.3	27.3	8.0 8.0	8.0	33.2 33.2	33.2	62.1 62.5	62.3	4.1 4.1	4.1		4.1	5.4 5.5	
WM4	Fine	Rough	13:41	Surface	1	28.0 27.9	28.0	8.0 8.0	8.0	27.9 28.1	28.0	67.1 65.0	66.1	4.5 4.4	4.5	4.3	2.7 2.6	2.7	5.6
				Middle	15	27.5 27.5	27.5	8.0 8.0	8.0	30.0 29.9	30.0	61.3 60.7	61.0	4.1 4.1	4.1		5.6 6.5	6.1	
				Bottom	29	27.5 27.5	27.5	8.0 8.0	8.0	30.4 30.5	30.5	60.2 60.1	60.2	4.0 4.0	4.0		4.0	8.6 7.3	
WSD10	Fine	Rough	13:46	Surface	1	28.3 28.2	28.3	8.7 8.2	8.5	31.8 31.8	31.8	64.0 63.3	63.7	4.2 4.1	4.2	4.1	1.4 1.6	1.5	3.8
				Middle	5.5	27.6 27.6	27.6	8.7 8.2	8.5	32.6 32.5	32.6	59.7 59.4	59.6	3.9 3.9	3.9		2.4 2.3	2.4	
				Bottom	10	26.9 27.5	27.2	8.6 8.2	8.4	34.0 32.8	33.4	59.0 58.9	59.0	3.9 3.9	3.9		3.9	7.3 7.9	
WSD11	Fine	Rough	13:30	Surface	1	27.9 27.9	27.9	8.7 8.6	8.7	32.6 32.5	32.6	64.4 64.7	64.6	4.2 4.2	4.2	4.2	1.6 1.6	1.6	3.6
				Middle	8.5	27.8 27.8	27.8	8.6 8.5	8.6	32.6 32.6	32.6	63.0 63.2	63.1	4.1 4.1	4.1		2.0 1.9	2.0	
				Bottom	16	26.8 26.8	26.8	8.5 8.6	8.6	34.4 34.4	34.4	59.2 58.8	59.0	3.9 3.9	3.9		3.9	6.9 7.2	
WSD12	Fine	Rough	16:03	Surface	1	27.9 27.9	27.9	8.2 8.2	8.2	33.8 33.8	33.8	72.3 70.4	71.4	4.7 4.6	4.7	4.6	1.1 1.0	1.1	1.5
				Middle	3.5	27.6 27.7	27.7	8.2 8.2	8.2	33.9 33.9	33.9	69.2 69.3	69.3	4.5 4.5	4.5		1.2 1.2	1.2	
				Bottom	6	27.4 27.0	27.2	8.2 8.2	8.2	34.2 34.6	34.4	64.2 63.0	63.6	4.2 4.1	4.2		4.2	2.1 2.1	
WSD13	Fine	Rough	14:59	Surface	1	27.4 27.3	27.4	8.6 8.2	8.4	33.8 33.8	33.8	64.8 65.9	65.4	4.3 4.3	4.3	4.3	1.7 1.8	1.8	3.8
				Middle	4.5	27.2 27.3	27.3	8.5 8.2	8.4	34.0 33.9	34.0	63.7 63.1	63.4	4.2 4.1	4.2		2.0 1.9	2.0	
				Bottom	8	26.9 27.1	27.0	8.2 8.2	8.2	34.3 34.1	34.2	60.0 62.1	61.1	4.0 4.1	4.1		4.1	7.3 7.6	
WSD15	Fine	Rough	14:29	Surface	1	27.7 27.7	27.7	8.2 8.2	8.2	32.8 32.8	32.8	63.1 60.3	61.7	4.1 4.0	4.1	4.0	1.6 1.7	1.7	5.3
				Middle	7.5	27.2 27.2	27.2	8.3 8.2	8.3	33.6 33.6	33.6	58.8 58.2	58.5	3.9 3.8	3.9		3.2 2.8	3.0	
				Bottom	14	26.8 26.8	26.8	8.2 8.2	8.2	34.4 34.4	34.4	57.9 57.9	57.9	3.8 3.8	3.8		3.8	10.9 11.2	

Remarks: *DA: Depth-Averaged

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DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 10 September 2017 (Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
WSD17	Fine	Rough	14:15	Surface	1	27.3 27.4	27.4	8.2 8.2	8.2	32.8 32.5	32.7	53.1 52.4	52.8	3.5 3.5	3.5	3.6	4.0 4.3	6.1	4.2
				Middle	4.5	26.8 26.8	26.8	8.3 8.2	8.3	34.3 34.2	34.3	56.4 55.5	56.0	3.7 3.7	3.7		5.7 5.9		5.8
				Bottom	8	26.7 26.7	26.7	8.3 8.2	8.3	34.6 34.6	34.6	56.4 55.6	56.0	3.7 3.7	3.7		8.1 8.2		8.2
WSD18	Fine	Rough	14:09	Surface	1	28.1 28.1	28.1	7.9 7.9	7.9	30.0 30.0	30.0	71.5 69.9	70.7	4.7 4.6	4.7	4.7	2.8 2.5	4.9	2.7
				Middle	7	28.1 28.1	28.1	7.9 7.9	7.9	30.0 30.0	30.0	69.5 69.5	69.5	4.6 4.6	4.6		3.1 2.7		2.9
				Bottom	13	27.9 27.9	27.9	7.9 7.9	7.9	30.3 30.3	30.3	66.5 66.1	66.3	4.4 4.4	4.4		9.3 9.0		9.2
WSD19	Fine	Rough	14:19	Surface	1	28.3 28.3	28.3	8.0 8.0	8.0	29.7 29.6	29.7	75.8 73.4	74.6	5.0 4.8	4.9	4.9	2.6 2.3	6.7	2.5
				Middle	7	28.1 28.1	28.1	8.0 8.0	8.0	30.1 30.1	30.1	72.7 72.1	72.4	4.8 4.8	4.8		3.0 3.6		3.3
				Bottom	13	27.5 27.7	27.6	7.9 7.9	7.9	31.7 30.9	31.3	58.9 63.4	61.2	3.9 4.2	4.1		14.2 14.5		14.4
WSD20	Fine	Rough	14:43	Surface	1	28.4 28.5	28.5	7.9 8.0	8.0	28.8 28.6	28.7	73.5 73.6	73.6	4.9 4.9	4.9	4.9	2.0 2.2	2.1	2.1
				Middle	5.5	28.2 28.2	28.2	8.0 8.0	8.0	29.2 29.1	29.2	71.3 71.9	71.6	4.7 4.8	4.8		1.9 2.2		2.1
				Bottom	10	28.1 28.1	28.1	8.0 8.0	8.0	29.5 29.5	29.5	70.3 70.4	70.4	4.7 4.7	4.7		2.0 2.1		2.1
WSD21	Fine	Rough	15:22	Surface	1	28.6 28.6	28.6	8.0 8.0	8.0	29.1 29.0	29.1	83.2 82.1	82.7	5.5 5.4	5.5	5.5	1.4 1.3	2.2	1.4
				Middle	3.5	28.4 28.3	28.4	8.0 8.0	8.0	29.5 29.8	29.7	82.0 80.9	81.5	5.4 5.3	5.4		1.6 1.6		1.6
				Bottom	6	27.9 27.6	27.8	8.0 8.0	8.0	30.8 31.4	31.1	75.5 71.2	73.4	5.0 4.7	4.9		3.6 3.6		3.6
WSD22	Fine	Rough	13:58	Surface	1	28.0 28.0	28.0	7.9 7.9	7.9	30.4 30.3	30.4	63.6 63.2	63.4	4.2 4.2	4.2	4.2	2.7 2.3	4.6	2.5
				Middle	4.5	27.9 28.0	28.0	7.9 7.9	7.9	30.7 30.7	30.7	62.0 61.6	61.8	4.1 4.1	4.1		3.6 3.3		3.5
				Bottom	8	27.8 27.8	27.8	7.9 7.9	7.9	31.0 31.0	31.0	60.1 59.9	60.0	4.0 4.0	4.0		7.6 8.1		7.9

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 10 September 2017 (Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	
WSD4	Fine	Rough	15:10	Surface	1	28.5 28.3	28.4	8.0 8.0	8.0	25.7 25.6	25.7	69.9 67.8	68.9	4.7 4.6	4.7	4.5	2.5 2.5	6.5	2.5	
				Middle	4.5	27.7 27.9	27.8	8.0 8.0	8.0	28.3 27.5	27.9	62.2 63.2	62.7	4.2 4.3	4.3		4.3 4.3			
				Bottom	8	27.6 27.6	27.6	8.0 8.0	8.0	29.1 29.1	29.1	59.0 59.8	59.4	4.0 4.0	4.0		13.9 11.2			12.6
WSD5	Fine	Rough	15:31	Surface	1	28.0 27.9	28.0	8.0 8.0	8.0	27.5 27.9	27.7	68.4 63.0	65.7	4.6 4.2	4.4	4.3	6.7 8.0	9.3	7.4	
				Middle	10	27.8 27.7	27.8	8.0 8.0	8.0	28.4 28.8	28.6	62.2 59.3	60.8	4.2 4.0	4.1		8.7 9.4			9.1
				Bottom	19	27.5 27.6	27.6	8.0 8.0	8.0	30.1 29.4	29.8	57.7 58.3	58.0	3.9 3.9	3.9		12.1 10.5			11.3
WSD6	Fine	Rough	15:29	Surface	1	29.4 29.5	29.5	7.7 7.8	7.8	29.6 29.6	29.6	53.5 52.6	53.1	3.5 3.4	3.5	3.5	4.4 4.5	5.1	4.5	
				Middle	-	-	-	-	-	-	-	-	-	-	-		-			
				Bottom	5	28.2 28.1	28.2	7.8 7.8	7.8	30.0 30.0	30.0	46.2 45.3	45.8	3.1 3.0	3.1		5.4 5.7			5.6
WSD7	Fine	Rough	15:38	Surface	1	28.4 28.4	28.4	7.9 7.9	7.9	29.4 29.4	29.4	66.4 65.8	66.1	4.4 4.3	4.4	4.4	2.4 2.1	2.5	2.3	
				Middle	4.5	28.4 28.4	28.4	7.9 7.9	7.9	29.4 29.4	29.4	65.3 65.2	65.3	4.3 4.3	4.3		2.6 2.2			2.4
				Bottom	8	28.4 28.4	28.4	7.9 7.9	7.9	29.4 29.4	29.4	65.0 64.9	65.0	4.3 4.3	4.3		2.9 2.5			2.7
WSD9	Fine	Rough	13:30	Surface	1	27.9 27.9	27.9	7.9 7.9	7.9	31.7 31.7	31.7	60.4 60.5	60.5	4.0 4.0	4.0	4.0	2.1 1.7	3.0	1.9	
				Middle	4.5	27.7 27.2	27.5	7.9 7.9	7.9	32.2 33.0	32.6	60.5 60.3	60.4	4.0 4.0	4.0		2.3 2.4			2.4
				Bottom	8	26.7 26.7	26.7	8.0 8.0	8.0	34.0 34.0	34.0	59.7 59.4	59.6	4.0 3.9	4.0		4.9 4.6			4.8

Remarks: *DA: Depth-Averaged

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Water Quality Monitoring Results on 10 September 2017 (Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
B10	Fine	Moderate	08:50	Surface	1	28.2	28.2	8.0	8.0	23.5	23.7	70.8	69.6	4.8	4.8	4.8	3.5	3.6	4.8
						28.2		8.0		23.8		68.3		4.7			3.7		
				Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	
				Bottom	3	28.0	28.0	8.0	8.0	25.5	25.6	64.2	64.7	4.4	4.4	4.4	6.1	6.0	
						28.0		8.0		25.6		65.2		4.4		5.9			
B11	Fine	Moderate	08:59	Surface	-	-	-	-	-	-	-	-	-	-	4.7	-	-	4.2	
						28.2	28.2	8.0	8.0	23.8	23.8	68.5	68.5	4.7		4.7	4.1		4.2
				Middle	1	28.2		8.0		23.8		68.5		4.7			4.2		
				Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-		
						-		-		-		-		-	-	-			
B12	Fine	Moderate	09:20	Surface	1	28.3	28.3	8.0	8.0	23.6	23.6	69.4	69.2	4.7	4.7	4.7	3.8	3.9	5.2
						28.3		8.0		23.6		68.9		4.7			-	-	
				Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	
				Bottom	3	28.1	28.1	8.0	8.0	24.5	24.5	66.9	66.8	4.6	4.6	4.6	6.3	6.5	
						28.1		8.0		24.5		66.6		4.5		6.6			
B13	Fine	Moderate	09:30	Surface	1	28.2	28.2	8.0	8.0	24.2	24.2	70.5	69.9	4.8	4.8	4.6	2.9	3.0	6.8
						28.2		8.0		24.2		69.2		4.7			3.1	3.0	
				Middle	3.5	27.9	27.9	8.0	8.0	26.5	26.5	64.4	64.3	4.4	4.4		8.2	8.0	
				Bottom	6	27.7	27.7	8.0	8.0	27.8	27.8	61.0	61.1	4.1	4.1	4.1	9.5	9.4	
						27.7		8.0		27.8		61.1		4.1		9.2			
B14	Fine	Moderate	07:45	Surface	-	-	-	-	-	-	-	-	-	-	4.5	-	-	3.4	
						27.9	27.9	8.0	8.0	26.2	26.2	66.1	66.0	4.5		4.5	3.4		3.4
				Middle	0.9	27.9		8.0		26.2		65.9		4.5			3.4		
				Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-		
						-		-		-		-		-	-	-			
B24	Fine	Moderate	07:58	Surface	1	26.7	26.8	8.0	8.0	32.4	32.3	62.9	62.9	4.2	4.2	4.2	1.6	1.6	1.8
						26.8		8.0		32.2		62.8		4.2			1.6	1.6	
				Middle	4	26.6	26.6	8.0	8.0	32.7	32.7	61.8	61.7	4.1	4.1		1.8	1.8	
				Bottom	7	26.6		8.0		32.7		61.6		4.1		1.7			
						26.5	26.5	8.0	8.0	32.8	32.8	61.0	60.9	4.1	4.1	4.1	1.9	2.0	
						26.5		8.0		32.8		60.7		4.1		2.0			
B25	Fine	Moderate	08:14	Surface	1	26.8	26.8	8.0	8.0	32.3	32.3	58.9	60.2	3.9	4.0	4.0	1.6	1.6	1.7
						26.8		8.0		32.3		61.5		4.1			1.5	1.6	
				Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	
				Bottom	4	26.7	26.7	8.0	8.0	32.5	32.5	61.2	60.8	4.1	4.1	4.1	1.8	1.8	
						26.7		8.0		32.5		60.3		4.0		1.7			
B26	Fine	Moderate	09:04	Surface	1	27.0	27.0	8.0	8.0	31.9	31.9	66.9	66.6	4.5	4.5	4.4	1.1	1.2	2.0
						27.0		8.0		31.9		66.2		4.4			1.2	1.2	
				Middle	5.5	26.7	26.7	8.0	8.0	32.5	32.5	62.5	62.6	4.2	4.2		1.4	1.4	
				Bottom	10	26.7		8.0		32.5		62.6		4.2		1.4			
						26.1	26.1	8.1	8.1	33.6	33.8	62.3	62.9	4.2	4.3	4.3	3.1	3.4	
						26.0		8.1		33.9		63.5		4.3		3.7			

Remarks: *DA: Depth-Averaged
 **Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

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Water Quality Monitoring Results on 10 September 2017 (Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)	Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)				
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*		
B30	Fine	Moderate	09:33	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Middle	1.3	28.2	28.2	8.1	8.1	27.7	27.6	92.5	93.0	6.2	6.3	6.3	6.3	0.6	0.6	0.6
				Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B31	Fine	Moderate	09:22	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Middle	1.1	28.1	28.1	8.1	8.1	28.7	28.7	84.4	84.3	5.6	5.6	5.6	5.6	0.7	0.7	0.7
				Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B32	Fine	Moderate	09:46	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Middle	1.3	28.4	28.4	8.1	8.1	28.5	28.6	87.9	87.5	5.8	5.8	5.8	5.8	0.7	0.7	0.7
				Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B33	Fine	Moderate	09:52	Surface	1	28.3	28.4	8.1	8.1	28.5	28.4	84.8	85.1	5.6	5.7	5.7	5.5	0.4	0.4	
				Middle	4	27.9	27.9	8.0	8.0	29.8	29.9	78.8	77.9	5.2	5.2	5.2	5.5	0.6	0.7	2.7
				Bottom	7	27.6	27.7	8.0	8.0	30.8	30.6	68.6	68.1	4.6	4.6	4.6	4.6	7.3	7.0	7.0
B34	Fine	Moderate	10:07	Surface	1	28.4	28.4	8.1	8.1	28.2	28.2	87.5	87.8	5.8	5.9	5.9	5.8	0.5	0.5	
				Middle	3.5	28.4	28.4	8.0	8.1	28.5	28.5	84.4	84.9	5.6	5.7	5.7	5.8	0.6	0.6	0.6
				Bottom	6	27.9	27.9	8.1	8.1	29.9	29.9	79.6	79.8	5.3	5.3	5.3	5.3	0.6	0.6	0.6
B35	Fine	Moderate	10:20	Surface	1	28.8	28.8	8.1	8.1	28.2	28.2	91.5	91.1	6.1	6.1	6.1	5.8	0.3	0.3	
				Middle	4.5	27.9	27.9	8.1	8.1	29.9	29.9	82.2	81.6	5.5	5.5	5.5	5.8	0.5	0.5	0.6
				Bottom	8	27.7	27.7	8.0	8.0	30.7	30.7	74.2	74.4	4.9	5.0	5.0	5.0	1.0	1.0	1.0
B7	Fine	Moderate	08:16	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Middle	0.7	27.7	27.7	8.1	8.1	28.1	28.2	62.5	62.5	4.2	4.2	4.2	4.2	9.3	9.5	9.5
				Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B8	Fine	Moderate	08:26	Surface	1	27.6	27.6	8.1	8.1	28.8	28.7	62.4	62.8	4.2	4.2	4.2	4.2	5.4	5.3	
				Middle	7.5	27.5	27.6	8.1	8.1	29.4	29.3	61.1	61.4	4.1	4.1	4.1	4.2	6.1	5.9	6.0
				Bottom	14	27.5	27.5	8.1	8.1	29.8	29.7	60.3	60.6	4.0	4.1	4.1	4.1	7.2	6.7	6.7

Remarks: *DA: Depth-Averaged
 **Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 10 September 2017 (Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
B9	Fine	Moderate	08:39	Surface	1	28.2	28.2	8.0	8.0	23.7	23.7	69.3	68.8	4.7	4.7	4.7	3.6	3.7	4.5
						28.2	28.2	8.0	8.0	23.7	23.7	68.3	68.3	4.7	4.7		-	-	
				Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Bottom	4	27.6	27.7	8.0	8.0	28.6	28.6	62.5	63.2	4.2	4.3	4.3	5.4	5.3	
						27.7	27.7	8.0	8.0	28.6	28.6	63.8	63.2	4.3	4.3	4.3	5.1	5.3	
EM1	Fine	Moderate	09:36	Surface	1	27.4	27.4	8.1	8.1	32.8	32.9	64.0	63.7	4.2	4.2	4.2	1.4	1.4	4.7
						27.3	27.4	8.0	8.1	33.0	32.9	63.4	63.7	4.2	4.2		1.3	1.4	
				Middle	10	26.7	26.7	8.1	8.1	34.6	34.6	62.9	62.7	4.2	4.2	1.7	1.8		
						26.7	26.7	8.1	8.1	34.5	34.6	62.5	62.7	4.1	4.2	1.8	1.8		
				Bottom	19	26.1	26.1	8.2	8.2	36.1	36.1	63.7	63.7	4.2	4.2	4.2	11.0	11.0	
						26.1	26.1	8.1	8.2	36.0	36.1	63.6	63.7	4.2	4.2	4.2	10.9	11.0	
EM2	Fine	Moderate	09:21	Surface	1	27.1	27.1	8.1	8.1	33.7	33.9	66.6	66.6	4.4	4.4	4.4	1.4	1.4	2.7
						27.0	27.1	8.1	8.1	34.0	33.9	66.5	66.6	4.4	4.4		1.4	1.4	
				Middle	10.5	26.6	26.6	8.1	8.1	34.9	34.9	64.4	64.2	4.3	4.3	1.6	1.6		
						26.6	26.6	8.1	8.1	34.9	34.9	63.9	64.2	4.2	4.3	1.6	1.6		
				Bottom	20	26.0	26.0	8.2	8.2	36.1	36.1	65.5	65.5	4.3	4.3	4.3	5.2	5.0	
						26.0	26.0	8.2	8.2	36.1	36.1	65.5	65.5	4.3	4.3	4.3	4.7	5.0	
EM3	Fine	Moderate	08:38	Surface	1	27.0	27.0	8.0	8.0	31.4	31.5	60.4	60.6	4.0	4.1	4.3	1.8	1.8	3.6
						26.9	27.0	8.0	8.0	31.6	31.5	60.8	60.6	4.1	4.1		1.8	1.8	
				Middle	12	26.1	26.1	8.1	8.1	33.7	33.7	65.1	65.2	4.4	4.4	2.3	2.3		
						26.1	26.1	8.1	8.1	33.7	33.7	65.2	65.2	4.4	4.4	2.2	2.3		
				Bottom	23	25.7	25.7	8.1	8.1	34.0	34.0	69.9	70.0	4.7	4.7	4.7	7.2	6.7	
						25.7	25.7	8.1	8.1	34.0	34.0	70.0	70.0	4.7	4.7	4.7	6.2	6.7	
F1	Fine	Moderate	07:39	Surface	1	27.0	27.0	7.9	8.0	31.2	31.2	60.9	61.3	4.1	4.1	4.3	2.1	2.1	3.2
						27.0	27.0	8.0	8.0	31.1	31.2	61.7	61.3	4.1	4.1		2.1	2.1	
				Middle	5	26.9	26.9	8.0	8.0	32.3	32.3	67.4	67.1	4.5	4.5	1.8	1.9		
						26.9	26.9	8.0	8.0	32.3	32.3	66.8	67.1	4.5	4.5	2.0	1.9		
				Bottom	9	26.2	26.2	8.0	8.0	33.6	33.6	63.0	63.4	4.2	4.3	4.3	5.5	5.5	
						26.2	26.2	8.0	8.0	33.6	33.6	63.8	63.4	4.3	4.3	4.3	5.5	5.5	
F4	Fine	Moderate	08:07	Surface	1	27.7	27.8	8.0	8.0	28.1	28.1	70.5	69.8	4.7	4.7	4.7	2.5	2.5	6.2
						27.8	27.8	8.0	8.0	28.0	28.1	69.1	69.8	4.6	4.6		2.5	2.5	
				Middle	5.5	27.7	27.7	8.0	8.0	28.7	28.7	69.2	68.8	4.6	4.6	2.7	2.8		
						27.7	27.7	8.0	8.0	28.7	28.7	68.4	68.8	4.6	4.6	2.9	2.8		
				Bottom	10	27.5	27.5	8.0	8.0	31.4	31.5	64.7	64.2	4.3	4.3	4.3	12.8	13.3	
						27.4	27.5	8.0	8.0	31.6	31.5	63.7	64.2	4.2	4.3	4.3	13.7	13.3	
F5	Fine	Moderate	08:01	Surface	1	28.4	28.4	8.0	8.0	21.6	21.9	70.4	69.3	4.9	4.8	4.7	5.7	5.9	6.6
						28.3	28.4	8.0	8.0	22.1	21.9	68.1	69.3	4.7	4.8		6.1	6.1	
				Middle	3.5	28.2	28.2	8.0	8.0	23.9	23.8	66.2	65.9	4.5	4.5	6.6	6.4		
						28.2	28.2	8.0	8.0	23.7	23.8	65.5	65.9	4.5	4.5	6.2	6.4		
				Bottom	6	28.0	28.0	8.0	8.0	25.8	25.9	63.5	63.4	4.3	4.3	4.3	7.6	7.4	
						27.9	28.0	8.0	8.0	26.0	25.9	63.3	63.4	4.3	4.3	4.3	7.1	7.4	
JM3	Fine	Moderate	09:52	Surface	1	27.0	27.0	8.2	8.2	33.9	33.9	62.3	62.2	4.1	4.1	4.1	1.7	1.8	4.9
						27.0	27.0	8.1	8.2	33.9	33.9	62.1	62.2	4.1	4.1		1.8	1.8	
				Middle	6	26.8	26.8	8.2	8.2	34.4	34.4	61.3	61.3	4.1	4.1	3.7	3.4		
						26.8	26.8	8.1	8.2	34.3	34.4	61.3	61.3	4.1	4.1	3.0	3.4		
				Bottom	11	26.3	26.4	8.2	8.2	35.6	35.5	61.7	61.3	4.1	4.1	4.1	9.6	9.4	
						26.4	26.4	8.1	8.2	35.4	35.5	60.9	61.3	4.0	4.1	4.1	9.1	9.4	

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

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Water Quality Monitoring Results on 10 September 2017 (Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
MM13	Fine	Moderate	10:01	Surface	1	28.7 28.8	28.8	8.3 8.3	8.3	25.9 25.5	25.7	121.9 119.2	120.6	8.2 8.0	8.1	6.6	0.3 0.3	0.3	1.5
				Middle	14	27.5 27.2	27.4	8.1 8.2	8.2	33.6 33.6	33.6	74.6 77.8	76.2	4.9 5.1	5.0		0.5 0.5	0.5	
				Bottom	27	25.9 25.9	25.9	8.2 8.2	8.2	34.0 34.0	34.0	86.0 85.8	85.9	5.8 5.8	5.8		3.6 3.7	3.7	
SM12	Fine	Moderate	09:42	Surface	1	28.4 28.4	28.4	8.1 8.1	8.1	26.1 26.3	26.2	87.0 86.2	86.6	5.9 5.8	5.9	5.7	0.4 0.4	0.4	2.7
				Middle	4.5	28.3 28.3	28.3	8.1 8.1	8.1	27.2 27.2	27.2	81.3 81.1	81.2	5.4 5.4	5.4		1.2 1.0	1.1	
				Bottom	8	27.9 27.9	27.9	8.0 8.0	8.0	28.8 28.7	28.8	65.3 64.8	65.1	4.4 4.3	4.4		6.5 6.4	6.5	
SM17	Fine	Moderate	09:03	Surface	1	28.3 28.3	28.3	8.1 8.1	8.1	24.6 24.6	24.6	83.1 83.1	83.1	5.6 5.7	5.7	5.3	1.9 1.8	1.9	6.0
				Middle	8.5	27.9 27.9	27.9	8.1 8.1	8.1	29.6 29.8	29.7	72.5 71.8	72.2	4.8 4.8	4.8		0.4 0.4	0.4	
				Bottom	16	27.5 27.5	27.5	8.2 8.2	8.2	34.0 34.0	34.0	60.2 60.1	60.2	3.9 3.9	3.9		15.7 15.6	15.7	
SM2	Fine	Moderate	09:02	Surface	1	28.2 28.2	28.2	8.1 8.1	8.1	28.0 28.0	28.0	86.2 85.3	85.8	5.8 5.7	5.8	5.3	0.8 0.7	0.8	5.0
				Middle	7	27.6 27.7	27.7	8.0 8.0	8.0	30.1 30.1	30.1	72.3 71.6	72.0	4.8 4.8	4.8		1.7 1.8	1.8	
				Bottom	13	27.0 27.0	27.0	8.1 8.1	8.1	33.8 33.9	33.9	62.2 62.4	62.3	4.1 4.1	4.1		12.0 12.6	12.3	
SM3	Fine	Moderate	08:33	Surface	1	28.1 28.0	28.1	8.0 8.0	8.0	27.8 28.3	28.1	84.3 79.4	81.9	5.7 5.3	5.5	4.9	0.9 1.0	1.0	3.1
				Middle	16	27.3 27.2	27.3	8.0 8.1	8.1	32.4 33.0	32.7	66.1 62.8	64.5	4.4 4.1	4.3		3.2 3.3	3.3	
				Bottom	31	27.3 27.2	27.3	8.1 8.1	8.1	32.7 33.2	33.0	63.6 61.8	62.7	4.2 4.1	4.2		5.3 4.9	5.1	
SM6	Fine	Moderate	08:21	Surface	1	28.2 28.3	28.3	8.0 8.1	8.1	27.2 27.2	27.2	81.6 81.7	81.7	5.5 5.5	5.5	4.6	0.3 0.3	0.3	6.2
				Middle	7.5	27.3 27.3	27.3	8.0 8.0	8.0	31.3 31.0	31.2	55.5 55.9	55.7	3.7 3.7	3.7		4.7 5.3	5.0	
				Bottom	14	27.4 27.4	27.4	8.1 8.1	8.1	33.8 33.8	33.8	55.8 55.4	55.6	3.7 3.6	3.7		14.0 12.7	13.4	
VM1	Fine	Moderate	08:38	Surface	1	27.0 27.0	27.0	8.0 8.0	8.0	33.7 33.7	33.7	62.0 61.7	61.9	4.1 4.1	4.1	4.1	2.1 1.9	2.0	5.9
				Middle	21	26.7 26.6	26.7	8.0 8.1	8.1	34.5 34.7	34.6	60.8 60.4	60.6	4.0 4.0	4.0		7.6 7.3	7.5	
				Bottom	31	26.5 26.4	26.5	8.1 8.1	8.1	35.0 35.2	35.1	60.1 60.2	60.2	4.0 4.0	4.0		8.1 8.0	8.1	
VM12	Fine	Moderate	10:25	Surface	1	27.9 27.9	27.9	8.0 8.0	8.0	28.2 28.4	28.3	66.4 63.7	65.1	4.5 4.3	4.4	4.2	2.8 3.1	3.0	8.2
				Middle	10	27.6 27.6	27.6	8.0 8.0	8.0	29.7 29.6	29.7	57.8 57.5	57.7	3.9 3.8	3.9		6.6 6.2	6.4	
				Bottom	19	27.3 27.3	27.3	8.1 8.0	8.1	31.6 31.4	31.5	55.3 55.3	55.3	3.7 3.7	3.7		15.5 14.6	15.1	

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

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Water Quality Monitoring Results on 10 September 2017 (Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	
VM14	Fine	Moderate	10:02	Surface	1	28.2 28.1	28.2	8.0 8.0	8.0	25.1 25.0	25.1	70.6 68.3	69.5	4.8 4.6	4.7	4.5	3.0 3.0	5.0	3.0	
				Middle	7	27.8 27.8	27.8	8.0 8.0	8.0	27.8 28.1	28.0	63.9 63.3	63.6	4.3 4.3	4.3		4.8 5.1			5.0
				Bottom	13	27.6 27.6	27.6	8.0 8.0	8.0	29.6 29.6	29.6	59.7 59.9	59.8	4.0 4.0	4.0		7.2 7.0			7.1
VM15	Fine	Moderate	09:23	Surface	1	27.7 27.7	27.7	7.9 7.9	7.9	29.3 29.2	29.3	64.8 63.0	63.9	4.3 4.2	4.3	4.2	1.8 1.6	3.8	1.7	
				Middle	6	27.6 27.6	27.6	7.9 7.9	7.9	30.0 29.9	30.0	59.9 59.0	59.5	4.0 3.9	4.0		3.5 3.5			3.5
				Bottom	11	27.6 27.6	27.6	7.9 7.9	7.9	30.4 30.4	30.4	57.0 56.5	56.8	3.8 3.8	3.8		6.2 6.3			6.3
VM2	Fine	Moderate	08:01	Surface	1	27.5 27.5	27.5	8.0 8.0	8.0	31.2 31.1	31.2	60.4 60.3	60.4	4.0 4.0	4.0	4.0	1.9 1.8	4.9	1.9	
				Middle	7	27.0 27.3	27.2	8.0 8.0	8.0	33.4 32.2	32.8	58.8 59.2	59.0	3.9 3.9	3.9		2.7 2.7			2.7
				Bottom	13	26.6 26.6	26.6	8.1 8.1	8.1	34.9 34.9	34.9	59.4 59.2	59.3	3.9 3.9	3.9		10.0 10.2			10.1
VM4	Fine	Moderate	07:43	Surface	1	27.5 27.5	27.5	7.9 7.9	7.9	30.4 30.4	30.4	63.7 61.7	62.7	4.3 4.1	4.2	4.1	2.0 2.0	2.4	2.0	
				Middle	7	27.4 27.4	27.4	7.9 7.9	7.9	31.1 30.9	31.0	60.4 60.2	60.3	4.0 4.0	4.0		2.1 2.0			2.1
				Bottom	13	27.3 27.4	27.4	7.9 7.9	7.9	31.7 31.4	31.6	58.8 59.3	59.1	3.9 3.9	3.9		3.1 3.1			3.1
VM5	Fine	Moderate	08:01	Surface	1	27.6 27.6	27.6	7.9 7.9	7.9	29.6 29.6	29.6	60.1 59.5	59.8	4.0 4.0	4.0	4.0	2.2 2.2	3.8	2.2	
				Middle	6.5	27.4 27.5	27.5	7.9 7.9	7.9	31.2 30.9	31.1	58.8 58.3	58.6	3.9 3.9	3.9		2.1 2.1			2.1
				Bottom	12	27.2 27.3	27.3	7.9 7.9	7.9	31.9 31.9	31.9	57.6 57.5	57.6	3.8 3.8	3.8		7.5 6.5			7.0
VM7	Fine	Moderate	08:34	Surface	1	27.6 27.6	27.6	7.9 7.9	7.9	30.2 30.0	30.1	61.9 60.5	61.2	4.1 4.0	4.1	4.0	1.9 1.9	5.1	1.9	
				Middle	6.5	27.5 27.5	27.5	7.9 7.9	7.9	31.0 31.0	31.0	57.7 57.1	57.4	3.8 3.8	3.8		4.7 4.5			4.6
				Bottom	12	27.5 27.5	27.5	7.9 7.9	7.9	31.1 31.0	31.1	56.6 56.5	56.6	3.8 3.8	3.8		8.7 8.8			8.8
VM8	Fine	Moderate	08:53	Surface	1	27.6 27.6	27.6	7.9 7.9	7.9	29.1 29.0	29.1	67.9 67.1	67.5	4.6 4.5	4.6	4.5	2.5 2.5	12.8	2.5	
				Middle	6	27.5 27.5	27.5	8.0 8.0	8.0	30.2 30.2	30.2	66.0 65.7	65.9	4.4 4.4	4.4		3.5 3.5			3.5
				Bottom	11	27.2 27.2	27.2	8.0 8.0	8.0	33.5 33.6	33.6	61.5 61.3	61.4	4.1 4.0	4.1		32.7 32.1			32.4
WM1	Fine	Moderate	07:50	Surface	1	27.7 27.7	27.7	7.9 8.0	8.0	28.2 28.1	28.2	68.6 67.1	67.9	4.6 4.5	4.6	4.6	2.6 2.5	5.5	2.6	
				Middle	15.5	27.7 27.7	27.7	8.0 8.0	8.0	29.3 29.5	29.4	69.8 66.3	68.1	4.7 4.4	4.6		3.1 2.9			3.0
				Bottom	30	27.1 27.1	27.1	8.1 8.1	8.1	34.0 34.0	34.0	60.2 60.1	60.2	4.0 4.0	4.0		10.8 10.8			10.8

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 10 September 2017 (Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
WM2	Fine	Moderate	09:05	Surface	1	27.9 28.0	28.0	7.9 7.9	7.9	27.2 26.6	26.9	66.5 66.7	66.6	4.5 4.5	4.5	4.4	3.7 3.1	3.4	8.9
				Middle	7.5	27.6 27.6	27.6	7.9 7.9	7.9	29.5 29.5	29.5	64.0 63.9	64.0	4.3 4.3	4.3		3.5 3.2	3.4	
				Bottom	14	27.4 27.4	27.4	8.0 8.0	8.0	32.6 32.7	32.7	62.3 62.2	62.3	4.1 4.1	4.1		19.3 20.2	19.8	
WM4	Fine	Moderate	07:30	Surface	1	27.9 27.9	27.9	8.0 8.0	8.0	25.7 25.7	25.7	65.2 65.1	65.2	4.4 4.4	4.4	4.4	4.0 3.9	4.0	6.5
				Middle	15	27.7 27.8	27.8	8.0 8.0	8.0	28.2 28.1	28.2	62.9 63.7	63.3	4.2 4.3	4.3		4.8 4.7	4.8	
				Bottom	29	27.5 27.6	27.6	8.1 8.0	8.1	29.4 29.0	29.2	59.7 60.9	60.3	4.0 4.1	4.1		11.8 9.5	10.7	
WSD10	Fine	Moderate	07:45	Surface	1	27.5 27.4	27.5	8.0 8.0	8.0	31.1 31.3	31.2	62.9 60.3	61.6	4.2 4.0	4.1	4.0	2.0 2.0	2.0	4.8
				Middle	5.5	27.3 27.3	27.3	8.0 8.0	8.0	32.4 32.4	32.4	58.2 57.6	57.9	3.9 3.8	3.9		3.1 3.3	3.2	
				Bottom	10	26.7 26.7	26.7	8.1 8.1	8.1	34.6 34.6	34.6	58.4 58.2	58.3	3.9 3.8	3.9		9.3 9.3	9.3	
WSD11	Fine	Moderate	07:31	Surface	1	27.4 27.3	27.4	8.0 8.0	8.0	31.7 31.8	31.8	59.3 58.0	58.7	3.9 3.9	3.9	3.9	2.0 2.4	2.2	3.3
				Middle	8	27.2 27.2	27.2	8.0 8.0	8.0	32.4 32.5	32.5	57.5 57.2	57.4	3.8 3.8	3.8		2.1 2.2	2.2	
				Bottom	15	26.7 26.7	26.7	8.1 8.1	8.1	34.5 34.5	34.5	58.8 58.4	58.6	3.9 3.9	3.9		5.5 5.4	5.5	
WSD12	Fine	Moderate	10:04	Surface	1	27.3 27.3	27.3	8.1 8.1	8.1	33.6 33.5	33.6	63.8 62.3	63.1	4.2 4.1	4.2	4.2	1.1 1.1	1.1	3.8
				Middle	3.5	27.0 27.1	27.1	8.1 8.1	8.1	34.0 33.9	34.0	61.7 61.9	61.8	4.1 4.1	4.1		2.5 2.7	2.6	
				Bottom	6	26.7 26.8	26.8	8.1 8.0	8.1	34.7 34.4	34.6	54.0 54.1	54.1	3.6 3.6	3.6		7.9 7.6	7.8	
WSD13	Fine	Moderate	09:05	Surface	1	27.0 27.0	27.0	8.1 8.1	8.1	33.4 33.4	33.4	63.2 63.2	63.2	4.2 4.2	4.2	4.2	1.4 1.5	1.5	2.5
				Middle	6	26.9 26.9	26.9	8.1 8.1	8.1	33.8 34.0	33.9	64.1 63.0	63.6	4.2 4.2	4.2		2.7 2.3	2.5	
				Bottom	11	26.8 26.8	26.8	8.1 8.1	8.1	34.1 34.2	34.2	63.0 62.7	62.9	4.2 4.1	4.2		3.8 3.4	3.6	
WSD15	Fine	Moderate	08:27	Surface	1	27.0 27.2	27.1	8.0 8.0	8.0	33.2 32.6	32.9	60.2 58.1	59.2	4.0 3.8	3.9	3.9	2.3 2.0	2.2	5.8
				Middle	8.5	26.8 26.7	26.8	8.0 8.0	8.0	34.1 34.4	34.3	57.6 58.2	57.9	3.8 3.8	3.8		4.6 4.9	4.8	
				Bottom	16	26.5 26.5	26.5	8.1 8.1	8.1	35.2 35.2	35.2	59.3 59.2	59.3	3.9 3.9	3.9		10.2 10.5	10.4	

Remarks: *DA: Depth-Averaged

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DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 10 September 2017 (Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
WSD17	Fine	Moderate	08:11	Surface	1	27.5 27.5	27.5	8.0 8.0	8.0	30.3 30.9	30.6	64.1 61.7	62.9	4.3 4.1	4.2	4.2	1.9 1.8	1.9	4.0
				Middle	5.5	27.5 27.5	27.5	8.0 8.0	8.0	31.3 31.4	31.4	61.7 61.5	61.6	4.1 4.1	4.1		1.8 1.7	1.8	
				Bottom	10	27.2 27.3	27.3	8.0 8.0	8.0	32.5 32.1	32.3	59.4 60.2	59.8	3.9 4.0	4.0		8.7 8.1	8.4	
WSD18	Fine	Moderate	08:15	Surface	1	27.6 27.6	27.6	7.9 7.9	7.9	30.1 29.9	30.0	59.6 58.3	59.0	4.0 3.9	4.0	3.9	4.4 4.1	4.3	6.9
				Middle	6.5	27.5 27.6	27.6	7.9 7.9	7.9	30.9 30.5	30.7	56.6 56.7	56.7	3.8 3.8	3.8		7.2 7.7	7.5	
				Bottom	12	27.4 27.5	27.5	7.9 7.9	7.9	31.2 31.2	31.2	55.9 55.6	55.8	3.7 3.7	3.7		8.9 8.9	8.9	
WSD19	Fine	Moderate	08:22	Surface	1	27.6 27.6	27.6	7.9 7.9	7.9	30.0 29.9	30.0	62.6 62.1	62.4	4.2 4.1	4.2	4.0	3.0 2.8	2.9	6.8
				Middle	6.5	27.5 27.5	27.5	7.9 7.9	7.9	31.1 30.8	31.0	57.1 57.5	57.3	3.8 3.8	3.8		6.9 6.6	6.8	
				Bottom	12	27.3 27.3	27.3	7.9 7.9	7.9	31.7 31.8	31.8	56.7 56.5	56.6	3.8 3.8	3.8		10.6 10.7	10.7	
WSD20	Fine	Moderate	08:44	Surface	1	27.7 27.6	27.7	7.9 7.9	7.9	29.1 29.2	29.2	68.1 66.2	67.2	4.6 4.4	4.5	4.5	3.7 3.8	3.8	5.0
				Middle	5.5	27.6 27.6	27.6	7.9 7.9	7.9	29.4 29.4	29.4	66.7 66.1	66.4	4.5 4.4	4.5		4.0 3.9	4.0	
				Bottom	10	27.5 27.5	27.5	8.0 8.0	8.0	30.7 30.8	30.8	65.2 65.2	65.2	4.3 4.3	4.3		7.3 7.2	7.3	
WSD21	Fine	Moderate	08:23	Surface	1	27.9 27.8	27.9	8.0 8.0	8.0	28.5 28.6	28.6	79.0 75.9	77.5	5.3 5.1	5.2	5.0	1.8 1.6	1.7	2.9
				Middle	3.5	27.6 27.6	27.6	8.0 8.0	8.0	29.6 29.6	29.6	70.4 70.1	70.3	4.7 4.7	4.7		2.6 2.4	2.5	
				Bottom	6	26.5 26.6	26.6	8.0 8.0	8.0	31.0 31.1	31.1	63.3 57.0	60.2	4.2 3.8	4.0		4.6 4.6	4.6	
WSD22	Fine	Moderate	07:56	Surface	1	27.6 27.6	27.6	7.9 7.9	7.9	29.6 29.6	29.6	59.3 58.3	58.8	4.0 3.9	4.0	4.0	1.9 2.0	2.0	3.7
				Middle	4.5	27.5 27.5	27.5	7.9 7.9	7.9	30.5 30.8	30.7	58.3 58.3	58.3	3.9 3.9	3.9		2.8 2.8	2.8	
				Bottom	8	27.4 27.4	27.4	7.9 7.9	7.9	31.3 31.3	31.3	57.9 57.7	57.8	3.9 3.8	3.9		6.4 6.1	6.3	

Remarks: *DA: Depth-Averaged

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DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 10 September 2017 (Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
WSD4	Fine	Moderate	09:52	Surface	1	27.9	27.9	8.1	8.1	26.2	26.2	66.1	65.3	4.5	4.5	4.4	4.9	5.1	7.4
						27.9		8.0		26.2		64.5		4.4			5.2		
				Middle	4.5	27.8	27.8	8.0	8.0	27.2	27.2	62.8	62.6	4.2	4.2		7.4	7.2	
		27.8		8.0		27.1		62.3		4.2		4.2	6.9						
		27.7	27.7	8.0	8.0	28.1	28.3	61.1	60.4	4.1	4.1	4.1	9.1	10.0					
		27.7		8.0		28.5		59.7		4.0		4.1	10.8						
WSD5	Fine	Moderate	10:13	Surface	1	27.8	27.8	8.0	8.0	28.6	28.7	68.0	65.2	4.6	4.4	4.3	5.3	4.9	7.1
						27.7		8.0		28.7		62.4		4.2			4.5		
				Middle	10	27.7	27.7	8.0	8.0	28.9	28.9	61.6	61.6	4.1	4.1		6.0	5.9	
		27.7		8.0		28.9		61.6		4.1		4.1	5.8						
		27.5	27.5	8.0	8.0	30.3	30.4	58.5	58.5	3.9	3.9	3.9	10.8	10.5					
		27.5		8.0		30.4		58.4		3.9		3.9	10.1						
WSD6	Fine	Moderate	09:34	Surface	1	28.3	28.2	7.8	7.8	29.3	29.3	55.0	54.5	3.6	3.6	3.8	1.5	1.5	1.6
						28.1		7.8		29.3		54.0		3.6			1.5		
				Middle	3	27.7	27.8	7.8	7.9	29.3	29.3	58.8	58.8	3.9	3.9		1.7	1.7	
		27.8		7.9		29.3		58.7		3.9		3.9	1.6						
		27.7	27.7	7.8	7.8	29.4	29.4	55.5	56.1	3.7	3.8	3.8	1.4	1.5					
		27.7		7.8		29.4		56.7		3.8		3.8	1.5						
WSD7	Fine	Moderate	09:44	Surface	1	27.7	27.7	7.8	7.8	29.8	29.8	53.9	53.3	3.6	3.6	3.7	3.4	3.3	5.9
						27.7		7.8		29.7		52.7		3.5			3.2		
				Middle	4.5	27.6	27.6	7.9	7.9	30.2	30.2	54.8	54.5	3.7	3.7		5.5	5.7	
		27.6		7.9		30.2		54.1		3.6		3.7	5.9						
		27.5	27.5	7.9	7.9	30.8	30.9	55.3	55.1	3.7	3.7	3.7	8.5	8.7					
		27.5		7.9		30.9		54.9		3.7		3.7	8.8						
WSD9	Fine	Moderate	07:34	Surface	1	27.4	27.4	7.8	7.9	31.1	31.1	59.9	59.3	4.0	4.0	4.0	2.3	2.5	3.6
						27.4		7.9		31.1		58.6		3.9			2.6		
				Middle	4.5	27.4	27.4	7.9	7.9	31.1	31.2	58.7	58.3	3.9	3.9		2.8	2.9	
		27.4		7.9		31.2		57.8		3.8		3.8	3.0						
		27.4	27.4	7.9	7.9	31.2	31.2	56.8	56.8	3.8	3.8	3.8	5.3	5.3					
		27.4		7.9		31.2		56.8		3.8		3.8	5.3						

Remarks: *DA: Depth-Averaged

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Water Quality Monitoring Results on 8 October 2017 (Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	
B10	Cloudy	Moderate	13:39	Surface	1	29.6 29.6	29.6	8.2 8.2	8.2	30.3 30.4	30.4	75.5 73.9	74.7	4.9 4.8	4.9	4.9	5.0 5.1	5.1	5.3	
				Middle	-	-	-	-	-	-	-	-	-	-	-		-			-
				Bottom	4.8	29.5 29.5	29.5	8.2 8.2	8.2	30.6 30.6	30.6	73.7 73.1	73.4	4.8 4.7	4.8		4.8			5.4 5.5
B11	Cloudy	Moderate	13:45	Surface	-	-	-	-	-	-	-	-	-	-	-	4.7	-	-	5.8	
				Middle	1.4	29.5 29.5	29.5	8.2 8.2	8.2	30.3 30.4	30.4	73.0 73.1	73.1	4.7 4.7	4.7		5.7 5.9			5.8
				Bottom	-	-	-	-	-	-	-	-	-	-	-		-			-
B12	Cloudy	Moderate	13:49	Surface	1	29.7 29.7	29.7	8.2 8.2	8.2	29.2 29.3	29.3	77.5 74.6	76.1	5.0 4.8	4.9	4.9	5.3 5.4	5.4	6.2	
				Middle	-	-	-	-	-	-	-	-	-	-	-		-			-
				Bottom	3	29.5 29.5	29.5	8.2 8.2	8.2	30.3 30.2	30.3	71.9 72.0	72.0	4.6 4.6	4.6		4.6			7.0 7.0
B13	Cloudy	Moderate	13:54	Surface	1	30.1 30.1	30.1	8.2 8.2	8.2	28.7 28.7	28.7	82.3 80.7	81.5	5.3 5.2	5.3	5.1	5.6 5.5	5.6	6.3	
				Middle	4	29.6 29.6	29.6	8.2 8.2	8.2	30.0 30.0	30.0	74.6 74.7	74.7	4.8 4.8	4.8		6.5 6.3			6.4
				Bottom	7	29.5 29.5	29.5	8.2 8.2	8.2	30.3 30.3	30.3	72.9 72.8	72.9	4.7 4.7	4.7		4.7			7.0 6.9
B14	Cloudy	Moderate	13:03	Surface	-	-	-	-	-	-	-	-	-	-	-	5.1	-	-	5.0	
				Middle	1	29.9 29.8	29.9	8.2 8.2	8.2	30.6 30.6	30.6	79.6 79.2	79.4	5.1 5.1	5.1		4.9 5.1			5.0
				Bottom	-	-	-	-	-	-	-	-	-	-	-		-			-
B24	Cloudy	Moderate	14:58	Surface	1	29.7 29.7	29.7	8.3 8.3	8.3	32.1 32.0	32.1	96.9 97.3	97.1	6.2 6.2	6.2	6.2	0.5 0.5	0.5	0.9	
				Middle	3.5	29.7 29.7	29.7	8.3 8.3	8.3	32.1 32.1	32.1	95.3 96.4	95.9	6.1 6.1	6.1		1.0 0.9			1.0
				Bottom	6	29.7 29.7	29.7	8.3 8.3	8.3	32.2 32.2	32.2	93.9 93.9	93.9	6.0 6.0	6.0		6.0			1.3 1.3
B25	Cloudy	Moderate	14:49	Surface	1	29.7 29.7	29.7	8.3 8.3	8.3	32.0 32.0	32.0	99.8 99.2	99.5	6.4 6.3	6.4	6.4	0.1 0.1	0.1	0.3	
				Middle	-	-	-	-	-	-	-	-	-	-	-		-			-
				Bottom	4.5	29.6 29.7	29.7	8.3 8.3	8.3	32.0 32.0	32.0	99.6 99.4	99.5	6.4 6.3	6.4		6.4			0.5 0.5
B26	Cloudy	Moderate	14:26	Surface	1	29.7 29.7	29.7	8.3 8.3	8.3	32.2 32.2	32.2	98.7 99.2	99.0	6.3 6.3	6.3	6.4	0.4 0.5	0.5	0.9	
				Middle	5	29.7 29.7	29.7	8.3 8.3	8.3	32.2 32.2	32.2	100.3 99.5	99.9	6.4 6.3	6.4		0.8 0.9			0.9
				Bottom	9	29.4 29.4	29.4	8.3 8.3	8.3	32.3 32.3	32.3	94.6 96.4	95.5	6.0 6.2	6.1		6.1			1.5 1.3

Remarks: *DA: Depth-Averaged

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Water Quality Monitoring Results on 8 October 2017 (Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)	Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	
B30	Cloudy	Moderate	13:00	Surface	-	-	-	-	-	-	-	-	-	-	-	5.8	-	-	5.2
				Middle	1	29.5	29.5	8.3	8.3	33.1	33.1	91.6	90.5	5.8	5.8	-	5.1	5.2	
				Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B31	Cloudy	Moderate	12:50	Surface	-	-	-	-	-	-	-	-	-	-	-	5.8	-	-	4.5
				Middle	1.4	29.4	29.4	8.3	8.3	33.2	33.2	90.6	90.7	5.8	5.8	-	4.7	4.5	
				Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B32	Cloudy	Moderate	13:06	Surface	-	-	-	-	-	-	-	-	-	-	-	5.8	-	-	2.7
				Middle	1.3	29.6	29.6	8.3	8.3	33.0	33.0	91.5	90.9	5.8	5.8	-	2.6	2.7	
				Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B33	Cloudy	Moderate	13:10	Surface	1	29.6	29.6	8.3	8.3	33.0	33.0	90.6	90.7	5.8	5.8	5.7	2.8	2.8	3.4
				Middle	3.5	29.4	29.4	8.3	8.3	33.1	33.1	87.7	87.4	5.6	5.6	-	3.6	3.7	
				Bottom	6	29.3	29.3	8.3	8.3	33.1	33.1	86.6	86.4	5.5	5.5	5.5	3.7	3.7	
B34	Cloudy	Moderate	13:17	Surface	1	29.5	29.6	8.3	8.3	33.0	33.0	86.3	86.2	5.5	5.5	5.5	4.2	4.1	4.8
				Middle	3	29.3	29.3	8.3	8.3	33.0	33.0	84.7	84.1	5.4	5.4	-	5.1	5.1	
				Bottom	5	29.3	29.3	8.3	8.3	33.1	33.1	82.8	82.6	5.3	5.3	5.3	5.1	5.2	
B35	Cloudy	Moderate	13:27	Surface	1	29.5	29.7	8.3	8.3	33.0	33.0	89.0	88.5	5.7	5.7	5.7	3.3	3.4	3.9
				Middle	4.5	29.3	29.3	8.3	8.3	33.0	33.0	88.0	88.0	5.6	5.6	-	3.5	3.4	
				Bottom	8	29.4	29.4	8.3	8.3	33.2	33.1	87.1	86.7	5.5	5.5	5.5	4.6	4.9	
B7	Cloudy	Moderate	13:22	Surface	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	6.7
				Middle	1.1	29.7	29.7	8.2	8.2	30.0	30.0	77.3	77.1	5.0	5.0	-	6.4	6.7	
				Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B8	Cloudy	Moderate	13:28	Surface	1	29.7	29.7	8.2	8.2	30.3	30.3	77.9	75.6	5.0	5.0	4.9	8.1	8.1	9.4
				Middle	6	29.6	29.6	8.2	8.2	30.6	30.6	74.4	73.7	4.8	4.8	-	9.2	9.2	
				Bottom	11	29.5	29.5	8.2	8.2	30.8	30.8	71.8	71.8	4.6	4.6	4.6	11.1	11.0	

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 8 October 2017 (Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	
B9	Cloudy	Moderate	13:34	Surface	1	29.7 29.7	29.7	8.2 8.2	8.2	29.6 29.6	29.6	78.9 76.8	77.9	5.1 5.0	5.1	5.1	7.0 7.0	7.0	7.3	
				Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-
				Bottom	4	29.6 29.6	29.6	8.2 8.2	8.2	29.9 30.0	30.0	75.5 74.9	75.2	4.9 4.8	4.9		4.9	7.5 7.4		7.5
EM1	Cloudy	Moderate	12:31	Surface	1	29.7 29.7	29.7	8.2 8.1	8.2	34.2 34.2	34.2	88.1 87.7	87.9	5.6 5.5	5.6	5.6	1.7 1.6	1.7	2.6	
				Middle	10	29.4 29.4	29.4	8.3 8.1	8.2	34.5 34.4	34.5	88.2 88.0	88.1	5.6 5.6	5.6		5.6	1.8 1.8		1.8
				Bottom	19	29.5 29.5	29.5	8.2 8.1	8.2	34.5 34.6	34.6	86.6 87.0	86.8	5.5 5.5	5.5		5.5	4.1 4.2		4.2
EM2	Cloudy	Moderate	13:45	Surface	1	29.6 29.6	29.6	8.2 8.1	8.2	34.3 34.2	34.3	87.4 87.9	87.7	5.5 5.5	5.5	5.6	2.1 2.5	2.3	3.5	
				Middle	10	29.5 29.4	29.5	8.2 8.0	8.1	34.6 34.5	34.6	88.6 88.1	88.4	5.6 5.6	5.6		5.6	1.5 1.6		1.6
				Bottom	19	29.5 29.5	29.5	8.0 8.0	8.0	34.6 34.6	34.6	87.6 87.7	87.7	5.5 5.5	5.5		5.5	7.2 6.1		6.7
EM3	Cloudy	Moderate	14:36	Surface	1	29.6 29.6	29.6	8.3 8.3	8.3	32.1 32.1	32.1	91.8 91.7	91.8	5.9 5.9	5.9	5.9	1.4 1.2	1.3	3.0	
				Middle	12	29.5 29.5	29.5	8.3 8.3	8.3	32.3 32.3	32.3	90.9 91.1	91.0	5.8 5.8	5.8		5.8	1.2 1.0		1.1
				Bottom	23	29.5 29.5	29.5	8.3 8.3	8.3	32.6 32.6	32.6	87.9 88.6	88.3	5.6 5.7	5.7		5.7	6.3 7.0		6.7
F1	Cloudy	Moderate	13:28	Surface	1	29.7 29.7	29.7	8.2 8.1	8.2	34.5 34.5	34.5	92.1 90.4	91.3	5.8 5.7	5.8	5.8	1.7 1.4	1.6	3.5	
				Middle	5	29.5 29.5	29.5	8.2 8.1	8.2	34.6 34.6	34.6	90.0 89.9	90.0	5.7 5.7	5.7		5.7	2.5 2.4		2.5
				Bottom	9	29.4 29.4	29.4	8.2 8.1	8.2	34.7 34.7	34.7	88.3 88.5	88.4	5.6 5.6	5.6		5.6	6.5 6.3		6.4
F4	Cloudy	Moderate	13:59	Surface	1	29.7 29.7	29.7	8.3 8.3	8.3	31.7 31.8	31.8	83.8 83.3	83.6	5.3 5.3	5.3	5.3	3.5 3.7	3.6	8.2	
				Middle	5	29.4 29.4	29.4	8.3 8.3	8.3	32.5 32.5	32.5	81.4 81.1	81.3	5.2 5.2	5.2		5.2	7.0 7.0		7.0
				Bottom	9	29.3 29.3	29.3	8.3 8.3	8.3	32.7 32.7	32.7	80.1 81.5	80.8	5.1 5.2	5.2		5.2	14.1 13.8		14.0
F5	Cloudy	Moderate	13:12	Surface	1	29.8 29.7	29.8	8.2 8.2	8.2	29.8 29.8	29.8	76.7 75.4	76.1	4.9 4.9	4.9	4.9	4.9 5.0	5.0	7.6	
				Middle	4.5	29.7 29.7	29.7	8.2 8.2	8.2	29.8 29.8	29.8	75.8 75.1	75.5	4.9 4.9	4.9		4.9	8.1 8.0		8.1
				Bottom	8	29.7 29.7	29.7	8.2 8.2	8.2	29.9 29.9	29.9	75.2 74.4	74.8	4.9 4.8	4.9		4.9	9.6 9.5		9.6
JM3	Cloudy	Moderate	12:47	Surface	1	29.6 29.6	29.6	8.0 8.0	8.0	34.1 34.1	34.1	87.4 85.6	86.5	5.5 5.4	5.5	5.4	1.3 1.3	1.3	4.0	
				Middle	6	29.5 29.4	29.5	8.0 8.0	8.0	34.4 34.3	34.4	83.6 83.4	83.5	5.3 5.3	5.3		5.3	3.4 3.6		3.5
				Bottom	11	29.4 29.4	29.4	8.1 8.0	8.1	34.5 34.5	34.5	86.1 85.7	85.9	5.4 5.4	5.4		5.4	7.1 7.0		7.1

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 8 October 2017 (Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
MM13	Cloudy	Moderate	12:40	Surface	1	29.6 29.6	29.6	8.3 8.3	8.3	32.4 32.4	32.4	95.1 95.4	95.3	6.1 6.1	6.1	6.0	0.3 0.3	0.3	1.0
				Middle	14	29.5 29.5	29.5	8.3 8.3	8.3	32.6 32.6	32.6	92.8 92.1	92.5	5.9 5.9	5.9		0.7 0.7	0.7	
				Bottom	27	29.5 29.5	29.5	8.3 8.3	8.3	32.8 32.8	32.8	90.4 90.1	90.3	5.8 5.7	5.8		2.2 2.0	2.1	
SM12	Cloudy	Moderate	12:28	Surface	1	29.7 29.6	29.7	8.2 8.2	8.2	31.6 31.7	31.7	89.0 87.2	88.1	5.7 5.6	5.7	5.6	5.2 4.9	5.1	8.3
				Middle	4.5	29.5 29.5	29.5	8.3 8.3	8.3	32.7 32.5	32.6	84.3 84.7	84.5	5.4 5.4	5.4		6.2 6.3	6.3	
				Bottom	8	29.4 29.4	29.4	8.3 8.3	8.3	33.1 33.4	33.3	82.9 81.9	82.4	5.3 5.2	5.3		13.3 13.4	13.4	
SM17	Cloudy	Moderate	12:54	Surface	1	29.7 29.7	29.7	8.2 8.3	8.3	31.5 31.5	31.5	88.0 88.2	88.1	5.6 5.6	5.6	5.7	2.3 2.3	2.3	3.3
				Middle	8.5	29.3 29.3	29.3	8.3 8.3	8.3	33.8 33.8	33.8	89.7 89.2	89.5	5.7 5.7	5.7		2.4 2.8	2.6	
				Bottom	16	29.3 29.3	29.3	8.3 8.3	8.3	33.8 33.9	33.9	88.4 87.2	87.8	5.6 5.5	5.6		5.1 5.1	5.1	
SM2	Cloudy	Moderate	12:33	Surface	1	29.4 29.5	29.5	8.3 8.3	8.3	33.0 33.0	33.0	90.3 90.1	90.2	5.7 5.7	5.7	5.7	3.0 3.0	3.0	5.1
				Middle	7	29.4 29.4	29.4	8.3 8.3	8.3	33.1 33.1	33.1	90.1 90.0	90.1	5.7 5.7	5.7		3.0 3.1	3.1	
				Bottom	13	29.4 29.4	29.4	8.3 8.3	8.3	33.3 33.3	33.3	90.7 90.7	90.7	5.8 5.8	5.8		9.0 9.6	9.3	
SM3	Cloudy	Moderate	13:47	Surface	1	29.6 29.6	29.6	8.3 8.3	8.3	32.3 32.3	32.3	87.2 87.1	87.2	5.6 5.5	5.6	5.6	2.8 2.8	2.8	3.6
				Middle	15.5	29.4 29.4	29.4	8.3 8.3	8.3	33.1 33.1	33.1	86.8 86.9	86.9	5.5 5.5	5.5		3.7 3.7	3.7	
				Bottom	30	29.4 29.4	29.4	8.3 8.3	8.3	33.1 33.1	33.1	87.0 87.0	87.0	5.5 5.5	5.5		4.2 4.4	4.3	
SM6	Cloudy	Moderate	13:35	Surface	1	29.6 29.6	29.6	8.3 8.3	8.3	33.5 33.5	33.5	90.1 90.4	90.3	5.7 5.7	5.7	5.6	3.0 3.2	3.1	8.5
				Middle	8	29.3 29.3	29.3	8.3 8.3	8.3	33.6 33.6	33.6	87.2 86.8	87.0	5.5 5.5	5.5		3.7 3.6	3.7	
				Bottom	15	29.3 29.3	29.3	8.3 8.3	8.3	33.2 33.6	33.4	83.6 85.4	84.5	5.3 5.4	5.4		17.9 19.7	18.8	
VM1	Cloudy	Moderate	14:22	Surface	1	29.8 29.8	29.8	8.4 8.0	8.2	33.7 33.7	33.7	86.1 84.7	85.4	5.4 5.3	5.4	5.3	2.2 2.1	2.2	4.4
				Middle	15.5	29.5 29.5	29.5	8.2 8.0	8.1	34.0 34.0	34.0	80.7 80.3	80.5	5.1 5.1	5.1		6.1 5.9	6.0	
				Bottom	30	29.5 29.5	29.5	8.2 8.0	8.1	34.0 34.0	34.0	80.6 80.4	80.5	5.1 5.1	5.1		5.3 4.9	5.1	

Remarks: *DA: Depth-Averaged

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Water Quality Monitoring Results on 8 October 2017 (Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
VM12	Cloudy	Moderate	14:28	Surface	1	29.7	29.7	8.1	8.1	30.4	30.4	73.2	72.9	4.7	4.7	4.6	4.2	4.3	6.3
						29.7	29.7	8.1	8.1	30.4	30.4	72.5	72.9	4.7	4.7		4.3	4.3	
				Middle	10.5	29.5	29.5	8.1	8.1	30.7	30.7	70.3	69.9	4.5	4.5		5.6	5.6	
		29.5	29.5	8.1	8.1	30.7	30.7	69.5	69.9	4.5	4.5	4.3	4.3	9.0	9.1				
		29.4	29.4	8.1	8.1	31.0	31.0	67.1	66.7	4.3	4.3	4.3	4.3	9.2	9.1				
VM14	Cloudy	Moderate	14:09	Surface	1	29.7	29.7	8.1	8.1	29.5	29.5	75.6	75.2	4.9	4.9	4.8	7.0	7.0	7.5
						29.7	29.7	8.1	8.1	29.5	29.5	74.8	75.2	4.8	4.7		7.0	7.0	
				Middle	6.5	29.6	29.6	8.1	8.1	29.7	29.8	73.5	72.6	4.8	4.7		7.2	7.3	
		29.6	29.6	8.1	8.1	29.8	29.8	71.6	72.6	4.6	4.7	4.6	4.6	7.3	7.3				
		29.6	29.6	8.1	8.1	29.8	29.8	71.5	71.1	4.6	4.6	4.6	4.6	8.1	8.1				
		29.6	29.6	8.1	8.1	29.7	29.8	70.6	71.1	4.6	4.6	4.6	4.6	8.1	8.1				
VM15	Cloudy	Moderate	13:58	Surface	1	29.7	29.8	8.2	8.2	32.7	32.7	76.9	77.1	4.9	4.9	4.9	3.4	3.6	4.3
						29.8	29.8	8.2	8.2	32.6	32.7	77.2	77.1	4.9	4.9		3.7	3.6	
				Middle	6	29.5	29.5	8.2	8.2	33.1	33.1	76.3	76.1	4.9	4.9		3.3	3.3	
		29.5	29.5	8.2	8.2	33.1	33.1	75.9	76.1	4.8	4.9	4.9	4.9	3.3	3.3				
		29.5	29.5	8.1	8.1	33.4	33.4	76.5	76.5	4.9	4.9	4.9	4.9	6.1	6.0				
		29.5	29.5	8.1	8.1	33.4	33.4	76.4	76.5	4.9	4.9	4.9	4.9	5.8	6.0				
VM2	Cloudy	Moderate	14:53	Surface	1	29.6	29.6	7.7	7.8	33.5	33.5	79.9	79.5	5.1	5.1	5.1	3.5	3.4	3.9
						29.6	29.6	7.8	7.8	33.5	33.5	79.1	79.5	5.0	5.1		3.3	3.4	
				Middle	6.5	29.5	29.5	7.7	7.8	33.8	33.8	79.2	79.2	5.0	5.0		4.0	4.0	
		29.5	29.5	7.8	7.8	33.8	33.8	79.1	79.2	5.0	5.0	5.0	5.0	3.9	4.0				
		29.5	29.5	7.8	7.9	33.9	33.9	79.5	79.5	5.0	5.0	5.0	5.0	4.3	4.2				
		29.5	29.5	7.9	7.9	33.9	33.9	79.4	79.5	5.0	5.0	5.0	5.0	4.1	4.2				
VM4	Cloudy	Moderate	12:39	Surface	1	29.6	29.6	8.2	8.2	33.8	33.8	84.7	84.5	5.4	5.4	5.3	2.6	2.6	3.7
						29.6	29.6	8.1	8.2	33.8	33.8	84.2	84.5	5.3	5.4		2.6	2.6	
				Middle	7.5	29.4	29.4	8.2	8.2	33.9	34.0	82.7	82.8	5.2	5.2		3.4	3.6	
		29.4	29.4	8.2	8.2	34.0	34.0	82.8	82.8	5.2	5.2	5.2	5.2	3.7	3.6				
		29.4	29.4	8.3	8.3	34.0	34.0	82.3	82.6	5.2	5.2	5.2	5.2	5.2	4.9				
		29.4	29.4	8.3	8.3	34.0	34.0	82.8	82.6	5.2	5.2	5.2	5.2	4.5	4.9				
VM5	Cloudy	Moderate	12:50	Surface	1	29.8	29.8	8.2	8.2	33.3	33.3	80.9	80.4	5.1	5.1	5.1	2.9	3.0	3.2
						29.8	29.8	8.2	8.2	33.3	33.3	79.9	80.4	5.0	5.1		3.0	3.0	
				Middle	7	29.6	29.6	8.1	8.2	33.4	33.4	79.3	79.0	5.0	5.0		3.0	3.2	
		29.6	29.6	8.2	8.2	33.4	33.4	78.7	79.0	5.0	5.0	5.0	5.0	3.3	3.2				
		29.4	29.4	8.2	8.2	33.7	33.8	80.1	80.0	5.1	5.1	5.1	5.1	3.2	3.3				
		29.4	29.4	8.2	8.2	33.8	33.8	79.8	80.0	5.1	5.1	5.1	5.1	3.3	3.3				
VM7	Cloudy	Moderate	13:25	Surface	1	29.8	29.8	8.1	8.1	32.8	32.8	80.9	80.7	5.1	5.1	5.1	2.7	2.6	3.5
						29.8	29.8	8.1	8.1	32.8	32.8	80.4	80.7	5.1	5.1		2.5	2.6	
				Middle	6.5	29.5	29.5	8.1	8.1	33.0	33.1	77.8	77.6	5.0	5.0		2.5	2.6	
		29.4	29.5	8.1	8.1	33.1	33.1	77.3	77.6	4.9	5.0	5.0	5.0	2.6	2.6				
		29.4	29.4	8.2	8.2	33.3	33.4	76.4	76.2	4.9	4.9	4.9	4.9	5.5	5.4				
		29.4	29.4	8.2	8.2	33.4	33.4	76.0	76.2	4.8	4.9	4.9	4.9	5.3	5.4				

Remarks: *DA: Depth-Averaged

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						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
VM8	Cloudy	Moderate	13:45	Surface	1	30.0	30.0	8.1	8.1	31.9	31.9	60.5	59.3	3.8	3.8	4.3	5.7	5.8	7.1
						30.0		8.1		31.9		58.1		3.7			5.8		
				Middle	6.5	29.4	29.4	8.2	8.2	32.9	32.9	74.3	73.7	4.7	4.7		3.0	3.2	
		29.4		8.2		32.9		73.1		4.7		4.7	3.3						
		29.4	29.4	8.2	8.2	33.4	33.4	74.3	74.4	4.7	4.7	4.7	4.7	12.1	12.2				
		29.4		8.2		33.4		74.4		4.7		4.7	12.3						
WM1	Cloudy	Moderate	14:11	Surface	1	29.6	29.7	8.3	8.3	31.8	31.8	83.9	84.0	5.4	5.4	5.4	3.1	3.1	4.3
						29.7		8.3		31.8		84.1		5.4			3.0		
				Middle	15.5	29.4	29.4	8.3	8.3	32.7	32.7	82.5	82.9	5.3	5.3		4.1	4.2	
		29.4		8.3		32.7		83.3		5.3		5.3	4.3						
		29.4	29.4	8.3	8.3	33.0	33.0	84.7	84.5	5.4	5.4	5.4	5.4	5.7	5.5				
		29.4		8.3		33.0		84.3		5.4		5.4	5.3						
WM2	Cloudy	Moderate	14:12	Surface	1	29.7	29.7	8.2	8.2	30.9	31.0	79.4	78.4	5.1	5.1	5.0	3.7	3.8	4.5
						29.6		8.2		31.0		77.3		5.0			3.8		
				Middle	7.5	29.5	29.5	8.3	8.3	31.8	31.9	76.9	76.9	4.9	4.9		3.1	3.1	
		29.4		8.3		31.9		76.9		4.9		4.9	3.0						
		29.4	29.4	8.3	8.3	33.1	33.2	81.1	81.1	5.2	5.2	5.2	5.2	6.7	6.6				
		29.4		8.3		33.2		81.0		5.2		5.2	6.4						
WM4	Cloudy	Moderate	12:51	Surface	1	29.7	29.8	8.1	8.1	30.4	30.4	78.6	77.8	5.1	5.1	5.0	4.8	5.0	7.1
						29.8		8.1		30.3		77.0		5.0			5.1		
				Middle	15	29.5	29.5	8.1	8.2	30.9	30.9	74.1	73.8	4.8	4.8		6.4	6.3	
		29.5		8.2		30.9		73.4		4.7		4.8	6.2						
		29.4	29.5	8.2	8.2	31.8	31.7	75.2	74.4	4.8	4.8	4.8	4.8	9.9	9.9				
		29.5		8.2		31.6		73.6		4.7		4.8	9.8						
WSD10	Cloudy	Moderate	15:05	Surface	1	29.6	29.6	7.8	7.8	33.6	33.6	82.6	82.1	5.2	5.2	5.2	4.0	4.1	6.1
						29.6		7.8		33.6		81.6		5.2			5.2		
				Middle	5.5	29.5	29.5	7.8	7.9	33.9	33.9	81.8	81.6	5.2	5.2		6.5	6.7	
		29.5		7.9		33.9		81.4		5.2		5.2	6.9						
		29.5	29.5	7.8	7.9	34.0	34.0	81.2	81.0	5.1	5.1	5.1	5.1	7.0	7.6				
		29.5		7.9		34.0		80.8		5.1		5.1	8.1						
WSD11	Cloudy	Moderate	15:14	Surface	1	29.6	29.6	7.6	7.7	34.0	34.0	84.3	83.9	5.3	5.3	5.3	3.1	3.1	4.1
						29.6		7.8		34.0		83.5		5.3			3.0		
				Middle	8	29.5	29.5	7.6	7.7	34.0	34.0	82.6	82.5	5.2	5.2		3.4	3.5	
		29.5		7.8		34.0		82.4		5.2		5.2	3.5						
		29.5	29.5	7.7	7.8	34.1	34.1	81.4	81.4	5.1	5.1	5.1	5.1	5.8	5.6				
		29.5		7.9		34.1		81.3		5.1		5.1	5.4						
WSD12	Cloudy	Moderate	12:56	Surface	1	29.6	29.7	7.9	7.9	34.0	34.0	87.2	87.1	5.5	5.5	5.5	1.3	1.3	1.4
						29.7		7.9		34.0		86.9		5.5			1.2		
				Middle	4	29.5	29.5	7.9	7.9	34.0	34.0	85.5	85.4	5.4	5.4		1.4	1.4	
		29.5		7.9		34.0		85.3		5.4		5.4	1.3						
		29.4	29.4	7.9	8.0	34.1	34.1	84.5	84.7	5.4	5.4	5.4	5.4	1.4	1.4				
		29.4		8.0		34.1		84.8		5.4		5.4	1.4						

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 8 October 2017 (Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
WSD13	Cloudy	Moderate	14:01	Surface	1	29.7	29.7	8.0	8.0	34.1	34.1	86.2	85.9	5.4	5.4	5.4	2.0	2.1	2.7
						29.6	29.6	8.0	8.0	34.1	34.1	85.6	85.3	5.4	5.4		2.1	2.5	
				Middle	5.5	29.5	29.6	8.0	8.0	34.2	34.2	85.5	85.3	5.4	5.4		2.6	2.3	
				Bottom	10	29.6	29.5	8.0	8.0	34.2	34.2	85.1	84.9	5.4	5.4	5.4	3.3	3.5	
						29.5	29.5	8.0	8.0	34.2	34.2	85.0	84.9	5.4	5.4	5.4	3.7	3.5	
WSD15	Cloudy	Moderate	14:33	Surface	1	29.7	29.7	7.8	7.9	33.8	33.8	81.7	81.2	5.2	5.2	5.2	2.3	2.4	3.5
						29.7	29.6	7.9	7.9	33.8	33.8	80.6	81.8	5.1	5.2		2.4	4.0	
				Middle	7	29.6	29.6	7.8	7.9	34.0	34.0	81.9	81.7	5.2	5.2		4.0	4.0	
				Bottom	13	29.6	29.6	7.9	7.9	34.0	34.0	81.7	81.8	5.2	5.2	5.2	4.1	4.1	
						29.5	29.6	7.9	7.9	34.1	34.1	81.5	80.9	5.2	5.2	5.2	4.1	4.1	
						29.5	29.6	7.9	7.9	34.1	34.1	80.2	80.9	5.1	5.2	5.2	4.1	4.1	
WSD17	Cloudy	Moderate	14:46	Surface	1	29.5	29.5	7.7	7.8	33.6	33.5	79.5	79.0	5.0	5.0	5.1	5.7	5.7	6.0
						29.5	29.5	7.8	7.8	33.4	33.5	78.4	79.0	5.0	5.0		5.7	5.7	
				Middle	5.5	29.5	29.5	7.8	7.9	33.8	33.9	79.8	79.7	5.1	5.1		5.9	5.9	
				Bottom	10	29.5	29.5	7.8	7.9	33.9	33.9	79.6	79.7	5.0	5.1	5.0	5.8	5.9	
						29.5	29.5	7.9	7.9	33.9	33.9	79.2	79.2	5.0	5.0	5.0	6.7	6.5	
						29.5	29.5	7.9	7.9	33.9	33.9	79.2	79.2	5.0	5.0	5.0	6.3	6.5	
WSD18	Cloudy	Moderate	13:07	Surface	1	29.6	29.6	8.1	8.1	33.2	33.2	78.3	77.5	5.0	5.0	5.0	4.7	4.8	5.6
						29.6	29.6	8.1	8.1	33.1	33.2	76.6	77.5	4.9	5.0		4.9	4.8	
				Middle	6	29.6	29.6	8.2	8.2	33.2	33.2	76.5	76.5	4.9	4.9		5.3	5.3	
				Bottom	11	29.6	29.6	8.2	8.3	33.2	33.3	76.5	76.8	4.9	4.9	4.9	6.8	6.8	
						29.5	29.6	8.3	8.3	33.3	33.3	77.2	76.8	4.9	4.9	4.9	6.7	6.8	
						29.5	29.6	8.3	8.3	33.3	33.3	76.4	76.8	4.9	4.9	4.9	6.7	6.8	
WSD19	Cloudy	Moderate	13:15	Surface	1	29.5	29.5	8.2	8.2	33.0	33.0	77.9	77.8	5.0	5.0	4.9	4.6	4.3	5.8
						29.5	29.5	8.2	8.2	32.9	33.0	77.7	77.8	4.9	5.0		4.0	4.3	
				Middle	7	29.4	29.4	8.2	8.2	33.2	33.2	75.1	75.5	4.8	4.8		6.4	6.5	
				Bottom	13	29.4	29.4	8.2	8.2	33.2	33.3	75.9	76.4	4.8	4.8	4.9	6.5	6.6	
						29.4	29.4	8.2	8.2	33.3	33.3	76.1	76.4	4.8	4.9	4.9	6.5	6.6	
						29.4	29.4	8.2	8.2	33.3	33.3	76.6	76.4	4.9	4.9	4.9	6.7	6.6	
WSD20	Cloudy	Moderate	13:36	Surface	1	29.6	29.7	8.2	8.2	32.5	32.5	76.4	75.8	4.9	4.9	4.9	4.0	4.3	4.6
						29.7	29.7	8.2	8.2	32.4	32.5	75.2	75.8	4.8	4.9		4.5	4.3	
				Middle	5.5	29.5	29.5	8.3	8.3	33.1	33.2	77.0	76.8	4.9	4.9		4.0	4.2	
				Bottom	10	29.5	29.5	8.3	8.3	33.2	33.2	76.5	76.8	4.9	4.9	4.9	4.4	4.2	
						29.4	29.4	8.2	8.3	33.4	33.4	76.9	76.8	4.9	4.9	4.9	5.0	5.2	
						29.4	29.4	8.3	8.3	33.4	33.4	76.6	76.8	4.9	4.9	4.9	5.4	5.2	

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

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Water Quality Monitoring Results on 8 October 2017 (Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
WSD21	Cloudy	Moderate	13:38	Surface	1	29.6	29.6	8.3	8.3	32.7	32.7	86.8	86.8	5.5	5.5	5.5	4.1	4.1	4.9
						29.6		8.3		32.7		86.7		5.5			4.1		
				Middle	3.5	29.5	29.5	8.3	8.3	32.9	32.9	86.0	86.0	5.5	5.5		4.8	5.0	
		29.5		8.3		32.9		85.9		5.5		5.5	5.1						
		29.4	29.4	8.3	8.3	32.9	33.0	85.4	85.4	5.4	5.4	5.4	5.4	5.3	5.5				
		29.4		8.3		33.0		85.3		5.4		5.4	5.7						
WSD22	Cloudy	Moderate	12:57	Surface	1	29.5	29.5	8.2	8.2	33.5	33.6	79.4	79.3	5.0	5.0	5.1	3.7	3.8	5.0
						29.5		8.2		33.6		79.2		5.0			3.8		
				Middle	5	29.4	29.4	8.2	8.2	33.7	33.8	79.6	79.6	5.1	5.1		4.3	4.4	
		29.4		8.2		33.8		79.6		5.1		5.1	4.5						
		29.4	29.4	8.3	8.3	33.7	33.7	79.5	79.5	5.0	5.0	5.0	5.0	6.4	6.7				
		29.4		8.3		33.7		79.5		5.0		5.0	7.0						
WSD4	Cloudy	Moderate	14:03	Surface	1	29.7	29.8	8.2	8.2	29.5	29.5	75.2	75.2	4.9	4.9	4.8	8.2	8.2	8.0
						29.8		8.2		29.4		75.1		4.9			8.1		
				Middle	4.5	29.6	29.6	8.1	8.1	29.8	29.8	72.3	71.6	4.7	4.7		7.3	7.4	
		29.6		8.1		29.8		70.9		4.6		4.7	7.4						
		29.6	29.6	8.1	8.1	29.8	29.8	68.9	69.4	4.5	4.5	4.5	4.5	8.4	8.5				
		29.6		8.1		29.8		69.9		4.5		4.5	8.5						
WSD5	Cloudy	Moderate	14:17	Surface	1	29.7	29.7	8.1	8.1	29.9	29.9	71.8	71.9	4.6	4.6	4.6	5.1	5.1	7.0
						29.7		8.1		29.8		72.0		4.6			5.0		
				Middle	10	29.7	29.7	8.1	8.1	29.8	29.9	71.4	71.1	4.6	4.6		7.6	7.5	
		29.7		8.1		29.9		70.8		4.6		4.6	7.3						
		29.6	29.6	8.1	8.1	29.9	29.9	69.4	69.4	4.5	4.5	4.5	4.5	8.3	8.3				
		29.6		8.1		29.9		69.4		4.5		4.5	8.3						
WSD6	Cloudy	Moderate	14:08	Surface	1	29.9	29.9	8.2	8.2	32.9	32.9	68.9	68.1	4.4	4.4	4.3	6.3	6.4	9.1
						29.9		8.2		32.9		67.3		4.3			6.4		
				Middle	3	29.5	29.5	8.2	8.2	32.9	32.9	66.3	66.3	4.2	4.2		7.1	7.4	
		29.5		8.2		32.9		66.3		4.2		4.2	7.6						
		29.5	29.5	8.1	8.1	33.0	33.0	61.8	61.4	3.9	3.9	3.9	3.9	13.7	13.6				
		29.5		8.1		33.0		61.0		3.9		3.9	13.4						
WSD7	Cloudy	Moderate	14:20	Surface	1	29.5	29.5	8.1	8.1	33.1	33.1	74.4	73.7	4.7	4.7	4.8	5.0	5.2	8.1
						29.5		8.1		33.1		72.9		4.6			5.4		
				Middle	5	29.5	29.5	8.2	8.2	33.2	33.2	75.6	75.2	4.8	4.8		7.6	7.6	
		29.5		8.2		33.2		74.7		4.7		4.8	7.5						
		29.5	29.5	8.2	8.2	33.3	33.3	75.1	75.1	4.8	4.8	4.8	4.8	11.8	11.6				
		29.5		8.2		33.3		75.1		4.8		4.8	11.3						
WSD9	Cloudy	Moderate	12:30	Surface	1	29.6	29.6	8.2	8.2	33.8	33.8	84.1	84.2	5.3	5.3	5.3	2.5	2.6	3.2
						29.6		8.2		33.8		84.3		5.3			2.7		
				Middle	4.5	29.4	29.5	8.2	8.2	34.0	33.9	83.6	83.5	5.3	5.3		3.2	3.0	
		29.5		8.2		33.8		83.4		5.3		5.3	2.7						
		29.4	29.5	8.2	8.2	34.1	34.0	83.7	83.5	5.3	5.3	5.3	5.3	3.9	4.0				
		29.5		8.2		33.9		83.3		5.3		5.3	4.1						

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

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Water Quality Monitoring Results on 8 October 2017 (Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	
B10	Cloudy	Moderate	07:36	Surface	1	29.6 29.6	29.6	8.2 8.2	8.2	28.3 28.3	28.3	80.1 78.5	79.3	5.2 5.1	5.2	5.2	5.9 5.8	5.9	6.4	
				Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-
				Bottom	3	29.6 29.6	29.6	8.2 8.2	8.2	28.3 28.3	28.3	78.3 78.2	78.3	5.1 5.1	5.1		5.1	6.9 6.7		6.8
B11	Cloudy	Moderate	07:41	Surface	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	6.2	
				Middle	1	29.6 29.6	29.6	8.2 8.2	8.2	28.2 28.2	28.2	79.2 78.8	79.0	5.2 5.1	5.2		6.2 6.2	6.2		
				Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-
B12	Cloudy	Moderate	07:49	Surface	1	29.6 29.6	29.6	8.2 8.2	8.2	28.2 28.2	28.2	79.0 78.6	78.8	5.2 5.1	5.2	5.2	5.8 5.4	5.6	6.6	
				Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		
				Bottom	3.7	29.5 29.5	29.5	8.2 8.2	8.2	28.2 28.3	28.3	77.3 77.5	77.4	5.0 5.1	5.1		5.1	7.7 7.4		7.6
B13	Cloudy	Moderate	08:00	Surface	1	29.6 29.6	29.6	8.2 8.2	8.2	28.2 28.3	28.3	81.3 77.6	79.5	5.3 5.1	5.2	5.2	6.0 6.3	6.2	6.6	
				Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		
				Bottom	4.1	29.6 29.6	29.6	8.2 8.2	8.2	28.6 28.6	28.6	76.7 76.5	76.6	5.0 5.0	5.0		5.0	7.0 6.9		7.0
B14	Cloudy	Moderate	06:57	Surface	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	5.1	
				Middle	1	29.1 29.2	29.2	8.1 8.2	8.2	29.6 29.6	29.6	76.9 75.8	76.4	5.0 4.9	5.0		5.1 5.0	5.1		
				Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		
B24	Cloudy	Moderate	06:31	Surface	1	29.3 29.3	29.3	8.2 8.3	8.3	32.0 32.0	32.0	89.9 89.9	89.9	5.8 5.8	5.8	5.8	1.1 1.1	1.1	1.1	
				Middle	4	29.3 29.3	29.3	8.3 8.3	8.3	32.0 32.1	32.1	89.9 89.9	89.9	5.8 5.8	5.8		0.7 0.8	0.8		
				Bottom	7	29.3 29.3	29.3	8.3 8.3	8.3	32.1 32.1	32.1	91.3 90.5	90.9	5.9 5.8	5.9		5.9	1.3 1.2		1.3
B25	Cloudy	Moderate	06:46	Surface	1	29.3 29.3	29.3	8.3 8.3	8.3	32.0 32.0	32.0	88.7 88.6	88.7	5.7 5.7	5.7	5.7	0.9 0.9	0.9	1.1	
				Middle	-	-	-	-	-	-	-	-	-	-	-		-			
				Bottom	4.4	29.3 29.3	29.3	8.3 8.3	8.3	32.0 32.0	32.0	89.2 89.0	89.1	5.7 5.7	5.7		5.7	1.2 1.2		1.2

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 8 October 2017 (Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
B26	Cloudy	Moderate	07:11	Surface	1	29.4 29.3	29.4	8.3 8.3	8.3	32.3 32.1	32.2	96.3 94.0	95.2	6.2 6.0	6.1	6.1	1.7 1.6	1.7	2.0
				Middle	5.5	29.4 29.4	29.4	8.3 8.3	8.3	32.3 32.2	32.3	96.0 93.4	94.7	6.1 6.0	6.1		1.4 1.5	1.5	
				Bottom	10	29.4 29.4	29.4	8.3 8.3	8.3	32.3 32.3	32.3	96.0 95.0	95.5	6.1 6.1	6.1		2.9 2.9	2.9	
B30	Cloudy	Moderate	08:00	Surface	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-	3.1
				Middle	1.1	29.3 29.3	29.3	8.3 8.3	8.3	33.1 33.1	33.1	87.9 87.2	87.6	5.6 5.6	5.6		3.1 3.0	3.1	
				Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-	
B31	Cloudy	Moderate	07:52	Surface	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	3.1
				Middle	1.3	29.1 29.1	29.1	8.3 8.3	8.3	33.2 33.2	33.2	85.8 85.2	85.5	5.5 5.5	5.5		3.1 3.0	3.1	
				Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-	
B32	Cloudy	Moderate	08:08	Surface	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	3.3
				Middle	1.2	29.2 29.2	29.2	8.3 8.3	8.3	33.1 33.1	33.1	83.6 84.1	83.9	5.3 5.4	5.4		3.4 3.2	3.3	
				Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-	
B33	Cloudy	Moderate	08:13	Surface	1	29.3 29.3	29.3	8.3 8.3	8.3	33.0 33.0	33.0	88.0 88.0	88.0	5.6 5.6	5.6	5.6	3.3 3.4	3.4	3.3
				Middle	4	29.3 29.3	29.3	8.3 8.3	8.3	33.1 33.1	33.1	87.6 87.6	87.6	5.6 5.6	5.6		3.3 3.3	3.3	
				Bottom	7	29.2 29.3	29.3	8.3 8.3	8.3	33.1 33.1	33.1	85.7 86.5	86.1	5.5 5.5	5.5		3.3 3.3	3.3	
B34	Cloudy	Moderate	08:24	Surface	1	29.1 29.1	29.1	8.3 8.3	8.3	33.0 33.0	33.0	82.7 82.6	82.7	5.3 5.3	5.3	5.3	5.2 4.9	5.1	6.2
				Middle	3.5	29.1 29.1	29.1	8.3 8.3	8.3	33.0 33.0	33.0	81.6 81.9	81.8	5.2 5.2	5.2		5.3 5.5	5.4	
				Bottom	6	29.1 29.1	29.1	8.3 8.3	8.3	33.0 33.0	33.0	79.6 78.0	78.8	5.1 5.0	5.1		8.1 8.2	8.2	
B35	Cloudy	Moderate	08:36	Surface	1	29.3 29.3	29.3	8.3 8.3	8.3	33.0 33.0	33.0	82.5 82.7	82.6	5.3 5.3	5.3	5.5	4.2 4.1	4.2	4.2
				Middle	4.5	29.4 29.3	29.4	8.3 8.3	8.3	33.1 33.1	33.1	87.5 87.1	87.3	5.6 5.6	5.6		3.0 3.1	3.1	
				Bottom	8	29.4 29.4	29.4	8.3 8.3	8.3	33.2 33.2	33.2	87.5 87.4	87.5	5.6 5.6	5.6		5.4 5.4	5.4	
B7	Cloudy	Moderate	07:16	Surface	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	7.9
				Middle	0.6	29.6 29.6	29.6	8.2 8.2	8.2	28.0 28.0	28.0	79.9 79.7	79.8	5.2 5.2	5.2		7.5 8.2	7.9	
				Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-	

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 8 October 2017 (Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
B8	Cloudy	Moderate	07:22	Surface	1	29.6	29.6	8.2	8.2	28.6	28.9	77.9	77.0	5.1	5.0	4.9	9.1	9.4	10.8
						29.6	29.6	8.2	8.2	29.1	29.8	76.0	74.0	4.9	4.8		9.6	11.0	
				Middle	5.5	29.6	29.6	8.2	8.2	29.7	29.8	74.4	73.5	4.8	4.8		10.4	11.5	
				Bottom	10	29.6	29.6	8.2	8.2	29.7	29.8	73.6	73.5	4.8	4.8	4.8	12.6	12.0	
						29.6	29.6	8.2	8.2	29.8	29.8	73.4	73.5	4.7	4.8	4.8	11.3	12.0	
B9	Cloudy	Moderate	07:30	Surface	1	29.5	29.6	8.2	8.2	28.4	28.4	81.9	80.3	5.3	5.2	5.2	7.1	7.1	7.5
						29.6	29.6	8.2	8.2	28.4	28.4	78.7	78.5	5.1	5.1		7.1	7.1	
				Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	
				Bottom	3	29.6	29.6	8.2	8.2	28.4	28.4	78.7	78.5	5.1	5.1	5.1	7.9	7.8	
						29.6	29.6	8.2	8.2	28.4	28.4	78.2	78.5	5.1	5.1	5.1	7.7	7.8	
EM1	Cloudy	Moderate	08:47	Surface	1	29.4	29.4	8.1	8.2	34.2	34.3	87.3	87.4	5.5	5.5	5.5	1.3	1.3	2.5
						29.4	29.4	8.3	8.2	34.3	34.4	87.4	87.4	5.5	5.5		1.2	1.3	
				Middle	10	29.4	29.4	8.1	8.2	34.4	34.4	87.6	87.2	5.5	5.5		1.3	1.2	
				Bottom	19	29.5	29.5	8.2	8.3	34.5	34.5	87.5	87.4	5.5	5.5	5.5	4.8	4.9	
						29.5	29.5	8.3	8.3	34.5	34.5	87.3	87.4	5.5	5.5	5.5	4.9	4.9	
EM2	Cloudy	Moderate	08:05	Surface	1	29.4	29.4	8.0	8.1	34.3	34.3	87.3	87.1	5.5	5.5	5.5	1.4	1.4	2.0
						29.4	29.4	8.2	8.1	34.3	34.3	86.9	87.1	5.5	5.5		1.3	1.4	
				Middle	10	29.4	29.4	8.0	8.1	34.5	34.5	87.7	87.5	5.5	5.5		1.2	1.3	
				Bottom	19	29.5	29.5	8.1	8.2	34.5	34.5	87.3	87.5	5.5	5.5	5.5	3.4	3.4	
						29.5	29.5	8.3	8.2	34.7	34.7	87.7	87.7	5.5	5.5	5.5	3.3	3.4	
						29.5	29.5	8.3	8.2	34.7	34.7	87.7	87.7	5.5	5.5	5.5	3.3	3.4	
EM3	Cloudy	Moderate	06:54	Surface	1	29.4	29.4	8.3	8.3	32.2	32.1	90.9	89.8	5.8	5.8	5.8	0.7	0.7	0.9
						29.3	29.4	8.3	8.3	32.0	32.1	88.6	89.8	5.7	5.8		0.7	0.7	
				Middle	12.5	29.4	29.4	8.3	8.3	32.2	32.2	90.1	89.4	5.8	5.8		0.6	0.7	
				Bottom	24	29.4	29.5	8.3	8.3	32.1	32.2	88.6	89.4	5.7	5.7	5.7	1.2	1.3	
						29.4	29.5	8.3	8.3	32.2	32.3	89.5	89.4	5.7	5.7	5.7	1.2	1.3	
						29.5	29.5	8.3	8.3	32.3	32.3	89.2	89.4	5.7	5.7	5.7	1.3	1.3	
F1	Cloudy	Moderate	08:23	Surface	1	29.3	29.3	8.1	8.2	34.3	34.3	87.5	87.1	5.5	5.5	5.6	1.5	1.4	3.3
						29.3	29.3	8.2	8.2	34.3	34.3	86.6	87.1	5.5	5.5		1.3	1.4	
				Middle	5	29.4	29.4	8.0	8.1	34.6	34.6	88.8	88.6	5.6	5.6		2.6	2.7	
				Bottom	9	29.4	29.4	8.2	8.2	34.6	34.6	88.3	88.6	5.6	5.6	5.6	5.6	5.8	
						29.4	29.4	8.1	8.2	34.6	34.6	88.2	88.0	5.6	5.6	5.6	5.9	5.8	
						29.4	29.4	8.2	8.2	34.6	34.6	87.8	88.0	5.5	5.6	5.6	5.9	5.8	
F4	Cloudy	Moderate	07:00	Surface	1	29.3	29.3	8.2	8.2	31.1	31.1	78.0	77.6	5.0	5.0	5.0	3.7	3.8	6.2
						29.3	29.3	8.2	8.2	31.0	31.1	77.1	77.6	5.0	5.0		3.8	3.8	
				Middle	5.5	29.3	29.3	8.2	8.2	31.3	31.2	75.8	75.9	4.9	4.9		4.0	4.0	
				Bottom	10	29.3	29.3	8.3	8.3	31.1	31.1	76.0	75.9	4.9	4.9	5.0	10.8	10.7	
						29.3	29.3	8.3	8.3	32.1	32.0	78.2	77.4	5.0	5.0	5.0	10.6	10.7	
						29.3	29.3	8.2	8.3	31.9	32.0	76.6	77.4	4.9	5.0	5.0	10.6	10.7	
F5	Cloudy	Moderate	07:06	Surface	1	29.6	29.6	8.2	8.2	27.7	27.7	78.4	77.9	5.1	5.1	5.1	5.6	5.7	9.3
						29.6	29.6	8.2	8.2	27.7	27.7	77.4	77.9	5.1	5.1		5.8	5.7	
				Middle	4	29.6	29.6	8.2	8.2	27.8	27.8	77.5	77.4	5.1	5.1		9.4	9.2	
				Bottom	7	29.6	29.6	8.2	8.2	27.8	27.8	77.2	77.4	5.0	5.1	5.0	8.9	9.2	
						29.7	29.7	8.2	8.2	28.3	28.3	76.8	76.7	5.0	5.0	5.0	13.3	13.0	
						29.7	29.7	8.2	8.2	28.3	28.3	76.5	76.7	5.0	5.0	5.0	12.6	13.0	

Remarks: *DA: Depth-Averaged

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Water Quality Monitoring Results on 8 October 2017 (Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
JM3	Cloudy	Moderate	09:02	Surface	1	29.4	29.4	8.1	8.2	34.0	34.0	84.2	83.8	5.3	5.3	5.3	2.2	2.3	4.2
						29.4	29.4	8.2	8.2	34.0	34.0	83.3	82.3	5.3	5.2		2.3	2.4	
				Middle	6	29.4	29.4	8.1	8.2	34.1	34.1	82.5	82.0	5.2	5.2		2.3	2.4	
				Bottom	11	29.4	29.4	8.1	8.2	34.4	34.4	81.2	81.1	5.1	5.1	5.1	7.2	7.8	
						29.4	29.4	8.3	8.2	34.4	34.4	81.0	81.1	5.1	5.1		8.4	7.8	
MM13	Cloudy	Moderate	08:39	Surface	1	29.4	29.4	8.3	8.3	32.4	32.4	93.8	93.6	6.0	6.0	6.0	0.3	0.3	2.0
						29.4	29.4	8.3	8.3	32.4	32.4	93.3	91.2	6.0	5.9		0.3	2.3	
				Middle	14.5	29.5	29.5	8.3	8.3	32.7	32.7	90.6	91.7	5.8	5.9		2.2	2.4	
				Bottom	28	29.5	29.5	8.3	8.3	32.6	32.7	90.5	90.6	5.9	5.8	5.8	3.2	3.3	
						29.5	29.5	8.3	8.3	32.7	32.7	90.5	90.6	5.8	5.8		3.4	3.3	
						29.5	29.5	8.3	8.3	32.7	32.7	90.7	90.6	5.8	5.8		3.4	3.3	
SM12	Cloudy	Moderate	08:25	Surface	1	29.4	29.4	8.2	8.2	30.7	30.8	81.7	81.6	5.3	5.3	5.2	6.6	6.7	10.7
						29.4	29.4	8.2	8.2	30.8	30.8	81.4	80.1	5.2	5.1		6.8	12.7	
				Middle	4	29.4	29.4	8.2	8.2	31.5	31.5	80.1	80.0	5.1	5.1		14.0	11.3	
				Bottom	7	29.3	29.3	8.3	8.3	32.7	32.7	79.8	79.1	5.1	5.1	5.1	12.7	12.7	
						29.3	29.3	8.3	8.3	32.7	32.7	78.4	79.1	5.0	5.1		12.7	12.7	
SM17	Cloudy	Moderate	07:53	Surface	1	29.3	29.3	8.3	8.3	32.1	32.1	86.2	86.3	5.5	5.5	5.6	4.2	4.3	7.2
						29.3	29.3	8.3	8.3	32.1	32.1	86.3	88.7	5.5	5.6		4.3	3.0	
				Middle	8.5	29.3	29.3	8.3	8.3	33.6	33.7	88.8	88.6	5.6	5.6		2.8	3.1	
				Bottom	16	29.3	29.3	8.3	8.3	33.7	33.8	87.1	87.2	5.5	5.5	5.5	14.6	14.3	
						29.3	29.3	8.3	8.3	33.8	33.8	87.3	87.2	5.5	5.5		13.9	14.3	
						29.3	29.3	8.3	8.3	33.8	33.8	87.3	87.2	5.5	5.5		13.9	14.3	
SM2	Cloudy	Moderate	07:36	Surface	1	29.2	29.3	8.3	8.3	32.7	32.7	86.2	85.7	5.5	5.5	5.5	2.9	3.0	5.2
						29.3	29.3	8.3	8.3	32.7	32.7	85.2	85.7	5.4	5.5		3.1	3.8	
				Middle	7	29.4	29.4	8.3	8.3	32.9	32.9	85.7	85.6	5.5	5.5		3.8	3.8	
				Bottom	13	29.4	29.4	8.3	8.3	32.9	32.9	85.6	85.6	5.5	5.5	5.6	9.0	8.9	
						29.3	29.3	8.3	8.3	33.1	33.1	87.3	87.4	5.6	5.6		8.7	8.9	
						29.3	29.3	8.3	8.3	33.1	33.1	87.4	87.4	5.6	5.6		8.7	8.9	
SM3	Cloudy	Moderate	07:13	Surface	1	29.3	29.3	8.3	8.3	31.9	31.9	80.7	80.4	5.2	5.2	5.3	3.7	3.7	3.9
						29.3	29.3	8.3	8.3	31.9	31.9	80.0	83.2	5.1	5.3		3.7	4.1	
				Middle	16	29.4	29.4	8.3	8.3	32.8	32.9	83.3	83.0	5.3	5.3		3.7	4.4	
				Bottom	31	29.4	29.4	8.3	8.3	32.9	32.8	83.1	83.0	5.3	5.3	5.3	3.9	3.9	
						29.4	29.4	8.3	8.3	32.8	32.8	82.9	83.0	5.3	5.3		3.9	3.9	
						29.4	29.4	8.3	8.3	32.8	32.8	82.9	83.0	5.3	5.3		3.9	3.9	
SM6	Cloudy	Moderate	07:21	Surface	1	29.3	29.3	8.3	8.3	32.1	32.2	81.1	81.2	5.2	5.2	5.4	3.4	3.4	9.8
						29.3	29.3	8.3	8.3	32.2	32.2	81.3	87.8	5.2	5.6		3.4	2.8	
				Middle	7.5	29.4	29.4	8.3	8.3	33.6	33.6	87.8	87.8	5.6	5.6		2.9	2.7	
				Bottom	14	29.4	29.3	8.3	8.3	33.6	33.6	87.8	86.4	5.6	5.5	5.5	23.9	23.2	
						29.3	29.3	8.3	8.3	33.6	33.6	86.5	86.5	5.5	5.5		22.4	23.2	
						29.3	29.3	8.3	8.3	33.6	33.6	86.5	86.5	5.5	5.5		22.4	23.2	

Remarks: *DA: Depth-Averaged

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Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
VM1	Cloudy	Moderate	07:27	Surface	1	29.4	29.4	8.2	8.3	34.1	34.1	83.5	83.2	5.3	5.3	5.3	4.4	4.4	4.6
						29.4	29.4	8.3	8.3	34.1	34.1	82.8	81.7	5.2	5.2		4.4	4.9	
				Middle	16	29.4	29.4	8.2	8.3	34.1	34.1	81.5	81.7	5.2	5.2		5.0	4.7	
				Bottom	31	29.4	29.4	8.2	8.3	34.1	34.2	81.7	81.7	5.2	5.2	5.2	4.4	4.5	4.5
						29.4	29.4	8.3	8.3	34.2	34.2	81.7	81.7	5.2	5.2	5.2	4.5	4.5	4.5
VM12	Cloudy	Moderate	08:53	Surface	1	29.5	29.5	8.2	8.2	30.3	30.3	76.1	73.9	4.9	4.8	4.7	4.8	4.9	6.8
						29.5	29.5	8.2	8.2	30.3	30.3	71.7	70.7	4.6	4.6		4.9	4.8	
				Middle	10	29.5	29.5	8.1	8.2	30.5	30.5	69.8	70.7	4.5	4.6		4.6	4.8	
				Bottom	19	29.4	29.4	8.1	8.1	30.9	31.0	68.4	68.4	4.4	4.4	4.4	11.3	10.8	10.8
						29.4	29.4	8.1	8.1	31.0	31.0	68.3	68.4	4.4	4.4	4.4	10.3	10.8	10.8
VM14	Cloudy	Moderate	08:23	Surface	1	29.5	29.5	8.1	8.2	29.9	29.9	73.5	72.0	4.8	4.7	4.7	7.8	7.8	8.0
						29.5	29.5	8.2	8.2	29.9	29.9	70.5	72.0	4.6	4.7		7.7	7.8	
				Middle	6.5	29.5	29.5	8.1	8.2	29.9	29.9	71.2	70.7	4.6	4.6		7.8	7.7	
				Bottom	12	29.5	29.5	8.2	8.2	29.9	29.9	70.0	69.9	4.5	4.5	4.5	8.3	8.3	8.3
						29.5	29.5	8.1	8.2	29.9	29.9	69.8	69.9	4.5	4.5	4.5	8.2	8.3	8.3
VM15	Cloudy	Moderate	07:58	Surface	1	29.3	29.3	8.2	8.2	32.8	32.8	74.9	73.9	4.8	4.8	4.8	3.0	3.0	6.3
						29.3	29.3	8.2	8.2	32.7	32.8	72.9	73.9	4.7	4.8		2.9	3.0	
				Middle	6	29.4	29.4	8.2	8.2	33.2	33.2	75.9	75.7	4.8	4.8		7.5	7.4	
				Bottom	11	29.4	29.4	8.2	8.2	33.2	33.2	75.4	75.4	4.8	4.8	4.8	8.4	8.4	8.4
						29.4	29.4	8.1	8.2	33.2	33.2	75.3	75.4	4.8	4.8	4.8	8.4	8.4	8.4
VM2	Cloudy	Moderate	06:54	Surface	1	29.4	29.4	8.0	8.1	33.3	33.2	78.3	77.9	5.0	5.0	5.0	2.4	2.4	3.9
						29.4	29.4	8.1	8.1	33.1	33.2	77.4	77.9	4.9	5.0		2.3	2.4	
				Middle	6.5	29.4	29.4	8.0	8.1	33.8	33.8	79.4	79.2	5.0	5.0		3.7	3.5	
				Bottom	12	29.4	29.4	8.0	8.1	33.8	33.8	78.9	78.8	5.0	5.0	5.0	5.8	5.7	5.7
						29.4	29.4	8.2	8.1	33.8	33.8	78.6	78.8	5.0	5.0	5.0	5.6	5.7	5.7
VM4	Cloudy	Moderate	06:41	Surface	1	29.3	29.4	8.2	8.2	32.9	33.0	80.3	79.7	5.1	5.1	5.1	2.8	2.9	4.2
						29.4	29.4	8.2	8.2	33.1	33.0	79.0	79.0	5.0	5.0		2.9	2.9	
				Middle	7	29.5	29.5	8.2	8.2	33.5	33.5	79.0	79.0	5.0	5.0		4.6	4.6	
				Bottom	13	29.4	29.4	8.2	8.2	33.4	33.5	78.9	79.0	5.0	5.0	5.0	4.6	4.6	4.6
						29.5	29.5	8.2	8.2	33.5	33.5	78.3	78.3	5.0	5.0	5.0	4.8	5.0	5.0
						29.5	29.5	8.2	8.2	33.5	33.5	78.2	78.3	5.0	5.0	5.0	5.1	5.0	5.0
VM5	Cloudy	Moderate	06:51	Surface	1	29.4	29.4	8.1	8.1	33.1	33.1	79.2	78.9	5.0	5.0	5.0	3.4	3.5	4.8
						29.4	29.4	8.1	8.1	33.1	33.1	78.6	78.9	5.0	5.0		3.5	3.5	
				Middle	6.5	29.4	29.4	8.2	8.2	33.2	33.2	77.7	77.5	4.9	4.9		4.1	4.5	
				Bottom	12	29.4	29.4	8.2	8.2	33.2	33.2	77.2	77.5	4.9	4.9	4.9	4.8	4.5	4.5
						29.4	29.4	8.2	8.2	33.3	33.3	76.7	76.6	4.9	4.9	4.9	6.4	6.5	6.5
						29.4	29.4	8.2	8.2	33.3	33.3	76.4	76.6	4.9	4.9	4.9	6.6	6.5	6.5
VM7	Cloudy	Moderate	07:27	Surface	1	29.4	29.4	8.2	8.2	33.2	33.2	76.5	76.1	4.9	4.9	4.9	4.0	4.0	5.2
						29.4	29.4	8.2	8.2	33.2	33.2	75.6	76.1	4.8	4.9		4.0	4.0	
				Middle	6	29.4	29.4	8.2	8.2	33.2	33.2	75.5	75.3	4.8	4.8		5.0	4.8	
				Bottom	11	29.4	29.4	8.2	8.2	33.2	33.2	75.1	75.3	4.8	4.8	4.8	4.6	4.8	4.8
						29.4	29.4	8.2	8.2	33.2	33.2	74.7	74.6	4.8	4.8	4.8	7.2	6.9	6.9
						29.4	29.4	8.2	8.2	33.2	33.2	74.5	74.6	4.7	4.8	4.8	6.6	6.9	6.9

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 8 October 2017 (Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
VM8	Cloudy	Moderate	07:38	Surface	1	29.4	29.4	8.1	8.1	32.0	32.0	76.8	76.8	4.9	4.9	4.9	4.4	4.4	9.0
						29.4	29.4	8.1	8.1	32.0	32.0	76.7	76.7	4.9	4.9		4.4	4.4	
				Middle	6	29.5	29.5	8.2	8.2	32.2	32.2	75.7	75.3	4.8	4.8		4.4	4.4	
				29.4	29.4	8.2	8.2	32.2	32.2	74.9	75.3	4.8	4.8			18.2	18.3		
				29.4	29.4	8.2	8.2	33.3	33.3	76.4	76.3	4.9	4.9	4.9	18.2	18.3			
				29.4	29.4	8.2	8.2	33.3	33.3	76.2	76.3	4.8	4.9	4.9	18.3	18.3			
WM1	Cloudy	Moderate	06:39	Surface	1	29.4	29.4	8.2	8.2	31.0	31.0	77.3	77.2	5.0	5.0	5.1	4.4	4.4	6.3
						29.4	29.4	8.2	8.2	31.0	31.0	77.0	77.2	5.0	5.0		4.4	4.4	
				Middle	16	29.4	29.4	8.3	8.3	32.4	32.4	81.0	80.9	5.2	5.2		4.1	4.2	
				29.4	29.4	8.3	8.3	32.4	32.4	80.7	80.9	5.2	5.2			4.3	4.2		
				29.4	29.4	8.3	8.3	32.8	32.8	81.9	81.9	5.2	5.2	5.2	10.1	10.2			
				29.4	29.4	8.3	8.3	32.8	32.8	81.8	81.9	5.2	5.2	5.2	10.3	10.2			
WM2	Cloudy	Moderate	06:46	Surface	1	29.5	29.5	8.2	8.2	30.2	30.2	76.0	75.7	4.9	4.9	4.9	7.0	6.8	8.4
						29.5	29.5	8.2	8.2	30.2	30.2	75.4	75.7	4.9	4.9		6.5	6.8	
				Middle	7	29.6	29.6	8.2	8.2	30.5	30.5	73.8	73.8	4.8	4.8		8.6	8.5	
				29.6	29.6	8.2	8.2	30.5	30.5	73.8	73.8	4.8	4.8			8.4	8.5		
				29.5	29.5	8.2	8.2	31.0	31.0	72.7	72.7	4.7	4.7	4.7	9.6	9.8			
				29.5	29.5	8.2	8.2	31.0	31.0	72.7	72.7	4.7	4.7	4.7	10.0	9.8			
WM4	Cloudy	Moderate	06:43	Surface	1	29.6	29.6	8.1	8.2	28.9	28.9	77.5	77.2	5.0	5.0	5.0	5.6	5.9	7.3
						29.6	29.6	8.2	8.2	28.9	28.9	76.9	77.2	5.0	5.0		6.2	5.9	
				Middle	15	29.6	29.6	8.2	8.2	29.0	29.1	75.8	75.3	4.9	4.9		7.1	7.3	
				29.6	29.6	8.2	8.2	29.1	29.1	74.8	75.3	4.9	4.9			7.5	7.3		
				29.6	29.6	8.2	8.2	29.4	29.6	74.0	73.6	4.8	4.8	4.8	8.4	8.7			
				29.6	29.6	8.2	8.2	29.7	29.6	73.1	73.6	4.7	4.8	4.8	8.9	8.7			
WSD10	Cloudy	Moderate	06:40	Surface	1	29.3	29.3	8.0	8.1	33.4	33.4	79.9	79.6	5.1	5.1	5.1	2.4	2.4	3.6
						29.3	29.3	8.1	8.1	33.4	33.4	79.2	79.6	5.0	5.1		2.3	2.4	
				Middle	5.5	29.4	29.4	8.0	8.1	33.6	33.7	79.3	79.3	5.0	5.0		3.5	3.7	
				29.4	29.4	8.2	8.1	33.7	33.7	79.2	79.3	5.0	5.0			3.9	3.7		
				29.4	29.4	8.1	8.2	33.7	33.7	78.5	78.6	5.0	5.0	5.0	5.2	4.8			
				29.4	29.4	8.2	8.2	33.7	33.7	78.7	78.6	5.0	5.0	5.0	4.4	4.8			
WSD11	Cloudy	Moderate	06:30	Surface	1	29.4	29.4	7.9	8.1	33.8	33.8	81.1	81.0	5.1	5.1	5.2	2.6	2.5	3.2
						29.4	29.4	8.2	8.1	33.8	33.8	80.8	81.0	5.1	5.1		2.3	2.5	
				Middle	8	29.4	29.4	8.0	8.1	33.9	34.0	81.5	81.7	5.2	5.2		2.8	3.1	
				29.4	29.4	8.2	8.1	34.0	34.0	81.9	81.7	5.2	5.2			3.3	3.1		
				29.4	29.4	8.1	8.2	34.0	34.0	82.2	82.3	5.2	5.2	5.2	4.2	4.0			
				29.4	29.4	8.3	8.2	34.0	34.0	82.3	82.3	5.2	5.2	5.2	3.8	4.0			
WSD12	Cloudy	Moderate	09:11	Surface	1	29.4	29.4	8.2	8.2	34.1	34.1	85.6	84.8	5.4	5.4	5.4	1.8	1.8	1.9
						29.4	29.4	8.2	8.2	34.0	34.1	84.0	84.8	5.3	5.3		1.8	1.8	
				Middle	4	29.4	29.4	8.1	8.2	34.1	34.1	84.4	84.1	5.3	5.3		1.7	1.8	
				29.4	29.4	8.2	8.2	34.1	34.1	83.7	84.1	5.3	5.3			1.8	1.8		
				29.4	29.4	8.1	8.2	34.1	34.1	83.1	82.7	5.3	5.3	5.3	2.0	2.2			
				29.4	29.4	8.2	8.2	34.1	34.1	82.3	82.7	5.2	5.3	5.3	2.3	2.2			

Remarks: *DA: Depth-Averaged
 **Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 8 October 2017 (Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
WSD13	Cloudy	Moderate	07:51	Surface	1	29.4 29.4	29.4	8.0 8.2	8.1	34.3 34.3	34.3	87.3 86.9	87.1	5.5 5.5	5.5	5.5	2.9 2.9	2.9	3.9
				Middle	5.5	29.4 29.4	29.4	8.1 8.3	8.2	34.3 34.3	34.3	86.6 86.4	86.5	5.5 5.5	5.5		2.8 2.9	2.9	
				Bottom	10	29.4 29.4	29.4	8.1 8.3	8.2	34.3 34.3	34.3	86.3 86.1	86.2	5.5 5.4	5.5		5.8 5.8	5.8	
WSD15	Cloudy	Moderate	07:19	Surface	1	29.4 29.4	29.4	7.9 8.2	8.1	33.9 33.9	33.9	82.1 81.7	81.9	5.2 5.2	5.2	5.2	3.0 2.7	2.9	4.4
				Middle	7	29.4 29.4	29.4	8.0 8.2	8.1	34.1 34.0	34.1	82.5 81.9	82.2	5.2 5.2	5.2		3.1 2.8	3.0	
				Bottom	13	29.4 29.4	29.4	8.1 8.3	8.2	34.2 34.2	34.2	82.6 82.5	82.6	5.2 5.2	5.2		7.4 7.1	7.3	
WSD17	Cloudy	Moderate	07:04	Surface	1	29.4 29.4	29.4	8.1 8.1	8.1	33.7 33.7	33.7	80.7 79.5	80.1	5.1 5.0	5.1	5.1	3.6 4.4	4.0	5.7
				Middle	5.5	29.4 29.4	29.4	8.0 8.2	8.1	33.7 33.7	33.7	79.3 79.1	79.2	5.0 5.0	5.0		4.6 5.3	5.0	
				Bottom	10	29.4 29.4	29.4	8.0 8.2	8.1	33.7 33.8	33.8	78.9 78.8	78.9	5.0 5.0	5.0		8.1 8.1	8.1	
WSD18	Cloudy	Moderate	07:08	Surface	1	29.4 29.4	29.4	8.1 8.2	8.2	32.8 32.8	32.8	72.2 72.3	72.3	4.6 4.6	4.6	4.6	4.2 4.5	4.4	5.0
				Middle	5.5	29.4 29.4	29.4	8.2 7.2	7.7	32.9 32.9	32.9	71.1 70.8	71.0	4.5 4.5	4.5		5.4 4.9	5.2	
				Bottom	10	29.4 29.4	29.4	8.2 8.2	8.2	32.9 32.9	32.9	71.0 70.6	70.8	4.5 4.5	4.5		5.7 5.3	5.5	
WSD19	Cloudy	Moderate	07:18	Surface	1	29.4 29.4	29.4	8.2 8.1	8.2	33.0 32.9	33.0	74.4 74.7	74.6	4.7 4.8	4.8	4.8	4.3 3.8	4.1	5.1
				Middle	6.5	29.4 29.4	29.4	8.1 8.2	8.2	33.0 33.0	33.0	74.1 73.8	74.0	4.7 4.7	4.7		4.6 4.0	4.3	
				Bottom	12	29.5 29.4	29.5	8.2 8.1	8.2	33.2 33.0	33.1	74.3 73.0	73.7	4.7 4.7	4.7		7.0 6.9	7.0	
WSD20	Cloudy	Moderate	07:47	Surface	1	29.4 29.4	29.4	8.2 8.1	8.2	31.8 31.9	31.9	76.0 74.3	75.2	4.9 4.8	4.9	4.8	4.9 4.9	4.9	4.1
				Middle	5.5	29.4 29.4	29.4	8.2 8.2	8.2	32.0 32.0	32.0	73.2 72.9	73.1	4.7 4.7	4.7		3.6 3.8	3.7	
				Bottom	10	29.4 29.4	29.4	8.2 8.2	8.2	32.1 32.1	32.1	72.2 72.0	72.1	4.6 4.6	4.6		3.8 3.6	3.7	
WSD21	Cloudy	Moderate	07:25	Surface	1	29.3 29.3	29.3	8.2 8.3	8.3	31.9 32.0	32.0	79.4 79.0	79.2	5.1 5.1	5.1	5.2	3.5 3.6	3.6	3.7
				Middle	3.5	29.3 29.3	29.3	8.3 8.3	8.3	32.1 32.2	32.2	80.5 80.6	80.6	5.2 5.2	5.2		3.5 3.6	3.6	
				Bottom	6	29.3 29.3	29.3	8.3 8.3	8.3	32.4 32.4	32.4	81.9 82.5	82.2	5.2 5.3	5.3		4.1 3.9	4.0	

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

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Water Quality Monitoring Results on 8 October 2017 (Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
WSD22	Cloudy	Moderate	06:57	Surface	1	29.3	29.3	8.1	8.2	33.1	33.1	77.2	76.7	4.9	4.9	4.9	3.8	3.7	4.9
						29.3		8.2		33.1		76.1		4.9			3.6		
				Middle	4.5	29.4	29.4	8.2	8.2	33.1	33.1	76.9	76.8	4.9	4.9		4.6	4.8	
		29.4		8.2		33.1		76.6		4.9		4.9	5.0						
		29.4	29.4	8.2	8.2	33.1	33.1	77.2	77.1	4.9	4.9	4.9	4.9	6.5	6.3				
		29.4		8.2		33.1		77.0		4.9		4.9	6.1						
WSD4	Cloudy	Moderate	08:11	Surface	1	29.5	29.5	8.2	8.2	29.2	29.3	76.7	75.6	5.0	4.9	4.9	6.5	6.6	8.3
						29.5		8.2		29.3		74.4		4.8			6.6		
				Middle	4.5	29.5	29.5	8.2	8.2	29.5	29.5	74.1	73.8	4.8	4.8		7.6	7.6	
		29.5		8.2		29.5		73.5		4.8		4.8	7.6						
		29.5	29.5	8.2	8.2	29.7	29.7	72.6	72.7	4.7	4.7	4.7	4.7	11.4	10.8				
		29.5		8.2		29.6		72.8		4.7		4.7	10.2						
WSD5	Cloudy	Moderate	08:34	Surface	1	29.5	29.5	8.2	8.2	30.0	30.1	72.0	71.1	4.7	4.6	4.6	4.8	5.1	7.1
						29.5		8.2		30.1		70.2		4.5			5.3		
				Middle	10	29.5	29.5	8.2	8.2	30.9	30.7	70.0	69.8	4.5	4.5		7.6	7.8	
		29.5		8.2		30.5		69.5		4.5		4.5	7.9						
		29.5	29.5	8.2	8.2	30.9	30.7	69.9	69.7	4.5	4.5	4.5	4.5	8.6	8.3				
		29.5		8.2		30.5		69.4		4.5		4.5	8.0						
WSD6	Cloudy	Moderate	08:10	Surface	1	29.9	29.9	8.1	8.1	32.8	32.8	66.2	65.5	4.2	4.2	4.3	6.2	6.4	8.9
						29.8		8.1		32.8		64.8		4.1			6.5		
				Middle	3	29.5	29.5	8.2	8.2	33.0	33.0	67.8	67.6	4.3	4.3		8.3	8.4	
		29.5		8.1		33.0		67.3		4.3		4.3	8.4						
		29.5	29.5	8.2	8.2	33.1	33.1	68.6	68.3	4.4	4.4	4.4	4.4	11.6	11.8				
		29.5		8.2		33.1		67.9		4.3		4.4	12.0						
WSD7	Cloudy	Moderate	08:27	Surface	1	29.4	29.4	8.1	8.1	33.1	33.1	74.0	73.4	4.7	4.7	4.7	5.6	5.7	6.5
						29.4		8.1		33.1		72.7		4.6			5.7		
				Middle	5	29.4	29.4	8.1	8.2	33.1	33.1	72.8	72.8	4.6	4.6		6.1	6.1	
		29.4		8.2		33.1		72.7		4.6		4.6	6.0						
		29.4	29.4	8.2	8.2	33.2	33.2	73.8	73.5	4.7	4.7	4.7	4.7	7.8	7.8				
		29.4		8.2		33.2		73.2		4.7		4.7	7.8						
WSD9	Cloudy	Moderate	06:32	Surface	1	29.4	29.4	8.2	8.2	33.4	33.5	76.3	76.7	4.8	4.9	4.9	3.6	3.5	4.0
						29.4		8.1		33.5		77.0		4.9			3.4		
				Middle	4.5	29.4	29.5	8.2	8.2	33.5	33.6	76.8	76.4	4.9	4.9		4.3	4.2	
		29.5		8.2		33.6		75.9		4.8		4.9	4.1						
		29.5	29.5	8.3	8.3	33.6	33.6	76.9	76.6	4.9	4.9	4.9	4.4	4.4					
		29.5		8.3		33.6		76.3		4.8		4.9	4.4						

Remarks: *DA: Depth-Averaged
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DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 19 November 2017 (Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity (NTU)				
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*		
B10	Cloudy	Rough	12:27	Surface	1	24.7 24.7	24.7	7.9 7.9	7.9	31.7 31.7	31.7	83.2 82.2	82.7	5.8 5.7	5.8	5.8	4.3 4.3	4.3	4.7		
				Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-		- -	-
				Bottom	3	24.7 24.7	24.7	7.9 7.9	7.9	31.8 31.9	31.9	81.9 81.2	81.6	5.7 5.6	5.7		5.7	5.0 5.2		5.1	
B11	Cloudy	Rough	12:33	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	5.7	- -	-	3.9		
				Middle	1.1	24.7 24.7	24.7	7.9 7.9	7.9	31.8 31.8	31.8	82.6 82.5	82.6	5.7 5.7	5.7		3.9 3.9	3.9			
				Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-		-	- -		-	
B12	Cloudy	Rough	12:38	Surface	1	24.7 24.7	24.7	7.9 7.9	7.9	31.5 31.6	31.6	80.5 81.7	81.1	5.6 5.7	5.7	5.7	3.9 4.2	4.1	4.6		
				Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		-	- -		-	
				Bottom	3.1	24.7 24.7	24.7	7.9 7.9	7.9	31.7 31.8	31.8	80.1 79.7	79.9	5.6 5.5	5.6		5.6	4.6 5.6		5.1	
B13	Cloudy	Rough	12:44	Surface	1	24.7 24.7	24.7	7.9 7.9	7.9	31.6 31.7	31.7	80.5 80.2	80.4	5.6 5.6	5.6	5.6	6.6 5.5	6.1	7.5		
				Middle	4	24.7 24.7	24.7	7.9 7.9	7.9	31.7 31.8	31.8	80.2 80.2	80.2	5.6 5.6	5.6		6.6 5.8	6.2			
				Bottom	7	24.7 24.7	24.7	7.9 7.9	7.9	31.8 31.9	31.9	80.1 80.3	80.2	5.6 5.6	5.6		5.6	10.2 10.1		10.2	
B14	Cloudy	Rough	11:49	Surface	-	- -	-	- -	-	- -	-	- -	-	- -	-	5.8	- -	-	5.9		
				Middle	1.2	24.5 24.5	24.5	7.9 7.9	7.9	31.9 31.9	31.9	83.6 83.2	83.4	5.8 5.8	5.8		5.8 6.0	5.9			
				Bottom	-	- -	-	- -	-	- -	-	- -	-	- -	-		-	- -		-	
B24	Cloudy	Rough	11:20	Surface	1	24.1 24.1	24.1	8.3 8.3	8.3	33.4 33.4	33.4	100.6 100.6	100.6	7.0 7.0	7.0	7.0	7.5 7.6	7.6	7.7		
				Middle	4	24.1 24.1	24.1	8.3 8.4	8.4	33.4 33.4	33.4	100.4 100.5	100.5	7.0 7.0	7.0		7.6 7.7	7.7			
				Bottom	7	24.1 24.0	24.1	8.3 8.4	8.4	33.4 33.4	33.4	100.2 100.6	100.4	7.0 7.0	7.0		7.0	8.1 7.7		7.9	
B25	Cloudy	Rough	11:32	Surface	1	24.0 24.0	24.0	8.3 8.3	8.3	33.5 33.5	33.5	99.7 99.7	99.7	6.9 6.9	6.9	6.9	11.3 11.2	11.3	12.0		
				Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		-	- -		-	
				Bottom	4.9	24.0 24.0	24.0	8.3 8.3	8.3	33.5 33.5	33.5	99.5 99.5	99.5	6.9 6.9	6.9		6.9	12.6 12.5		12.6	
B26	Cloudy	Rough	11:56	Surface	1	24.0 24.0	24.0	8.2 8.3	8.3	33.5 33.5	33.5	100.7 99.8	100.3	7.0 6.9	7.0	7.0	12.5 11.9	12.2	10.4		
				Middle	5.5	24.0 24.0	24.0	8.2 8.3	8.3	33.5 33.5	33.5	99.7 98.5	99.1	6.9 6.9	6.9		10.7 10.0	10.4			
				Bottom	10	24.0 24.0	24.0	8.2 8.3	8.3	33.5 33.5	33.5	97.7 97.2	97.5	6.8 6.8	6.8		6.8	9.0 8.4		8.7	

Remarks: *DA: Depth-Averaged

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Water Quality Monitoring Results on 19 November 2017 (Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity (NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
B30	Cloudy	Rough	12:41	Surface	-	-	-	-	-	-	-	-	-	-	6.7	-	-	2.9	
				Middle	1.3	23.9	23.9	8.0	8.0	33.9	33.9	96.9	96.8	6.7		6.7	2.9		2.9
				Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-
B31	Cloudy	Rough	12:51	Surface	-	-	-	-	-	-	-	-	-	-	6.8	-	-	3.2	
				Middle	1	24.0	24.0	7.9	7.9	33.9	33.9	97.3	97.5	6.8		6.8	3.5		3.2
				Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-
B32	Cloudy	Rough	12:58	Surface	-	-	-	-	-	-	-	-	-	-	6.6	-	-	2.4	
				Middle	1.4	24.2	24.2	7.9	8.0	33.9	33.9	95.4	95.4	6.6		6.6	2.4		2.4
				Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-
B33	Cloudy	Rough	13:02	Surface	1	24.2	24.3	8.2	8.2	33.9	33.9	94.0	94.0	6.5	6.5	6.5	3.6	3.6	4.9
				Middle	4	24.3	24.3	8.2	8.2	33.9	33.9	93.2	93.1	6.4	6.4		7.5	7.2	
				Bottom	7	24.2	24.2	8.2	8.2	33.9	33.9	93.8	93.7	6.5	6.5		4.0	4.0	
B34	Cloudy	Rough	13:10	Surface	1	24.3	24.3	8.0	8.0	33.9	33.9	95.1	95.1	6.6	6.6	6.6	2.7	2.7	3.3
				Middle	3	24.3	24.3	8.1	8.1	33.9	33.9	94.5	94.4	6.5	6.5		2.9	3.0	
				Bottom	5	24.3	24.3	8.1	8.1	33.9	33.9	93.4	93.5	6.5	6.5		4.2	4.3	
B35	Cloudy	Rough	13:19	Surface	1	24.4	24.4	7.9	7.9	33.9	33.9	97.7	97.4	6.7	6.7	6.7	2.6	2.6	3.8
				Middle	4.5	24.4	24.4	7.9	7.9	33.9	33.9	95.9	96.2	6.6	6.6		3.7	3.8	
				Bottom	8	24.3	24.3	8.0	8.0	33.9	33.9	94.3	94.3	6.5	6.5		5.2	5.0	
B7	Cloudy	Rough	12:08	Surface	-	-	-	-	-	-	-	-	-	-	5.7	-	-	5.7	
				Middle	0.9	24.7	24.7	7.9	7.9	31.9	31.9	82.8	82.6	5.7		5.7	5.8		5.7
				Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-
B8	Cloudy	Rough	12:14	Surface	1	24.6	24.6	7.9	7.9	31.9	31.9	84.8	83.8	5.9	5.8	5.8	3.9	4.2	4.8
				Middle	5.5	24.7	24.7	7.9	7.9	32.0	32.0	82.8	82.1	5.7	5.7		5.6	5.6	
				Bottom	10	24.7	24.7	7.9	7.9	32.0	32.0	81.6	81.6	5.7	5.7		4.8	4.6	

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Water Quality Monitoring Results on 19 November 2017 (Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity (NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
B9	Cloudy	Rough	12:22	Surface	1	24.5	24.6	7.9	7.9	31.5	31.6	86.0	84.9	6.0	5.9	5.9	3.7	3.8	4.3
						24.6		7.9		31.6		83.8		5.8			3.9		
				Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	
				Bottom	4	24.7	24.7	7.9	7.9	31.9	31.8	82.2	82.5	5.7	5.7	5.7	4.7	4.8	4.8
						24.7		7.9		31.8		82.8		5.7			4.8		
EM1	Cloudy	Rough	12:45	Surface	1	24.1	24.2	8.2	8.2	33.3	33.3	95.1	94.1	6.6	6.6	6.6	1.8	1.8	2.3
						24.2		8.2		33.3		93.0		6.5			1.8		
				Middle	10	24.1	24.1	8.2	8.2	33.4	33.4	93.0	92.8	6.5	6.5		2.5	2.5	
						24.1		8.2		33.4		92.6		6.4		2.5			
				Bottom	19	24.0	24.0	8.2	8.2	33.4	33.4	93.1	93.3	6.5	6.5	6.5	2.7	2.7	2.7
						24.0		8.2		33.4		93.5		6.5			2.7		
EM2	Cloudy	Rough	12:53	Surface	1	24.1	24.1	8.2	8.2	33.4	33.4	96.4	95.9	6.7	6.7	6.7	3.6	3.6	3.9
						24.1		8.2		33.4		95.4		6.6			3.5		
				Middle	10	24.0	24.0	8.2	8.2	33.4	33.4	94.9	94.8	6.6	6.6		3.6	3.6	
						24.0		8.2		33.4		94.7		6.6		3.6			
				Bottom	19	24.0	24.0	8.2	8.2	33.5	33.5	94.3	94.3	6.6	6.6	6.6	4.5	4.5	4.5
						24.0		8.2		33.5		94.3		6.6			4.4		
						24.0		8.2		33.5		94.3		6.6			4.4		
EM3	Cloudy	Rough	11:41	Surface	1	24.0	24.0	8.3	8.4	33.5	33.5	97.6	97.5	6.8	6.8	6.8	5.2	5.3	9.1
						24.0		8.4		33.5		97.3		6.8			5.4		
				Middle	13.5	24.0	24.0	8.3	8.3	33.5	33.5	96.3	96.3	6.7	6.7		7.3	7.6	
						24.0		8.3		33.5		96.3		6.7		7.9			
				Bottom	26	24.0	24.0	8.4	8.4	33.5	33.5	95.6	95.6	6.6	6.6	6.6	14.5	14.5	14.5
						24.0		8.3		33.5		95.5		6.6			14.5		
						24.0		8.3		33.5		95.5		6.6			14.5		
F1	Cloudy	Rough	13:10	Surface	1	23.9	23.9	8.2	8.2	33.4	33.4	99.1	96.7	6.9	6.8	6.7	2.2	2.2	3.3
						23.9		8.2		33.4		94.3		6.6			2.2		
				Middle	5	23.9	24.0	8.2	8.2	33.4	33.4	94.8	94.5	6.6	6.6		2.7	2.7	
						24.0		8.2		33.4		94.1		6.6		2.7			
				Bottom	9	23.9	23.9	8.2	8.2	33.4	33.4	93.1	93.4	6.5	6.5	6.5	5.0	5.1	5.1
						23.9		8.2		33.4		93.7		6.5			5.1		
						23.9		8.2		33.4		93.7		6.5			5.1		
F4	Cloudy	Rough	11:56	Surface	1	24.4	24.4	8.0	8.0	33.8	33.8	93.1	92.8	6.4	6.4	6.4	3.6	3.4	3.5
						24.4		8.0		33.8		92.4		6.4			3.2		
				Middle	5	24.4	24.4	8.1	8.1	33.8	33.8	92.4	92.2	6.4	6.4		3.6	3.5	
						24.4		8.1		33.8		92.0		6.3		3.4			
				Bottom	9	24.4	24.4	8.2	8.2	33.8	33.8	91.8	91.7	6.3	6.3	6.3	3.8	3.6	3.6
						24.4		8.2		33.8		91.6		6.3			3.4		
						24.4		8.2		33.8		91.6		6.3			3.4		
F5	Cloudy	Rough	11:59	Surface	1	24.7	24.7	7.9	7.9	31.8	31.8	82.4	82.0	5.7	5.7	5.7	5.9	5.8	6.7
						24.7		7.9		31.8		81.5		5.7			5.7		
				Middle	4	24.7	24.7	7.9	7.9	32.0	32.0	82.1	81.9	5.7	5.7		6.6	6.6	
						24.7		7.9		32.0		81.6		5.7		6.5			
				Bottom	7	24.7	24.7	7.9	7.9	32.0	32.0	82.1	81.9	5.7	5.7	5.7	7.5	7.7	7.7
						24.7		7.9		32.0		81.7		5.7			7.8		
						24.7		7.9		32.0		81.7		5.7			7.8		
JM3	Cloudy	Rough	13:42	Surface	1	24.1	24.1	8.2	8.2	33.3	33.3	96.6	94.8	6.7	6.6	6.5	2.6	2.9	4.8
						24.1		8.2		33.3		92.9		6.5			3.1		
				Middle	6	24.1	24.1	8.2	8.2	33.3	33.4	92.3	92.3	6.4	6.4		2.5	2.5	
						24.1		8.2		33.4		92.3		6.4		2.5			
				Bottom	11	24.0	24.0	8.2	8.2	33.4	33.4	92.8	92.8	6.5	6.5	6.5	8.1	9.0	9.0
						24.0		8.2		33.4		92.7		6.4			9.9		
						24.0		8.2		33.4		92.7		6.4			9.9		

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						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
MM13	Cloudy	Rough	13:10	Surface	1	24.0	24.0	8.1	8.2	33.5	33.5	98.3	97.4	6.8	6.8	6.8	4.3	4.3	5.9
					24.0	8.2		33.5		96.4		6.7		4.2					
				Middle	12.5	24.0	24.0	8.2	8.3	33.5	33.5	96.9	96.1	6.7	6.7		6.1	6.2	
					24.0	8.3		33.5		95.3		6.6		6.2					
				Bottom	24	24.1	24.1	8.2	8.3	33.5	33.5	96.4	95.7	6.7	6.7		6.8	7.1	
					24.0	8.3		33.5		95.0		6.6		7.4					
SM12	Cloudy	Rough	13:33	Surface	1	24.5	24.5	8.1	8.1	32.6	32.6	87.4	87.4	6.1	6.1	6.1	13.2	13.3	18.2
					24.5	8.1		32.6		87.3		6.0		13.3					
				Middle	4	24.6	24.6	8.1	8.1	32.6	32.6	87.0	87.0	6.0	6.0		17.3	17.5	
					24.5	8.1		32.6		87.0		6.0		17.7					
				Bottom	7	24.6	24.6	8.1	8.1	32.6	32.6	86.7	86.7	6.0	6.0		24.1	23.9	
					24.6	8.1		32.6		86.7		6.0		23.6					
SM17	Cloudy	Rough	13:00	Surface	1	24.2	24.2	8.2	8.2	33.4	33.4	94.1	94.2	6.5	6.5	6.5	12.0	11.5	12.6
					24.2	8.2		33.4		94.2		6.5		10.9					
				Middle	8	24.2	24.2	8.2	8.2	33.4	33.4	93.8	94.0	6.5	6.5		12.2	11.6	
					24.2	8.2		33.4		94.2		6.5		10.9					
				Bottom	15	24.1	24.1	8.2	8.2	33.4	33.4	94.1	94.5	6.5	6.6		14.7	14.8	
					24.1	8.2		33.4		94.9		6.6		14.8					
SM2	Cloudy	Rough	12:27	Surface	1	24.2	24.2	8.1	8.1	33.9	33.9	95.9	95.6	6.6	6.6	6.7	2.6	2.6	3.6
					24.2	8.1		33.9		95.2		6.6		2.5					
				Middle	7	24.0	24.0	8.1	8.2	33.9	33.9	96.1	96.0	6.7	6.7		3.0	3.0	
					24.0	8.2		33.9		95.8		6.6		3.0					
				Bottom	13	23.9	23.9	8.3	8.3	33.9	33.9	96.2	96.1	6.7	6.7		5.6	5.2	
					23.9	8.3		33.9		95.9		6.7		4.8					
SM3	Cloudy	Rough	12:07	Surface	1	24.2	24.2	8.1	8.1	33.9	33.9	96.2	95.8	6.7	6.7	6.7	2.9	2.9	6.6
					24.2	8.1		33.9		95.3		6.6		2.9					
				Middle	15.5	23.9	23.9	8.1	8.2	33.9	33.9	95.9	95.9	6.7	6.7		7.1	7.0	
					23.9	8.2		33.9		95.8		6.7		6.9					
				Bottom	30	23.9	23.9	8.2	8.2	33.9	33.9	96.0	95.8	6.7	6.7		9.6	9.8	
					23.9	8.2		33.9		95.5		6.6		9.9					
SM6	Cloudy	Rough	12:22	Surface	1	24.1	24.1	8.1	8.2	33.4	33.4	94.3	94.3	6.6	6.6	6.6	5.0	5.0	7.7
					24.1	8.2		33.4		94.3		6.6		4.9					
				Middle	8	24.1	24.1	8.1	8.2	33.4	33.4	93.8	93.9	6.5	6.5		7.0	7.0	
					24.1	8.2		33.4		93.9		6.5		6.9					
				Bottom	15	24.0	24.0	8.2	8.2	33.4	33.4	93.2	93.3	6.5	6.5		12.2	11.1	
					24.0	8.2		33.4		93.4		6.5		9.9					
VM1	Cloudy	Rough	12:17	Surface	1	24.2	24.2	8.2	8.2	33.2	33.3	94.9	92.8	6.6	6.5	6.4	2.2	2.2	2.5
					24.2	8.2		33.3		90.7		6.3		2.2					
				Middle	20	24.2	24.2	8.2	8.2	33.3	33.3	89.2	89.2	6.2	6.2		2.6	2.7	
					24.2	8.2		33.3		89.2		6.2		2.7					
				Bottom	39	24.2	24.2	8.2	8.2	33.3	33.3	88.5	88.6	6.1	6.2		2.7	2.7	
					24.2	8.2		33.3		88.7		6.2		2.6					
VM12	Cloudy	Rough	11:39	Surface	1	24.7	24.7	8.0	8.0	32.3	32.3	77.6	77.2	5.4	5.4	5.3	4.9	4.7	6.2
					24.7	8.0		32.3		76.7		5.3		4.5					
				Middle	10	24.7	24.7	8.0	8.0	32.5	32.5	74.6	74.7	5.2	5.2		5.5	5.2	
					24.7	8.0		32.5		74.7		5.2		4.8					
				Bottom	19	24.6	24.6	8.0	8.0	32.7	32.7	73.1	73.1	5.1	5.1		8.1	8.6	
					24.6	8.0		32.7		73.0		5.0		9.1					

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 19 November 2017 (Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity (NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
VM14	Cloudy	Rough	13:00	Surface	1	24.7	24.7	7.9	7.9	31.8	31.8	78.7	78.1	5.5	5.5	5.5	4.4	4.6	6.3
						24.7		7.9		31.8		77.5		5.4			4.7		
				Middle	6.5	24.7	24.7	7.9	7.9	31.8	31.8	77.6	77.6	5.4	5.4		4.8	5.3	
				24.7		7.9		31.8		77.5		5.4		5.4	9.0	9.0			
				24.7	12	24.7	24.7	7.9	7.9	31.8	31.8	78.4	78.3	5.4	5.4	5.4	8.9	9.0	
VM15	Cloudy	Rough	13:38	Surface	1	24.5	24.5	8.0	8.0	32.4	32.4	79.0	78.5	5.5	5.5	5.5	6.0	5.9	6.9
						24.5		8.0		32.4		78.0		5.4			5.7		
				Middle	6	24.5	24.5	8.0	8.0	32.5	32.5	78.5	78.3	5.4	5.4		6.6	6.6	
				24.5		8.0		32.5		78.0		5.4		5.4	8.1	8.2			
				24.5	11	24.5	24.5	8.0	8.0	32.5	32.5	79.6	79.5	5.5	5.5	5.5	8.3	8.2	
VM2	Cloudy	Rough	11:53	Surface	1	24.2	24.2	8.2	8.2	33.3	33.3	93.6	92.6	6.5	6.5	6.4	2.7	2.5	2.6
						24.2		8.2		33.3		91.6		6.4			2.2		
				Middle	5.5	24.2	24.2	8.2	8.2	33.3	33.3	91.2	91.2	6.3	6.3		2.7	2.7	
				24.2		8.2		33.3		91.1		6.3		6.3	2.7	2.7			
				24.2	10	24.2	24.2	8.2	8.2	33.3	33.3	90.8	90.7	6.3	6.3	6.3	2.8	2.7	
				24.2		8.2		33.3		90.6		6.3		6.3	6.3	2.6	2.7		
VM4	Cloudy	Rough	11:43	Surface	1	24.3	24.3	8.1	8.1	32.7	32.7	86.2	86.1	6.0	6.0	6.0	3.4	3.3	3.6
						24.3		8.1		32.7		86.0		6.0			3.2		
				Middle	7.5	24.4	24.4	8.1	8.1	32.7	32.7	85.3	85.5	5.9	5.9		3.8	3.7	
				24.3		8.1		32.7		85.6		5.9		5.9	3.5	3.7			
				24.3	14	24.3	24.3	8.1	8.1	32.8	32.8	87.1	86.5	6.1	6.1	6.1	3.6	3.7	
				24.3		8.1		32.7		85.8		6.0		6.1	6.1	3.7	3.7		
VM5	Cloudy	Rough	11:58	Surface	1	24.5	24.5	8.0	8.0	32.4	32.5	81.2	81.4	5.6	5.7	5.8	2.9	2.9	3.3
						24.5		8.0		32.5		81.5		5.7			2.8		
				Middle	6.5	24.4	24.4	8.1	8.1	32.6	32.6	83.3	82.9	5.8	5.8		3.6	3.6	
				24.4		8.1		32.6		82.5		5.7		5.8	3.6	3.6			
				24.4	12	24.4	24.4	8.1	8.1	32.7	32.7	84.5	84.7	5.9	5.9	5.9	3.5	3.5	
				24.4		8.1		32.7		84.8		5.9		5.9	5.9	3.4	3.5		
VM7	Cloudy	Rough	12:40	Surface	1	24.5	24.5	8.0	8.0	32.4	32.4	78.6	78.2	5.5	5.5	5.5	3.9	4.1	8.2
						24.5		8.0		32.4		77.8		5.4			4.2		
				Middle	6	24.5	24.5	8.0	8.0	32.5	32.5	77.6	77.3	5.4	5.4		8.9	9.1	
				24.5		8.0		32.5		77.0		5.3		5.4	9.2	9.1			
				24.5	11	24.5	24.5	8.1	8.1	32.6	32.6	81.2	80.4	5.6	5.6	5.6	11.0	11.3	
				24.5		8.1		32.6		79.6		5.5		5.6	5.6	11.5	11.3		
VM8	Cloudy	Rough	12:53	Surface	1	24.5	24.5	7.9	8.0	32.0	32.1	73.1	73.0	5.1	5.1	5.4	5.5	5.5	6.5
						24.5		8.0		32.1		72.9		5.1			5.4		
				Middle	5.5	24.6	24.6	8.1	8.1	32.5	32.5	80.6	80.9	5.6	5.6		6.5	6.6	
				24.6		8.1		32.5		81.2		5.6		5.6	6.6	6.6			
				24.5	10	24.5	24.5	8.1	8.1	32.7	32.7	84.9	85.2	5.9	5.9	5.9	7.2	7.5	
				24.5		8.1		32.7		85.5		5.9		5.9	5.9	7.7	7.5		
WM1	Cloudy	Rough	11:40	Surface	1	24.4	24.4	8.0	8.1	33.9	33.9	95.4	94.9	6.6	6.6	6.6	2.0	2.2	3.0
						24.4		8.1		33.9		94.3		6.5			2.4		
				Middle	16	24.4	24.4	8.2	8.2	33.9	33.9	93.7	93.4	6.5	6.5		2.2	2.4	
				24.4		8.2		33.9		93.0		6.4		6.5	2.5	2.4			
				24.4	31	24.4	24.4	8.2	8.2	33.9	33.9	92.7	92.7	6.4	6.4	6.4	4.4	4.4	
				24.4		8.2		33.9		92.7		6.4		6.4	6.4	4.4	4.4		

Remarks: *DA: Depth-Averaged

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DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 19 November 2017 (Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity (NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
WM2	Cloudy	Rough	13:18	Surface	1	24.6	24.6	8.1	8.1	32.0	32.0	84.7	84.5	5.9	5.9	5.9	4.5	4.5	5.9
					24.6	24.6	8.1	8.1	32.0	32.0	84.3	84.5	5.9	5.9	4.4		4.5		
				Middle	6.5	24.6	24.6	8.1	8.1	32.2	32.2	82.9	83.1	5.7	5.8		5.0	5.0	
					24.6	24.6	8.1	8.1	32.2	32.2	83.2	83.1	5.8	5.8	4.9		5.0		
				Bottom	12	24.5	24.5	8.1	8.1	32.9	32.9	89.5	89.4	6.2	6.2		8.1	8.1	
					24.5	24.5	8.1	8.1	32.9	32.9	89.2	89.4	6.2	6.2	8.1		8.1		
WM4	Cloudy	Rough	11:38	Surface	1	24.7	24.7	7.8	7.9	31.8	31.8	83.9	83.6	5.8	5.8	5.8	4.0	4.0	7.0
					24.7	24.7	7.9	7.9	31.8	31.8	83.2	83.6	5.8	5.8	4.0		4.0		
				Middle	15	24.6	24.6	7.9	7.9	32.3	32.3	84.1	84.2	5.8	5.8		4.2	4.1	
					24.6	24.6	7.9	7.9	32.3	32.3	84.3	84.2	5.8	5.8	4.0		4.1		
				Bottom	29	24.6	24.6	7.9	7.9	32.7	32.7	85.8	86.3	5.9	6.0		12.1	12.9	
					24.6	24.6	7.9	7.9	32.7	32.7	86.8	86.3	6.0	6.0	13.6		12.9		
WSD10	Cloudy	Rough	11:40	Surface	1	24.3	24.3	8.1	8.2	33.0	33.0	91.9	90.4	6.4	6.3	6.3	2.4	2.7	3.2
					24.3	24.3	8.2	8.2	33.0	33.0	88.9	90.4	6.2	6.3	2.9		2.7		
				Middle	5.5	24.3	24.3	8.1	8.2	33.2	33.3	88.8	88.8	6.2	6.2		2.7	2.6	
					24.3	24.3	8.2	8.2	33.3	33.3	88.7	88.8	6.1	6.2	2.5		2.6		
				Bottom	10	24.3	24.3	8.2	8.2	33.3	33.3	89.7	89.8	6.2	6.2		4.4	4.4	
					24.3	24.3	8.2	8.2	33.3	33.3	89.8	89.8	6.2	6.2	4.3		4.4		
WSD11	Cloudy	Rough	11:29	Surface	1	24.3	24.3	8.2	8.2	33.2	33.2	91.5	89.9	6.3	6.2	6.2	2.5	2.5	2.9
					24.3	24.3	8.2	8.2	33.2	33.2	88.3	89.9	6.1	6.2	2.4		2.5		
				Middle	8	24.3	24.3	8.1	8.2	33.2	33.2	88.3	88.3	6.1	6.1		2.8	2.8	
					24.3	24.3	8.2	8.2	33.2	33.2	88.3	88.3	6.1	6.1	2.7		2.8		
				Bottom	15	24.3	24.3	8.1	8.2	33.2	33.3	88.1	88.2	6.1	6.1		3.2	3.3	
					24.3	24.3	8.2	8.2	33.3	33.3	88.2	88.2	6.1	6.1	3.3		3.3		
WSD12	Cloudy	Rough	13:49	Surface	1	24.2	24.2	8.1	8.2	33.3	33.3	92.3	90.5	6.4	6.3	6.3	2.2	2.3	4.9
					24.2	24.2	8.2	8.2	33.3	33.3	88.7	90.5	6.2	6.3	2.4		2.3		
				Middle	4	24.2	24.3	8.1	8.2	33.3	33.3	89.9	89.4	6.2	6.2		2.2	2.2	
					24.3	24.3	8.2	8.2	33.3	33.3	88.9	89.4	6.2	6.2	2.2		2.2		
				Bottom	7	24.3	24.3	8.2	8.2	33.4	33.4	88.0	87.9	6.1	6.1		10.8	10.1	
					24.3	24.3	8.2	8.2	33.4	33.4	87.7	87.9	6.1	6.1	9.3		10.1		
WSD13	Cloudy	Rough	12:37	Surface	1	24.1	24.2	8.2	8.2	33.2	33.3	94.9	93.5	6.6	6.5	6.5	2.7	2.6	5.1
					24.2	24.2	8.2	8.2	33.3	33.3	92.1	93.5	6.4	6.5	2.4		2.6		
				Middle	5.5	24.2	24.2	8.2	8.2	33.3	33.3	92.4	92.1	6.4	6.4		3.9	3.7	
					24.2	24.2	8.2	8.2	33.3	33.3	91.8	92.1	6.4	6.4	3.5		3.7		
				Bottom	10	24.0	24.1	8.2	8.2	33.4	33.4	93.0	92.8	6.5	6.5		9.1	9.0	
					24.1	24.1	8.2	8.2	33.4	33.4	92.6	92.8	6.4	6.5	8.8		9.0		
WSD15	Cloudy	Rough	12:11	Surface	1	24.3	24.3	8.1	8.2	33.2	33.3	91.2	90.5	6.3	6.3	6.3	2.3	2.4	2.7
					24.3	24.3	8.2	8.2	33.3	33.3	89.7	90.5	6.2	6.3	2.5		2.4		
				Middle	7	24.3	24.3	8.1	8.2	33.3	33.3	89.6	89.5	6.2	6.2		2.6	2.5	
					24.3	24.3	8.2	8.2	33.3	33.3	89.4	89.5	6.2	6.2	2.4		2.5		
				Bottom	13	24.3	24.3	8.2	8.2	33.3	33.3	89.3	89.2	6.2	6.2		3.0	3.1	
					24.3	24.3	8.2	8.2	33.3	33.3	89.0	89.2	6.2	6.2	3.1		3.1		
WSD17	Cloudy	Rough	12:00	Surface	1	24.3	24.3	8.1	8.2	33.2	33.2	92.1	90.4	6.4	6.3	6.3	2.3	2.5	3.0
					24.3	24.3	8.2	8.2	33.2	33.2	88.6	90.4	6.1	6.3	2.6		2.5		
				Middle	5.5	24.3	24.3	8.1	8.2	33.2	33.3	89.1	89.0	6.2	6.2		3.4	3.2	
					24.3	24.3	8.2	8.2	33.3	33.3	88.9	89.0	6.2	6.2	2.9		3.2		
				Bottom	10	24.2	24.2	8.2	8.2	33.3	33.3	89.6	89.6	6.2	6.2		3.3	3.4	
					24.2	24.2	8.2	8.2	33.3	33.3	89.5	89.6	6.2	6.2	3.4		3.4		

Remarks: *DA: Depth-Averaged

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Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity (NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
WSD18	Cloudy	Rough	12:18	Surface	1	24.5	24.6	8.0	8.0	32.4	32.4	78.7	77.7	5.5	5.4	5.4	5.3	5.1	6.0
					24.6	8.0		32.4		76.6		5.3		4.9					
				Middle	5.5	24.6	24.6	8.0	8.0	32.4	32.4	77.5	77.2	5.4	5.4		5.5	5.5	
					24.6	8.0		32.4		76.9		5.3		5.5					
				Bottom	10	24.6	24.6	8.0	8.0	32.4	32.4	77.0	76.7	5.3	5.3		7.0	7.4	
					24.6	8.0		32.4		76.4		5.3		7.8					
WSD19	Cloudy	Rough	12:28	Surface	1	24.5	24.6	8.0	8.0	32.3	32.3	77.1	76.5	5.4	5.4	5.4	7.0	7.0	7.8
					24.6	8.0		32.3		75.8		5.3		6.9					
				Middle	7	24.5	24.5	8.0	8.0	32.4	32.4	77.7	77.4	5.4	5.4		8.3	8.1	
					24.5	8.0		32.4		77.1		5.3		7.9					
				Bottom	13	24.5	24.5	8.0	8.1	32.5	32.6	80.5	80.5	5.6	5.6		8.0	8.2	
					24.5	8.1		32.6		80.4		5.6		8.4					
WSD20	Cloudy	Rough	13:02	Surface	1	24.4	24.4	8.0	8.0	32.3	32.3	81.5	81.5	5.7	5.7	5.8	3.3	3.3	4.1
					24.4	8.0		32.3		81.4		5.7		3.2					
				Middle	5.5	24.5	24.5	8.1	8.1	32.5	32.5	84.7	84.6	5.9	5.9		4.1	4.1	
					24.5	8.1		32.5		84.5		5.9		4.0					
				Bottom	10	24.5	24.5	8.1	8.1	32.7	32.8	87.1	86.9	6.0	6.0		4.8	5.0	
					24.5	8.1		32.8		86.6		6.0		5.1					
WSD21	Cloudy	Rough	12:17	Surface	1	24.3	24.3	8.1	8.2	33.9	33.9	94.1	94.0	6.5	6.5	6.5	3.6	3.6	3.6
					24.3	8.2		33.9		93.8		6.5		3.6					
				Middle	3.5	24.3	24.3	8.2	8.3	33.9	33.9	93.7	93.6	6.5	6.5		3.6	3.5	
					24.3	8.3		33.9		93.5		6.5		3.3					
				Bottom	6	24.3	24.3	8.3	8.3	33.9	33.9	93.5	93.4	6.5	6.5		3.7	3.6	
					24.3	8.3		33.9		93.2		6.4		3.4					
WSD22	Cloudy	Rough	12:06	Surface	1	24.4	24.4	8.1	8.1	32.6	32.6	82.7	82.5	5.7	5.7	5.8	3.6	3.7	4.1
					24.4	8.1		32.6		82.3		5.7		3.8					
				Middle	4.5	24.4	24.4	8.1	8.1	32.7	32.7	85.3	84.0	5.9	5.8		3.9	4.0	
					24.4	8.1		32.6		82.6		5.7		4.1					
				Bottom	8	24.3	24.3	8.1	8.1	32.7	32.8	86.1	86.1	6.0	6.0		4.4	4.6	
					24.3	8.1		32.8		86.0		6.0		4.7					
WSD4	Cloudy	Rough	12:53	Surface	1	24.7	24.7	7.9	7.9	31.9	31.9	78.5	78.2	5.4	5.4	5.4	4.5	4.6	5.6
					24.7	7.9		31.8		77.8		5.4		4.7					
				Middle	4.5	24.7	24.7	7.9	7.9	31.9	31.9	77.4	77.5	5.4	5.4		5.6	5.3	
					24.7	7.9		31.9		77.6		5.4		5.0					
				Bottom	8	24.7	24.7	7.9	7.9	31.9	31.9	76.9	76.7	5.3	5.3		7.5	7.0	
					24.7	7.9		31.9		76.5		5.3		6.5					

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 19 November 2017 (Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
WSD5	Cloudy	Rough	13:10	Surface	1	24.7	24.7	7.9	7.9	31.9	31.9	79.0	78.1	5.5	5.5	5.5	6.8	6.6	7.2
						24.7	24.7	7.9	7.9	31.9	31.9	77.2	77.0	5.4	5.4		6.3	7.1	
				Middle	10	24.7	24.7	7.9	7.9	31.9	31.9	76.8	77.0	5.3	5.4		7.4	7.1	
				Bottom	19	24.7	24.7	7.9	7.9	31.9	31.9	76.8	76.8	5.3	5.3	5.3	7.9	7.8	
						24.7	24.7	7.9	7.9	31.9	31.9	76.7	76.8	5.3	5.3		7.7	7.8	
WSD6	Cloudy	Rough	13:48	Surface	1	24.8	24.8	7.9	7.9	32.2	32.3	68.0	67.4	4.7	4.7	4.7	5.6	5.4	7.2
						24.7	24.8	7.9	7.9	32.3	32.3	66.8	67.4	4.6	4.7		5.2	5.4	
				Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	
				Bottom	4.6	24.7	24.7	7.9	7.9	32.3	32.3	66.2	66.3	4.6	4.6	4.6	8.8	8.9	
						24.7	24.7	7.9	7.9	32.3	32.3	66.4	66.3	4.6	4.6		8.9	8.9	
WSD7	Cloudy	Rough	13:58	Surface	1	24.6	24.6	8.0	8.0	32.3	32.3	71.3	71.3	4.9	4.9	5.1	5.2	5.1	6.8
						24.6	24.6	8.0	8.0	32.3	32.3	71.2	71.3	4.9	4.9		5.0	5.1	
				Middle	5	24.5	24.5	8.0	8.0	32.4	32.4	75.6	75.5	5.2	5.2		6.8	7.0	
						24.5	24.5	8.0	8.0	32.4	32.4	75.4	75.5	5.2	5.2		7.1	7.0	
				Bottom	9	24.5	24.5	8.0	8.0	32.4	32.4	75.9	75.9	5.3	5.3	5.3	8.3	8.3	
						24.5	24.5	8.0	8.0	32.4	32.4	75.8	75.9	5.3	5.3		8.2	8.3	
WSD9	Cloudy	Rough	11:33	Surface	1	24.4	24.4	8.0	8.1	32.6	32.6	86.6	86.4	6.0	6.0	6.0	3.3	3.3	3.8
						24.4	24.4	8.1	8.1	32.6	32.6	86.1	86.4	6.0	6.0		3.2	3.3	
				Middle	5.5	24.3	24.4	8.1	8.1	32.7	32.7	87.0	86.8	6.0	6.0		4.1	4.1	
						24.4	24.4	8.1	8.1	32.7	32.7	86.6	86.8	6.0	6.0		4.1	4.1	
				Bottom	10	24.4	24.4	8.1	8.1	32.7	32.7	86.4	86.3	6.0	6.0	6.0	3.9	3.9	
						24.4	24.4	8.1	8.1	32.7	32.7	86.2	86.3	6.0	6.0		3.8	3.9	

Remarks: *DA: Depth-Averaged

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DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 19 November 2017 (Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity (NTU)					
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*		
B10	Cloudy	Rough	17:41	Surface	1	24.6 24.6	24.6	7.9 7.9	7.9	31.7 31.7	31.7	83.4 82.7	83.1	5.8 5.8	5.8	5.8	3.8 4.2	4.0	4.3		
				Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-
				Bottom	3	24.6 24.6	24.6	7.9 7.9	7.9	31.7 31.7	31.7	83.0 82.6	82.8	5.8 5.7	5.8		5.8	4.2 4.8		4.5	
B11	Cloudy	Rough	17:47	Surface	-	-	-	-	-	-	-	-	-	-	-	5.8	-	-	5.1		
				Middle	1.6	24.6 24.6	24.6	7.9 7.9	7.9	31.7 31.7	31.7	83.6 83.1	83.4	5.8 5.8	5.8		5.5 4.7	5.1			
				Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	
B12	Cloudy	Rough	17:50	Surface	1	24.6 24.5	24.6	7.9 7.9	7.9	31.8 31.7	31.8	83.4 83.4	83.4	5.8 5.8	5.8	5.8	4.6 3.9	4.3	4.4		
				Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	
				Bottom	3.1	24.6 24.6	24.6	7.9 7.9	7.9	31.8 31.8	31.8	83.1 82.6	82.9	5.8 5.7	5.8		5.8	4.4 4.5		4.5	
B13	Cloudy	Rough	17:54	Surface	1	24.5 24.6	24.6	7.9 7.9	7.9	31.7 31.7	31.7	82.8 81.1	82.0	5.8 5.6	5.7	5.7	4.9 4.9	4.9	5.4		
				Middle	3	24.6 24.6	24.6	7.9 7.9	7.9	31.7 31.7	31.7	82.1 81.6	81.9	5.7 5.7	5.7		5.4 5.5	5.5			
				Bottom	5	24.6 24.6	24.6	7.9 7.9	7.9	31.8 31.8	31.8	82.0 81.8	81.9	5.7 5.7	5.7		5.7	5.8 5.6		5.7	
B14	Cloudy	Rough	17:11	Surface	-	-	-	-	-	-	-	-	-	-	-	5.8	-	-	7.9		
				Middle	1.1	24.2 24.2	24.2	7.9 7.9	7.9	31.9 31.9	31.9	82.4 82.6	82.5	5.8 5.8	5.8		8.1 7.7	7.9			
				Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-			
B24	Cloudy	Rough	18:26	Surface	1	23.9 24.0	24.0	8.1 8.1	8.1	33.5 33.5	33.5	96.8 96.6	96.7	6.7 6.7	6.7	6.7	4.5 4.7	4.6	5.4		
				Middle	4	24.0 24.0	24.0	8.1 8.1	8.1	33.5 33.5	33.5	96.6 96.6	96.6	6.7 6.7	6.7		5.4 5.2	5.3			
				Bottom	7	24.0 24.0	24.0	8.1 8.1	8.1	33.5 33.5	33.5	96.6 97.0	96.8	6.7 6.8	6.8		6.8	5.9 6.6		6.3	
B25	Cloudy	Rough	18:15	Surface	1	23.9 23.9	23.9	8.1 8.1	8.1	33.5 33.5	33.5	100.1 100.1	100.1	7.0 7.0	7.0	7.0	6.8 7.0	6.9	7.3		
				Middle	-	-	-	-	-	-	-	-	-	-	-		-	-			
				Bottom	4.6	23.9 23.9	23.9	8.1 8.1	8.1	33.5 33.5	33.5	99.9 99.9	99.9	7.0 7.0	7.0		7.0	7.1 8.3		7.7	
B26	Cloudy	Rough	17:46	Surface	1	23.9 23.9	23.9	8.1 8.2	8.2	33.5 33.5	33.5	98.0 97.7	97.9	6.8 6.8	6.8	6.8	6.1 6.0	6.1	6.3		
				Middle	6	23.9 23.9	23.9	8.2 8.3	8.3	33.5 33.5	33.5	97.4 97.6	97.5	6.8 6.8	6.8		6.0 6.6	6.3			
				Bottom	11	23.9 23.9	23.9	8.2 8.3	8.3	33.5 33.5	33.5	96.9 97.2	97.1	6.7 6.8	6.8		6.8	6.0 6.9		6.5	

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 19 November 2017 (Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity (NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
B30	Cloudy	Rough	17:06	Surface	-	-	-	-	-	-	-	-	-	-	-	6.7	-	-	4.2
				Middle	1.3	23.8 23.8	23.8	8.4 8.4	8.4	33.9 33.9	33.9	97.0 96.5	96.8	6.7 6.7	6.7		4.1 4.2	4.2	
				Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-	
B31	Cloudy	Rough	17:15	Surface	-	-	-	-	-	-	-	-	-	-	6.8	-	-	3.2	
				Middle	1.2	23.9 24.0	24.0	8.3 8.3	8.3	33.9 33.9	33.9	97.7 97.3	97.5	6.8 6.8		6.8	3.4 3.0		3.2
				Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-
B32	Cloudy	Rough	17:21	Surface	-	-	-	-	-	-	-	-	-	-	6.7	-	-	2.6	
				Middle	1.2	24.1 24.1	24.1	8.1 8.1	8.1	33.9 33.9	33.9	96.8 96.3	96.6	6.7 6.7		6.7	2.5 2.6		2.6
				Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-
B33	Cloudy	Rough	17:25	Surface	1	24.2 24.2	24.2	8.2 8.1	8.2	33.9 33.9	33.9	94.6 94.1	94.4	6.5 6.5	6.5	6.6	3.5 3.6	3.6	3.2
				Middle	3.5	24.1 24.1	24.1	8.2 8.1	8.2	33.9 33.9	33.9	95.4 94.9	95.2	6.6 6.6	6.6		2.7 2.7	2.7	
				Bottom	6	24.1 24.1	24.1	8.2 8.3	8.3	33.9 33.9	33.9	95.4 95.2	95.3	6.6 6.6	6.6		3.1 3.3	3.2	
B34	Cloudy	Rough	17:32	Surface	1	24.2 24.2	24.2	8.1 8.2	8.2	33.9 33.9	33.9	94.7 94.5	94.6	6.5 6.5	6.5	6.5	3.9 3.5	3.7	3.6
				Middle	3	24.2 24.2	24.2	8.1 8.2	8.2	33.9 33.9	33.9	94.4 94.2	94.3	6.5 6.5	6.5		3.6 3.6	3.6	
				Bottom	5	24.2 24.2	24.2	8.2 8.2	8.2	33.9 33.9	33.9	93.9 93.8	93.9	6.5 6.5	6.5		3.7 3.3	3.5	
B35	Cloudy	Rough	17:40	Surface	1	24.3 24.3	24.3	8.1 8.2	8.2	33.9 33.9	33.9	97.0 96.2	96.6	6.7 6.6	6.7	6.7	2.7 2.6	2.7	3.9
				Middle	4.5	24.3 24.3	24.3	8.1 8.2	8.2	33.9 33.9	33.9	96.6 95.7	96.2	6.7 6.6	6.7		2.9 3.1	3.0	
				Bottom	8	24.3 24.3	24.3	8.1 8.2	8.2	33.9 33.9	33.9	95.2 94.7	95.0	6.6 6.5	6.6		6.3 5.6	6.0	
B7	Cloudy	Rough	17:26	Surface	-	-	-	-	-	-	-	-	-	-	5.9	-	-	4.0	
				Middle	1	24.6 24.6	24.6	7.9 7.9	7.9	31.3 31.3	31.3	84.2 84.3	84.3	5.9 5.9		5.9	3.9 4.1		4.0
				Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-
B8	Cloudy	Rough	17:31	Surface	1	24.6 24.6	24.6	7.9 7.9	7.9	31.7 31.7	31.7	85.2 82.8	84.0	5.9 5.8	5.9	5.9	5.4 5.5	5.5	6.3
				Middle	5.5	24.6 24.6	24.6	7.9 7.9	7.9	31.7 31.7	31.7	83.1 82.4	82.8	5.8 5.7	5.8		6.1 6.8	6.5	
				Bottom	10	24.6 24.6	24.6	7.9 7.9	7.9	31.7 31.7	31.7	82.4 82.7	82.6	5.7 5.7	5.7		6.9 6.9	6.9	

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 19 November 2017 (Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity (NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
B9	Cloudy	Rough	17:38	Surface	1	24.6	24.6	7.9	7.9	31.8	31.8	83.5	83.1	5.8	5.8	5.8	4.9	5.1	5.3
						24.6	24.6	7.9	7.9	31.8	31.8	82.7	82.9	5.8	5.8		5.5	5.3	
				Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Bottom	4.1	24.6	24.6	7.9	7.9	31.8	31.8	83.0	82.9	5.8	5.8	5.8	5.5	5.3	5.4
EM1	Cloudy	Rough	17:21	Surface	1	24.2	24.2	8.2	8.2	33.3	33.3	92.4	92.0	6.4	6.4	6.5	1.5	1.5	2.6
						24.2	24.2	8.2	8.2	33.3	33.3	91.6	92.4	6.4	6.4		1.5	1.5	
				Middle	10	24.1	24.1	8.2	8.2	33.4	33.4	92.9	92.4	6.5	6.5	2.1	2.0		
				Bottom	19	24.0	24.0	8.2	8.2	33.4	33.4	92.8	92.8	6.5	6.5	6.5	3.8	4.3	
						24.0	24.0	8.2	8.2	33.4	33.4	92.8	92.8	6.5	6.5	6.5	4.7	4.3	
EM2	Cloudy	Rough	17:30	Surface	1	24.0	24.0	8.2	8.2	33.4	33.4	96.2	95.2	6.7	6.6	6.6	1.8	1.8	4.2
						24.0	24.0	8.2	8.2	33.4	33.4	94.1	95.2	6.5	6.6		1.8	1.8	
				Middle	10	24.0	24.0	8.2	8.2	33.4	33.4	94.3	94.2	6.6	6.6	2.7	2.8		
				Bottom	19	24.0	24.0	8.2	8.2	33.4	33.4	93.3	93.3	6.5	6.5	6.5	7.6	8.1	
						24.0	24.0	8.2	8.2	33.4	33.4	93.3	93.3	6.5	6.5	6.5	8.6	8.1	
EM3	Cloudy	Rough	17:59	Surface	1	23.9	23.9	8.1	8.2	33.5	33.5	97.7	97.7	6.8	6.8	6.8	9.3	8.8	11.9
						23.9	23.9	8.2	8.2	33.5	33.5	97.6	97.7	6.8	6.8		8.3	8.8	
				Middle	12.5	23.9	23.9	8.1	8.2	33.5	33.5	96.2	96.1	6.7	6.7	11.5	11.8		
				Bottom	24	23.9	23.9	8.1	8.2	33.5	33.5	95.9	95.3	6.6	6.6	6.6	12.0	15.1	
						23.9	23.9	8.2	8.2	33.5	33.5	95.3	95.3	6.6	6.6	6.6	15.1	15.1	
						23.9	23.9	8.2	8.2	33.5	33.5	95.2	95.3	6.6	6.6	6.6	15.1	15.1	
F1	Cloudy	Rough	17:45	Surface	1	23.9	23.9	8.2	8.2	33.4	33.4	96.8	95.4	6.8	6.7	6.7	3.6	3.5	3.6
						23.8	23.9	8.2	8.2	33.4	33.4	93.9	95.4	6.6	6.7		3.4	3.5	
				Middle	5	23.9	23.9	8.2	8.2	33.4	33.4	93.6	93.8	6.5	6.6	3.5	3.5		
				Bottom	9	23.9	23.9	8.2	8.2	33.4	33.4	93.9	93.1	6.5	6.5	6.5	3.5	3.7	
						23.9	23.9	8.2	8.2	33.4	33.4	93.3	93.1	6.5	6.5	6.5	3.9	3.7	
F4	Cloudy	Rough	18:09	Surface	1	24.4	24.4	8.2	8.2	33.8	33.8	92.2	91.9	6.4	6.4	6.4	3.0	3.0	3.9
						24.4	24.4	8.1	8.2	33.8	33.8	91.6	91.9	6.3	6.4		3.0	3.0	
				Middle	5	24.4	24.4	8.2	8.2	33.8	33.8	92.0	91.9	6.3	6.3	3.5	3.6		
				Bottom	9	24.4	24.4	8.1	8.2	33.8	33.8	91.8	91.6	6.3	6.3	6.3	3.6	3.6	
						24.4	24.4	8.2	8.2	33.8	33.8	91.7	91.6	6.3	6.3	6.3	5.2	5.1	
						24.4	24.4	8.1	8.2	33.8	33.8	91.5	91.6	6.3	6.3	6.3	4.9	5.1	
F5	Cloudy	Rough	17:18	Surface	1	24.5	24.6	7.9	7.9	30.8	30.8	85.1	84.6	6.0	6.0	6.0	3.2	3.4	5.5
						24.6	24.6	7.9	7.9	30.8	30.8	84.1	84.6	5.9	6.0		3.6	3.4	
				Middle	4	24.6	24.6	7.9	7.9	31.0	31.0	84.9	84.8	5.9	5.9	5.4	5.6		
				Bottom	7	24.6	24.6	7.9	7.9	31.0	31.0	84.6	84.8	5.9	5.9	5.9	5.7	5.6	
						24.6	24.6	7.9	7.9	31.2	31.2	84.1	84.1	5.9	5.9	5.9	7.0	7.6	
						24.6	24.6	7.9	7.9	31.2	31.2	84.1	84.1	5.9	5.9	5.9	8.1	7.6	
JM3	Cloudy	Rough	16:58	Surface	1	24.1	24.1	8.1	8.2	33.3	33.3	92.4	92.1	6.4	6.4	6.4	1.6	1.6	4.0
						24.1	24.1	8.2	8.2	33.3	33.3	91.7	92.1	6.4	6.4		1.6	1.6	
				Middle	6	24.1	24.1	8.1	8.2	33.3	33.3	91.9	91.7	6.4	6.4	2.1	2.0		
				Bottom	11	24.1	24.1	8.2	8.2	33.3	33.3	91.5	91.7	6.4	6.4	6.4	1.9	2.0	
						24.0	24.0	8.2	8.2	33.4	33.4	92.2	92.3	6.4	6.4	6.4	7.4	8.3	
						24.0	24.0	8.2	8.2	33.4	33.4	92.3	92.3	6.4	6.4	6.4	9.1	8.3	

Remarks: *DA: Depth-Averaged

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DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 19 November 2017 (Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity (NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
MM13	Cloudy	Rough	16:44	Surface	1	24.0	24.0	8.3	8.3	33.5	33.5	95.9	95.9	6.7	6.7	6.7	4.3	4.3	7.4
						24.0	24.0	8.3	8.3	33.5	33.5	95.9	95.9	6.7	6.7		4.3	4.3	
				Middle	12.5	24.0	24.0	8.3	8.3	33.5	33.5	95.0	95.0	6.6	6.6		8.0	8.0	
				Bottom	24	24.0	24.0	8.3	8.3	33.5	33.5	94.5	94.5	6.6	6.6	6.6	10.0	10.0	
						24.0	24.0	8.3	8.3	33.5	33.5	94.5	94.5	6.6	6.6		10.0	10.0	
SM12	Cloudy	Rough	17:09	Surface	1	24.5	24.5	8.1	8.1	32.6	32.6	89.0	88.8	6.2	6.2	6.2	12.6	11.8	14.6
						24.5	24.5	8.1	8.1	32.6	32.6	88.5	88.4	6.1	6.1		10.9	11.8	
				Middle	4	24.5	24.5	8.1	8.1	32.6	32.6	88.4	88.4	6.1	6.1		12.8	12.9	
				Bottom	7	24.5	24.5	8.1	8.1	32.8	32.9	87.7	87.8	6.1	6.1	6.1	18.0	19.0	
						24.5	24.5	8.1	8.1	32.9	32.9	87.8	87.8	6.1	6.1		20.0	19.0	
SM17	Cloudy	Rough	17:35	Surface	1	24.3	24.3	8.1	8.1	33.1	33.1	92.4	92.5	6.4	6.4	6.4	5.5	5.5	10.5
						24.2	24.3	8.1	8.1	33.1	33.1	92.6	92.5	6.4	6.4		5.4	5.5	
				Middle	8	24.2	24.2	8.1	8.1	33.3	33.3	92.3	92.6	6.4	6.4		7.6	8.0	
				Bottom	15	24.0	24.0	8.2	8.2	33.4	33.4	93.9	93.8	6.5	6.5	6.5	17.4	18.1	
						24.0	24.0	8.2	8.2	33.4	33.4	93.7	93.8	6.5	6.5		18.8	18.1	
SM2	Cloudy	Rough	16:55	Surface	1	24.1	24.1	7.9	7.9	33.9	33.9	95.8	95.6	6.6	6.6	6.6	2.6	2.5	3.5
						24.1	24.1	8.0	8.1	33.9	33.9	95.4	95.6	6.6	6.6		2.4	2.5	
				Middle	7	24.1	24.1	8.1	8.1	33.9	33.9	95.2	95.3	6.6	6.6		3.7	3.5	
				Bottom	13	24.0	24.0	8.1	8.2	33.9	33.9	95.0	94.9	6.6	6.6	6.6	4.4	4.6	
						24.0	24.0	8.2	8.2	33.9	33.9	94.7	94.9	6.6	6.6		4.7	4.6	
SM3	Cloudy	Rough	18:00	Surface	1	24.3	24.4	8.2	8.2	33.9	33.9	93.8	93.5	6.5	6.5	6.5	2.2	2.3	2.8
						24.4	24.4	8.2	8.2	33.9	33.9	93.1	93.5	6.4	6.5		2.4	2.3	
				Middle	16	24.3	24.3	8.2	8.2	33.9	33.9	92.4	92.3	6.4	6.4		2.8	2.9	
				Bottom	31	24.3	24.3	8.2	8.2	33.9	33.9	92.3	92.2	6.4	6.4	6.4	3.0	3.2	
						24.3	24.3	8.2	8.2	33.9	33.9	92.1	92.2	6.4	6.4		3.3	3.2	
SM6	Cloudy	Rough	18:10	Surface	1	24.1	24.1	8.2	8.2	33.4	33.4	93.9	93.9	6.5	6.5	6.5	5.0	5.0	12.8
						24.1	24.1	8.2	8.2	33.4	33.4	93.9	93.9	6.5	6.5		5.0	5.0	
				Middle	7.5	24.1	24.1	8.2	8.2	33.4	33.4	93.4	93.4	6.5	6.5		5.2	5.5	
				Bottom	14	24.0	24.0	8.2	8.2	33.4	33.4	92.3	92.5	6.4	6.4	6.4	28.4	27.9	
						24.0	24.0	8.2	8.2	33.4	33.4	92.6	92.5	6.4	6.4		27.3	27.9	
VM1	Cloudy	Rough	18:24	Surface	1	24.2	24.2	8.2	8.2	33.2	33.3	92.6	91.5	6.4	6.4	6.4	2.9	3.0	4.2
						24.2	24.2	8.2	8.2	33.3	33.3	90.4	89.7	6.3	6.3		3.0	3.0	
				Middle	20	24.1	24.2	8.2	8.2	33.3	33.3	90.0	89.7	6.3	6.3		4.5	4.6	
				Bottom	39	24.1	24.2	8.2	8.2	33.3	33.3	90.0	89.4	6.3	6.3	6.3	5.3	4.9	
						24.2	24.2	8.2	8.2	33.3	33.3	88.8	89.4	6.2	6.3		4.5	4.9	
VM12	Cloudy	Rough	18:45	Surface	1	24.6	24.6	8.0	8.0	32.6	32.6	76.2	75.7	5.3	5.3	5.3	5.9	6.3	8.8
						24.6	24.6	8.0	8.0	32.6	32.6	75.1	75.7	5.2	5.3		6.7	6.3	
				Middle	10	24.6	24.6	8.0	8.0	32.6	32.6	75.1	75.0	5.2	5.2		8.0	8.4	
				Bottom	19	24.6	24.6	8.0	8.0	32.7	32.7	74.9	74.9	5.2	5.2	5.2	11.5	11.6	
						24.6	24.6	8.0	8.0	32.7	32.7	74.8	74.9	5.2	5.2		11.7	11.6	

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Water Quality Monitoring Results on 19 November 2017 (Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity (NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
VM14	Cloudy	Rough	18:09	Surface	1	24.6	24.7	7.9	7.9	31.7	31.7	79.8	79.0	5.5	5.5	5.5	6.1	6.2	7.9
						24.7		7.9		31.7		78.1		5.4			6.3		
				Middle	6.5	24.7	24.7	7.9	7.9	31.7	31.8	78.6	78.4	5.5	5.5		7.2	6.7	
				24.7		7.9		31.8		78.1		5.4		6.1					
				Bottom	12	24.7	24.7	7.9	7.9	31.8	31.8	78.2	78.1	5.4	5.4	5.4	10.2	10.8	
						24.7		7.9		31.8		78.0		5.4		5.4	11.4		
VM15	Cloudy	Rough	19:08	Surface	1	24.4	24.4	8.0	8.0	32.5	32.5	80.5	79.9	5.6	5.6	5.6	3.7	3.5	5.8
						24.4		8.0		32.4		79.3		5.5			3.3		
				Middle	6.5	24.5	24.5	8.0	8.0	32.5	32.5	79.5	79.3	5.5	5.5		6.7	6.6	
				24.4		8.0		32.5		79.1		5.5		6.5					
				Bottom	12	24.5	24.5	8.0	8.0	32.5	32.5	78.8	78.7	5.5	5.5	5.5	7.0	7.3	
						24.4		8.0		32.5		78.5		5.5		5.5	7.6		
VM2	Cloudy	Rough	18:49	Surface	1	24.2	24.2	8.2	8.2	33.2	33.2	91.1	90.2	6.3	6.3	6.3	2.1	2.1	2.7
						24.2		8.2		33.2		89.3		6.2			2.0		
				Middle	6.5	24.2	24.2	8.2	8.2	33.2	33.2	89.4	89.2	6.2	6.2		3.0	2.8	
				24.2		8.2		33.2		89.0		6.2		2.6					
				Bottom	12	24.2	24.2	8.2	8.2	33.2	33.2	88.7	88.7	6.2	6.2	6.2	3.3	3.3	
						24.2		8.2		33.2		88.7		6.2		6.2	3.2		
VM4	Cloudy	Rough	17:05	Surface	1	24.4	24.5	8.0	8.0	32.5	32.5	80.1	79.7	5.6	5.6	5.6	3.4	3.5	4.0
						24.5		8.0		32.5		79.2		5.5			3.6		
				Middle	6.5	24.5	24.5	8.0	8.0	32.5	32.5	79.5	79.6	5.5	5.5		3.9	4.1	
				24.5		8.0		32.5		79.6		5.5		4.2					
				Bottom	12	24.4	24.4	8.0	8.0	32.5	32.5	79.7	79.8	5.5	5.5	5.5	4.4	4.3	
						24.4		8.0		32.5		79.9		5.5		5.5	4.2		
VM5	Cloudy	Rough	17:18	Surface	1	24.4	24.4	8.0	8.0	32.5	32.5	81.8	81.8	5.7	5.7	5.7	4.1	4.1	4.7
						24.4		8.0		32.5		81.7		5.7			4.1		
				Middle	6.5	24.4	24.4	8.0	8.0	32.5	32.5	81.3	81.2	5.6	5.6		4.3	4.3	
				24.4		8.0		32.5		81.0		5.6		4.2					
				Bottom	12	24.4	24.4	8.0	8.0	32.5	32.5	80.4	80.4	5.6	5.6	5.6	5.7	5.7	
						24.4		8.0		32.5		80.3		5.6		5.6	5.7		
VM7	Cloudy	Rough	18:06	Surface	1	24.5	24.5	8.0	8.0	32.1	32.2	72.0	73.3	5.0	5.1	5.3	3.9	3.7	5.1
						24.5		8.0		32.2		74.6		5.2			3.5		
				Middle	6	24.5	24.5	8.0	8.0	32.4	32.4	77.5	77.1	5.4	5.4		4.5	4.2	
				24.5		8.0		32.3		76.7		5.3		3.9					
				Bottom	11	24.5	24.5	8.1	8.1	32.5	32.5	79.4	79.3	5.5	5.5	5.5	7.1	7.3	
						24.5		8.1		32.5		79.1		5.5		5.5	7.4		
VM8	Cloudy	Rough	18:17	Surface	1	24.5	24.5	8.0	8.0	32.2	32.2	74.2	74.0	5.2	5.2	5.3	4.1	4.2	5.7
						24.5		8.0		32.2		73.7		5.1			4.2		
				Middle	6.5	24.6	24.6	8.0	8.0	32.4	32.4	78.3	78.0	5.4	5.4		4.1	4.3	
				24.6		8.0		32.4		77.6		5.4		4.5					
				Bottom	12	24.5	24.5	8.1	8.1	32.6	32.6	80.4	80.2	5.6	5.6	5.6	8.8	8.6	
						24.5		8.1		32.6		80.0		5.5		5.6	8.3		
WM1	Cloudy	Rough	18:19	Surface	1	24.4	24.4	7.9	8.0	33.8	33.8	92.5	92.1	6.4	6.4	6.4	3.7	3.6	4.3
						24.4		8.0		33.8		91.6		6.3			3.4		
				Middle	16.5	24.4	24.4	8.0	8.1	33.8	33.9	91.7	91.7	6.3	6.3		2.9	2.9	
				24.4		8.1		33.9		91.7		6.3		2.8					
				Bottom	32	24.4	24.4	8.1	8.1	33.9	33.9	92.4	92.3	6.4	6.4	6.4	6.6	6.5	
						24.4		8.1		33.9		92.2		6.4		6.4	6.4		

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Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity (NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
WM4	Cloudy	Rough	17:03	Surface	1	24.6	24.6	7.9	7.9	31.8	31.8	83.6	83.6	5.8	5.8	5.8	4.1	4.0	8.0
						24.6		7.9		31.8		83.5		5.8			3.9		
				Middle	15	24.7	24.7	7.9	7.9	32.0	32.0	83.4	83.3	5.8	5.8		5.0	5.3	
				24.7		7.9		32.0		83.2		5.8		5.5		14.6	14.6		
				Bottom	29	24.7	24.7	7.9	7.9	32.0	32.0	83.2	83.3	5.8	5.8	5.8	14.6	14.6	
						24.7		7.9		32.0		83.3		5.8					
WM2	Cloudy	Rough	18:46	Surface	1	24.5	24.5	8.1	8.1	32.2	32.2	84.5	84.3	5.9	5.9	5.9	2.4	2.4	4.1
						24.4		8.1		32.1		84.0		5.8			2.4		
				Middle	8	24.5	24.5	8.1	8.1	32.3	32.3	83.3	83.5	5.8	5.8		2.4	2.5	
				Bottom	15	24.5	24.5	8.1	8.1	32.6	32.6	85.9	85.8	6.0	6.0	6.0	7.1	7.4	
						24.5		8.1		32.6		85.6		5.9			7.7	7.4	
WSD10	Cloudy	Rough	19:02	Surface	1	24.2	24.2	8.2	8.2	33.2	33.2	92.3	90.9	6.4	6.3	6.3	2.7	2.7	2.7
						24.2		8.2		33.2		89.5		6.2			2.6		
				Middle	5.5	24.2	24.2	8.2	8.2	33.2	33.2	89.5	89.3	6.2	6.2		2.7	2.6	
				Bottom	10	24.2	24.2	8.2	8.2	33.2	33.2	89.0	88.9	6.2	6.2	6.2	2.5	2.7	
						24.2		8.2		33.2		88.8		6.2			2.8	2.7	
WSD11	Cloudy	Rough	19:11	Surface	1	24.2	24.2	8.2	8.2	33.2	33.2	91.9	91.0	6.4	6.4	6.4	2.4	2.3	2.8
						24.2		8.2		33.2		90.1		6.3			2.2		
				Middle	8	24.2	24.2	8.2	8.2	33.3	33.3	90.2	90.1	6.3	6.3		2.9	2.9	
				Bottom	15	24.2	24.2	8.2	8.2	33.3	33.3	89.5	89.4	6.2	6.2	6.2	3.2	3.3	
						24.2		8.2		33.3		89.3		6.2			3.3	3.3	
WSD12	Cloudy	Rough	17:04	Surface	1	24.1	24.2	8.1	8.2	33.3	33.4	93.6	91.9	6.5	6.4	6.4	6.0	5.9	6.0
						24.3		8.2		33.4		90.1		6.2			5.8		
				Middle	4	24.1	24.2	8.2	8.2	33.4	33.4	91.2	90.7	6.3	6.3		6.5	6.2	
				Bottom	7	24.1	24.1	8.2	8.2	33.4	33.4	92.4	92.4	6.4	6.4	6.4	6.0	5.8	
						24.1		8.2		33.4		92.3		6.4			5.5	5.8	
WSD13	Cloudy	Rough	18:08	Surface	1	24.2	24.2	8.2	8.2	33.2	33.2	91.6	91.2	6.4	6.4	6.4	1.8	1.8	2.1
						24.2		8.2		33.2		90.8		6.3			1.8		
				Middle	5	24.2	24.2	8.2	8.2	33.2	33.2	90.8	90.7	6.3	6.3		2.0	2.0	
				Bottom	9	24.2	24.2	8.2	8.2	33.2	33.2	90.0	90.0	6.3	6.3	6.3	2.6	2.6	
						24.2		8.2		33.2		90.0		6.3			2.5	2.6	
WSD15	Cloudy	Rough	18:31	Surface	1	24.1	24.2	8.2	8.2	33.2	33.2	93.6	91.6	6.5	6.4	6.3	3.0	3.1	3.7
						24.2		8.2		33.2		89.5		6.2			3.1		
				Middle	7	24.2	24.2	8.2	8.2	33.2	33.2	89.2	89.2	6.2	6.2		3.5	3.4	
				Bottom	13	24.2	24.2	8.2	8.2	33.3	33.3	89.6	89.2	6.2	6.2	6.2	4.5	4.6	
						24.2		8.2		33.3		88.8		6.2			4.6	4.6	
WSD17	Cloudy	Rough	18:42	Surface	1	24.3	24.3	8.1	8.1	33.1	33.1	87.0	86.9	6.0	6.0	6.0	4.2	4.1	5.0
						24.3		8.1		33.1		86.7		6.0			3.9		
				Middle	5	24.3	24.3	8.1	8.1	33.1	33.1	86.6	86.5	6.0	6.0		4.6	4.5	
				Bottom	9	24.3	24.3	8.2	8.2	33.2	33.2	86.9	86.7	6.0	6.0	6.0	6.2	6.3	
						24.3		8.1		33.2		86.4		6.0			6.3	6.3	

Remarks: *DA: Depth-Averaged

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Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity (NTU)			
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	
WSD18	Cloudy	Rough	17:41	Surface	1	24.5	24.5	8.0	8.0	32.4	32.4	80.1	79.8	5.6	5.6	5.6	5.1	5.5	7.3	
					24.5	24.5	8.0	8.0	32.4	32.4	79.4	79.5	5.5	5.5	5.8		8.0			
				Middle	5.5	24.5	24.5	8.0	8.0	32.5	32.5	79.7	79.5	5.5	5.5		8.0	8.0		
					24.5	24.5	8.0	8.0	32.5	32.5	79.2	79.1	5.5	5.5	8.2		8.4			
				Bottom	10	24.5	24.5	8.0	8.0	32.5	32.5	79.3	79.1	5.5	5.5		5.5	8.6		8.4
					24.5	24.5	8.0	8.0	32.5	32.5	78.9	79.1	5.5	5.5	5.5		8.6	8.4		
WSD19	Cloudy	Rough	17:51	Surface	1	24.5	24.5	8.0	8.0	32.4	32.4	80.6	80.4	5.6	5.6	5.6	3.9	3.9	6.8	
					24.5	24.5	8.0	8.0	32.4	32.4	80.1	80.2	5.6	5.6	3.9		3.9			
				Middle	6.5	24.5	24.5	8.0	8.0	32.5	32.5	80.3	80.2	5.6	5.6		7.8	7.4		
					24.5	24.5	8.0	8.0	32.4	32.5	80.1	80.2	5.6	5.6	7.0		7.4			
				Bottom	12	24.5	24.5	8.0	8.0	32.5	32.5	80.2	80.0	5.6	5.6		5.6	9.0		9.2
					24.5	24.5	8.0	8.0	32.5	32.5	79.8	80.0	5.5	5.6	5.6		9.3	9.2		
WSD20	Cloudy	Rough	18:28	Surface	1	24.4	24.4	8.0	8.0	32.2	32.2	72.5	72.0	5.0	5.0	5.2	3.8	3.9	6.4	
					24.4	24.4	8.0	8.0	32.2	32.2	71.5	72.0	5.0	5.0	4.0		3.9			
				Middle	5.5	24.5	24.5	8.0	8.0	32.3	32.4	75.4	75.6	5.2	5.3		5.8	5.6		
					24.5	24.5	8.0	8.0	32.4	32.4	75.7	75.6	5.3	5.3	5.3		5.6			
				Bottom	10	24.5	24.5	8.1	8.1	32.6	32.6	80.9	80.4	5.6	5.6		5.6	9.8		9.8
					24.5	24.5	8.0	8.1	32.5	32.6	79.9	80.4	5.5	5.6	5.6		9.7	9.8		
WSD21	Cloudy	Rough	17:52	Surface	1	24.2	24.2	8.0	8.1	33.9	33.9	94.8	94.3	6.6	6.6	6.6	3.1	3.0	3.2	
					24.2	24.2	8.2	8.1	33.9	33.9	93.8	94.3	6.5	6.6	2.9		3.0			
				Middle	3.5	24.2	24.2	8.1	8.2	33.9	33.9	94.1	93.9	6.5	6.5		3.1	3.2		
					24.2	24.2	8.2	8.2	33.9	33.9	93.7	93.9	6.5	6.5	3.3		3.2			
				Bottom	6	24.2	24.2	8.2	8.2	33.9	33.9	93.7	93.7	6.5	6.5		6.5	3.3		3.4
					24.2	24.2	8.2	8.2	33.9	33.9	93.6	93.7	6.5	6.5	6.5		3.4	3.4		
WSD22	Cloudy	Rough	17:27	Surface	1	24.4	24.4	8.0	8.0	32.4	32.4	81.3	81.0	5.6	5.6	5.6	3.9	3.8	4.2	
					24.4	24.4	8.0	8.0	32.4	32.4	80.7	81.0	5.6	5.6	3.7		3.8			
				Middle	4.5	24.4	24.5	8.0	8.0	32.4	32.4	80.6	80.5	5.6	5.6		4.1	4.3		
					24.5	24.5	8.0	8.0	32.4	32.4	80.3	80.5	5.6	5.6	4.5		4.3			
				Bottom	8	24.4	24.5	8.0	8.0	32.5	32.5	80.3	80.2	5.6	5.6		5.6	4.4		4.5
					24.5	24.5	8.0	8.0	32.4	32.5	80.0	80.2	5.6	5.6	5.6		4.6	4.5		
WSD4	Cloudy	Rough	18:03	Surface	1	24.6	24.6	7.9	7.9	31.7	31.7	80.8	80.0	5.6	5.6	5.6	4.9	4.8	5.7	
					24.6	24.6	7.9	7.9	31.6	31.7	79.2	80.0	5.5	5.6	4.7		4.8			
				Middle	4.5	24.7	24.7	7.9	7.9	31.8	31.8	80.4	80.1	5.6	5.6		6.1	5.8		
					24.7	24.7	7.9	7.9	31.7	31.7	79.7	80.1	5.5	5.6	5.4		5.8			
				Bottom	8	24.7	24.7	7.9	7.9	31.8	31.8	79.9	79.9	5.5	5.5		5.5	6.5		6.4
					24.7	24.7	7.9	7.9	31.8	31.8	79.8	79.9	5.5	5.5	5.5		6.3	6.4		

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 19 November 2017 (Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
WSD5	Cloudy	Rough	18:18	Surface	1	24.7	24.7	7.9	7.9	31.9	31.9	78.7	77.7	5.5	5.4	5.4	6.6	6.9	10.0
						24.7	24.7	7.9	7.9	31.9	31.9	76.6	76.4	5.3	5.3		7.2	7.5	
				Middle	9.5	24.7	24.7	7.9	7.9	32.0	32.0	76.8	76.0	5.3	5.3		7.3	7.6	
				Bottom	18	24.7	24.7	7.9	7.9	32.1	32.1	74.9	74.7	5.2	5.2	5.2	16.3	15.7	
						24.7	24.7	7.9	7.9	32.1	32.1	74.5	74.7	5.2	5.2		15.0		
WSD6	Cloudy	Rough	19:19	Surface	1	24.6	24.6	7.9	7.9	32.3	32.3	67.4	67.1	4.7	4.7	4.7	6.5	6.4	7.0
						24.6	24.6	7.9	7.9	32.3	32.3	66.7	67.9	4.6	4.7		6.2	6.2	
				Middle	3	24.6	24.6	7.9	7.9	32.3	32.3	68.0	67.7	4.7	4.7		6.3	6.1	
				Bottom	5	24.6	24.6	8.0	8.0	32.4	32.4	71.5	71.4	5.0	5.0	5.0	8.0	8.5	
						24.6	24.6	8.0	8.0	32.4	32.4	71.2	71.4	4.9	5.0		9.0		
WSD7	Cloudy	Rough	19:30	Surface	1	24.4	24.5	8.0	8.0	32.4	32.4	76.1	76.0	5.3	5.3	5.4	4.2	4.4	5.7
						24.5	24.5	8.0	8.0	32.4	32.4	75.8	77.1	5.3	5.4		4.5	5.3	
				Middle	5	24.5	24.5	8.0	8.0	32.5	32.5	77.3	76.9	5.4	5.4		5.0	5.5	
				Bottom	9	24.5	24.5	8.0	8.0	32.5	32.5	77.4	77.1	5.4	5.4	5.4	7.3	7.4	
						24.5	24.5	8.0	8.0	32.5	32.5	76.8	77.1	5.3	5.4		7.5		
WSD9	Cloudy	Rough	16:53	Surface	1	24.3	24.3	8.0	8.1	32.6	32.6	82.2	82.2	5.7	5.7	5.9	2.6	2.9	3.4
						24.3	24.3	8.1	8.1	32.6	32.6	82.1	86.9	5.7	6.1		3.1	3.1	
				Middle	6	24.3	24.3	8.1	8.1	32.7	32.7	87.1	86.6	6.1	6.1		3.3	2.9	
				Bottom	11	24.3	24.3	8.1	8.1	32.7	32.8	87.1	87.0	6.0	6.1	6.1	4.4	4.3	
						24.3	24.3	8.1	8.1	32.8	32.8	86.9	87.0	6.0	6.1		4.1		

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 10 December 2017 (Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity (NTU)					
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*		
B10	Sunny	Moderate	17:53	Surface	1	21.6 21.6	21.6	8.2 8.2	8.2	33.8 33.8	33.8	90.3 89.4	89.9	6.5 6.5	6.5	6.5	3.5 3.3	3.4	3.4		
				Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-
				Bottom	3	21.6 21.6	21.6	8.2 8.2	8.2	33.8 33.8	33.8	89.5 89.0	89.3	6.5 6.4	6.5		6.5	3.1 3.7		3.4	
B11	Sunny	Moderate	17:58	Surface	-	-	-	-	-	-	-	-	-	-	-	6.6	-	-	2.8		
				Middle	1.1	21.6 21.6	21.6	8.2 8.2	8.2	33.8 33.8	33.8	92.0 90.2	91.1	6.7 6.5	6.6		2.9 2.7	2.8			
				Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	
B12	Sunny	Moderate	18:04	Surface	1	21.7 21.7	21.7	8.2 8.2	8.2	33.8 33.8	33.8	90.9 90.5	90.7	6.6 6.5	6.6	6.6	3.7 3.7	3.7	3.7		
				Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	
				Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	
B13	Sunny	Moderate	18:10	Surface	1	21.7 21.7	21.7	8.2 8.2	8.2	33.8 33.8	33.8	90.4 88.9	89.7	6.5 6.4	6.5	6.5	3.4 3.6	3.5	3.6		
				Middle	4	21.7 21.7	21.7	8.2 8.2	8.2	33.8 33.8	33.8	88.4 87.8	88.1	6.4 6.3	6.4		3.5 3.7	3.6			
				Bottom	7	21.7 21.7	21.7	8.2 8.2	8.2	33.8 33.8	33.8	87.7 87.4	87.6	6.3 6.3	6.3		3.8 3.7	3.8			
B14	Sunny	Moderate	17:19	Surface	-	-	-	-	-	-	-	-	-	-	-	6.8	-	-	4.5		
				Middle	1.2	21.6 21.6	21.6	8.2 8.2	8.2	33.8 33.8	33.8	93.7 92.5	93.1	6.8 6.7	6.8		4.7 4.3	4.5			
				Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-			
B24	Sunny	Moderate	18:20	Surface	1	21.4 21.4	21.4	8.1 8.1	8.1	34.5 34.5	34.5	100.3 100.3	100.3	7.3 7.3	7.3	7.3	1.7 1.7	1.7	1.7		
				Middle	4	21.3 21.3	21.3	8.1 8.2	8.2	34.5 34.5	34.5	98.9 100.1	99.5	7.2 7.3	7.3		1.7 1.6	1.7			
				Bottom	7	21.1 21.1	21.1	8.1 8.2	8.2	34.5 34.5	34.5	96.5 97.0	96.8	7.0 7.1	7.1		1.8 1.8	1.8			
B25	Sunny	Moderate	18:12	Surface	1	21.3 21.4	21.4	8.1 8.1	8.1	34.5 34.5	34.5	100.7 102.1	101.4	7.3 7.4	7.4	7.4	1.5 1.4	1.5	1.7		
				Middle	-	-	-	-	-	-	-	-	-	-	-		-	-			
				Bottom	4.3	21.2 21.2	21.2	8.1 8.1	8.1	34.5 34.5	34.5	97.6 97.1	97.4	7.1 7.1	7.1		1.8 1.8	1.8			
B26	Sunny	Moderate	17:54	Surface	1	21.3 21.3	21.3	8.2 8.2	8.2	34.5 34.5	34.5	101.8 101.8	101.8	7.4 7.4	7.4	7.4	1.8 1.8	1.8	2.0		
				Middle	5.5	21.2 21.2	21.2	8.2 8.2	8.2	34.5 34.5	34.5	100.9 100.4	100.7	7.3 7.3	7.3		1.7 1.8	1.8			
				Bottom	10	21.1 21.1	21.1	8.2 8.2	8.2	34.6 34.6	34.6	98.2 97.6	97.9	7.1 7.1	7.1		2.2 2.5	2.4			

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 10 December 2017 (Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity (NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
B30	Sunny	Moderate	17:15	Surface	-	-	-	-	-	-	-	-	-	-	-	7.5	-	-	3.4
				Middle	1.3	21.6 21.6	21.6	8.2 8.2	8.2	35.6 35.6	35.6	105.4 105.0	105.2	7.5 7.5	7.5		3.2 3.5	3.4	
				Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-	
B31	Sunny	Moderate	17:24	Surface	-	-	-	-	-	-	-	-	-	-	7.5	-	-	2.4	
				Middle	1.2	21.5 21.6	21.6	8.2 8.2	8.2	35.6 35.6	35.6	103.7 103.9	103.8	7.4 7.5		7.5	2.5 2.3		2.4
				Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-
B32	Sunny	Moderate	17:28	Surface	-	-	-	-	-	-	-	-	-	-	7.5	-	-	2.0	
				Middle	1.3	21.7 21.7	21.7	8.2 8.2	8.2	35.6 35.6	35.6	104.3 104.1	104.2	7.5 7.4		7.5	2.0 1.9		2.0
				Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-
B33	Sunny	Moderate	17:30	Surface	1	21.6 21.6	21.6	8.2 8.2	8.2	35.6 35.6	35.6	103.3 102.8	103.1	7.4 7.4	7.4	7.4	1.8 1.8	1.8	2.0
				Middle	4	21.5 21.5	21.5	8.2 8.2	8.2	35.6 35.6	35.6	101.2 101.3	101.3	7.3 7.3	7.3		1.9 1.9	1.9	
				Bottom	7	21.4 21.4	21.4	8.2 8.2	8.2	35.6 35.6	35.6	102.1 102.9	102.5	7.3 7.4	7.4		2.3 2.5	2.4	
B34	Sunny	Moderate	17:36	Surface	1	21.7 21.7	21.7	8.2 8.2	8.2	35.6 35.6	35.6	105.2 105.0	105.1	7.5 7.5	7.5	7.5	1.8 1.7	1.8	1.9
				Middle	3	21.7 21.6	21.7	8.2 8.2	8.2	35.6 35.6	35.6	104.1 103.6	103.9	7.5 7.4	7.5		1.8 1.7	1.8	
				Bottom	5	21.6 21.6	21.6	8.2 8.2	8.2	35.6 35.6	35.6	103.2 103.5	103.4	7.4 7.4	7.4		2.0 2.1	2.1	
B35	Sunny	Moderate	17:42	Surface	1	21.5 21.5	21.5	8.2 8.2	8.2	35.6 35.6	35.6	102.4 102.2	102.3	7.3 7.3	7.3	7.4	1.7 1.8	1.8	1.8
				Middle	4.5	21.5 21.5	21.5	8.2 8.2	8.2	35.6 35.6	35.6	102.3 102.5	102.4	7.3 7.4	7.4		1.7 1.8	1.8	
				Bottom	8	21.5 21.5	21.5	8.2 8.2	8.2	35.6 35.6	35.6	102.4 102.4	102.4	7.3 7.3	7.3		1.7 1.7	1.7	
B7	Sunny	Moderate	17:35	Surface	-	-	-	-	-	-	-	-	-	-	6.5	-	-	3.2	
				Middle	1	21.5 21.5	21.5	8.2 8.2	8.2	33.8 33.8	33.8	90.2 90.0	90.1	6.5 6.5		6.5	3.1 3.2		3.2
				Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-
B8	Sunny	Moderate	17:41	Surface	1	21.5 21.5	21.5	8.2 8.2	8.2	33.8 33.8	33.8	91.8 88.7	90.3	6.7 6.4	6.6	6.5	4.5 4.5	4.5	4.0
				Middle	5.5	21.6 21.6	21.6	8.2 8.2	8.2	33.8 33.8	33.8	88.9 88.2	88.6	6.4 6.4	6.4		3.9 3.5	3.7	
				Bottom	10	21.6 21.6	21.6	8.2 8.2	8.2	33.9 33.8	33.9	88.0 87.6	87.8	6.4 6.4	6.4		3.6 3.7	3.7	

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 10 December 2017 (Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity (NTU)			
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	
B9	Sunny	Moderate	17:48	Surface	1	21.5 21.5	21.5	8.2 8.2	8.2	33.8 33.8	33.8	91.1 90.3	90.7	6.6 6.5	6.6	6.6	2.9 2.8	2.9	3.1	
				Middle	-	- -	-	- -	-	-	- -	-	-	-	-		-	-		-
				Bottom	4.1	21.5 21.5	21.5	8.2 8.2	8.2	33.8 33.8	33.8	89.3 89.5	89.4	6.5 6.5	6.5		6.5	3.1 3.3		3.2
EM1	Sunny	Moderate	17:11	Surface	1	21.3 21.3	21.3	8.3 8.3	8.3	33.0 33.0	33.0	96.7 95.3	96.0	7.1 7.0	7.1	7.1	2.7 2.5	2.6	3.0	
				Middle	10	21.3 21.3	21.3	8.3 8.3	8.3	33.1 33.1	33.1	96.8 96.5	96.7	7.1 7.1	7.1		2.7 2.6	2.7		
				Bottom	19	21.1 21.1	21.1	8.3 8.3	8.3	33.1 33.1	33.1	96.7 96.5	96.6	7.1 7.1	7.1		7.1	3.5 4.0		3.8
EM2	Sunny	Moderate	17:21	Surface	1	21.3 21.3	21.3	8.3 8.3	8.3	33.1 33.1	33.1	99.6 98.2	98.9	7.3 7.2	7.3	7.3	2.3 2.3	2.3	3.0	
				Middle	10	21.2 21.2	21.2	8.3 8.3	8.3	33.1 33.1	33.1	98.3 97.9	98.1	7.2 7.2	7.2		2.5 2.4	2.5		
				Bottom	19	21.0 21.0	21.0	8.3 8.3	8.3	33.2 33.2	33.2	97.0 97.0	97.0	7.1 7.1	7.1		7.1	4.3 3.9		4.1
EM3	Sunny	Moderate	18:03	Surface	1	21.3 21.3	21.3	8.2 8.2	8.2	34.6 34.6	34.6	100.9 100.0	100.5	7.3 7.3	7.3	7.2	2.2 2.0	2.1	2.5	
				Middle	11	21.1 21.1	21.1	8.2 8.2	8.2	34.6 34.6	34.6	96.9 97.0	97.0	7.0 7.1	7.1		2.1 2.0	2.1		
				Bottom	21	21.0 21.0	21.0	8.2 8.2	8.2	34.6 34.6	34.6	95.3 95.4	95.4	6.9 7.0	7.0		7.0	3.3 3.0		3.2
F1	Sunny	Moderate	18:34	Surface	1	21.1 21.2	21.2	8.1 8.2	8.2	34.5 34.5	34.5	98.9 98.7	98.8	7.2 7.2	7.2	7.2	1.8 1.8	1.8	2.0	
				Middle	4.5	21.1 21.1	21.1	8.1 8.2	8.2	34.5 34.5	34.5	98.6 98.3	98.5	7.2 7.2	7.2		1.9 1.8	1.9		
				Bottom	8	21.0 21.0	21.0	8.1 8.2	8.2	34.6 34.6	34.6	98.2 98.2	98.2	7.2 7.2	7.2		7.2	2.4 2.3		2.4
F4	Sunny	Moderate	18:10	Surface	1	21.4 21.4	21.4	8.2 8.2	8.2	35.6 35.6	35.6	96.0 95.7	95.9	6.9 6.9	6.9	6.9	2.4 2.3	2.4	3.3	
				Middle	5	21.4 21.4	21.4	8.2 8.2	8.2	35.6 35.6	35.6	95.1 95.5	95.3	6.8 6.9	6.9		2.6 2.4	2.5		
				Bottom	9	21.4 21.4	21.4	8.2 8.2	8.2	35.6 35.6	35.6	94.2 93.9	94.1	6.8 6.8	6.8		6.8	4.6 5.1		4.9
F5	Sunny	Moderate	17:26	Surface	1	21.3 21.3	21.3	8.2 8.2	8.2	33.5 33.6	33.6	97.7 91.9	94.8	7.1 6.7	6.9	6.7	2.6 2.9	2.8	4.2	
				Middle	4	21.4 21.4	21.4	8.2 8.2	8.2	33.7 33.7	33.7	89.9 89.0	89.5	6.5 6.5	6.5		5.1 5.2	5.2		
				Bottom	7	21.4 21.4	21.4	8.2 8.2	8.2	33.7 33.7	33.7	88.7 89.0	88.9	6.5 6.5	6.5		6.5	4.7 4.7		4.7
JM3	Sunny	Moderate	16:57	Surface	1	21.3 21.3	21.3	8.3 8.3	8.3	33.0 33.0	33.0	94.3 92.9	93.6	6.9 6.8	6.9	6.9	3.0 2.6	2.8	3.3	
				Middle	6	21.3 21.3	21.3	8.3 8.3	8.3	33.0 33.0	33.0	93.0 92.8	92.9	6.8 6.8	6.8		3.0 3.1	3.1		
				Bottom	11	21.1 21.1	21.1	8.3 8.3	8.3	33.1 33.1	33.1	93.1 93.7	93.4	6.8 6.9	6.9		6.9	4.1 3.7		3.9

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 10 December 2017 (Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity (NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
MM13	Sunny	Moderate	16:43	Surface	1	21.3	21.4	8.3	8.3	34.5	34.5	101.3	101.2	7.3	7.3	7.2	3.0	3.0	4.0
						21.4		8.3		34.5		101.1		7.3			3.0		
				Middle	13.5	20.9	21.0	8.3	8.3	34.5	34.5	96.5	97.0	7.0	7.1	4.1	4.0		
				21.0		8.3		34.5		97.4		7.1		7.1		3.9			
				Bottom	26	20.9	20.9	8.3	8.3	34.5	34.5	95.3	95.4	7.0	7.0	7.0	5.0	4.8	4.9
						20.9		8.3		34.5		95.4		7.0		7.0	4.8		
SM12	Sunny	Moderate	17:05	Surface	1	21.0	21.0	8.2	8.3	35.5	35.5	98.8	99.3	7.2	7.2	7.2	5.9	5.6	8.7
						21.0		8.3		35.5		99.7		7.2			5.2		
				Middle	4	21.0	21.0	8.2	8.2	35.5	35.5	98.3	97.9	7.1	7.1	10.2	9.5		
				20.9		8.2		35.5		97.4		7.1		7.1		8.7			
				Bottom	7	20.9	20.9	8.2	8.2	35.5	35.5	97.6	97.3	7.1	7.1	7.1	11.8	11.0	
						20.9		8.2		35.5		97.0		7.1		7.1	10.2		
SM17	Sunny	Moderate	17:53	Surface	1	21.8	21.8	8.3	8.3	35.7	35.7	105.3	105.0	7.5	7.5	7.3	2.8	2.8	4.1
						21.7		8.3		35.7		104.7		7.5			2.8		
				Middle	8.5	21.3	21.3	8.3	8.3	35.7	35.7	96.6	96.6	7.0	7.0	4.3	4.4		
				21.3		8.3		35.7		96.5		7.0		7.0		4.4			
				Bottom	16	21.2	21.2	8.3	8.3	35.7	35.7	96.2	96.2	6.9	6.9	6.9	5.1	5.0	
						21.2		8.3		35.7		96.2		6.9		6.9	4.8		
SM2	Sunny	Moderate	17:04	Surface	1	21.4	21.4	8.3	8.3	35.6	35.6	99.9	99.7	7.2	7.2	7.1	2.4	2.4	2.8
						21.4		8.2		35.6		99.4		7.2			2.4		
				Middle	7	21.2	21.2	8.2	8.2	35.6	35.6	97.3	97.3	7.0	7.0	3.0	3.1		
				21.2		8.2		35.6		97.3		7.0		7.0		3.1			
				Bottom	13	21.2	21.2	8.2	8.2	35.6	35.6	96.9	96.9	7.0	7.0	7.0	3.0	3.0	
						21.2		8.2		35.6		96.8		7.0		7.0	3.0		
SM3	Sunny	Moderate	18:00	Surface	1	21.4	21.5	8.2	8.2	35.6	35.6	99.0	98.9	7.1	7.1	7.0	2.3	2.2	2.9
						21.5		8.2		35.6		98.8		7.1			2.1		
				Middle	16	21.4	21.4	8.2	8.2	35.6	35.6	94.0	94.0	6.8	6.8	3.1	3.2		
				21.4		8.2		35.6		93.9		6.8		6.8		3.3			
				Bottom	31	21.4	21.4	8.2	8.2	35.6	35.6	93.7	93.7	6.7	6.7	6.7	3.2	3.3	
						21.4		8.2		35.6		93.6		6.7		6.7	3.4		
SM6	Sunny	Moderate	18:20	Surface	1	21.5	21.5	8.3	8.3	35.6	35.6	103.4	103.4	7.4	7.4	7.2	2.3	2.3	4.4
						21.5		8.3		35.6		103.4		7.4			2.3		
				Middle	7.5	21.0	21.0	8.3	8.3	35.6	35.6	97.1	97.1	7.0	7.0	3.1	3.2		
				21.0		8.3		35.5		97.0		7.0		7.0		3.2			
				Bottom	14	21.1	21.1	8.3	8.3	35.6	35.6	95.3	95.3	6.9	6.9	6.9	7.8	7.6	
						21.1		8.3		35.6		95.2		6.9		6.9	7.3		
VM1	Sunny	Moderate	17:51	Surface	1	21.4	21.4	8.3	8.3	32.8	32.8	91.9	91.7	6.7	6.7	6.8	2.7	2.6	2.8
						21.4		8.3		32.8		91.5		6.7			2.4		
				Middle	20	21.3	21.3	8.3	8.3	33.0	33.0	92.2	92.3	6.7	6.8	2.4	2.7		
				21.3		8.3		33.0		92.4		6.8		6.8		2.9			
				Bottom	39	21.3	21.3	8.3	8.3	33.0	33.0	92.6	92.6	6.8	6.8	6.8	2.9	3.0	
						21.3		8.3		33.0		92.5		6.8		6.8	3.1		
VM12	Sunny	Moderate	19:01	Surface	1	21.7	21.7	8.2	8.2	33.8	33.8	84.4	83.9	6.1	6.1	6.1	3.6	3.4	5.4
						21.7		8.2		33.8		83.3		6.0			3.2		
				Middle	10	21.7	21.7	8.2	8.2	33.8	33.8	83.1	82.8	6.0	6.0	4.4	4.5		
				21.7		8.2		33.8		82.5		6.0		6.0		4.5			
				Bottom	19	21.7	21.7	8.2	8.2	33.9	33.9	81.4	81.5	5.9	5.9	5.9	8.3	8.3	
						21.7		8.2		33.9		81.6		5.9		5.9	8.3		

Remarks: *DA: Depth-Averaged

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Water Quality Monitoring Results on 10 December 2017 (Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity (NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
VM14	Sunny	Moderate	18:31	Surface	1	21.6	21.6	8.2	8.2	33.8	33.8	85.2	84.6	6.2	6.2	6.2	4.1	4.1	4.3
						21.6		8.2		33.8		84.0		6.1			4.0		
				Middle	6.5	21.6	21.7	8.2	8.2	33.8	33.8	83.7	83.5	6.1	6.1		4.3	4.4	
				21.7		8.2		33.8		83.3		6.0		4.4					
				Bottom	12	21.7	21.7	8.2	8.2	33.8	33.8	83.1	82.9	6.0	6.0	6.0	4.2	4.4	
						21.7		8.2		33.8		82.7		6.0		4.6			
VM15	Sunny	Moderate	18:15	Surface	1	21.5	21.5	8.2	8.2	33.8	33.8	83.8	83.3	6.1	6.1	6.1	4.0	3.8	3.7
						21.5		8.2		33.8		82.7		6.0			3.5		
				Middle	6	21.5	21.5	8.2	8.2	33.8	33.8	82.8	82.6	6.0	6.0		3.6	3.6	
						21.5		8.2		33.8		6.0		3.6					
				Bottom	11	21.5	21.5	8.2	8.2	33.8	33.8	82.3	82.2	6.0	6.0	6.0	3.9	3.8	
						21.5		8.2		33.8		82.0		5.9		3.7			
VM2	Sunny	Moderate	18:19	Surface	1	21.3	21.3	8.3	8.3	32.9	32.9	91.8	91.0	6.7	6.7	6.7	2.8	2.8	2.8
						21.3		8.3		32.9		90.2		6.6			2.8		
				Middle	6.5	21.3	21.3	8.3	8.3	33.0	33.0	92.1	91.8	6.7	6.7		2.9	2.8	
						21.3		8.3		33.0		91.5		6.7		2.6			
				Bottom	12	21.3	21.3	8.3	8.3	33.0	33.0	92.3	92.2	6.8	6.8	6.8	2.9	2.9	
						21.3		8.3		33.0		92.0		6.7		2.8			
VM4	Sunny	Moderate	17:05	Surface	1	21.4	21.5	8.2	8.2	33.8	33.8	87.2	86.8	6.3	6.3	6.4	2.6	2.6	2.6
						21.5		8.2		33.8		86.4		6.3			2.5		
				Middle	7	21.4	21.4	8.2	8.2	33.8	33.8	87.3	87.4	6.3	6.4		2.6	2.6	
						21.4		8.2		33.8		87.5		6.4		2.5			
				Bottom	13	21.3	21.3	8.2	8.2	33.9	33.9	90.0	89.7	6.6	6.6	6.6	2.6	2.6	
						21.3		8.2		33.9		89.4		6.5		2.5			
VM5	Sunny	Moderate	17:19	Surface	1	21.5	21.5	8.1	8.1	33.7	33.7	83.9	83.8	6.1	6.1	6.1	1.9	1.9	2.1
						21.5		8.1		33.7		83.6		6.1			1.9		
				Middle	6.5	21.5	21.5	8.1	8.2	33.7	33.7	83.7	83.6	6.1	6.1		2.0	2.1	
						21.5		8.2		33.7		83.5		6.1		2.1			
				Bottom	12	21.5	21.5	8.2	8.2	33.8	33.8	85.2	85.1	6.2	6.2	6.2	2.2	2.4	
						21.5		8.2		33.8		85.0		6.2		2.5			
VM7	Sunny	Moderate	17:45	Surface	1	21.5	21.5	8.1	8.2	33.8	33.8	86.1	85.6	6.3	6.3	6.3	2.1	2.3	2.4
						21.5		8.2		33.8		85.0		6.2			2.5		
				Middle	6.5	21.5	21.5	8.2	8.2	33.8	33.8	85.3	85.0	6.2	6.2		2.3	2.5	
						21.5		8.2		33.8		84.6		6.1		2.6			
				Bottom	12	21.5	21.5	8.2	8.2	33.8	33.8	84.7	84.5	6.2	6.2	6.2	2.5	2.5	
						21.5		8.2		33.8		84.2		6.1		2.5			
VM8	Sunny	Moderate	18:02	Surface	1	21.5	21.5	8.1	8.1	33.9	33.9	89.5	89.5	6.5	6.5	6.5	3.5	3.5	4.7
						21.5		8.1		33.9		89.4		6.5			3.4		
				Middle	6	21.5	21.5	8.2	8.2	34.0	34.0	89.8	89.8	6.5	6.5		4.1	4.2	
						21.5		8.2		34.0		89.7		6.5		4.3			
				Bottom	11	21.5	21.5	8.2	8.2	34.0	34.0	90.6	90.5	6.6	6.6	6.6	6.3	6.4	
						21.5		8.2		34.0		90.4		6.5		6.4			
WM1	Sunny	Moderate	18:21	Surface	1	21.4	21.4	8.2	8.2	35.5	35.5	96.2	95.4	6.9	6.9	6.9	2.4	2.4	2.8
						21.4		8.2		35.5		94.5		6.8			2.3		
				Middle	15.5	21.4	21.4	8.2	8.2	35.6	35.6	94.8	94.8	6.8	6.8		2.7	2.8	
						21.4		8.2		35.6		94.8		6.8		2.8			
				Bottom	30	21.4	21.4	8.2	8.2	35.6	35.6	93.9	93.6	6.8	6.8	6.8	3.0	3.1	
						21.4		8.2		35.6		93.3		6.7		3.1			

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

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Water Quality Monitoring Results on 10 December 2017 (Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity (NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
WM2	Sunny	Moderate	18:44	Surface	1	21.5	21.5	8.2	8.2	35.4	35.4	90.1	89.9	6.5	6.5	6.5	3.0	3.1	3.6
					21.5	21.5	8.2	8.2	35.4	35.4	89.7	89.3	6.4	6.4	3.1		3.5		
				Middle	7	21.5	21.5	8.2	8.2	35.4	35.4	89.2	89.3	6.4	6.4		3.8	3.5	
					21.5	21.5	8.2	8.2	35.4	35.4	89.3	89.3	6.4	6.4	3.2		3.5		
				Bottom	13	21.4	21.4	8.2	8.2	35.5	35.5	90.3	90.4	6.5	6.5		3.8	4.1	
					21.4	21.4	8.2	8.2	35.5	35.5	90.5	90.4	6.5	6.5	4.3		4.1		
WM4	Sunny	Moderate	17:10	Surface	1	21.7	21.7	8.1	8.2	33.9	33.9	90.3	90.2	6.5	6.5	6.4	2.8	2.8	5.4
					21.7	21.7	8.2	8.2	33.9	33.9	90.0	89.3	6.5	6.3	2.8		2.8		
				Middle	15	21.6	21.6	8.1	8.2	34.0	34.0	87.7	87.6	6.3	6.3		5.4	5.6	
					21.6	21.6	8.2	8.2	34.0	34.0	87.5	87.6	6.3	6.3	5.8		5.6		
				Bottom	29	21.6	21.6	8.2	8.2	34.0	34.0	86.5	86.6	6.3	6.3		7.8	7.7	
					21.6	21.6	8.2	8.2	34.0	34.0	86.6	86.6	6.3	6.3	7.6		7.7		
WSD10	Sunny	Moderate	18:30	Surface	1	21.4	21.4	8.3	8.3	32.6	32.7	93.0	91.8	6.8	6.7	6.7	2.8	2.8	2.7
					21.4	21.4	8.3	8.3	32.7	32.7	90.6	91.8	6.6	6.7	2.7		2.8		
				Middle	5.5	21.3	21.3	8.3	8.3	33.0	33.0	92.1	91.8	6.7	6.7		2.5	2.5	
					21.3	21.3	8.3	8.3	33.0	33.0	91.5	91.8	6.7	6.7	2.5		2.5		
				Bottom	10	21.3	21.3	8.3	8.3	33.0	33.0	91.8	91.8	6.7	6.7		2.8	2.7	
					21.3	21.3	8.3	8.3	33.0	33.0	91.8	91.8	6.7	6.7	2.6		2.7		
WSD11	Sunny	Moderate	18:39	Surface	1	21.3	21.3	8.3	8.3	32.5	32.7	93.6	92.1	6.9	6.8	6.8	2.9	3.0	3.2
					21.3	21.3	8.3	8.3	32.8	32.7	90.6	92.1	6.6	6.8	3.1		3.0		
				Middle	7.5	21.3	21.3	8.3	8.3	32.9	32.9	91.4	91.1	6.7	6.7		3.3	3.4	
					21.3	21.3	8.3	8.3	32.9	32.9	90.7	91.1	6.6	6.7	3.5		3.4		
				Bottom	14	21.3	21.3	8.3	8.3	33.0	33.0	91.5	91.5	6.7	6.7		3.4	3.3	
					21.3	21.3	8.3	8.3	33.0	33.0	91.4	91.5	6.7	6.7	3.2		3.3		
WSD12	Sunny	Moderate	16:50	Surface	1	21.6	21.6	8.1	8.2	33.0	33.0	96.9	96.2	7.1	7.1	7.0	1.6	1.6	1.8
					21.6	21.6	8.2	8.2	33.0	33.0	95.5	96.2	7.0	7.1	1.6		1.6		
				Middle	4	21.5	21.6	8.2	8.2	33.0	33.0	94.5	94.9	6.9	6.9		1.7	1.7	
					21.6	21.6	8.2	8.2	33.0	33.0	95.2	94.9	6.9	6.9	1.6		1.7		
				Bottom	7	21.4	21.5	8.2	8.2	33.0	33.0	94.1	94.4	6.9	6.9		2.0	2.0	
					21.5	21.5	8.2	8.2	33.0	33.0	94.6	94.4	6.9	6.9	2.0		2.0		
WSD13	Sunny	Moderate	17:34	Surface	1	21.3	21.3	8.3	8.3	32.9	32.9	93.8	93.9	6.9	6.9	6.9	2.5	2.5	2.7
					21.3	21.3	8.3	8.3	32.9	32.9	94.0	93.9	6.9	6.9	2.5		2.5		
				Middle	5.5	21.4	21.4	8.3	8.3	33.0	33.0	94.7	94.5	6.9	6.9		2.5	2.5	
					21.4	21.4	8.3	8.3	33.0	33.0	94.3	94.5	6.9	6.9	2.5		2.5		
				Bottom	10	21.2	21.2	8.3	8.3	33.1	33.1	94.6	94.7	6.9	6.9		3.3	3.2	
					21.2	21.2	8.3	8.3	33.1	33.1	94.7	94.7	6.9	6.9	3.1		3.2		
WSD15	Sunny	Moderate	17:59	Surface	1	21.2	21.3	8.3	8.3	32.9	33.0	94.0	92.8	6.9	6.8	6.8	2.8	2.8	3.0
					21.3	21.3	8.3	8.3	33.0	33.0	91.5	92.8	6.7	6.8	2.7		2.8		
				Middle	7	21.3	21.3	8.3	8.3	33.0	33.0	92.3	92.0	6.8	6.8		2.9	2.9	
					21.3	21.3	8.3	8.3	33.0	33.0	91.6	92.0	6.7	6.8	2.9		2.9		
				Bottom	13	21.3	21.3	8.3	8.3	33.0	33.0	92.0	91.8	6.7	6.7		2.9	3.2	
					21.3	21.3	8.3	8.3	33.0	33.0	91.6	91.8	6.7	6.7	3.5		3.2		
WSD17	Sunny	Moderate	18:12	Surface	1	21.2	21.3	8.3	8.3	32.9	32.9	88.7	88.6	6.5	6.5	6.6	3.8	4.0	3.9
					21.3	21.3	8.3	8.3	32.8	32.9	88.4	88.6	6.5	6.5	4.2		4.0		
				Middle	5	21.3	21.3	8.3	8.3	33.0	33.0	90.1	89.8	6.6	6.6		3.6	3.6	
					21.3	21.3	8.3	8.3	33.0	33.0	89.4	89.8	6.5	6.6	3.6		3.6		
				Bottom	9	21.3	21.3	8.3	8.3	33.0	33.0	90.9	90.9	6.7	6.7		4.0	4.1	
					21.3	21.3	8.3	8.3	33.0	33.0	90.8	90.9	6.7	6.7	4.1		4.1		

Remarks: *DA: Depth-Averaged

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DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 10 December 2017 (Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity (NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
WSD18	Sunny	Moderate	17:28	Surface	1	21.5	21.5	8.2	8.2	33.8	33.8	83.5	83.0	6.1	6.1	6.1	3.7	3.8	3.6
					21.5	8.2		33.8		82.5		6.0		3.8					
				Middle	5.5	21.5	21.5	8.2	8.2	33.8	33.8	82.4	82.3	6.0	6.0		3.7	3.6	
					21.5	8.2		33.8		82.1		6.0		3.4					
				Bottom	10	21.5	21.5	8.2	8.2	33.8	33.8	82.2	82.2	6.0	6.0		3.4	3.4	
					21.5	8.2		33.8		82.1		6.0		3.4					
WSD19	Sunny	Moderate	17:36	Surface	1	21.5	21.5	8.1	8.1	33.8	33.8	82.1	82.2	6.0	6.0	6.1	3.1	3.2	2.9
					21.5	8.1		33.8		82.2		6.0		3.2					
				Middle	7	21.5	21.5	8.1	8.1	33.8	33.8	84.7	84.7	6.1	6.1		2.8	2.8	
					21.5	8.1		33.8		84.7		6.1		2.7					
				Bottom	13	21.5	21.5	8.2	8.2	33.8	33.8	84.4	84.4	6.1	6.1		2.8	2.8	
					21.5	8.2		33.8		84.4		6.1		2.7					
WSD20	Sunny	Moderate	17:55	Surface	1	21.6	21.6	8.2	8.2	33.8	33.8	86.3	85.6	6.3	6.2	6.2	2.9	2.7	5.1
					21.6	8.2		33.8		84.8		6.1		2.5					
				Middle	5.5	21.6	21.6	8.2	8.2	33.9	33.9	85.9	85.5	6.2	6.2		3.5	3.6	
					21.6	8.1		33.9		85.0		6.2		3.6					
				Bottom	10	21.5	21.6	8.1	8.2	34.0	34.0	89.0	88.5	6.4	6.4		9.0	9.0	
					21.6	8.2		34.0		87.9		6.4		9.0					
WSD21	Sunny	Moderate	17:53	Surface	1	21.5	21.5	8.2	8.2	35.6	35.6	98.6	98.4	7.1	7.1	7.1	2.7	2.6	2.6
					21.5	8.2		35.6		98.2		7.1		2.4					
				Middle	3.5	21.5	21.5	8.2	8.2	35.6	35.6	98.1	98.1	7.0	7.0		2.6	2.6	
					21.5	8.2		35.6		98.0		7.0		2.6					
				Bottom	6	21.5	21.5	8.2	8.2	35.6	35.6	97.6	97.6	7.0	7.0		2.8	2.7	
					21.5	8.2		35.6		97.6		7.0		2.6					
WSD22	Sunny	Moderate	17:14	Surface	1	21.5	21.5	8.2	8.2	33.7	33.7	85.9	85.5	6.2	6.2	6.2	1.9	1.9	2.0
					21.5	8.2		33.7		85.1		6.2		1.9					
				Middle	4.5	21.5	21.5	8.2	8.2	33.8	33.8	85.4	85.4	6.2	6.2		1.9	1.9	
					21.5	8.2		33.8		85.3		6.2		1.9					
				Bottom	8	21.5	21.5	8.2	8.2	33.8	33.8	85.3	84.9	6.2	6.2		2.1	2.2	
					21.5	8.2		33.8		84.4		6.1		2.3					
WSD4	Sunny	Moderate	18:23	Surface	1	21.6	21.7	8.2	8.2	33.8	33.8	84.4	83.9	6.1	6.1	6.1	3.9	3.9	4.6
					21.7	8.2		33.8		83.4		6.0		3.9					
				Middle	4.5	21.6	21.7	8.2	8.2	33.8	33.8	83.6	83.5	6.1	6.1		4.3	4.5	
					21.7	8.2		33.8		83.3		6.0		4.6					
				Bottom	8	21.7	21.7	8.2	8.2	33.8	33.8	84.6	84.3	6.1	6.1		5.5	5.4	
					21.7	8.2		33.8		84.0		6.1		5.3					

Remarks: *DA: Depth-Averaged

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DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 10 December 2017 (Mid-Ebb Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
WSD5	Sunny	Moderate	18:45	Surface	1	21.6	21.6	8.2	8.2	33.8	33.8	84.8	84.1	6.1	6.1	6.1	3.7	3.7	3.9
						21.6		8.2		33.8		83.4		6.0			3.7		
				Middle	10	21.7	21.7	8.2	8.2	33.8	33.8	83.3	83.1	6.0	6.0		4.0	3.9	
				21.6		8.2		33.8		82.8		6.0		6.0	3.8				
				Bottom	19	21.7	21.7	8.2	8.2	33.8	33.8	82.4	82.3	6.0	6.0	6.0	4.2	4.1	
						21.7		8.2		33.8		82.1		5.9		6.0	4.0		
WSD6	Sunny	Moderate	18:24	Surface	1	21.5	21.6	8.2	8.2	33.6	33.6	78.1	78.1	5.7	5.7	5.7	3.7	3.8	5.1
						21.6		8.2		33.6		78.0		5.7			3.8		
				Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	
				Bottom	4.8	21.6	21.6	8.2	8.2	33.6	33.6	77.4	77.0	5.6	5.6	5.6	6.3	6.3	
						21.6		8.2		33.6		76.5		5.6		5.6	6.3		
WSD7	Sunny	Moderate	18:32	Surface	1	21.6	21.6	8.1	8.1	33.8	33.8	81.5	81.5	5.9	5.9	5.9	4.7	4.7	5.1
						21.6		8.1		33.8		81.4		5.9			4.7		
				Middle	4.5	21.6	21.6	8.2	8.2	33.8	33.8	81.3	81.4	5.9	5.9		5.4	5.5	
				Bottom	8	21.6	21.6	8.2	8.2	33.8	33.8	80.6	80.4	5.8	5.8	5.8	5.2	5.2	
						21.6		8.2		33.8		80.1		5.8		5.8	5.2		
WSD9	Sunny	Moderate	16:58	Surface	1	21.5	21.5	8.2	8.2	33.7	33.7	87.8	87.7	6.4	6.4	6.4	2.0	2.0	2.7
						21.5		8.1		33.7		87.6		6.4			2.0		
				Middle	4.5	21.5	21.5	8.2	8.2	33.8	33.8	86.4	86.3	6.3	6.3		2.8	2.9	
				Bottom	8	21.5	21.5	8.2	8.2	33.8	33.8	85.2	85.2	6.2	6.2	6.2	3.1	3.2	
						21.5		8.2		33.8		85.1		6.2		6.2	3.2		

Remarks: *DA: Depth-Averaged

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DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 10 December 2017 (Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity (NTU)					
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*		
B10	Sunny	Moderate	12:34	Surface	1	21.6 21.5	21.6	8.2 8.2	8.2	33.8 33.8	33.8	92.1 91.0	91.6	6.7 6.6	6.7	6.7	2.9 3.2	3.1	4.5		
				Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-
				Bottom	3.1	21.6 21.5	21.6	8.2 8.2	8.2	33.8 33.8	33.8	91.3 90.9	91.1	6.6 6.6	6.6		6.6	6.0 5.6		5.8	
B11	Sunny	Moderate	12:39	Surface	-	-	-	-	-	-	-	-	-	-	-	6.6	-	-	2.9		
				Middle	1.6	21.6 21.6	21.6	8.2 8.2	8.2	33.8 33.8	33.8	91.1 91.0	91.1	6.6 6.6	6.6		2.8 3.0	2.9			
				Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-	
B12	Sunny	Moderate	12:43	Surface	1	21.7 21.7	21.7	8.2 8.2	8.2	33.8 33.8	33.8	91.5 90.7	91.1	6.6 6.6	6.6	6.6	4.3 4.1	4.2	4.9		
				Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	
				Bottom	3.1	21.6 21.6	21.6	8.2 8.2	8.2	33.8 33.8	33.8	91.2 90.7	91.0	6.6 6.6	6.6		5.2 6.0	5.6			
B13	Sunny	Moderate	12:50	Surface	1	21.8 21.8	21.8	8.2 8.2	8.2	33.8 33.8	33.8	89.2 87.9	88.6	6.4 6.3	6.4	6.4	4.3 4.6	4.5	5.6		
				Middle	3	21.6 21.6	21.6	8.2 8.2	8.2	33.8 33.8	33.8	87.0 86.3	86.7	6.3 6.3	6.3		5.7 5.7	5.7			
				Bottom	5	21.6 21.5	21.6	8.2 8.2	8.2	33.9 33.9	33.9	86.3 85.9	86.1	6.3 6.2	6.3		6.3 6.7	6.5			
B14	Sunny	Moderate	11:50	Surface	-	-	-	-	-	-	-	-	-	-	-	6.9	-	-	5.8		
				Middle	1.1	21.4 21.4	21.4	8.2 8.3	8.3	33.9 33.9	33.9	94.8 94.1	94.5	6.9 6.8	6.9		5.7 5.8	5.8			
				Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-			
B24	Sunny	Moderate	11:46	Surface	1	21.3 21.3	21.3	8.3 8.3	8.3	34.5 34.5	34.5	97.5 97.9	97.7	7.1 7.1	7.1	7.1	1.8 1.8	1.8	2.1		
				Middle	4	21.1 21.2	21.2	8.3 8.3	8.3	34.5 34.5	34.5	98.1 97.9	98.0	7.1 7.1	7.1		2.1 2.1	2.1			
				Bottom	7	21.1 21.0	21.1	8.3 8.3	8.3	34.6 34.6	34.6	98.9 99.7	99.3	7.2 7.3	7.3		2.1 2.5	2.3			
B25	Sunny	Moderate	11:55	Surface	1	21.3 21.3	21.3	8.2 8.2	8.2	34.5 34.5	34.5	96.7 96.8	96.8	7.0 7.0	7.0	7.0	1.8 1.8	1.8	1.8		
				Middle	-	-	-	-	-	-	-	-	-	-	-		-	-			
				Bottom	4.9	21.3 21.3	21.3	8.2 8.2	8.2	34.5 34.5	34.5	96.7 96.6	96.7	7.0 7.0	7.0		1.8 1.8	1.8			
B26	Sunny	Moderate	12:14	Surface	1	21.3 21.3	21.3	8.2 8.2	8.2	34.5 34.5	34.5	98.3 98.5	98.4	7.1 7.1	7.1	7.1	1.8 1.9	1.9	2.5		
				Middle	6.5	21.1 21.1	21.1	8.2 8.2	8.2	34.5 34.5	34.5	97.5 97.6	97.6	7.1 7.1	7.1		2.1 2.0	2.1			
				Bottom	12	21.1 21.1	21.1	8.3 8.2	8.3	34.5 34.5	34.5	98.7 97.6	98.2	7.2 7.1	7.2		3.3 3.4	3.4			

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Water Quality Monitoring Results on 10 December 2017 (Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity (NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
B30	Sunny	Moderate	12:25	Surface	-	-	-	-	-	-	-	-	-	-	-	7.3	-	-	2.1
				Middle	1.2	21.3 21.3	21.3	8.2 8.3	8.3	35.6 35.6	35.6	101.1 101.0	101.1	7.3 7.3	7.3		2.1 2.0	2.1	
				Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-	
B31	Sunny	Moderate	12:32	Surface	-	-	-	-	-	-	-	-	-	-	7.3	-	-	2.2	
				Middle	1.2	21.5 21.6	21.6	8.2 8.2	8.2	35.6 35.6	35.6	101.6 101.1	101.4	7.3 7.3		7.3	2.2 2.1		2.2
				Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-
B32	Sunny	Moderate	12:38	Surface	-	-	-	-	-	-	-	-	-	-	7.4	-	-	2.1	
				Middle	1.2	21.4 21.4	21.4	8.3 8.3	8.3	35.6 35.6	35.6	102.6 102.0	102.3	7.4 7.3		7.4	2.0 2.1		2.1
				Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-
B33	Sunny	Moderate	12:42	Surface	1	21.5 21.5	21.5	8.2 8.2	8.2	35.6 35.6	35.6	99.9 99.9	99.9	7.2 7.2	7.2	7.2	2.1 2.1	2.1	2.1
				Middle	3.5	21.3 21.3	21.3	8.2 8.2	8.2	35.6 35.6	35.6	99.8 100.2	100.0	7.2 7.2	7.2		2.1 2.1	2.1	
				Bottom	6	21.3 21.3	21.3	8.2 8.2	8.2	35.6 35.6	35.6	100.7 100.7	100.7	7.3 7.3	7.3		2.1 2.1	2.1	
B34	Sunny	Moderate	12:49	Surface	1	21.4 21.4	21.4	8.3 8.3	8.3	35.6 35.6	35.6	105.3 104.8	105.1	7.6 7.5	7.6	7.6	1.9 1.8	1.9	2.0
				Middle	3	21.2 21.3	21.3	8.3 8.3	8.3	35.6 35.6	35.6	102.0 103.6	102.8	7.4 7.5	7.5		2.1 2.1	2.1	
				Bottom	5	21.2 21.2	21.2	8.3 8.3	8.3	35.6 35.6	35.6	103.0 104.3	103.7	7.4 7.5	7.5		2.0 2.0	2.0	
B35	Sunny	Moderate	12:56	Surface	1	21.5 21.4	21.5	8.3 8.3	8.3	35.6 35.6	35.6	102.4 102.2	102.3	7.4 7.4	7.4	7.4	1.9 1.8	1.9	2.3
				Middle	4.5	21.2 21.2	21.2	8.3 8.3	8.3	35.6 35.6	35.6	101.0 101.0	101.0	7.3 7.3	7.3		2.1 2.1	2.1	
				Bottom	8	21.1 21.1	21.1	8.2 8.2	8.2	35.6 35.6	35.6	97.8 98.4	98.1	7.1 7.1	7.1		2.9 2.6	2.8	
B7	Sunny	Moderate	12:09	Surface	-	-	-	-	-	-	-	-	-	-	7.1	-	-	4.6	
				Middle	1.1	21.5 21.6	21.6	8.2 8.2	8.2	33.7 33.7	33.7	97.7 97.6	97.7	7.1 7.1		7.1	4.4 4.7		4.6
				Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-
B8	Sunny	Moderate	12:16	Surface	1	21.4 21.5	21.5	8.2 8.2	8.2	33.7 33.8	33.8	91.4 90.0	90.7	6.6 6.5	6.6	6.6	3.4 3.8	3.6	3.9
				Middle	5	21.5 21.5	21.5	8.2 8.2	8.2	33.8 33.8	33.8	89.9 89.6	89.8	6.5 6.5	6.5		3.8 3.2	3.5	
				Bottom	9	21.5 21.5	21.5	8.2 8.2	8.2	33.8 33.8	33.8	89.2 88.5	88.9	6.5 6.4	6.5		5.0 4.3	4.7	

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 10 December 2017 (Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity (NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
B9	Sunny	Moderate	12:27	Surface	1	21.6	21.6	8.2	8.2	33.8	33.8	91.2	91.0	6.6	6.6	6.6	3.2	3.4	3.5
						21.6		8.2		33.8		90.7		6.6			3.6		
				Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	
				Bottom	4	21.5	21.5	8.2	8.2	33.8	33.8	90.2	90.2	6.5	6.5	6.5	3.8	3.6	
						21.5		8.2		33.8		90.2		6.5		6.5	3.4	3.6	
EM1	Sunny	Moderate	12:46	Surface	1	21.4	21.4	8.3	8.3	33.0	33.0	93.7	93.7	6.8	6.8	6.9	2.6	2.6	2.9
						21.4		8.3		33.0		93.7		6.8			2.6		
				Middle	5.5	21.3	21.3	8.3	8.3	33.0	33.1	94.2	94.4	6.9	6.9		3.0	3.0	
						21.3		8.3		33.1		94.5		6.9		3.0	3.0		
				Bottom	10	21.1	21.1	8.3	8.3	33.1	33.1	95.0	95.2	7.0	7.0	7.0	3.2	3.2	
						21.1		8.3		33.1		95.4		7.0		7.0	3.1	3.2	
EM2	Sunny	Moderate	12:38	Surface	1	21.3	21.3	8.3	8.3	33.0	33.0	95.7	95.2	7.0	7.0	7.0	2.4	2.4	3.2
						21.3		8.3		33.0		94.6		6.9			2.4		
				Middle	10	21.1	21.1	8.3	8.3	33.1	33.1	95.8	95.7	7.0	7.0		3.2	3.3	
						21.1		8.3		33.1		95.6		7.0		3.3	3.3		
				Bottom	19	21.0	21.0	8.3	8.3	33.1	33.1	96.3	96.2	7.1	7.1	7.1	4.1	3.9	
						21.0		8.3		33.1		96.1		7.1		7.1	3.7	3.9	
EM3	Sunny	Moderate	12:02	Surface	1	21.3	21.4	8.2	8.2	34.5	34.5	96.5	96.3	7.0	7.0	7.0	2.1	2.1	2.6
						21.4		8.2		34.5		96.1		7.0			2.0	2.1	
				Middle	12.5	21.0	21.0	8.3	8.3	34.6	34.6	95.8	95.8	7.0	7.0		2.2	2.2	
						21.0		8.2		34.6		95.8		7.0		2.1	2.2		
				Bottom	24	21.1	21.1	8.3	8.3	34.6	34.6	95.5	95.5	7.0	7.0	7.0	3.5	3.6	
						21.1		8.2		34.6		95.5		6.9		7.0	3.6	3.6	
F1	Sunny	Moderate	11:32	Surface	1	21.2	21.2	8.3	8.3	34.5	34.5	96.1	96.2	7.0	7.0	7.0	1.9	1.9	2.2
						21.2		8.3		34.5		96.3		7.0			1.9	1.9	
				Middle	5	21.0	21.1	8.3	8.3	34.5	34.5	95.8	95.8	7.0	7.0		2.3	2.3	
						21.1		8.3		34.5		95.7		7.0		2.2	2.2		
				Bottom	9	20.9	20.9	8.3	8.3	34.6	34.6	96.5	96.1	7.0	7.0	7.0	2.3	2.5	
						20.9		8.3		34.6		95.7		7.0		7.0	2.6	2.5	
F4	Sunny	Moderate	11:44	Surface	1	21.4	21.4	8.2	8.2	35.6	35.6	97.0	96.3	7.0	7.0	7.0	3.2	3.2	3.7
						21.4		8.2		35.6		95.6		6.9			3.1	3.2	
				Middle	5	21.3	21.3	8.2	8.2	35.6	35.6	95.4	95.0	6.9	6.9		3.6	3.6	
						21.3		8.2		35.6		94.6		6.8		3.6	3.6		
				Bottom	9	21.3	21.3	8.2	8.2	35.6	35.6	93.8	93.1	6.8	6.7	6.7	4.4	4.4	
						21.3		8.2		35.6		92.3		6.6		6.7	4.3	4.4	
F5	Sunny	Moderate	11:58	Surface	1	21.1	21.1	8.2	8.3	33.4	33.5	93.4	92.6	6.8	6.8	6.8	3.2	3.3	4.2
						21.1		8.3		33.5		91.8		6.7			3.3	3.3	
				Middle	4	21.1	21.1	8.3	8.3	33.5	33.5	91.8	91.5	6.7	6.7		3.8	3.9	
						21.1		8.3		33.5		91.2		6.7		3.9	3.9		
				Bottom	7	21.1	21.1	8.3	8.3	33.5	33.5	91.0	91.0	6.7	6.7	6.7	5.6	5.4	
						21.1		8.3		33.5		90.9		6.7		6.7	5.2	5.4	
JM3	Sunny	Moderate	12:59	Surface	1	21.3	21.3	8.3	8.3	33.0	33.0	93.7	92.9	6.9	6.8	6.8	3.1	3.1	3.1
						21.3		8.3		33.0		92.1		6.7			3.1	3.1	
				Middle	6	21.3	21.3	8.3	8.3	33.0	33.0	92.3	92.1	6.8	6.8		3.0	2.9	
						21.3		8.3		33.0		91.8		6.7		2.7	2.9		
				Bottom	11	21.3	21.3	8.3	8.3	33.0	33.0	91.6	91.7	6.7	6.7	6.7	3.1	3.4	
						21.2		8.3		33.0		91.8		6.7		6.7	3.7	3.4	

Remarks: *DA: Depth-Averaged

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Water Quality Monitoring Results on 10 December 2017 (Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity (NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
MM13	Sunny	Moderate	13:25	Surface	1	21.3	21.3	8.2	8.2	34.6	34.6	99.6	99.6	7.2	7.2	7.1	2.6	2.6	3.5
						21.3		8.2		34.6		99.5		7.2			2.6		
				Middle	14	21.0	21.0	8.2	8.2	34.5	34.5	96.3	96.3	7.0	7.0	3.7	3.8		
				21.0		8.2		34.5		96.3		7.0		7.0		4.1	4.1		
				Bottom	27	21.0	21.0	8.2	8.2	34.5	34.5	95.7	95.7	7.0	7.0	7.0	4.1	4.0	
SM12	Sunny	Moderate	12:39	Surface	1	20.7	20.8	8.2	8.2	35.4	35.4	99.6	99.8	7.3	7.3	7.3	6.3	6.1	6.4
						20.8		8.2		35.4		100.0		7.3			5.9		
				Middle	3.5	20.6	20.6	8.2	8.2	35.4	35.4	99.3	99.2	7.3	7.3	5.7	5.6		
				20.6		8.2		35.4		99.0		7.2		7.3		5.5	5.6		
				Bottom	6	20.7	20.7	8.2	8.2	35.4	35.4	97.5	97.5	7.1	7.1	7.1	7.3	7.6	
						20.7		8.2		35.4		97.5		7.1		7.1	7.8	7.6	
SM17	Sunny	Moderate	12:17	Surface	1	21.4	21.5	8.3	8.3	35.7	35.7	100.1	100.4	7.2	7.2	7.1	3.9	3.8	6.6
						21.5		8.3		35.7		100.6		7.2			3.6		
				Middle	8	21.3	21.3	8.3	8.3	35.7	35.7	97.0	97.0	7.0	7.0	6.9	6.9		
				21.3		8.3		35.7		97.0		7.0		7.0		6.9	6.9		
				Bottom	15	21.3	21.3	8.3	8.3	35.7	35.7	96.3	96.4	6.9	6.9	6.9	8.5	9.0	
						21.3		8.3		35.7		96.4		6.9		6.9	9.5	9.0	
SM2	Sunny	Moderate	12:11	Surface	1	21.6	21.6	8.2	8.2	35.6	35.6	100.0	99.5	7.2	7.2	7.1	2.1	2.2	2.6
						21.6		8.2		35.6		99.0		7.1			2.2		
				Middle	7	21.4	21.4	8.2	8.2	35.6	35.6	97.3	97.2	7.0	7.0	2.5	2.6		
				21.4		8.2		35.6		97.1		7.0		7.0		2.6	2.6		
				Bottom	13	21.4	21.4	8.2	8.2	35.6	35.6	96.2	96.2	6.9	6.9	6.9	3.1	3.1	
						21.4		8.2		35.6		96.2		6.9		6.9	3.1	3.1	
SM3	Sunny	Moderate	11:52	Surface	1	21.5	21.5	8.2	8.2	35.6	35.6	96.9	96.8	7.0	7.0	6.9	2.7	2.7	3.3
						21.5		8.2		35.6		96.6		6.9			2.6		
				Middle	15	21.4	21.4	8.2	8.2	35.6	35.6	93.3	93.2	6.7	6.7	3.6	3.7		
				21.4		8.2		35.6		93.1		6.7		6.7		3.8	3.7		
				Bottom	29	21.4	21.4	8.2	8.2	35.6	35.6	93.4	93.2	6.7	6.7	6.7	3.6	3.6	
						21.4		8.2		35.6		93.0		6.7		6.7	3.6	3.6	
SM6	Sunny	Moderate	11:50	Surface	1	21.3	21.3	8.3	8.3	35.6	35.6	99.7	99.4	7.2	7.2	7.1	3.1	3.3	4.9
						21.2		8.3		35.6		99.0		7.1			3.5		
				Middle	7.5	21.1	21.1	8.3	8.3	35.6	35.6	96.5	96.6	7.0	7.0	4.6	4.5		
				21.1		8.3		35.6		96.6		7.0		7.0		4.3	4.5		
				Bottom	14	21.1	21.1	8.3	8.3	35.6	35.6	95.8	95.7	6.9	6.9	6.9	6.9	7.0	
						21.1		8.3		35.6		95.5		6.9		6.9	7.0	7.0	
VM1	Sunny	Moderate	12:06	Surface	1	21.3	21.3	8.3	8.3	32.9	33.0	92.5	92.2	6.8	6.8	6.8	2.0	2.0	2.0
						21.3		8.3		33.0		91.9		6.7			2.0		
				Middle	20	21.2	21.2	8.3	8.3	33.0	33.0	92.3	92.4	6.8	6.8	2.1	2.2		
				21.2		8.3		33.0		92.4		6.8		6.8		2.2	2.2		
				Bottom	39	21.2	21.2	8.3	8.3	33.0	33.0	93.0	93.0	6.8	6.8	6.8	1.9	1.9	
						21.2		8.3		33.0		93.0		6.8		6.8	1.9	1.9	
VM12	Sunny	Moderate	13:48	Surface	1	21.7	21.7	8.1	8.2	33.8	33.8	88.1	86.5	6.4	6.3	6.2	4.5	4.4	5.7
						21.7		8.2		33.8		84.8		6.1			4.2		
				Middle	10	21.7	21.7	8.2	8.2	33.8	33.8	84.3	83.8	6.1	6.1	5.3	5.2		
				21.7		8.2		33.8		83.2		6.0		6.1		5.1	5.2		
				Bottom	19	21.6	21.6	8.2	8.2	33.9	33.9	82.5	81.9	6.0	6.0	6.0	7.4	7.5	
						21.6		8.2		33.8		81.3		5.9		6.0	7.5	7.5	

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

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Water Quality Monitoring Results on 10 December 2017 (Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity (NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
VM14	Sunny	Moderate	13:12	Surface	1	21.6	21.6	8.2	8.2	33.8	33.8	83.7	83.3	6.1	6.1	6.1	12.8	12.4	13.1
						21.6		8.2		33.8		82.9		6.0			12.0		
				Middle	6.5	21.6	21.6	8.2	8.2	33.8	33.8	82.8	82.7	6.0	6.0		11.8	11.9	
				21.6		8.2		33.8		82.5		6.0		6.0		14.9	14.9		
				Bottom	12	21.6	21.6	8.2	8.2	33.8	33.8	82.2	82.2	5.9	6.0	6.0	14.8	14.8	
						21.6		8.2		33.8		82.2		6.0					
VM15	Sunny	Moderate	12:48	Surface	1	21.6	21.6	8.1	8.1	33.9	33.9	84.2	84.2	6.1	6.1	6.1	4.4	4.4	5.5
						21.6		8.1		33.9		84.1		6.1			4.3		
				Middle	5.5	21.6	21.6	8.1	8.1	33.9	33.9	83.7	83.7	6.1	6.1		4.5	4.5	
				Bottom	10	21.5	21.5	8.2	8.2	33.9	33.9	83.9	83.9	6.1	6.1	6.1	7.5	7.6	
						21.5		8.2		33.9		83.8		6.1			7.6	7.6	
VM2	Sunny	Moderate	11:38	Surface	1	21.6	21.7	8.2	8.2	32.8	32.8	89.9	88.5	6.6	6.5	6.4	1.7	1.8	2.6
						21.7		8.2		32.7		87.1		6.3			1.8		
				Middle	6.5	21.4	21.4	8.2	8.2	32.9	32.9	84.7	85.1	6.2	6.2		2.9	2.9	
				Bottom	12	21.4	21.4	8.2	8.2	32.9	32.9	84.3	84.3	6.2	6.2	6.2	3.2	3.2	
						21.4		8.2		32.9		84.3		6.2			3.1	3.1	
VM4	Sunny	Moderate	11:35	Surface	1	21.5	21.5	8.1	8.1	33.5	33.5	88.4	88.1	6.4	6.4	6.3	2.0	2.0	3.0
						21.5		8.1		33.5		87.8		6.4			2.0		
				Middle	7	21.4	21.4	8.1	8.1	33.8	33.8	84.8	84.6	6.2	6.2		3.3	3.3	
				Bottom	13	21.4	21.4	8.2	8.2	33.8	33.8	83.8	83.6	6.1	6.1	6.1	3.9	3.7	
						21.4		8.1		33.8		83.4		6.1			3.5	3.5	
VM5	Sunny	Moderate	11:54	Surface	1	21.4	21.5	8.2	8.2	33.8	33.8	83.6	83.4	6.1	6.1	6.1	2.7	2.7	3.0
						21.5		8.2		33.8		83.1		6.0			2.6		
				Middle	6.5	21.4	21.4	8.2	8.2	33.8	33.8	82.6	82.5	6.0	6.0		3.1	3.1	
				Bottom	12	21.4	21.4	8.2	8.2	33.8	33.8	82.2	82.1	6.0	6.0	6.0	3.1	3.1	
						21.4		8.2		33.8		82.0		6.0			3.1	3.1	
VM7	Sunny	Moderate	12:20	Surface	1	21.5	21.5	8.2	8.2	33.8	33.8	83.5	82.9	6.1	6.1	6.1	3.0	3.2	3.8
						21.5		8.2		33.8		82.2		6.0			3.3		
				Middle	6.5	21.5	21.5	8.2	8.2	33.8	33.8	82.1	81.9	6.0	6.0		3.6	3.6	
				Bottom	12	21.5	21.5	8.2	8.2	33.8	33.8	81.6	81.3	5.9	5.9	5.9	4.6	4.5	
						21.5		8.2		33.8		81.2		5.9			4.3	4.3	
VM8	Sunny	Moderate	12:37	Surface	1	21.6	21.6	8.2	8.2	33.9	33.9	87.6	87.1	6.3	6.3	6.4	3.9	3.8	6.9
						21.6		8.2		33.9		86.6		6.3			3.6		
				Middle	6	21.5	21.5	8.2	8.2	34.0	34.0	89.1	88.8	6.5	6.5		7.7	7.4	
				Bottom	11	21.5	21.5	8.2	8.2	34.0	34.0	88.5	89.0	6.4	6.4	6.4	9.1	9.4	
						21.5		8.2		34.0		89.0		6.4			9.7	9.7	
WM1	Sunny	Moderate	11:29	Surface	1	21.5	21.5	8.2	8.2	35.5	35.5	91.6	91.4	6.6	6.6	6.6	2.8	2.9	4.1
						21.5		8.2		35.5		91.1		6.5			2.9		
				Middle	15.5	21.4	21.5	8.2	8.2	35.5	35.5	91.0	91.2	6.5	6.6		3.9	4.0	
				Bottom	30	21.5	21.5	8.2	8.2	35.6	35.6	92.8	92.7	6.7	6.7	6.7	5.2	5.3	
						21.4		8.2		35.6		92.5		6.6			5.3	5.3	

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

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Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity (NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
WM14	Sunny	Moderate	11:37	Surface	1	21.5	21.5	8.2	8.2	33.8	33.8	89.9	89.7	6.5	6.5	6.5	4.0	4.3	7.9
					21.4	21.4	8.2	8.2	33.8	33.8	89.5	88.2	6.5	6.4	4.5		5.8		
				Middle	15	21.4	21.4	8.2	8.2	33.8	33.8	88.2	88.2	6.4	6.4	6.4	6.4	5.6	
				Bottom	29	21.4	21.4	8.2	8.2	33.8	33.8	86.9	86.9	6.3	6.3	6.3	13.3	13.7	13.5
WM2	Sunny	Moderate	11:25	Surface	1	21.6	21.6	8.2	8.2	35.3	35.3	89.0	88.9	6.4	6.4	6.4	3.3	3.3	4.8
					21.6	21.5	8.2	8.2	35.3	35.3	88.7	88.3	6.4	6.3	3.3		3.7		
				Middle	7.5	21.5	21.5	8.2	8.2	35.3	35.3	88.2	88.3	6.3	6.3	6.3	6.3	3.6	
				Bottom	14	21.5	21.5	8.2	8.2	35.3	35.3	87.8	87.8	6.3	6.3	6.3	6.9	7.9	7.4
WSD10	Sunny	Moderate	11:28	Surface	1	21.5	21.5	8.2	8.2	32.8	32.9	88.1	88.0	6.4	6.4	6.4	3.0	3.0	4.2
					21.4	21.4	8.2	8.2	32.9	32.9	87.9	87.0	6.4	6.4	3.0		4.8		
				Middle	5.5	21.4	21.4	8.2	8.2	32.9	32.9	86.8	87.0	6.3	6.4	6.4	6.4	4.8	
				Bottom	10	21.3	21.3	8.2	8.2	32.9	32.9	88.4	88.6	6.5	6.5	6.5	4.3	5.1	4.7
WSD11	Sunny	Moderate	11:18	Surface	1	21.4	21.4	8.2	8.2	32.7	32.7	93.6	91.0	6.8	6.7	6.6	2.8	2.7	3.0
					21.4	21.4	8.2	8.2	32.7	32.7	88.3	87.4	6.5	6.4	2.6		3.1		
				Middle	7.5	21.3	21.4	8.2	8.2	32.9	32.9	87.5	87.4	6.4	6.4	6.4	6.4	2.9	
				Bottom	14	21.3	21.3	8.2	8.2	32.9	32.9	87.8	87.8	6.4	6.4	6.4	3.1	3.2	3.2
WSD12	Sunny	Moderate	13:06	Surface	1	21.5	21.5	8.3	8.3	33.0	33.0	94.3	93.8	6.9	6.9	6.9	3.2	2.9	2.9
					21.5	21.5	8.3	8.3	33.0	33.0	93.3	93.8	6.8	6.8	2.6		2.7		
				Middle	4	21.5	21.5	8.3	8.3	33.0	33.0	93.7	93.8	6.8	6.8	6.8	6.8	2.7	
				Bottom	7	21.2	21.3	8.3	8.3	33.1	33.1	94.0	94.0	6.9	6.9	6.9	3.3	3.0	3.2
WSD13	Sunny	Moderate	12:27	Surface	1	21.4	21.4	8.3	8.3	33.0	33.0	96.6	96.1	7.0	7.0	7.0	1.9	1.8	1.9
					21.4	21.3	8.3	8.3	33.0	33.0	95.5	95.5	7.0	7.0	7.0		7.0	1.6	
				Middle	5.5	21.3	21.3	8.3	8.3	33.0	33.0	95.7	95.5	7.0	7.0	7.0	7.0	1.9	
				Bottom	10	21.3	21.3	8.3	8.3	33.0	33.0	95.4	95.4	7.0	7.0	7.0	1.9	1.9	1.9
WSD15	Sunny	Moderate	11:58	Surface	1	21.3	21.4	8.3	8.3	32.9	32.9	92.6	90.5	6.8	6.7	6.7	3.3	3.3	4.0
					21.4	21.3	8.2	8.3	32.9	33.0	88.4	89.9	6.5	6.5	3.3		3.6		
				Middle	6.5	21.2	21.3	8.3	8.3	33.0	33.0	91.3	89.9	6.7	6.6	6.7	6.6	3.6	
				Bottom	12	21.2	21.2	8.3	8.3	33.0	33.0	92.0	91.5	6.7	6.7	6.7	5.2	5.2	5.2
WSD17	Sunny	Moderate	11:45	Surface	1	21.5	21.5	8.2	8.2	32.8	32.8	87.1	86.4	6.4	6.3	6.3	2.9	2.9	3.6
					21.5	21.4	8.2	8.2	32.8	32.9	85.6	85.3	6.2	6.3	2.9		3.1		
				Middle	5.5	21.4	21.4	8.2	8.2	32.9	32.9	85.6	85.3	6.3	6.3	6.3	6.3	3.6	
				Bottom	10	21.4	21.4	8.2	8.2	32.9	32.9	85.0	84.9	6.2	6.2	6.2	4.4	4.5	4.6

Remarks: *DA: Depth-Averaged
 **Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 10 December 2017 (Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity (NTU)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
WSD18	Sunny	Moderate	12:04	Surface	1	21.5	21.5	8.2	8.2	33.7	33.7	82.5	82.2	6.0	6.0	6.0	3.7	3.8	4.0
					21.5	21.5	8.2	8.2	33.7	33.7	81.8	81.1	5.9	5.9	3.9		3.8		
				Middle	5.5	21.5	21.5	8.2	8.2	33.8	33.8	81.3	81.1	5.9	5.9		4.0	3.8	
					21.5	21.5	8.2	8.2	33.8	33.8	80.8	81.1	5.9	5.9	3.6		3.8		
				Bottom	10	21.5	21.5	8.2	8.2	33.8	33.8	79.8	79.8	5.8	5.8		4.5	4.5	
					21.5	21.5	8.2	8.2	33.8	33.8	79.7	79.8	5.8	5.8	4.4		4.5		
WSD19	Sunny	Moderate	12:12	Surface	1	21.5	21.5	8.1	8.1	33.8	33.8	81.5	81.4	5.9	5.9	5.9	4.1	4.2	3.9
					21.5	21.5	8.1	8.1	33.8	33.8	81.3	81.5	5.9	5.9	4.2		4.2		
				Middle	6.5	21.5	21.5	8.1	8.1	33.8	33.8	81.8	81.5	5.9	5.9		3.6	3.6	
					21.5	21.5	8.1	8.1	33.8	33.8	81.2	81.5	5.9	5.9	3.5		3.6		
				Bottom	12	21.5	21.5	8.2	8.2	33.8	33.8	81.3	81.1	5.9	5.9		3.7	3.9	
					21.5	21.5	8.2	8.2	33.8	33.8	80.9	81.1	5.9	5.9	4.0		3.9		
WSD20	Sunny	Moderate	12:29	Surface	1	21.6	21.6	8.1	8.1	33.9	33.9	85.1	85.1	6.2	6.2	6.3	3.2	3.2	5.6
					21.6	21.6	8.1	8.1	33.9	33.9	85.0	85.1	6.2	6.2	3.1		3.2		
				Middle	5	21.5	21.5	8.1	8.1	34.0	34.0	87.7	87.7	6.4	6.4		6.0	6.1	
					21.5	21.5	8.1	8.1	34.0	34.0	87.7	87.7	6.4	6.4	6.2		6.1		
				Bottom	9	21.5	21.5	8.2	8.2	34.0	34.0	87.7	87.7	6.4	6.4		7.5	7.6	
					21.5	21.5	8.2	8.2	34.0	34.0	87.6	87.7	6.3	6.4	7.6		7.6		
WSD21	Sunny	Moderate	12:00	Surface	1	21.3	21.4	8.2	8.2	35.6	35.6	99.0	98.3	7.1	7.1	7.1	2.2	2.3	2.5
					21.4	21.4	8.2	8.2	35.6	35.6	97.6	98.3	7.0	7.1	2.3		2.3		
				Middle	3.5	21.3	21.3	8.2	8.2	35.6	35.6	97.5	97.2	7.0	7.0		2.4	2.6	
					21.3	21.3	8.2	8.2	35.6	35.6	96.8	97.2	7.0	7.0	2.7		2.6		
				Bottom	6	21.3	21.3	8.2	8.2	35.6	35.6	96.8	96.7	7.0	7.0		2.6	2.7	
					21.3	21.3	8.2	8.2	35.6	35.6	96.6	96.7	7.0	7.0	2.7		2.7		
WSD22	Sunny	Moderate	11:48	Surface	1	21.5	21.5	8.1	8.1	33.7	33.7	83.7	83.4	6.1	6.1	6.1	3.4	3.5	4.8
					21.5	21.5	8.1	8.1	33.7	33.7	83.0	83.4	6.0	6.1	3.5		3.5		
				Middle	4	21.4	21.4	8.1	8.1	33.8	33.8	83.6	83.3	6.1	6.1		5.2	5.2	
					21.4	21.4	8.1	8.1	33.8	33.8	83.0	83.3	6.0	6.1	5.1		5.2		
				Bottom	7	21.4	21.4	8.1	8.1	33.8	33.8	83.4	83.2	6.1	6.1		5.8	5.8	
					21.4	21.4	8.1	8.1	33.8	33.8	83.0	83.2	6.0	6.1	5.7		5.8		
WSD4	Sunny	Moderate	13:02	Surface	1	21.6	21.6	8.2	8.2	33.9	33.9	87.7	87.1	6.3	6.3	6.3	4.6	4.4	5.1
					21.6	21.6	8.2	8.2	33.9	33.9	86.5	86.3	6.3	6.3	4.2		4.4		
				Middle	4.5	21.6	21.6	8.2	8.2	33.9	33.9	86.5	86.3	6.3	6.3		6.2	6.2	
					21.6	21.6	8.2	8.2	33.9	33.9	86.1	86.3	6.2	6.3	6.2		6.2		
				Bottom	8	21.6	21.6	8.2	8.2	33.9	33.9	85.5	85.4	6.2	6.2		4.5	4.7	
					21.6	21.6	8.2	8.2	33.9	33.9	85.2	85.4	6.2	6.2	4.9		4.7		

Remarks: *DA: Depth-Averaged

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DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Water Quality Monitoring Results on 10 December 2017 (Mid-Flood Tide)

Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)			
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
WSD5	Sunny	Moderate	13:29	Surface	1	21.7	21.7	8.2	8.2	33.8	33.8	85.1	84.6	6.2	6.2	6.1	3.9	3.9	5.3
						21.7		8.1		33.8		84.1		6.1			3.9		
				Middle	9.5	21.6	21.6	8.2	8.2	33.8	33.8	83.0	82.9	6.0	6.0		4.3	4.5	
		21.6		8.2		33.8		82.7		6.0		6.0	4.7						
		21.6	21.6	8.2	8.2	33.8	33.8	82.3	82.0	6.0	6.0	6.0	7.3	7.4					
		21.6		8.2		33.8		81.6		5.9		6.0	7.4						
WSD6	Sunny	Moderate	12:58	Surface	1	21.7	21.7	8.1	8.1	33.5	33.6	77.3	77.3	5.6	5.6	5.6	2.7	2.9	5.0
						21.7		8.1		33.6		77.2		5.6			3.0		
				Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	
		21.5	21.5	8.2	8.2	33.6	33.6	76.3	76.1	5.5	5.5	5.5	7.0	7.1					
		21.5		8.2		33.6		75.9		5.5		5.5	7.2	7.1					
WSD7	Sunny	Moderate	13:08	Surface	1	21.5	21.6	8.1	8.1	33.8	33.8	81.6	81.2	5.9	5.9	5.9	5.2	5.2	5.3
						21.6		8.1		33.8		80.7		5.8			5.1		
				Middle	4.5	21.5	21.5	8.2	8.2	33.8	33.8	80.8	80.6	5.9	5.9		5.2	5.3	
		21.5		8.2		33.8		80.4		5.8		5.9	5.3						
		21.5	21.5	8.2	8.2	33.8	33.8	80.1	80.1	5.8	5.8	5.8	5.3	5.3					
		21.5		8.2		33.8		80.0		5.8		5.8	5.2						
WSD9	Sunny	Moderate	11:29	Surface	1	21.3	21.3	8.1	8.1	33.8	33.8	82.9	82.8	6.0	6.0	6.0	4.8	4.8	5.3
						21.3		8.1		33.8		82.7		6.0			4.7		
				Middle	4	21.2	21.2	8.1	8.1	33.8	33.8	82.0	81.9	6.0	6.0		5.3	5.4	
		21.2		8.1		33.8		81.7		6.0		6.0	5.4						
		21.2	21.2	8.1	8.1	33.8	33.8	82.0	81.7	6.0	6.0	6.0	5.7	5.6					
		21.2		8.1		33.8		81.4		5.9		6.0	5.4						

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DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Baseline Water Quality Monitoring Results

Date	Location	Tide	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)					
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*			
20-Jan-18	B10	Mid-Ebb	Cloudy	Calm	14:42	Surface	1	17.8 17.8	17.8	8.5 8.5	8.5	32.5 32.6	32.6	112.0 115.1	113.6	8.8 9.0	8.9	8.9	1.7 2.0	1.9	1.8			
						Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	-
						Bottom	3.1	17.5 17.5	17.5	8.5 8.5	8.5	33.0 33.1	33.1	110.8 109.7	110.3	8.7 8.6	8.7		8.7	1.7 1.7		1.7		
20-Jan-18	B11	Mid-Ebb	Cloudy	Calm	14:46	Surface	-	-	-	-	-	-	-	-	-	-	8.9	-	-	2.0				
						Middle	1.4	17.6 17.6	17.6	8.5 8.5	8.5	32.8 32.8	32.8	113.9 113.8	113.9	8.9 8.9		8.9	2.0 2.0		2.0			
						Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-	-		
20-Jan-18	B12	Mid-Ebb	Cloudy	Calm	14:49	Surface	1	17.6 18.0	17.8	8.5 8.6	8.6	32.7 32.4	32.6	112.9 123.9	118.4	8.9 9.7	9.3	9.3	2.0 2.0	2.0	2.2			
						Middle	-	-	-	-	-	-	-	-	-	-	-		-	-				
						Bottom	3.1	17.5 17.5	17.5	8.5 8.5	8.5	33.1 33.0	33.1	106.9 110.0	108.5	8.4 8.6	8.5		8.5	2.1 2.4		2.3		
20-Jan-18	B13	Mid-Ebb	Cloudy	Calm	14:57	Surface	1	17.9 18.0	18.0	8.5 8.5	8.5	32.5 32.4	32.5	118.1 119.5	118.8	9.2 9.3	9.3	9.3	1.3 1.4	1.4	1.5			
						Middle	3	17.7 17.8	17.8	8.5 8.6	8.6	32.6 32.6	32.6	118.3 119.5	118.9	9.3 9.3	9.3		1.4 1.3	1.4				
						Bottom	5	17.6 17.6	17.6	8.5 8.5	8.5	32.7 32.8	32.8	117.2 117.0	117.1	9.2 9.2	9.2		9.2	1.7 1.7		1.7		
20-Jan-18	B14	Mid-Ebb	Cloudy	Calm	14:03	Surface	-	-	-	-	-	-	-	-	-	-	8.8	-	-	1.8				
						Middle	1	17.7 17.7	17.7	8.5 8.5	8.5	33.4 33.4	33.4	111.6 112.2	111.9	8.7 8.8		8.8	1.8 1.8		1.8			
						Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-			
20-Jan-18	B24	Mid-Ebb	Sunny	Rough	15:01	Surface	1	17.3 17.3	17.3	8.5 8.5	8.5	32.2 32.2	32.2	109.3 110.8	110.1	8.7 8.8	8.8	8.8	1.2 1.2	1.2	1.6			
						Middle	4	17.2 17.2	17.2	8.5 8.5	8.5	32.2 32.2	32.2	110.0 110.9	110.5	8.7 8.8	8.8		1.3 1.2	1.3				
						Bottom	7	17.1 16.9	17.0	8.5 8.4	8.5	32.2 32.3	32.3	109.2 106.7	108.0	8.7 8.5	8.6		8.6	2.6 2.2		2.4		
20-Jan-18	B25	Mid-Ebb	Sunny	Rough	14:38	Surface	1	17.6 17.6	17.6	8.4 8.4	8.4	32.1 32.1	32.1	105.2 108.1	106.7	8.3 8.5	8.4	8.4	0.7 0.7	0.7	0.7			
						Middle	-	-	-	-	-	-	-	-	-	-	-		-					
						Bottom	4.1	17.3 17.5	17.4	8.4 8.4	8.4	32.2 32.2	32.2	106.0 108.3	107.2	8.4 8.5	8.5		8.5	0.7 0.7		0.7		
20-Jan-18	B26	Mid-Ebb	Sunny	Rough	14:08	Surface	1	17.2 17.3	17.3	8.4 8.4	8.4	32.2 32.2	32.2	109.8 110.0	109.9	8.7 8.7	8.7	8.7	1.0 1.0	1.0	1.2			
						Middle	5	17.1 17.0	17.1	8.4 8.4	8.4	32.3 32.3	32.3	108.9 109.4	109.2	8.7 8.7	8.7		1.0 1.0	1.0				
						Bottom	9	16.9 16.9	16.9	8.4 8.4	8.4	32.3 32.3	32.3	107.3 107.0	107.2	8.6 8.5	8.6		8.6	1.4 1.5		1.5		

Remarks: *DA: Depth-Averaged

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Baseline Water Quality Monitoring Results

Date	Location	Tide	Weather Condition	Sea Condition**	Sampling Time	Depth (m)	Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	
20-Jan-18	B30	Mid-Ebb	Sunny	Moderate	14:19	Surface	-	-	-	-	-	-	-	-	-	-	9.5	-	-	1.3	
						Middle	1.2	17.2 17.3	17.3	8.3 8.3	8.3	34.8 34.8	34.8	121.1 122.3	121.7	9.5 9.5		9.5	1.4 1.2		1.3
						Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-
20-Jan-18	B31	Mid-Ebb	Sunny	Moderate	14:29	Surface	-	-	-	-	-	-	-	-	-	8.9	-	-	1.2		
						Middle	1.2	17.2 17.2	17.2	8.3 8.3	8.3	34.8 34.8	34.8	112.8 113.3	113.1		8.8 8.9	8.9		1.2 1.2	1.2
						Bottom	-	-	-	-	-	-	-	-	-		-	-		-	-
20-Jan-18	B32	Mid-Ebb	Sunny	Moderate	14:38	Surface	-	-	-	-	-	-	-	-	-	9.3	-	-	1.3		
						Middle	1.2	17.4 17.4	17.4	8.3 8.3	8.3	34.7 34.7	34.7	118.1 120.0	119.1		9.2 9.3	9.3		1.3 1.3	1.3
						Bottom	-	-	-	-	-	-	-	-	-		-	-		-	-
20-Jan-18	B33	Mid-Ebb	Sunny	Moderate	14:43	Surface	1	17.5 17.5	17.5	8.3 8.3	8.3	34.7 34.7	34.7	114.5 114.6	114.6	8.9 8.9	8.9	8.9	1.0 1.0	1.0	1.0
						Middle	4	17.3 17.3	17.3	8.3 8.3	8.3	34.7 34.7	34.7	113.1 113.3	113.2	8.8 8.8	8.8		0.9 0.9	0.9	
						Bottom	7	17.2 17.2	17.2	8.3 8.3	8.3	34.7 34.7	34.7	112.1 112.7	112.4	8.8 8.8	8.8		1.0 0.9	1.0	
20-Jan-18	B34	Mid-Ebb	Sunny	Moderate	14:49	Surface	1	17.4 17.4	17.4	8.3 8.3	8.3	34.7 34.7	34.7	113.9 114.4	113.0	8.7 8.9	8.8	8.9	0.9 0.9	0.9	0.9
						Middle	3	17.3 17.4	17.4	8.3 8.3	8.3	34.7 34.7	34.7	114.1 114.4	114.3	8.9 8.9	8.9		1.0 0.9	1.0	
						Bottom	5	17.3 17.3	17.3	8.3 8.3	8.3	34.7 34.7	34.7	113.9 114.0	114.0	8.9 8.9	8.9		0.9 0.9	0.9	
20-Jan-18	B35	Mid-Ebb	Sunny	Moderate	14:58	Surface	1	17.4 17.4	17.4	8.3 8.3	8.3	34.7 34.7	34.7	113.9 115.7	114.8	8.9 9.0	9.0	9.0	1.2 1.1	1.2	1.1
						Middle	4.5	17.3 17.3	17.3	8.3 8.3	8.3	34.7 34.7	34.7	115.1 115.6	115.4	9.0 9.0	9.0		1.1 1.0	1.1	
						Bottom	8	17.3 17.3	17.3	8.3 8.3	8.3	34.7 34.7	34.7	114.5 114.4	114.5	8.9 8.9	8.9		1.1 1.0	1.1	
20-Jan-18	B7	Mid-Ebb	Cloudy	Calm	14:25	Surface	-	-	-	-	-	-	-	-	-	-	8.3	-	-	2.0	
						Middle	1	17.6 17.6	17.6	8.5 8.5	8.5	33.3 33.3	33.3	104.9 107.2	106.1	8.2 8.4		8.3	2.0 2.0		2.0
						Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-
20-Jan-18	B8	Mid-Ebb	Cloudy	Calm	14:32	Surface	1	17.5 17.5	17.5	8.5 8.5	8.5	33.2 33.2	33.2	106.8 106.4	106.6	8.4 8.3	8.4	8.4	1.6 1.5	1.6	1.7
						Middle	5	17.5 17.5	17.5	8.5 8.5	8.5	33.2 33.2	33.2	106.6 106.6	106.6	8.4 8.4	8.4		1.7 1.6	1.7	
						Bottom	9	17.4 17.4	17.4	8.5 8.5	8.5	33.4 33.4	33.4	104.0 104.4	104.2	8.2 8.2	8.2		1.7 1.7	1.7	

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Baseline Water Quality Monitoring Results

Date	Location	Tide	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)				
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*		
20-Jan-18	B9	Mid-Ebb	Cloudy	Calm	14:37	Surface	1	18.2 18.0	18.1	8.6 8.5	8.6	32.2 32.3	32.3	117.2 120.0	118.6	9.1 9.4	9.3	9.3	1.5 1.6	1.6	1.8		
						Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
						Bottom	4.1	17.7 17.5	17.6	8.5 8.5	8.5	32.8 33.2	33.0	111.6 111.8	111.7	8.7 8.8	8.8	8.8	8.8	1.9 2.0		2.0	
20-Jan-18	EM1	Mid-Ebb	Sunny	Moderate	14:48	Surface	1	17.4 17.3	17.4	8.1 8.1	8.1	32.2 32.2	32.2	112.1 112.9	112.5	8.9 8.9	8.9	8.9	0.5 0.5	0.5	0.6		
						Middle	9	17.0 17.0	17.0	8.1 8.1	8.1	32.3 32.3	32.3	111.7 112.0	111.9	8.9 8.9	8.9	8.9	0.5 0.5	0.5			
						Bottom	17	16.9 16.9	16.9	8.0 8.1	8.1	32.4 32.4	32.4	107.7 107.9	107.8	8.6 8.6	8.6	8.6	0.7 0.8	0.8			
20-Jan-18	EM2	Mid-Ebb	Sunny	Moderate	14:23	Surface	1	17.1 17.0	17.1	8.1 8.1	8.1	32.3 32.3	32.3	108.9 112.2	110.6	8.6 8.9	8.8	8.9	0.7 0.7	0.7	0.8		
						Middle	10	16.9 16.9	16.9	8.1 8.1	8.1	32.4 32.4	32.4	110.4 111.6	111.0	8.8 8.9	8.9	8.9	0.8 0.8	0.8			
						Bottom	19	16.9 16.9	16.9	8.1 8.1	8.1	32.4 32.5	32.5	111.1 111.6	111.4	8.9 8.9	8.9	8.9	1.0 1.0	1.0			
20-Jan-18	EM3	Mid-Ebb	Sunny	Rough	14:22	Surface	1	17.3 17.3	17.3	8.4 8.4	8.4	32.2 32.2	32.2	112.1 112.7	112.4	8.9 8.9	8.9	9.0	0.7 0.7	0.7	0.9		
						Middle	11	17.0 16.9	17.0	8.5 8.5	8.5	32.3 32.3	32.3	112.4 112.0	112.2	9.0 8.9	9.0	9.0	0.8 0.8	0.8			
						Bottom	21	16.9 16.9	16.9	8.5 8.5	8.5	32.4 32.4	32.4	111.2 110.9	111.1	8.9 8.8	8.9	8.9	1.0 1.1	1.1			
20-Jan-18	F1	Mid-Ebb	Sunny	Moderate	14:33	Surface	1	17.2 17.1	17.2	8.1 8.1	8.1	32.3 32.3	32.3	111.7 114.1	112.9	8.9 9.1	9.0	9.1	0.3 0.3	0.3	0.6		
						Middle	5.5	17.0 17.0	17.0	8.1 8.1	8.1	32.4 32.4	32.4	115.5 115.7	115.6	9.2 9.2	9.2	9.2	0.2 0.2	0.2			
						Bottom	10	16.9 16.9	16.9	8.1 8.1	8.1	32.5 32.5	32.5	113.1 112.8	113.0	9.0 9.0	9.0	9.0	1.2 1.1	1.2			
20-Jan-18	F4	Mid-Ebb	Sunny	Moderate	16:01	Surface	1	17.6 17.7	17.7	8.3 8.3	8.3	34.3 34.3	34.3	116.1 117.3	116.7	9.0 9.1	9.1	9.0	1.1 1.1	1.1	1.3		
						Middle	5	17.4 17.4	17.4	8.3 8.3	8.3	34.5 34.5	34.5	112.8 112.9	112.9	8.8 8.8	8.8	8.8	1.1 1.3	1.2			
						Bottom	9	17.2 17.2	17.2	8.3 8.3	8.3	34.6 34.6	34.6	107.5 107.2	107.4	8.4 8.4	8.4	8.4	1.5 1.5	1.5			
20-Jan-18	F5	Mid-Ebb	Cloudy	Calm	14:13	Surface	1	17.6 17.5	17.6	8.5 8.5	8.5	32.9 32.9	32.9	102.8 107.6	105.2	8.1 8.4	8.3	8.3	2.2 2.0	2.1	2.7		
						Middle	3.5	17.5 17.4	17.5	8.5 8.5	8.5	33.1 33.1	33.1	105.0 104.3	104.7	8.2 8.2	8.2	8.2	2.9 2.6	2.8			
						Bottom	6	17.4 17.4	17.4	8.5 8.5	8.5	33.2 33.1	33.2	102.9 103.9	103.4	8.1 8.2	8.2	8.2	3.3 3.0	3.2			
20-Jan-18	JM3	Mid-Ebb	Sunny	Moderate	15:01	Surface	1	17.9 17.7	17.8	8.0 8.0	8.0	32.1 32.2	32.2	109.8 112.4	111.1	8.6 8.8	8.7	8.7	0.2 0.2	0.2	0.3		
						Middle	5.5	17.0 17.0	17.0	8.0 8.0	8.0	32.2 32.2	32.2	109.3 109.6	109.5	8.7 8.7	8.7	8.7	0.2 0.2	0.2			
						Bottom	10	16.9 16.9	16.9	8.1 8.1	8.1	32.3 32.3	32.3	109.1 109.2	109.2	8.7 8.7	8.7	8.7	0.4 0.4	0.4			

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								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
20-Jan-18	MM13	Mid-Ebb	Sunny	Rough	13:05	Surface	1	16.8 16.8	16.8	8.5 8.5	8.5	32.3 32.3	32.3	118.0 118.6	118.3	9.4 9.5	9.5	9.2	0.5 0.4	0.5	1.0
						Middle	14.5	16.6 16.7	16.7	8.5 8.5	8.5	32.3 32.4	32.4	111.5 111.2	111.4	8.9 8.9	8.9		1.7 1.6	1.7	
						Bottom	28	16.7 16.9	16.8	8.5 8.5	8.5	32.4 32.6	32.5	108.6 108.0	108.3	8.7 8.6	8.7		0.9 0.9	0.9	
20-Jan-18	SM12	Mid-Ebb	Sunny	Rough	13:21	Surface	1	17.7 17.7	17.7	8.0 8.1	8.1	34.1 34.1	34.1	127.8 128.3	128.1	9.9 10.0	10.0	9.9	1.0 1.1	1.1	2.9
						Middle	4	17.6 17.6	17.6	8.1 8.1	8.1	34.2 34.2	34.2	125.1 125.9	125.5	9.7 9.8	9.8		2.1 2.2	2.2	
						Bottom	7	17.6 17.6	17.6	8.0 8.0	8.0	34.3 34.3	34.3	123.5 123.8	123.7	9.6 9.6	9.6		5.3 5.4	5.4	
20-Jan-18	SM17	Mid-Ebb	Sunny	Rough	13:43	Surface	1	17.3 17.3	17.3	8.0 8.0	8.0	34.6 34.6	34.6	108.2 107.8	108.0	8.5 8.4	8.5	8.4	1.4 1.3	1.4	1.9
						Middle	8	17.2 17.2	17.2	8.0 8.0	8.0	34.6 34.6	34.6	106.0 105.8	105.9	8.3 8.3	8.3		1.7 1.5	1.6	
						Bottom	15	17.1 17.1	17.1	8.0 8.0	8.0	34.6 34.6	34.6	104.4 104.5	104.5	8.2 8.2	8.2		2.8 2.6	2.7	
20-Jan-18	SM2	Mid-Ebb	Sunny	Moderate	15:10	Surface	1	17.5 17.4	17.5	8.3 8.3	8.3	34.7 34.7	34.7	112.8 113.6	113.2	8.8 8.8	8.8	8.8	0.7 0.7	0.7	1.1
						Middle	7	17.2 17.2	17.2	8.3 8.3	8.3	34.7 34.7	34.7	111.7 112.1	111.9	8.7 8.8	8.8		1.0 0.9	1.0	
						Bottom	13	17.0 17.0	17.0	8.3 8.3	8.3	34.8 34.8	34.8	107.7 107.7	107.7	8.4 8.4	8.4		1.5 1.5	1.5	
20-Jan-18	SM3	Mid-Ebb	Sunny	Moderate	15:22	Surface	1	17.4 17.5	17.5	8.3 8.3	8.3	34.6 34.5	34.6	111.8 115.4	113.6	8.7 9.0	8.9	8.8	0.8 0.9	0.9	0.9
						Middle	15.5	17.3 17.4	17.4	8.3 8.3	8.3	34.6 34.6	34.6	109.3 110.4	109.9	8.5 8.6	8.6		1.0 1.0	1.0	
						Bottom	30	17.3 17.3	17.3	8.3 8.3	8.3	34.6 34.6	34.6	109.1 108.5	108.8	8.5 8.5	8.5		0.9 0.8	0.9	
20-Jan-18	SM6	Mid-Ebb	Sunny	Rough	14:23	Surface	1	17.4 17.4	17.4	8.0 8.0	8.0	34.5 34.5	34.5	112.0 112.4	112.2	8.7 8.8	8.8	8.8	0.9 0.9	0.9	1.6
						Middle	7	17.3 17.3	17.3	8.0 8.0	8.0	34.5 34.5	34.5	111.5 111.8	111.7	8.7 8.7	8.7		1.0 1.0	1.0	
						Bottom	13	17.2 17.2	17.2	8.0 8.0	8.0	34.5 34.5	34.5	109.6 109.6	109.6	8.6 8.6	8.6		2.9 2.8	2.9	
20-Jan-18	VM1	Mid-Ebb	Sunny	Moderate	13:59	Surface	1	17.2 17.2	17.2	8.0 8.0	8.0	32.1 32.1	32.1	106.2 107.8	107.0	8.4 8.6	8.5	8.4	1.7 1.7	1.7	1.2
						Middle	15.5	17.0 17.0	17.0	8.0 8.0	8.0	32.2 32.2	32.2	104.4 104.4	104.4	8.3 8.3	8.3		0.9 0.9	0.9	
						Bottom	30	17.0 17.0	17.0	8.0 8.0	8.0	32.2 32.2	32.2	104.5 104.6	104.6	8.3 8.3	8.3		0.9 0.8	0.9	
20-Jan-18	VM12	Mid-Ebb	Cloudy	Calm	15:54	Surface	1	17.7 17.6	17.7	8.5 8.5	8.5	33.7 33.7	33.7	105.5 108.2	106.9	8.2 8.4	8.3	8.2	1.7 1.7	1.7	2.0
						Middle	10	17.5 17.5	17.5	8.5 8.5	8.5	33.8 33.8	33.8	102.9 102.4	102.7	8.0 8.0	8.0		1.8 1.7	1.8	
						Bottom	19	17.4 17.4	17.4	8.4 8.4	8.4	34.0 33.9	34.0	94.8 95.5	95.2	7.4 7.5	7.5		2.5 2.2	2.4	

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								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
20-Jan-18	VM14	Mid-Ebb	Cloudy	Calm	15:20	Surface	1	17.7 17.7	17.7	8.5 8.5	8.5	33.4 33.3	33.4	107.8 111.5	109.7	8.4 8.7	8.6	8.5	1.6 1.7	1.7	2.4
						Middle	6.5	17.5 17.5	17.5	8.5 8.5	8.5	33.5 33.5	33.5	105.9 108.4	107.2	8.3 8.5	8.4		2.1 2.2	2.2	
						Bottom	12	17.4 17.4	17.4	8.5 8.5	8.5	33.5 33.5	33.5	101.7 102.2	102.0	8.0 8.0	8.0		3.3 3.3	3.3	
20-Jan-18	VM15	Mid-Ebb	Cloudy	Moderate	15:22	Surface	1	17.7 17.7	17.7	7.8 7.8	7.8	32.8 32.8	32.8	105.5 105.5	105.5	8.3 8.3	8.3	8.2	1.2 1.2	1.2	1.7
						Middle	6	17.6 17.6	17.6	7.8 7.8	7.8	32.8 32.8	32.8	102.7 102.6	102.7	8.1 8.0	8.1		1.4 1.3	1.4	
						Bottom	11	17.5 17.5	17.5	7.8 7.8	7.8	32.8 32.8	32.8	97.8 98.1	98.0	7.7 7.7	7.7		2.5 2.5	2.5	
20-Jan-18	VM2	Mid-Ebb	Sunny	Moderate	13:36	Surface	1	17.5 17.4	17.5	8.0 8.0	8.0	32.0 32.0	32.0	105.0 106.7	105.9	8.3 8.4	8.4	8.5	1.1 0.9	1.0	1.0
						Middle	7	17.3 17.2	17.3	8.0 8.0	8.0	32.1 32.1	32.1	107.2 107.4	107.3	8.5 8.5	8.5		1.0 0.9	1.0	
						Bottom	13	17.0 17.1	17.1	8.0 8.0	8.0	32.2 32.2	32.2	105.4 106.4	105.9	8.4 8.5	8.5		1.0 1.0	1.0	
20-Jan-18	VM4	Mid-Ebb	Cloudy	Moderate	13:38	Surface	1	17.3 17.3	17.3	7.9 7.9	7.9	32.9 32.9	32.9	104.1 103.4	103.8	8.2 8.1	8.2	8.2	1.1 1.0	1.1	1.1
						Middle	7	17.2 17.2	17.2	7.9 7.9	7.9	32.9 33.0	33.0	102.9 103.4	103.2	8.1 8.2	8.2		1.2 1.0	1.1	
						Bottom	13	17.1 17.1	17.1	7.9 7.9	7.9	33.0 33.0	33.0	103.0 103.3	103.2	8.1 8.2	8.2		1.0 1.0	1.0	
20-Jan-18	VM5	Mid-Ebb	Cloudy	Moderate	14:04	Surface	1	17.6 17.6	17.6	8.0 8.1	8.1	32.8 32.8	32.8	105.5 106.1	105.8	8.3 8.3	8.3	8.3	0.8 0.9	0.9	0.9
						Middle	6.5	17.4 17.4	17.4	8.0 8.0	8.0	32.8 32.8	32.8	104.9 104.9	104.9	8.3 8.2	8.3		0.9 0.9	0.9	
						Bottom	12	17.4 17.3	17.4	8.0 8.0	8.0	32.8 32.9	32.9	102.5 102.1	102.3	8.1 8.0	8.1		0.9 0.9	0.9	
20-Jan-18	VM7	Mid-Ebb	Cloudy	Moderate	14:42	Surface	1	17.6 17.7	17.7	7.9 7.9	7.9	32.7 32.7	32.7	102.5 102.7	102.6	8.0 8.1	8.1	8.1	1.3 1.4	1.4	1.3
						Middle	6.5	17.6 17.6	17.6	7.9 7.9	7.9	32.7 32.7	32.7	101.9 101.4	101.7	8.0 8.0	8.0		1.3 1.2	1.3	
						Bottom	12	17.5 17.5	17.5	7.9 7.9	7.9	32.8 32.8	32.8	99.9 99.9	99.9	7.9 7.9	7.9		1.1 1.1	1.1	
20-Jan-18	VM8	Mid-Ebb	Cloudy	Moderate	15:07	Surface	1	17.8 17.7	17.8	7.8 7.8	7.8	32.1 32.2	32.2	105.0 105.2	105.1	8.2 8.3	8.3	8.3	2.2 1.9	2.1	2.0
						Middle	6	17.7 17.6	17.7	7.9 7.8	7.9	32.7 32.6	32.7	105.0 104.3	104.7	8.2 8.2	8.2		1.1 1.3	1.2	
						Bottom	11	17.5 17.5	17.5	7.9 7.8	7.9	32.8 32.8	32.8	101.4 101.5	101.5	8.0 8.0	8.0		2.7 2.5	2.6	
20-Jan-18	WM1	Mid-Ebb	Sunny	Moderate	16:12	Surface	1	17.6 17.6	17.6	8.3 8.3	8.3	34.3 34.3	34.3	118.5 119.4	119.0	9.2 9.3	9.3	9.1	0.9 0.9	0.9	1.0
						Middle	15	17.3 17.4	17.4	8.3 8.3	8.3	34.5 34.5	34.5	111.0 112.5	111.8	8.7 8.8	8.8		1.0 0.9	1.0	
						Bottom	29	17.4 17.3	17.4	8.3 8.3	8.3	34.6 34.5	34.6	109.7 109.4	109.6	8.6 8.5	8.6		1.2 1.1	1.2	

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Baseline Water Quality Monitoring Results

Date	Location	Tide	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
20-Jan-18	WM2	Mid-Ebb	Cloudy	Moderate	14:50	Surface	1	17.6 17.6	17.6	8.0 8.0	8.0	33.6 33.6	33.6	115.1 115.9	115.5	9.0 9.0	9.0	8.8	0.5 0.5	0.5	1.2
						Middle	7	17.5 17.4	17.5	8.0 8.0	8.0	33.7 33.6	33.7	110.8 107.4	109.1	8.7 8.4	8.6		0.8 0.8	0.8	
						Bottom	13	17.3 17.3	17.3	8.0 8.0	8.0	34.3 34.2	34.3	102.4 102.7	102.6	8.0 8.0	8.0		2.3 2.1	2.2	
20-Jan-18	WM4	Mid-Ebb	Cloudy	Calm	13:53	Surface	1	17.6 17.5	17.6	8.6 8.5	8.6	33.1 33.2	33.2	108.2 109.9	109.1	8.5 8.6	8.6	8.4	1.2 1.3	1.3	1.9
						Middle	15	17.4 17.4	17.4	8.5 8.5	8.5	33.6 33.6	33.6	103.2 102.3	102.8	8.1 8.0	8.1		1.7 1.5	1.6	
						Bottom	29	17.3 17.4	17.4	8.5 8.5	8.5	33.8 33.8	33.8	100.8 100.9	100.9	7.9 7.9	7.9		2.7 2.7	2.7	
20-Jan-18	WSD10	Mid-Ebb	Sunny	Moderate	13:24	Surface	1	17.1 17.3	17.2	8.0 8.0	8.0	32.1 32.0	32.1	107.6 108.5	108.1	8.6 8.6	8.6	8.6	0.7 0.8	0.8	1.0
						Middle	5.5	17.1 17.1	17.1	8.0 8.0	8.0	32.1 32.1	32.1	105.8 106.7	106.3	8.4 8.5	8.5		1.0 0.9	1.0	
						Bottom	10	17.1 17.1	17.1	8.0 8.0	8.0	32.1 32.1	32.1	105.3 106.0	105.7	8.4 8.4	8.4		1.1 1.1	1.1	
20-Jan-18	WSD11	Mid-Ebb	Sunny	Moderate	13:15	Surface	1	17.3 17.3	17.3	7.9 8.0	8.0	32.1 32.0	32.1	103.3 105.1	104.2	8.2 8.3	8.3	8.4	0.7 0.7	0.7	0.8
						Middle	8	17.1 17.1	17.1	8.0 8.0	8.0	32.1 32.1	32.1	105.4 105.5	105.5	8.4 8.4	8.4		1.0 1.0	1.0	
						Bottom	15	17.1 17.1	17.1	8.0 8.0	8.0	32.1 32.1	32.1	105.5 105.3	105.4	8.4 8.4	8.4		0.8 0.8	0.8	
20-Jan-18	WSD12	Mid-Ebb	Sunny	Moderate	15:08	Surface	1	17.3 17.2	17.3	8.0 8.0	8.0	32.1 32.1	32.1	110.9 113.6	112.3	8.8 9.0	8.9	9.0	1.3 1.3	1.3	1.7
						Middle	3.5	17.1 17.1	17.1	8.1 8.1	8.1	32.1 32.1	32.1	112.7 112.9	112.8	9.0 9.0	9.0		1.4 1.4	1.4	
						Bottom	6	17.1 17.1	17.1	8.0 8.0	8.0	32.1 32.1	32.1	111.5 111.6	111.6	8.9 8.9	8.9		2.3 2.3	2.3	
20-Jan-18	WSD13	Mid-Ebb	Sunny	Moderate	14:13	Surface	1	17.3 17.3	17.3	8.0 8.0	8.0	32.2 32.2	32.2	108.1 110.7	109.4	8.6 8.8	8.7	8.8	0.5 0.5	0.5	0.7
						Middle	4.5	17.1 17.2	17.2	8.0 8.0	8.0	32.2 32.2	32.2	109.9 110.8	110.4	8.7 8.8	8.8		0.6 0.7	0.7	
						Bottom	8	17.1 17.1	17.1	8.0 8.0	8.0	32.2 32.2	32.2	109.6 110.3	110.0	8.7 8.8	8.8		0.7 0.8	0.8	
20-Jan-18	WSD15	Mid-Ebb	Sunny	Moderate	13:52	Surface	1	17.2 17.2	17.2	8.0 8.0	8.0	32.1 32.1	32.1	104.9 107.7	106.3	8.3 8.5	8.4	8.5	0.7 0.8	0.8	0.8
						Middle	6.5	17.1 17.1	17.1	8.0 8.0	8.0	32.1 32.1	32.1	106.8 106.8	106.8	8.5 8.5	8.5		0.7 0.7	0.7	
						Bottom	12	17.1 17.1	17.1	8.0 8.0	8.0	32.2 32.2	32.2	105.1 105.7	105.4	8.4 8.4	8.4		1.0 1.0	1.0	
20-Jan-18	WSD17	Mid-Ebb	Sunny	Moderate	13:42	Surface	1	17.2 17.2	17.2	8.0 8.0	8.0	31.9 31.9	31.9	101.9 102.9	102.4	8.1 8.2	8.2	8.3	1.7 1.7	1.7	1.5
						Middle	6	17.1 17.1	17.1	8.0 8.0	8.0	32.2 32.1	32.2	103.9 104.2	104.1	8.3 8.3	8.3		1.3 1.3	1.3	
						Bottom	11	17.1 17.1	17.1	8.0 8.0	8.0	32.2 32.2	32.2	104.0 104.2	104.1	8.3 8.3	8.3		1.3 1.4	1.4	

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Baseline Water Quality Monitoring Results

Date	Location	Tide	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	
20-Jan-18	WSD18	Mid-Ebb	Cloudy	Moderate	14:17	Surface	1	17.5 17.5	17.5	8.0 8.0	8.0	32.6 32.7	32.7	94.3 93.9	94.1	7.4 7.4	7.4	7.4	7.4	1.6 1.8	1.7	1.8
						Middle	5.5	17.4 17.4	17.4	8.0 8.0	8.0	32.7 32.7	32.7	93.4 93.8	93.6	7.4 7.4	7.4	7.4	7.4	1.8 1.8	1.8	
						Bottom	10	17.4 17.4	17.4	8.0 7.9	8.0	32.7 32.7	32.7	93.0 93.4	93.2	7.3 7.4	7.4	7.4	7.4	1.9 1.7	1.8	
20-Jan-18	WSD19	Mid-Ebb	Cloudy	Moderate	14:28	Surface	1	17.5 17.6	17.6	7.9 7.9	7.9	32.7 32.7	32.7	98.4 98.4	98.4	7.7 7.7	7.7	7.7	7.7	1.5 1.4	1.5	1.4
						Middle	7	17.5 17.5	17.5	7.9 7.9	7.9	32.7 32.7	32.7	98.8 98.6	98.7	7.8 7.8	7.8	7.8	7.8	1.4 1.2	1.3	
						Bottom	13	17.4 17.4	17.4	7.9 7.9	7.9	32.8 32.8	32.8	97.7 97.6	97.7	7.7 7.7	7.7	7.7	7.7	1.4 1.3	1.4	
20-Jan-18	WSD20	Mid-Ebb	Cloudy	Moderate	14:55	Surface	1	17.6 17.6	17.6	7.9 7.8	7.9	32.5 32.5	32.5	107.5 107.9	107.7	8.4 8.5	8.5	8.4	8.5	1.4 1.3	1.4	1.8
						Middle	5.5	17.5 17.5	17.5	7.9 7.8	7.9	32.6 32.6	32.6	105.2 105.7	105.5	8.3 8.3	8.3	8.3	8.3	1.7 1.7	1.7	
						Bottom	10	17.3 17.3	17.3	7.9 7.9	7.9	33.0 33.0	33.0	101.4 101.4	101.4	8.0 8.0	8.0	8.0	8.0	2.3 2.3	2.3	
20-Jan-18	WSD21	Mid-Ebb	Sunny	Moderate	15:32	Surface	1	17.5 17.6	17.6	8.3 8.3	8.3	34.7 34.7	34.7	112.9 114.7	113.8	8.8 8.9	8.9	8.8	8.9	1.2 1.0	1.1	1.3
						Middle	3.5	17.4 17.4	17.4	8.3 8.3	8.3	34.7 34.7	34.7	113.1 114.5	113.8	8.8 8.9	8.9	8.9	8.9	1.1 1.1	1.1	
						Bottom	6	17.3 17.3	17.3	8.3 8.3	8.3	34.7 34.7	34.7	119.4 119.3	119.4	9.3 9.3	9.3	9.3	9.3	1.8 1.7	1.8	
20-Jan-18	WSD22	Mid-Ebb	Cloudy	Moderate	13:51	Surface	1	17.4 17.4	17.4	7.9 7.9	7.9	32.8 32.8	32.8	98.7 98.2	98.5	7.8 7.7	7.8	7.8	7.8	1.1 1.0	1.1	1.1
						Middle	4.5	17.4 17.3	17.4	7.9 7.9	7.9	32.8 32.8	32.8	99.9 100.5	100.2	7.9 7.9	7.9	7.9	7.9	1.1 1.0	1.1	
						Bottom	8	17.3 17.3	17.3	7.9 7.9	7.9	32.9 32.9	32.9	100.2 100.3	100.3	7.9 7.9	7.9	7.9	7.9	1.2 1.0	1.1	
20-Jan-18	WSD4	Mid-Ebb	Cloudy	Calm	15:09	Surface	1	17.6 17.7	17.7	8.5 8.5	8.5	33.5 33.4	33.5	107.0 109.4	108.2	8.4 8.5	8.5	8.4	8.5	1.7 1.9	1.8	2.3
						Middle	4	17.5 17.5	17.5	8.5 8.5	8.5	33.5 33.5	33.5	106.4 109.6	108.0	8.3 8.6	8.5	8.5	8.5	2.2 2.2	2.2	
						Bottom	7	17.5 17.5	17.5	8.5 8.5	8.5	33.5 33.5	33.5	106.8 108.3	107.6	8.4 8.5	8.5	8.5	8.5	2.8 2.9	2.9	
20-Jan-18	WSD5	Mid-Ebb	Cloudy	Calm	15:32	Surface	1	17.7 17.6	17.7	8.5 8.5	8.5	33.6 33.6	33.6	100.2 105.8	103.0	7.8 8.3	8.1	8.1	8.1	2.0 2.0	2.0	2.5
						Middle	9.5	17.5 17.5	17.5	8.5 8.5	8.5	33.6 33.6	33.6	102.7 105.0	103.9	8.0 8.2	8.1	8.1	8.1	2.3 2.1	2.2	
						Bottom	18	17.5 17.5	17.5	8.5 8.5	8.5	33.6 33.6	33.6	103.5 104.0	103.8	8.1 8.1	8.1	8.1	8.1	3.3 3.3	3.3	
20-Jan-18	WSD6	Mid-Ebb	Cloudy	Moderate	15:34	Surface	1	17.9 18.0	18.0	7.9 7.9	7.9	32.6 32.7	32.7	100.0 101.2	100.6	7.8 7.9	7.9	7.8	7.9	2.4 2.1	2.3	2.3
						Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
						Bottom	4.5	17.8 17.8	17.8	7.9 7.9	7.9	32.7 32.7	32.7	98.8 100.0	99.4	7.7 7.8	7.8	7.8	7.8	2.5 2.1	2.3	

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Baseline Water Quality Monitoring Results

Date	Location	Tide	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
20-Jan-18	WSD7	Mid-Ebb	Cloudy	Moderate	15:45	Surface	1	17.6 17.6	17.6	7.9 7.9	7.9	32.7 32.7	32.7	99.4 98.7	99.1	7.8 7.7	7.8	7.9	1.5 1.7	1.6	1.9
						Middle	4.5	17.5 17.5	17.5	7.9 7.9	7.9	32.8 32.8	32.8	100.3 100.3	100.3	7.9 7.9	7.9		1.9 1.9	1.9	
						Bottom	8	17.5 17.5	17.5	7.9 7.9	7.9	32.8 32.8	32.8	99.3 99.2	99.3	7.8 7.8	7.8		7.8	2.3 2.2	
20-Jan-18	WSD9	Mid-Ebb	Cloudy	Moderate	13:29	Surface	1	17.5 17.4	17.5	7.9 7.9	7.9	32.9 32.9	32.9	104.8 105.4	105.1	8.2 8.3	8.3	8.4	0.9 0.8	0.9	0.9
						Middle	4.5	17.3 17.3	17.3	7.9 7.9	7.9	32.9 32.9	32.9	106.1 105.6	105.9	8.4 8.3	8.4		0.9 0.9	0.9	
						Bottom	8	17.3 17.2	17.3	7.9 7.9	7.9	32.9 33.0	33.0	105.5 105.4	105.5	8.3 8.3	8.3		8.3	0.9 0.9	

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Baseline Water Quality Monitoring Results

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								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*			
20-Jan-18	B10	Mid-Flood	Cloudy	Calm	09:01	Surface	1	17.5 17.5	17.5	8.5 8.5	8.5	32.1 32.1	32.1	107.8 109.0	108.4	8.5 8.6	8.6	8.6	2.5 2.3	2.4	2.5			
						Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	-
						Bottom	3	17.5 17.5	17.5	8.5 8.5	8.5	32.1 32.1	32.1	108.4 108.8	108.6	8.6 8.6	8.6		8.6	8.6		2.4 2.5	2.5	
20-Jan-18	B11	Mid-Flood	Cloudy	Calm	09:05	Surface	-	-	-	-	-	-	-	-	-	-	-	8.6	-	-	2.2			
						Middle	1.4	17.5 17.5	17.5	8.5 8.5	8.5	32.1 32.1	32.1	108.9 109.1	109.0	8.6 8.6	8.6		2.3 2.1	2.2				
						Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-		-		
20-Jan-18	B12	Mid-Flood	Cloudy	Calm	09:10	Surface	1	17.5 17.5	17.5	8.5 8.5	8.5	32.1 32.1	32.1	108.4 109.3	108.9	8.6 8.6	8.6	8.6	2.3 2.1	2.2	2.3			
						Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-		
						Bottom	3	17.5 17.5	17.5	8.5 8.5	8.5	32.2 32.2	32.2	109.1 109.4	109.3	8.6 8.6	8.6		8.6	2.4 2.4		2.4		
20-Jan-18	B13	Mid-Flood	Cloudy	Calm	09:16	Surface	1	17.5 17.5	17.5	8.5 8.5	8.5	32.5 32.6	32.6	107.0 106.7	106.9	8.4 8.4	8.4	8.5	2.3 2.2	2.3	2.4			
						Middle	3	17.4 17.5	17.5	8.5 8.5	8.5	32.7 32.6	32.7	107.0 107.3	107.2	8.4 8.5	8.5		2.4 2.2	2.3				
						Bottom	5	17.4 17.4	17.4	8.5 8.5	8.5	32.7 32.8	32.8	106.6 106.7	106.7	8.4 8.4	8.4		8.4	2.5 2.4		2.5		
20-Jan-18	B14	Mid-Flood	Cloudy	Calm	08:21	Surface	-	-	-	-	-	-	-	-	-	-	-	7.9	-	-	3.3			
						Middle	1	17.4 17.4	17.4	8.4 8.4	8.4	33.4 33.4	33.4	100.8 100.9	100.9	7.9 7.9	7.9		3.3 3.2	3.3				
						Bottom	-	-	-	-	-	-	-	-	-	-	-		-	-				
20-Jan-18	B24	Mid-Flood	Sunny	Rough	07:51	Surface	1	16.9 16.9	16.9	8.4 8.4	8.4	32.2 32.2	32.2	103.7 104.0	103.9	8.3 8.3	8.3	8.3	1.9 1.6	1.8	1.7			
						Middle	3.5	16.9 16.9	16.9	8.4 8.4	8.4	32.2 32.2	32.2	103.6 103.8	103.7	8.3 8.3	8.3		1.6 1.6	1.6				
						Bottom	6	17.0 17.0	17.0	8.4 8.4	8.4	32.2 32.2	32.2	103.4 103.7	103.6	8.2 8.3	8.3		8.3	1.8 1.7		1.8		
20-Jan-18	B25	Mid-Flood	Sunny	Rough	08:01	Surface	1	17.0 17.1	17.1	8.4 8.4	8.4	32.2 32.2	32.2	100.3 99.9	100.1	8.0 7.9	8.0	8.0	1.0 1.0	1.0	1.1			
						Middle	-	-	-	-	-	-	-	-	-	-	-		-	-				
						Bottom	4.1	17.0 17.0	17.0	8.4 8.4	8.4	32.2 32.2	32.2	99.6 99.4	99.5	7.9 7.9	7.9		7.9	1.1 1.0		1.1		
20-Jan-18	B26	Mid-Flood	Sunny	Rough	08:29	Surface	1	16.9 16.9	16.9	8.4 8.4	8.4	32.2 32.2	32.2	105.4 105.5	105.5	8.4 8.4	8.4	8.4	1.3 1.2	1.3	1.6			
						Middle	4.5	16.9 16.9	16.9	8.4 8.4	8.4	32.2 32.2	32.2	105.4 105.3	105.4	8.4 8.4	8.4		1.3 1.3	1.3				
						Bottom	8	16.9 16.9	16.9	8.4 8.4	8.4	32.3 32.4	32.4	105.9 106.8	106.4	8.4 8.5	8.5		8.5	2.1 2.0		2.1		

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Date	Location	Tide	Weather Condition	Sea Condition**	Sampling Time	Depth (m)	Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)					
							Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*			
20-Jan-18	B30	Mid-Flood	Sunny	Moderate	09:29	Surface	-	-	-	-	-	-	-	-	-	-	-	8.4	-	-	1.1		
						Middle	1.2	17.0	17.0	8.3	8.3	34.8	34.8	106.4	106.6	8.3	8.4	8.4	1.0	1.1			
						Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	
20-Jan-18	B31	Mid-Flood	Sunny	Moderate	09:38	Surface	-	-	-	-	-	-	-	-	-	-	-	8.4	-	-	0.9		
						Middle	1.2	17.1	17.1	8.3	8.3	34.7	34.7	106.9	107.0	8.4	8.4	8.4	0.9	0.9			
						Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	
20-Jan-18	B32	Mid-Flood	Sunny	Moderate	09:46	Surface	-	-	-	-	-	-	-	-	-	-	-	8.4	-	-	1.0		
						Middle	1.3	17.1	17.1	8.3	8.3	34.7	34.7	107.4	107.2	107.3	8.4	8.4	8.4	0.9		1.0	
						Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	
20-Jan-18	B33	Mid-Flood	Sunny	Moderate	09:51	Surface	1	17.1	17.1	8.3	8.3	34.7	34.7	107.0	107.1	107.1	8.4	8.4	8.4	8.4	1.0	1.0	1.1
						Middle	4	17.1	17.1	8.3	8.3	34.7	34.7	106.5	106.5	106.5	8.3	8.3	8.3	8.3	1.1	1.1	
						Bottom	7	17.1	17.1	8.3	8.3	34.7	34.7	105.9	105.7	105.8	8.3	8.3	8.3	8.3	1.1	1.2	
20-Jan-18	B34	Mid-Flood	Sunny	Moderate	10:04	Surface	1	17.1	17.1	8.3	8.3	34.7	34.7	107.3	107.8	107.6	8.4	8.4	8.4	8.4	0.9	0.9	0.9
						Middle	3	17.1	17.1	8.3	8.3	34.7	34.7	107.4	107.6	107.5	8.4	8.4	8.4	8.4	0.9	0.9	
						Bottom	5	17.1	17.1	8.3	8.3	34.7	34.7	107.1	106.8	107.0	8.4	8.4	8.4	8.4	0.9	1.0	
20-Jan-18	B35	Mid-Flood	Sunny	Moderate	10:13	Surface	1	17.2	17.2	8.3	8.3	34.7	34.7	107.9	108.7	108.3	8.4	8.5	8.5	8.5	1.0	1.1	1.3
						Middle	4.5	17.2	17.2	8.3	8.3	34.7	34.7	107.8	108.2	108.0	8.4	8.5	8.5	8.5	1.1	1.2	
						Bottom	8	17.1	17.1	8.3	8.3	34.7	34.7	105.7	106.3	106.0	8.3	8.3	8.3	8.3	1.5	1.5	
20-Jan-18	B7	Mid-Flood	Cloudy	Calm	08:41	Surface	-	-	-	-	-	-	-	-	-	-	-	-	8.5	-	-	5.0	
						Middle	1	17.5	17.5	8.5	8.5	32.0	32.0	107.7	107.6	107.7	8.5	8.5	8.5	8.5	4.8		5.0
						Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
20-Jan-18	B8	Mid-Flood	Cloudy	Calm	08:49	Surface	1	17.5	17.5	8.5	8.5	32.6	32.5	106.0	107.3	106.7	8.3	8.4	8.4	8.4	3.1	3.2	3.3
						Middle	5	17.4	17.4	8.5	8.5	32.6	32.7	106.2	106.6	106.4	8.4	8.4	8.4	8.4	3.6	3.5	
						Bottom	9	17.4	17.4	8.5	8.5	32.7	32.7	106.3	106.2	106.3	8.4	8.4	8.4	8.4	3.2	3.2	

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Baseline Water Quality Monitoring Results

Date	Location	Tide	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)				
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*		
20-Jan-18	B9	Mid-Flood	Cloudy	Calm	08:56	Surface	1	17.5	17.5	8.5	8.5	32.2	32.2	108.1	108.1	8.5	8.5	8.5	2.6	2.7	2.8		
								17.5		8.5		32.2		108.1		8.5			2.7				
						Middle	-	-	-	-	-	-	-	-	-	-	-		-	-		-	
		Bottom	3.1	17.5	17.5	8.5	8.5	32.2	32.2	108.0	108.1	8.5	8.5	8.5	2.8	2.7	2.8						
				17.5		8.5		32.2		108.1		8.5		8.5		2.7							
20-Jan-18	EM1	Mid-Flood	Cloudy	Moderate	09:28	Surface	1	17.0	17.0	8.0	8.0	32.1	32.2	104.3	105.1	8.3	8.4	8.5	0.4	0.4	0.9		
								17.0		8.0		32.2		105.9		8.4			0.4				
						Middle	9	16.9	16.9	8.0	8.0	32.3	32.3	105.9	106.0	8.4	8.5		8.5	0.5		0.5	
				16.9		8.0		32.3		106.1		8.5		8.5		0.5							
		Bottom	17	16.9	16.9	8.0	8.0	32.4	32.4	105.8	105.9	8.4	8.4	8.4	1.8	1.8	1.8						
				16.9		8.0		32.4		105.9		8.4		8.4		1.8							
20-Jan-18	EM2	Mid-Flood	Cloudy	Moderate	09:16	Surface	1	16.9	17.0	8.0	8.0	32.2	32.2	105.1	105.8	8.4	8.5	8.6	1.4	1.4	1.6		
								17.0		8.0		32.2		106.5		8.5			8.5			1.3	
						Middle	10	16.9	16.9	8.0	8.0	32.4	32.4	107.7	106.9	8.6	8.6		8.6	1.2		1.2	
				16.9		8.0		32.3		106.0		8.5		8.6		1.2							
		Bottom	19	16.8	16.8	8.1	8.1	32.5	32.5	107.5	107.5	8.6	8.6	8.6	2.2	2.2	2.2						
				16.8		8.1		32.5		107.5		8.6		8.6		2.2							
20-Jan-18	EM3	Mid-Flood	Sunny	Rough	08:11	Surface	1	17.0	17.0	8.4	8.4	32.1	32.1	103.8	104.9	8.3	8.4	8.5	1.1	1.1	1.2		
								17.0		8.4		32.1		106.0		8.4			8.4			1.1	
						Middle	10.5	16.9	16.9	8.4	8.4	32.3	32.3	106.5	106.8	8.5	8.5		8.5	1.2		1.2	
				16.9		8.4		32.3		107.0		8.5		8.5		1.1							
		Bottom	20	16.9	16.9	8.4	8.4	32.3	32.3	107.3	107.3	8.6	8.6	8.6	1.4	1.3	1.3						
				16.9		8.4		32.3		107.3		8.6		8.6		1.2							
20-Jan-18	F1	Mid-Flood	Cloudy	Moderate	09:05	Surface	1	17.0	17.0	8.0	8.0	32.2	32.2	103.7	104.6	8.3	8.4	8.5	1.0	1.0	1.1		
								17.0		8.0		32.2		105.4		8.4			8.4			1.0	
						Middle	5	16.9	16.9	8.0	8.0	32.3	32.3	105.8	106.3	8.4	8.5		8.5	0.9		0.9	
				16.9		8.0		32.3		106.7		8.5		8.5		0.9							
		Bottom	9	16.9	16.9	8.0	8.0	32.4	32.4	107.1	107.1	8.5	8.5	8.5	1.3	1.4	1.4						
				16.9		8.0		32.4		107.0		8.5		8.5		1.4							
20-Jan-18	F4	Mid-Flood	Sunny	Moderate	08:41	Surface	1	17.3	17.3	8.2	8.2	34.2	34.3	104.0	104.4	8.1	8.2	8.2	1.6	1.6	2.2		
								17.3		8.2		34.3		104.8		8.2			8.2			1.5	
						Middle	5	17.3	17.3	8.2	8.2	34.4	34.4	105.1	105.1	8.2	8.2		8.2	1.9		2.0	
				17.3		8.2		34.4		105.0		8.2		8.2		2.0							
		Bottom	9	17.3	17.3	8.2	8.2	34.4	34.4	104.8	104.6	8.2	8.2	8.2	2.9	3.0	3.0						
				17.3		8.2		34.4		104.3		8.1		8.2		3.1							
20-Jan-18	F5	Mid-Flood	Cloudy	Calm	08:30	Surface	1	17.5	17.5	8.5	8.5	31.5	31.5	108.5	108.6	8.6	8.6	8.6	4.0	3.8	4.4		
								17.5		8.5		31.5		108.7		8.6			8.6			3.6	
						Middle	3.5	17.5	17.5	8.5	8.5	31.6	31.6	107.9	108.1	8.5	8.6		8.6	5.3		5.4	
				17.5		8.5		31.5		108.2		8.6		8.6		5.5							
		Bottom	6	17.5	17.5	8.5	8.5	31.7	31.8	108.7	108.8	8.6	8.6	8.6	3.9	4.0	4.0						
				17.5		8.5		31.8		108.8		8.6		8.6		4.1							
20-Jan-18	JM3	Mid-Flood	Cloudy	Moderate	09:37	Surface	1	16.7	16.9	8.0	8.0	32.4	32.3	102.5	103.1	8.2	8.3	8.3	1.0	1.0	1.5		
								17.1		8.0		32.1		103.7		8.3			8.3			1.0	
						Middle	5.5	17.1	17.1	8.0	8.0	32.1	32.1	103.3	103.4	8.2	8.2		8.2	1.5		1.5	
				17.0		8.0		32.1		103.5		8.2		8.2		1.5							
		Bottom	10	17.0	17.0	8.0	8.0	32.1	32.1	103.1	103.3	8.2	8.2	8.2	1.8	1.9	1.9						
				17.0		8.0		32.1		103.4		8.2		8.2		1.9							

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

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Baseline Water Quality Monitoring Results

Date	Location	Tide	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)						
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*				
20-Jan-18	MM13	Mid-Flood	Sunny	Rough	09:32	Surface	1	16.8 16.8	16.8	8.5 8.5	8.5	32.3 32.3	32.3	111.5 112.3	111.9	8.9 9.0	9.0	8.9	0.6 0.7	0.7	0.5 0.5				
						Middle	14	16.6 16.6	16.6	8.5 8.5	8.5	32.3 32.3	32.3	109.8 109.9	109.9	8.8 8.8	8.8		0.8 0.8			8.8	0.8 0.7	0.8	
						Bottom	27	16.7 16.8	16.8	8.5 8.5	8.5	32.4 32.5	32.5	109.6 109.6	109.6	8.8 8.7	8.8		8.8			0.8 0.7	0.8		
20-Jan-18	SM12	Mid-Flood	Cloudy	Rough	09:49	Surface	1	17.5 17.5	17.5	8.1 8.1	8.1	34.2 34.2	34.2	124.2 124.6	124.4	9.7 9.7	9.7	9.7	1.7 1.8	1.8	2.0 2.1	2.1			
						Middle	4	17.5 17.5	17.5	8.1 8.1	8.1	34.2 34.2	34.2	123.7 123.9	123.8	9.6 9.6	9.6		9.6				2.2 2.3	2.3	
						Bottom	7	17.5 17.5	17.5	8.0 8.0	8.0	34.3 34.3	34.3	122.8 123.0	122.9	9.6 9.6	9.6		9.6				2.2 2.3	2.3	
20-Jan-18	SM17	Mid-Flood	Cloudy	Rough	09:23	Surface	1	17.1 17.1	17.1	7.9 8.0	8.0	34.6 34.6	34.6	106.0 106.1	106.1	8.3 8.3	8.3	8.3	1.9 1.6	1.8	2.1 2.1	2.1			
						Middle	7.5	17.1 17.1	17.1	8.0 8.0	8.0	34.6 34.6	34.6	105.4 105.5	105.5	8.3 8.3	8.3		8.2 8.2				8.2	4.2 4.6	4.4
						Bottom	14	17.1 17.1	17.1	8.0 8.0	8.0	34.6 34.6	34.6	104.6 104.6	104.6	8.2 8.2	8.2		8.2				4.2 4.6	4.4	
20-Jan-18	SM2	Mid-Flood	Sunny	Moderate	09:11	Surface	1	17.2 17.2	17.2	8.3 8.2	8.3	34.6 34.6	34.6	106.3 106.5	106.4	8.3 8.3	8.3	8.3	1.0 1.1	1.1	1.0 1.0	1.0			
						Middle	7	17.2 17.2	17.2	8.2 8.2	8.2	34.6 34.6	34.6	105.2 105.7	105.5	8.2 8.3	8.3		1.0 1.0				1.0		
						Bottom	13	17.2 17.2	17.2	8.2 8.2	8.2	34.6 34.6	34.6	104.8 104.8	104.8	8.2 8.2	8.2		8.2				1.0 1.0	1.0	
20-Jan-18	SM3	Mid-Flood	Sunny	Moderate	08:50	Surface	1	17.3 17.3	17.3	8.2 8.2	8.2	34.4 34.4	34.4	106.1 106.5	106.3	8.3 8.3	8.3	8.3	1.3 1.3	1.3	1.9 2.1	2.0			
						Middle	15	17.2 17.2	17.2	8.2 8.2	8.2	34.6 34.6	34.6	104.9 104.2	104.6	8.2 8.1	8.2		8.1 8.1				8.1	2.2 2.2	2.2
						Bottom	29	17.2 17.2	17.2	8.2 8.2	8.2	34.6 34.6	34.6	104.3 103.6	104.0	8.1 8.1	8.1		8.1				2.2 2.2	2.2	
20-Jan-18	SM6	Mid-Flood	Cloudy	Rough	08:50	Surface	1	17.4 17.4	17.4	7.9 8.0	8.0	34.2 34.2	34.2	114.0 114.2	114.1	8.9 8.9	8.9	8.9	0.9 0.9	0.9	1.2 1.0	1.1			
						Middle	7.5	17.3 17.3	17.3	8.0 8.0	8.0	34.5 34.5	34.5	113.9 114.6	114.3	8.9 8.9	8.9		8.9				2.9 2.7	2.8	
						Bottom	14	17.2 17.2	17.2	7.9 8.0	8.0	34.5 34.5	34.5	108.2 109.2	108.7	8.5 8.5	8.5		8.5				2.9 2.7	2.8	
20-Jan-18	VM1	Mid-Flood	Cloudy	Moderate	08:31	Surface	1	17.1 17.1	17.1	8.0 8.0	8.0	32.1 32.1	32.1	101.5 102.1	101.8	8.1 8.1	8.1	8.2	1.9 1.8	1.9	2.1 2.1	2.1			
						Middle	15.5	17.0 17.0	17.0	8.0 8.0	8.0	32.1 32.2	32.2	102.2 103.4	102.8	8.1 8.2	8.2		8.2				2.4 2.3	2.4	
						Bottom	30	17.0 17.0	17.0	8.0 8.0	8.0	32.2 32.2	32.2	103.2 103.4	103.3	8.2 8.2	8.2		8.2				2.4 2.3	2.4	
20-Jan-18	VM12	Mid-Flood	Cloudy	Calm	10:16	Surface	1	17.4 17.4	17.4	8.5 8.5	8.5	33.8 33.8	33.8	101.0 100.2	100.6	7.9 7.8	7.9	7.8	2.7 2.9	2.8	2.9 3.0	3.0			
						Middle	10	17.4 17.4	17.4	8.4 8.4	8.4	34.0 34.0	34.0	96.9 96.7	96.8	7.6 7.6	7.6		7.6				4.1 4.0	4.1	
						Bottom	19	17.4 17.4	17.4	8.4 8.4	8.4	34.1 34.1	34.1	95.0 94.1	94.6	7.4 7.4	7.4		7.4				4.1 4.0	4.1	

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

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Baseline Water Quality Monitoring Results

Date	Location	Tide	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
20-Jan-18	VM14	Mid-Flood	Cloudy	Calm	09:47	Surface	1	17.4	17.4	8.5	8.5	33.4	33.4	103.0	103.1	8.1	8.1	8.1	2.7	2.7	3.2
								17.4	17.4	8.5	8.5	33.4	33.4	103.1	103.1	8.1	8.1		2.6	2.6	
						Middle	6.5	17.4	17.4	8.5	8.5	33.5	33.5	101.7	101.8	8.0	8.0		3.2	3.3	
						Bottom	12	17.4	17.4	8.5	8.5	33.6	33.6	100.9	101.0	7.9	7.9	3.6	3.6		
20-Jan-18	VM15	Mid-Flood	Cloudy	Rough	09:38	Surface	1	17.4	17.4	7.9	7.9	32.8	32.8	95.3	95.5	7.5	7.5	7.5	2.2	2.1	2.3
								17.4	17.4	7.9	7.9	32.8	32.8	95.7	95.5	7.5	7.5		2.0	2.0	
						Middle	5.5	17.3	17.4	7.9	7.9	32.8	32.8	94.8	94.9	7.5	7.5		2.5	2.1	
						Bottom	10	17.4	17.4	7.9	7.9	32.8	32.8	95.0	94.9	7.5	7.5	2.1	2.3		
								17.3	17.4	7.9	7.9	32.8	32.8	94.2	94.3	7.4	7.4	2.6	2.6		
								17.4	17.4	7.9	7.9	32.8	32.8	94.3	94.3	7.4	7.4	2.6	2.6		
20-Jan-18	VM2	Mid-Flood	Cloudy	Moderate	08:03	Surface	1	17.3	17.3	7.9	7.9	32.0	32.0	99.0	98.7	7.9	7.9	7.9	1.0	1.0	1.3
								17.3	17.3	7.9	7.9	32.0	32.0	98.4	98.7	7.8	7.9		0.9	0.9	
						Middle	7	17.2	17.2	7.9	7.9	32.0	32.0	98.5	98.5	7.8	7.8		1.2	1.2	
						Bottom	13	17.2	17.2	7.9	7.9	32.0	32.0	98.5	98.5	7.8	7.8	1.6	1.7		
								17.2	17.2	7.9	7.9	32.0	32.0	98.5	98.5	7.8	7.8	1.7	1.7		
20-Jan-18	VM4	Mid-Flood	Cloudy	Rough	07:50	Surface	1	17.3	17.4	7.9	8.0	32.7	32.7	95.9	95.9	7.6	7.6	7.6	1.4	1.5	1.7
								17.4	17.4	8.0	8.0	32.7	32.7	95.8	95.9	7.6	7.6		1.5	1.5	
						Middle	7	17.4	17.4	7.9	7.9	32.8	32.8	94.9	94.9	7.5	7.5		1.7	1.7	
						Bottom	13	17.4	17.4	7.9	7.9	32.8	32.8	94.8	94.9	7.5	7.5	1.6	1.6		
								17.4	17.4	7.9	7.9	32.8	32.8	94.2	94.2	7.4	7.4	1.7	1.7		
								17.3	17.4	7.9	7.9	32.8	32.8	94.2	94.2	7.4	7.4	2.0	1.9		
20-Jan-18	VM5	Mid-Flood	Cloudy	Rough	08:12	Surface	1	17.3	17.3	7.9	7.9	32.8	32.8	95.6	95.3	7.5	7.5	7.5	1.8	1.7	2.0
								17.3	17.3	7.9	7.9	32.8	32.8	94.9	95.3	7.5	7.5		1.6	1.6	
						Middle	6.5	17.3	17.3	7.9	7.9	32.8	32.8	95.1	94.8	7.5	7.5		1.9	1.9	
						Bottom	12	17.3	17.3	7.9	7.9	32.8	32.8	94.5	94.5	7.5	7.5	1.9	1.9		
								17.3	17.3	7.9	7.9	32.8	32.8	94.4	94.3	7.4	7.4	2.4	2.3		
								17.3	17.3	7.9	7.9	32.8	32.8	94.1	94.3	7.4	7.4	2.1	2.1		
20-Jan-18	VM7	Mid-Flood	Cloudy	Rough	08:53	Surface	1	17.4	17.4	7.9	7.9	32.7	32.7	93.6	93.5	7.4	7.4	7.4	2.0	2.0	2.7
								17.4	17.4	7.9	7.9	32.7	32.7	93.4	93.5	7.4	7.4		2.0	2.0	
						Middle	6.5	17.4	17.4	7.9	7.9	32.7	32.7	93.2	93.1	7.4	7.4		2.2	2.1	
						Bottom	12	17.4	17.4	7.9	7.9	32.7	32.7	93.0	93.1	7.3	7.4	4.0	4.0		
								17.4	17.4	7.9	7.9	32.7	32.7	92.6	92.5	7.3	7.3	4.0	4.0		
								17.4	17.4	7.9	7.9	32.7	32.7	92.4	92.5	7.3	7.3	4.0	4.0		
20-Jan-18	VM8	Mid-Flood	Cloudy	Rough	09:21	Surface	1	17.4	17.4	7.9	8.0	32.2	32.2	104.6	104.6	8.3	8.3	8.3	1.9	1.9	2.9
								17.4	17.4	8.0	8.0	32.2	32.2	104.6	104.6	8.3	8.3		1.9	1.9	
						Middle	6	17.3	17.3	7.9	8.0	32.3	32.3	102.4	103.0	8.1	8.2		1.8	2.0	
						Bottom	11	17.3	17.3	7.9	7.9	32.2	32.3	103.6	103.0	8.2	8.2	2.1	2.1		
								17.3	17.3	7.9	7.9	32.6	32.6	99.9	100.2	7.9	7.9	4.8	4.7		
								17.3	17.3	7.9	7.9	32.5	32.6	100.5	100.2	7.9	7.9	4.6	4.6		
20-Jan-18	VM1	Mid-Flood	Sunny	Moderate	08:23	Surface	1	17.3	17.3	8.1	8.2	34.0	34.0	103.8	104.1	8.1	8.2	8.2	1.3	1.5	2.4
								17.3	17.3	8.2	8.2	33.9	34.0	104.3	104.1	8.2	8.2		1.6	1.6	
						Middle	15.5	17.3	17.3	8.2	8.2	34.5	34.5	104.1	104.1	8.1	8.1		1.9	1.8	
						Bottom	30	17.3	17.3	8.2	8.2	34.5	34.5	104.1	104.1	8.1	8.1	1.6	1.6		
								17.3	17.3	8.2	8.2	34.5	34.5	103.9	103.9	8.1	8.1	3.9	4.0		
								17.3	17.3	8.2	8.2	34.5	34.5	103.9	103.9	8.1	8.1	4.1	4.1		

Remarks: *DA: Depth-Averaged

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DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Baseline Water Quality Monitoring Results

Date	Location	Tide	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
20-Jan-18	WM2	Mid-Flood	Cloudy	Rough	08:17	Surface	1	17.4	17.4	7.7	7.8	33.0	33.0	105.6	105.8	8.3	8.3	8.3	1.9	2.0	2.8
								17.4		7.9		33.0		105.9		8.3			2.0		
						Middle	7	17.3	17.3	7.9	7.9	33.3	33.3	104.1	104.3	8.2	8.2		2.1	2.0	
						17.3		7.9		33.2		104.5		8.2		8.1		4.2	4.3		
						Bottom	13	17.3	17.3	7.9	7.9	33.5	33.5	103.0	102.9	8.1	8.1	8.1	4.2	4.3	
								17.3		7.9		33.5		102.8		8.1		4.3			
20-Jan-18	WM4	Mid-Flood	Cloudy	Calm	08:03	Surface	1	17.4	17.4	8.4	8.4	32.7	32.8	106.9	107.3	8.4	8.5	8.4	2.2	2.3	3.9
								17.4		8.4		32.8		107.7		8.5			2.4		
						Middle	15	17.4	17.4	8.4	8.4	33.1	33.1	105.6	105.9	8.3	8.3		3.5	3.3	
						17.4		8.4		33.0		106.1		8.3		8.3		3.0	3.3		
						Bottom	29	17.4	17.4	8.4	8.4	33.2	33.2	104.8	104.9	8.2	8.3	8.3	6.6	6.0	
								17.4		8.4		33.2		105.0		8.3		5.3	6.0		
20-Jan-18	WSD10	Mid-Flood	Cloudy	Moderate	07:51	Surface	1	17.3	17.3	7.9	7.9	31.9	31.9	98.6	98.3	7.8	7.8	7.8	1.8	1.7	1.9
								17.3		7.9		31.9		97.9		7.8			1.6		
						Middle	6.5	17.2	17.2	7.9	7.9	31.9	31.9	98.8	98.7	7.8	7.8		1.8	1.8	
						17.2		7.9		31.9		98.5		7.8		7.9		1.8	1.8		
						Bottom	12	17.2	17.2	7.9	7.9	31.9	31.9	99.5	99.5	7.9	7.9	7.9	2.0	2.1	
								17.2		7.9		31.9		99.5		7.9		2.1	2.1		
20-Jan-18	WSD11	Mid-Flood	Cloudy	Moderate	07:36	Surface	1	17.2	17.2	7.7	7.8	32.0	32.0	99.3	99.7	7.9	7.9	8.0	2.0	1.9	2.0
								17.2		7.8		32.0		100.1		7.9			1.8		
						Middle	8	17.2	17.2	7.8	7.8	32.0	32.0	100.3	100.3	8.0	8.0		2.1	2.0	
						17.2		7.8		32.0		100.3		8.0		8.0		1.9	2.0		
						Bottom	15	17.1	17.1	7.8	7.9	32.0	32.0	101.1	100.9	8.0	8.0	8.0	2.2	2.1	
								17.1		7.9		32.0		100.7		8.0		2.0	2.1		
20-Jan-18	WSD12	Mid-Flood	Cloudy	Moderate	09:45	Surface	1	16.8	17.0	8.0	8.0	32.3	32.2	102.4	103.6	8.2	8.3	8.3	1.6	1.5	1.4
								17.1		8.0		32.1		104.8		8.3			1.4		
						Middle	3.5	17.1	17.1	8.0	8.0	32.1	32.1	104.6	104.7	8.3	8.3		1.3	1.3	
						17.1		8.0		32.1		104.8		8.3		8.3		1.3	1.3		
						Bottom	6	17.1	17.1	8.0	8.0	32.1	32.1	104.7	104.8	8.3	8.3	8.3	1.3	1.3	
								17.1		8.0		32.1		104.8		8.3		1.3	1.3		
20-Jan-18	WSD13	Mid-Flood	Cloudy	Moderate	08:47	Surface	1	17.0	17.0	8.0	8.0	32.2	32.2	103.4	103.6	8.2	8.3	8.3	1.5	1.6	1.7
								17.0		8.0		32.2		103.8		8.3			1.7		
						Middle	4.5	17.0	17.0	8.0	8.0	32.2	32.2	103.6	103.7	8.3	8.3		1.6	1.6	
						17.0		8.0		32.2		103.7		8.3		8.3		1.6	1.6		
						Bottom	8	17.0	17.0	8.0	8.0	32.2	32.2	103.5	103.5	8.2	8.2	8.2	1.8	1.8	
								17.0		8.0		32.2		103.5		8.2		1.7	1.8		
20-Jan-18	WSD15	Mid-Flood	Cloudy	Moderate	08:22	Surface	1	17.1	17.1	8.0	8.0	32.1	32.1	102.0	102.4	8.1	8.2	8.2	1.9	1.8	1.9
								17.1		8.0		32.1		102.7		8.2			1.7		
						Middle	7	17.1	17.1	8.0	8.0	32.1	32.1	102.2	102.4	8.1	8.2		1.7	1.8	
						17.1		8.0		32.1		102.5		8.2		8.2		1.8	1.8		
						Bottom	13	17.0	17.0	8.0	8.0	32.1	32.2	103.1	103.2	8.2	8.2	8.2	2.1	2.1	
								17.0		8.0		32.2		103.2		8.2		2.1	2.1		
20-Jan-18	WSD17	Mid-Flood	Cloudy	Moderate	08:10	Surface	1	17.3	17.3	7.9	7.9	31.9	31.9	97.4	97.0	7.7	7.7	7.7	2.0	2.0	2.7
								17.3		7.9		31.9		96.6		7.7			2.0		
						Middle	5	17.3	17.3	7.9	7.9	31.9	32.0	96.5	96.6	7.7	7.7		2.4	2.4	
						17.3		7.9		32.0		96.6		7.7		7.7		2.3	2.4		
						Bottom	9	17.3	17.3	7.9	7.9	31.9	32.0	96.3	96.9	7.6	7.7	7.7	3.7	3.7	
								17.3		7.9		32.0		97.5		7.7		3.6	3.7		

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Baseline Water Quality Monitoring Results

Date	Location	Tide	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)				
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*		
20-Jan-18	WSD18	Mid-Flood	Cloudy	Rough	08:24	Surface	1	17.4 17.4	17.4	7.9 7.9	7.9	32.6 32.6	32.6	88.3 88.7	88.5	7.0 7.0	7.0	7.0	2.1 2.2	2.3	2.3	2.6	
						Middle	5.5	17.4 17.4	17.4	7.9 7.9	7.9	32.6 32.6	32.6	88.4 88.5	88.5	7.0 7.0	7.0		2.3 2.3				
						Bottom	10	17.4 17.4	17.4	7.9 7.9	7.9	32.6 32.6	32.6	88.3 88.4	88.4	7.0 7.0	7.0		3.1 3.2				3.2
20-Jan-18	WSD19	Mid-Flood	Cloudy	Rough	08:39	Surface	1	17.4 17.4	17.4	7.9 7.9	7.9	32.6 32.6	32.6	91.6 91.8	91.7	7.2 7.2	7.2	7.3	2.1 2.0	2.1	2.1	2.1	
						Middle	6.5	17.4 17.4	17.4	7.9 7.9	7.9	32.7 32.7	32.7	91.7 92.2	92.0	7.2 7.3	7.3		2.2 1.9				2.1
						Bottom	12	17.4 17.4	17.4	7.9 7.9	7.9	32.7 32.7	32.7	91.4 92.0	91.7	7.2 7.3	7.3		2.2 2.0				2.1
20-Jan-18	WSD20	Mid-Flood	Cloudy	Rough	09:09	Surface	1	17.3 17.3	17.3	8.0 8.0	8.0	32.3 32.2	32.3	103.1 103.1	103.1	8.2 8.2	8.2	8.2	1.8 2.0	2.0	2.0	2.1	
						Middle	5	17.3 17.3	17.3	8.0 8.0	8.0	32.3 32.3	32.3	102.2 102.0	102.1	8.1 8.1	8.1		2.0 2.0				
						Bottom	9	17.3 17.3	17.3	8.0 8.0	8.0	32.4 32.4	32.4	100.7 100.4	100.6	8.0 7.9	8.0		2.3 2.4				2.4
20-Jan-18	WSD21	Mid-Flood	Sunny	Moderate	09:01	Surface	1	17.3 17.3	17.3	8.2 8.2	8.2	34.4 34.4	34.4	104.4 104.5	104.5	8.2 8.2	8.2	8.2	1.3 1.2	1.3	1.4	1.4	
						Middle	3.5	17.3 17.3	17.3	8.2 8.2	8.2	34.4 34.4	34.4	104.2 104.1	104.2	8.1 8.1	8.1		1.3 1.4				
						Bottom	6	17.3 17.3	17.3	8.2 8.2	8.2	34.4 34.4	34.4	103.5 103.3	103.4	8.1 8.1	8.1		1.3 1.4				1.4
20-Jan-18	WSD22	Mid-Flood	Cloudy	Rough	08:03	Surface	1	17.4 17.4	17.4	7.9 8.0	8.0	32.7 32.6	32.7	92.8 92.3	92.6	7.3 7.3	7.3	7.4	1.9 2.1	2.0	2.0	2.3	
						Middle	4	17.3 17.3	17.3	7.9 7.9	7.9	32.7 32.7	32.7	93.4 92.9	93.2	7.4 7.3	7.4		2.0 2.0				
						Bottom	7	17.3 17.3	17.3	7.9 7.9	7.9	32.7 32.7	32.7	93.3 93.0	93.2	7.4 7.3	7.4		2.9 2.8				2.9
20-Jan-18	WSD4	Mid-Flood	Cloudy	Calm	09:32	Surface	1	17.4 17.4	17.4	8.5 8.5	8.5	33.1 33.1	33.1	103.4 104.6	104.0	8.1 8.2	8.2	8.3	2.9 2.5	2.7	2.7	2.9	
						Middle	4.5	17.4 17.4	17.4	8.5 8.5	8.5	33.2 33.2	33.2	104.5 105.2	104.9	8.2 8.3	8.3		2.5 2.9				
						Bottom	8	17.4 17.4	17.4	8.5 8.5	8.5	33.3 33.3	33.3	104.2 104.4	104.3	8.2 8.2	8.2		3.3 3.3				3.3
20-Jan-18	WSD5	Mid-Flood	Cloudy	Calm	09:59	Surface	1	17.4 17.4	17.4	8.5 8.5	8.5	33.6 33.6	33.6	102.2 101.9	102.1	8.0 8.0	8.0	8.0	2.9 2.6	2.8	4.7	4.2	
						Middle	10	17.4 17.4	17.4	8.5 8.5	8.5	33.7 33.7	33.7	100.1 100.4	100.3	7.8 7.9	7.9		4.8 4.6				
						Bottom	19	17.4 17.4	17.4	8.5 8.5	8.5	33.7 33.7	33.7	98.9 99.4	99.2	7.7 7.8	7.8		5.2 5.1				5.2
20-Jan-18	WSD6	Mid-Flood	Cloudy	Rough	09:50	Surface	1	17.6 17.6	17.6	7.7 7.8	7.8	32.6 32.6	32.6	86.3 85.8	86.1	6.8 6.7	6.8	6.8	2.8 2.7	2.8	5.0	3.9	
						Middle	-	-	-	-	-	-	-	-	-	-	-		-				
						Bottom	4.6	17.6 17.6	17.6	7.8 7.8	7.8	32.7 32.7	32.7	85.1 85.0	85.1	6.7 6.7	6.7		5.0 5.0				5.0

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Baseline Water Quality Monitoring Results

Date	Location	Tide	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
20-Jan-18	WSD7	Mid-Flood	Cloudy	Rough	10:04	Surface	1	17.4	17.4	8.0	8.0	32.7	32.7	93.9	93.8	7.4	7.4	7.4	1.9	1.9	2.6
								17.4	17.4	8.0	8.0	32.7	32.7	93.7	93.3	7.4	7.4		1.8	1.8	
						Middle	4.5	17.4	17.4	8.0	8.0	32.8	32.8	93.4	93.2	7.4	7.4		2.8	2.9	
		Bottom	8	17.4	17.4	8.0	8.0	32.8	32.8	92.7	92.6	7.3	7.3	7.3	2.8	2.9					
20-Jan-18	WSD9	Mid-Flood	Cloudy	Rough	07:39	Surface	1	17.3	17.3	8.0	8.0	32.8	32.8	93.8	93.8	7.4	7.4	7.5	1.5	1.5	1.4
								17.3	17.3	8.0	8.0	32.8	32.8	93.8	93.8	7.4	7.4		1.5	1.5	
						Middle	4	17.3	17.3	7.9	8.0	32.9	32.9	96.2	95.6	7.6	7.6		1.2	1.4	
		Bottom	7	17.2	17.2	8.0	8.0	32.9	32.9	94.9	96.8	7.5	7.7	7.7	1.3	1.3					
								17.2	17.2	7.9	8.0	32.9	32.9	97.0	96.6	7.7	7.7	1.2	1.3		

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Baseline Water Quality Monitoring Results

Date	Location	Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
4-Feb-18	B10	Mid-Ebb	Cloudy	Moderate	15:11	Surface	-	-	-	-	-	-	-	-	-	-	-	7.6	-	-	2.3
						Middle	1.3	15.7 15.7	15.7	8.2 8.2	8.2	33.3 33.3	33.3	93.4 93.4	93.4	7.6 7.6	7.6	2.4 2.2	2.3		
						Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-		
4-Feb-18	B11	Mid-Ebb	Cloudy	Moderate	15:13	Surface	-	-	-	-	-	-	-	-	-	-	7.7	-	-	2.3	
						Middle	0.8	15.7 15.7	15.7	8.2 8.2	8.2	33.3 33.3	33.3	94.4 94.3	94.4	7.7 7.6	7.7	2.3 2.2	2.3		
						Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-		
4-Feb-18	B12	Mid-Ebb	Cloudy	Moderate	15:17	Surface	1	15.8 15.8	15.8	8.2 8.2	8.2	33.3 33.3	33.3	92.2 92.0	92.1	7.5 7.5	7.5	7.5	2.6 2.6	2.6	2.8
						Middle	-	-	-	-	-	-	-	-	-	-	-	-	-		
						Bottom	2.9	15.8 15.8	15.8	8.2 8.2	8.2	33.3 33.3	33.3	92.6 91.9	92.3	7.5 7.4	7.5	7.5	3.0 2.8	2.9	
4-Feb-18	B13	Mid-Ebb	Cloudy	Moderate	15:22	Surface	1	15.7 15.8	15.8	8.2 8.2	8.2	33.3 33.3	33.3	93.0 91.9	92.5	7.5 7.4	7.5	7.5	1.9 2.0	2.0	2.4
						Middle	4	15.7 15.8	15.8	8.2 8.2	8.2	33.3 33.3	33.3	92.4 91.6	92.0	7.5 7.4	7.5	2.0 2.4	2.2		
						Bottom	7	15.7 15.7	15.7	8.2 8.2	8.2	33.3 33.3	33.3	92.6 92.8	92.7	7.5 7.5	7.5	7.5	3.2 2.8	3.0	
4-Feb-18	B14	Mid-Ebb	Cloudy	Moderate	14:13	Surface	-	-	-	-	-	-	-	-	-	-	7.6	-	-	4.3	
						Middle	1	15.6 15.6	15.6	8.2 8.2	8.2	33.4 33.4	33.4	94.0 93.9	94.0	7.6 7.6	7.6	4.3 4.2	4.3		
						Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-		
4-Feb-18	B24	Mid-Ebb	Cloudy	Moderate	15:29	Surface	1	15.4 15.4	15.4	8.5 8.5	8.5	32.5 32.5	32.5	99.8 98.9	99.4	8.2 8.1	8.2	8.2	1.1 1.0	1.1	1.2
						Middle	4	15.4 15.4	15.4	8.5 8.5	8.5	32.5 32.5	32.5	99.3 98.9	99.1	8.1 8.1	8.1	1.2 1.0	1.1		
						Bottom	7	15.4 15.3	15.4	8.5 8.5	8.5	32.5 32.6	32.6	99.0 99.4	99.2	8.1 8.2	8.2	8.2	1.3 1.4	1.4	
4-Feb-18	B25	Mid-Ebb	Cloudy	Moderate	15:19	Surface	1	15.3 15.3	15.3	8.5 8.5	8.5	32.5 32.6	32.6	99.8 99.8	99.8	8.2 8.2	8.2	8.2	1.6 1.5	1.6	1.6
						Middle	-	-	-	-	-	-	-	-	-	-	-	-	-		
						Bottom	4.8	15.3 15.3	15.3	8.5 8.5	8.5	32.6 32.6	32.6	99.9 99.4	99.7	8.2 8.2	8.2	8.2	1.5 1.5	1.5	
4-Feb-18	B26	Mid-Ebb	Cloudy	Moderate	14:45	Surface	1	15.4 15.4	15.4	8.5 8.5	8.5	32.6 32.6	32.6	100.8 100.5	100.7	8.3 8.2	8.3	8.3	1.7 1.7	1.7	1.9
						Middle	5	15.4 15.4	15.4	8.5 8.5	8.5	32.6 32.6	32.6	100.3 100.3	100.3	8.2 8.2	8.2	8.2	1.7 1.7	1.7	
						Bottom	9	15.3 15.3	15.3	8.5 8.5	8.5	32.6 32.6	32.6	100.2 100.1	100.2	8.2 8.2	8.2	8.2	2.3 2.1	2.2	
4-Feb-18	B30	Mid-Ebb	Cloudy	Moderate	14:38	Surface	-	-	-	-	-	-	-	-	-	-	7.7	-	-	2.5	
						Middle	1.3	15.6 15.6	15.6	8.2 8.2	8.2	33.2 33.2	33.2	94.8 94.7	94.8	7.7 7.7	7.7	2.5 2.4	2.5		
						Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-		

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Baseline Water Quality Monitoring Results

Date	Location	Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	
4-Feb-18	B31	Mid-Ebb	Cloudy	Moderate	14:44	Surface	-	-	-	-	-	-	-	-	-	-	-	-	7.9	-	-	2.3
						Middle	1.2	15.9 15.9	15.9	8.2 8.2	8.2	33.2 33.2	33.2	98.0 97.2	97.6	7.9 7.9	7.9	7.9	7.9	2.3 2.2	2.3	
						Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Feb-18	B32	Mid-Ebb	Cloudy	Moderate	14:49	Surface	-	-	-	-	-	-	-	-	-	-	-	-	8.2	-	-	1.9
						Middle	1.2	15.4 15.4	15.4	8.2 8.2	8.2	33.0 33.1	33.1	101.2 99.0	100.1	8.3 8.1	8.2	8.2	2.0 1.8	1.9		
						Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Feb-18	B33	Mid-Ebb	Cloudy	Moderate	14:52	Surface	1	15.5 15.5	15.5	8.2 8.2	8.2	33.1 33.1	33.1	96.1 95.6	95.9	7.8 7.8	7.8	7.8	7.8	2.0 1.6	1.8	1.9
						Middle	4	15.6 15.6	15.6	8.2 8.2	8.2	33.1 33.1	33.1	95.6 95.4	95.5	7.8 7.8	7.8	7.8	2.1 1.7	1.9		
						Bottom	7	15.5 15.5	15.5	8.2 8.2	8.2	33.1 33.1	33.1	95.0 94.7	94.9	7.7 7.7	7.7	7.7	1.9 1.8	1.9		
4-Feb-18	B34	Mid-Ebb	Cloudy	Moderate	15:00	Surface	1	15.7 15.7	15.7	8.2 8.2	8.2	33.1 33.1	33.1	95.9 95.8	95.9	7.8 7.8	7.8	7.8	7.8	2.4 2.5	2.5	2.6
						Middle	3	15.7 15.7	15.7	8.2 8.2	8.2	33.1 33.2	33.2	96.2 96.2	96.2	7.8 7.8	7.8	7.8	2.8 2.6	2.7		
						Bottom	5	15.7 15.7	15.7	8.2 8.2	8.2	33.1 33.2	33.2	96.6 96.2	96.4	7.9 7.8	7.9	7.9	2.6 2.5	2.6		
4-Feb-18	B35	Mid-Ebb	Cloudy	Moderate	15:06	Surface	1	15.7 15.7	15.7	8.2 8.2	8.2	33.1 33.2	33.2	97.7 96.2	97.0	7.9 7.8	7.9	7.9	7.9	1.6 1.6	1.6	1.9
						Middle	4.5	15.7 15.7	15.7	8.2 8.2	8.2	33.2 33.2	33.2	96.1 95.8	96.0	7.8 7.8	7.8	7.8	1.8 1.7	1.8		
						Bottom	8	15.5 15.5	15.5	8.2 8.2	8.2	33.1 33.1	33.1	95.8 95.7	95.8	7.8 7.8	7.8	7.8	2.2 2.3	2.3		
4-Feb-18	B7	Mid-Ebb	Cloudy	Moderate	14:50	Surface	-	-	-	-	-	-	-	-	-	-	-	-	7.9	-	-	2.8
						Middle	0.7	15.7 15.7	15.7	8.2 8.2	8.2	33.4 33.4	33.4	97.5 95.7	96.6	7.9 7.8	7.9	7.9	2.8 2.8	2.8		
						Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Feb-18	B8	Mid-Ebb	Cloudy	Moderate	14:56	Surface	1	15.7 15.7	15.7	8.2 8.2	8.2	33.3 33.4	33.4	93.7 92.1	92.9	7.6 7.5	7.6	7.6	7.6	3.3 3.8	3.6	3.5
						Middle	4.5	15.7 15.7	15.7	8.2 8.2	8.2	33.4 33.4	33.4	92.7 91.9	92.3	7.5 7.4	7.5	7.5	3.5 3.4	3.5		
						Bottom	8	15.7 15.7	15.7	8.2 8.2	8.2	33.4 33.4	33.4	92.0 91.5	91.8	7.5 7.4	7.5	7.5	3.6 3.4	3.5		
4-Feb-18	B9	Mid-Ebb	Cloudy	Moderate	15:05	Surface	1	15.7 15.7	15.7	8.2 8.2	8.2	33.3 33.4	33.4	92.5 92.2	92.4	7.5 7.5	7.5	7.5	7.5	2.4 2.2	2.3	2.8
						Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
						Bottom	2.6	15.7 15.7	15.7	8.2 8.2	8.2	33.3 33.3	33.3	92.1 92.1	92.1	7.5 7.5	7.5	7.5	7.5	3.1 3.3	3.2	
4-Feb-18	EM1	Mid-Ebb	Cloudy	Moderate	15:19	Surface	1	15.5 15.5	15.5	8.2 8.2	8.2	32.5 32.5	32.5	100.3 98.4	99.4	8.2 8.0	8.1	8.1	8.1	1.7 1.7	1.7	1.7
						Middle	9	15.5 15.5	15.5	8.2 8.2	8.2	32.6 32.6	32.6	98.9 98.2	98.6	8.1 8.0	8.1	8.1	8.1	1.8 1.6	1.7	
						Bottom	17	15.5 15.5	15.5	8.2 8.2	8.2	32.6 32.6	32.6	98.7 98.4	98.6	8.1 8.1	8.1	8.1	8.1	1.7 1.4	1.6	

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Date	Location	Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
4-Feb-18	EM2	Mid-Ebb	Cloudy	Moderate	15:28	Surface	1	15.4 15.4	15.4	8.2 8.2	8.2	32.6 32.6	32.6	100.8 98.8	99.8	8.3 8.1	8.2	8.2	1.2 1.2	1.2	1.1
						Middle	10	15.4 15.5	15.5	8.2 8.2	8.2	32.7 32.7	32.7	99.3 98.7	99.0	8.1 8.1	8.1		0.9 1.0	1.0	
						Bottom	19	15.5 15.5	15.5	8.2 8.2	8.2	32.7 32.7	32.7	98.5 98.7	98.6	8.1 8.1	8.1		1.2 1.1	1.2	
4-Feb-18	EM3	Mid-Ebb	Cloudy	Moderate	15:01	Surface	1	15.5 15.5	15.5	8.5 8.5	8.5	32.6 32.6	32.6	96.5 96.9	96.7	8.0 7.9	8.0	8.0	2.0 2.0	2.0	3.4
						Middle	12	15.5 15.5	15.5	8.5 8.5	8.5	32.6 32.6	32.6	96.7 96.6	96.7	7.9 7.9	7.9		2.4 2.2	2.3	
						Bottom	23	15.5 15.5	15.5	8.5 8.5	8.5	32.6 32.6	32.6	96.2 96.1	96.2	7.9 7.9	7.9		6.0 5.7	5.9	
4-Feb-18	F1	Mid-Ebb	Cloudy	Moderate	15:43	Surface	1	15.4 15.4	15.4	8.2 8.2	8.2	32.7 32.7	32.7	102.0 100.0	101.0	8.4 8.2	8.3	8.3	1.2 1.0	1.1	1.0
						Middle	5	15.4 15.4	15.4	8.2 8.2	8.2	32.7 32.7	32.7	100.8 99.9	100.4	8.3 8.2	8.3		1.0 1.0	1.0	
						Bottom	9	15.4 15.4	15.4	8.2 8.2	8.2	32.7 32.7	32.7	100.3 99.7	100.0	8.2 8.2	8.2		1.0 1.0	1.0	
4-Feb-18	F4	Mid-Ebb	Cloudy	Moderate	15:32	Surface	1	15.8 15.8	15.8	8.2 8.2	8.2	33.1 33.1	33.1	93.8 92.8	93.3	7.6 7.5	7.6	7.6	2.4 2.8	2.6	3.1
						Middle	5	15.8 15.8	15.8	8.2 8.2	8.2	33.1 33.1	33.1	93.1 92.4	92.8	7.5 7.5	7.5		2.8 2.7	2.8	
						Bottom	9	15.8 15.8	15.8	8.2 8.2	8.2	33.1 33.1	33.1	91.9 91.3	91.6	7.5 7.4	7.5		3.5 4.1	3.8	
4-Feb-18	F5	Mid-Ebb	Cloudy	Moderate	14:35	Surface	1	15.6 15.7	15.7	8.1 8.2	8.2	33.3 33.3	33.3	94.7 92.3	93.5	7.7 7.5	7.6	7.6	2.8 2.7	2.8	3.8
						Middle	4	15.7 15.7	15.7	8.1 8.2	8.2	33.4 33.4	33.4	92.5 91.9	92.2	7.5 7.5	7.5		3.6 4.4	4.0	
						Bottom	7	15.7 15.7	15.7	8.2 8.2	8.2	33.4 33.4	33.4	91.9 91.5	91.7	7.5 7.4	7.5		4.2 4.7	4.5	
4-Feb-18	JM3	Mid-Ebb	Cloudy	Moderate	16:16	Surface	1	15.5 15.5	15.5	8.2 8.2	8.2	32.5 32.5	32.5	102.2 97.9	100.1	8.4 8.0	8.2	8.2	1.6 1.6	1.6	1.6
						Middle	5.5	15.5 15.5	15.5	8.2 8.2	8.2	32.5 32.5	32.5	99.2 97.8	98.5	8.1 8.0	8.1		1.6 1.6	1.6	
						Bottom	10	15.4 15.5	15.5	8.2 8.2	8.2	32.6 32.6	32.6	97.9 97.6	97.8	8.0 8.0	8.0		1.7 1.7	1.7	
4-Feb-18	MM13	Mid-Ebb	Cloudy	Rough	13:49	Surface	1	15.1 15.1	15.1	8.5 8.5	8.5	32.6 32.6	32.6	97.4 96.4	96.9	8.0 7.9	8.0	8.0	2.9 2.9	2.9	3.2
						Middle	14.5	15.1 15.1	15.1	8.5 8.5	8.5	32.6 32.6	32.6	96.0 95.9	96.0	7.9 7.9	7.9		3.3 3.2	3.3	
						Bottom	28	15.1 15.1	15.1	8.5 8.5	8.5	32.6 32.6	32.6	95.9 95.8	95.9	7.9 7.9	7.9		3.4 3.4	3.4	
4-Feb-18	SM12	Mid-Ebb	Cloudy	Rough	14:01	Surface	1	14.9 14.9	14.9	8.0 8.1	8.1	34.9 34.9	34.9	98.2 97.3	97.8	8.0 8.0	8.0	8.0	6.8 6.0	6.4	8.9
						Middle	4	14.9 14.9	14.9	8.1 8.1	8.1	34.9 34.9	34.9	96.9 96.7	96.8	7.9 7.9	7.9		6.9 6.5	6.7	
						Bottom	7	14.9 14.9	14.9	8.1 8.1	8.1	34.9 34.9	34.9	96.7 96.5	96.6	7.9 7.9	7.9		14.3 13.0	13.7	
4-Feb-18	SM17	Mid-Ebb	Cloudy	Rough	14:27	Surface	1	15.1 15.1	15.1	8.1 8.1	8.1	35.0 35.0	35.0	97.8 98.3	98.1	7.9 8.0	8.0	8.0	3.6 3.4	3.5	3.6
						Middle	9	15.2 15.2	15.2	8.1 8.1	8.1	35.0 35.0	35.0	96.8 96.6	96.7	7.9 7.8	7.9		2.7 2.9	2.8	
						Bottom	17	15.2 15.2	15.2	8.1 8.1	8.1	35.0 35.0	35.0	96.3 96.3	96.3	7.8 7.8	7.8		4.6 4.4	4.5	

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								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
4-Feb-18	SM2	Mid-Ebb	Cloudy	Moderate	14:25	Surface	1	16.0 16.0	16.0	8.2 8.2	8.2	33.2 33.2	33.2	94.9 95.0	95.0	7.7 7.7	7.7	2.6 2.7	3.4		
						Middle	7	16.0 16.0	16.0	8.2 8.2	8.2	33.3 33.3	33.3	94.1 93.9	94.0	7.6 7.6	7.6	3.2 3.4			
						Bottom	13	16.0 16.0	16.0	8.2 8.2	8.2	33.3 33.3	33.3	93.4 93.3	93.4	7.5 7.5	7.5	4.3 4.1			
4-Feb-18	SM3	Mid-Ebb	Cloudy	Moderate	15:23	Surface	1	15.9 15.9	15.9	8.2 8.2	8.2	33.2 33.2	33.2	97.7 93.7	95.7	7.9 7.6	7.8	3.1 3.0	4.1		
						Middle	15.5	16.0 16.0	16.0	8.2 8.2	8.2	33.2 33.2	33.2	92.6 92.3	92.5	7.5 7.5	7.5	4.2 4.3			
						Bottom	30	16.0 16.0	16.0	8.2 8.2	8.2	33.2 33.2	33.2	92.6 92.3	92.5	7.5 7.4	7.5	4.7 5.1			
4-Feb-18	SM6	Mid-Ebb	Cloudy	Rough	14:57	Surface	1	15.8 15.9	15.9	8.1 8.1	8.1	35.2 35.2	35.2	97.9 97.0	97.5	7.8 7.8	7.8	3.3 3.5	3.3		
						Middle	7.5	15.8 15.8	15.8	8.1 8.1	8.1	35.2 35.2	35.2	97.2 96.4	96.8	7.8 7.7	7.8	3.0 3.1			
						Bottom	14	15.8 15.8	15.8	8.1 8.1	8.1	35.2 35.2	35.2	96.6 96.3	96.5	7.7 7.7	7.7	3.2 3.3			
4-Feb-18	VM1	Mid-Ebb	Cloudy	Moderate	14:49	Surface	1	15.6 15.6	15.6	8.2 8.2	8.2	32.5 32.4	32.5	98.0 95.3	96.7	8.0 7.8	7.9	1.8 1.7	1.8		
						Middle	15.5	15.5 15.5	15.5	8.2 8.2	8.2	32.6 32.6	32.6	96.6 96.4	96.5	7.9 7.9	7.9	1.8 1.7			
						Bottom	30	15.5 15.5	15.5	8.2 8.2	8.2	32.6 32.6	32.6	96.4 96.6	96.5	7.9 7.9	7.9	1.8 1.8			
4-Feb-18	VM12	Mid-Ebb	Cloudy	Moderate	15:49	Surface	1	15.8 15.8	15.8	8.1 8.1	8.1	34.8 34.8	34.8	88.7 89.2	89.0	7.1 7.2	7.2	3.2 3.3	3.5		
						Middle	9	15.9 15.9	15.9	8.1 8.1	8.1	34.7 34.8	34.8	87.5 88.0	87.8	7.0 7.1	7.1	2.8 2.7			
						Bottom	17	15.8 15.9	15.9	8.1 8.1	8.1	34.8 34.8	34.8	86.3 85.2	85.8	6.9 6.8	6.9	4.2 4.4			
4-Feb-18	VM14	Mid-Ebb	Cloudy	Moderate	15:51	Surface	1	15.8 15.8	15.8	8.2 8.2	8.2	33.3 33.3	33.3	92.0 90.5	91.3	7.5 7.3	7.4	4.0 4.5	4.8		
						Middle	4	15.8 15.8	15.8	8.2 8.2	8.2	33.3 33.3	33.3	90.8 90.2	90.5	7.4 7.3	7.4	5.1 5.1			
						Bottom	7	15.8 15.8	15.8	8.2 8.2	8.2	33.3 33.3	33.3	90.6 90.3	90.5	7.3 7.3	7.3	5.0 5.0			
4-Feb-18	VM15	Mid-Ebb	Cloudy	Moderate	15:39	Surface	1	15.7 15.7	15.7	8.2 8.2	8.2	34.7 34.7	34.7	92.7 92.4	92.6	7.5 7.4	7.5	3.1 2.9	3.5		
						Middle	5.5	15.7 15.7	15.7	8.2 8.2	8.2	34.7 34.7	34.7	92.4 92.1	92.3	7.4 7.4	7.4	3.2 3.0			
						Bottom	10	15.7 15.7	15.7	8.2 8.2	8.2	34.7 34.7	34.7	92.0 92.0	92.0	7.4 7.4	7.4	4.3 4.5			
4-Feb-18	VM2	Mid-Ebb	Cloudy	Moderate	14:21	Surface	1	15.5 15.5	15.5	8.2 8.2	8.2	32.5 32.6	32.6	103.4 97.9	100.7	8.5 8.0	8.3	2.0 2.0	2.1		
						Middle	7	15.5 15.5	15.5	8.2 8.2	8.2	32.6 32.6	32.6	99.6 97.3	98.5	8.1 8.0	8.1	2.2 2.1			
						Bottom	13	15.5 15.5	15.5	8.2 8.2	8.2	32.6 32.6	32.6	97.9 96.9	97.4	8.0 7.9	8.0	2.3 2.1			
4-Feb-18	VM4	Mid-Ebb	Cloudy	Moderate	14:09	Surface	1	15.6 15.6	15.6	8.2 8.2	8.2	34.7 34.7	34.7	94.0 94.0	94.0	7.6 7.6	7.6	1.5 1.4	1.7		
						Middle	7	15.6 15.6	15.6	8.2 8.2	8.2	34.8 34.8	34.8	94.0 94.1	94.1	7.6 7.6	7.6	1.7 1.6			
						Bottom	13	15.6 15.6	15.6	8.2 8.2	8.2	34.8 34.8	34.8	94.4 94.3	94.4	7.6 7.6	7.6	1.9 1.9			

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								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
4-Feb-18	VM5	Mid-Ebb	Cloudy	Moderate	14:29	Surface	1	15.7 15.7	15.7	8.2 8.2	8.2	34.6 34.6	34.6	91.7 91.8	91.8	7.4 7.4	7.4	7.5	1.3 1.4	1.4	1.4
						Middle	7	15.6 15.6	15.6	8.2 8.2	8.2	34.8 34.7	34.8	94.0 93.8	93.9	7.6 7.6	7.6		1.4 1.5	1.5	
						Bottom	13	15.6 15.6	15.6	8.2 8.2	8.2	34.7 34.7	34.7	93.7 93.6	93.7	7.5 7.5	7.5		1.4 1.3	1.4	
4-Feb-18	VM7	Mid-Ebb	Cloudy	Moderate	15:02	Surface	1	15.7 15.7	15.7	8.2 8.2	8.2	34.7 34.7	34.7	93.4 92.6	93.0	7.5 7.5	7.5	7.5	1.6 1.7	1.7	2.0
						Middle	6.5	15.7 15.7	15.7	8.2 8.2	8.2	34.7 34.7	34.7	92.3 92.0	92.2	7.4 7.4	7.4		2.0 2.1	2.1	
						Bottom	12	15.7 15.7	15.7	8.2 8.2	8.2	34.7 34.7	34.7	91.9 91.3	91.6	7.4 7.3	7.4		2.1 2.2	2.2	
4-Feb-18	VM8	Mid-Ebb	Cloudy	Moderate	15:25	Surface	1	15.9 15.9	15.9	8.2 8.2	8.2	34.3 34.4	34.4	89.0 89.0	89.0	7.1 7.1	7.1	7.3	2.9 3.0	3.0	3.4
						Middle	6	15.8 15.8	15.8	8.2 8.2	8.2	34.8 34.8	34.8	92.3 92.6	92.5	7.4 7.4	7.4		2.9 3.0	3.0	
						Bottom	11	15.9 15.9	15.9	8.2 8.2	8.2	34.9 35.0	35.0	93.9 94.8	94.4	7.5 7.6	7.6		4.2 4.3	4.3	
4-Feb-18	WM1	Mid-Ebb	Cloudy	Moderate	15:42	Surface	1	15.9 16.0	16.0	8.2 8.2	8.2	33.2 33.2	33.2	96.0 94.4	95.2	7.8 7.6	7.7	7.6	2.9 2.8	2.9	3.9
						Middle	15	16.0 16.0	16.0	8.2 8.2	8.2	33.2 33.2	33.2	93.3 93.0	93.2	7.5 7.5	7.5		3.5 4.1	3.8	
						Bottom	29	16.0 16.0	16.0	8.2 8.2	8.2	33.2 33.2	33.2	92.5 92.3	92.4	7.5 7.4	7.5		5.2 5.0	5.1	
4-Feb-18	WM2	Mid-Ebb	Cloudy	Moderate	15:28	Surface	1	15.8 15.8	15.8	8.1 8.1	8.1	35.0 35.1	35.1	96.0 94.9	95.5	7.7 7.6	7.7	7.7	2.5 2.7	2.6	3.6
						Middle	7.5	15.8 15.8	15.8	8.1 8.1	8.1	35.0 35.1	35.1	94.9 94.2	94.6	7.6 7.5	7.6		3.5 3.5	3.5	
						Bottom	14	15.8 15.8	15.8	8.1 8.1	8.1	35.0 35.0	35.0	93.6 92.9	93.3	7.5 7.4	7.5		4.6 4.8	4.7	
4-Feb-18	WM4	Mid-Ebb	Cloudy	Moderate	14:19	Surface	1	15.7 15.7	15.7	8.2 8.2	8.2	33.4 33.4	33.4	94.9 93.4	94.2	7.7 7.6	7.7	7.6	3.0 3.0	3.0	3.2
						Middle	15	15.7 15.7	15.7	8.2 8.2	8.2	33.4 33.4	33.4	92.6 92.5	92.6	7.5 7.5	7.5		2.9 3.3	3.1	
						Bottom	29	15.7 15.7	15.7	8.2 8.2	8.2	33.4 33.4	33.4	92.1 92.1	92.1	7.5 7.5	7.5		3.1 3.6	3.4	
4-Feb-18	WSD10	Mid-Ebb	Cloudy	Moderate	14:05	Surface	1	15.6 15.6	15.6	8.2 8.2	8.2	32.5 32.4	32.5	99.2 97.0	98.1	8.1 7.9	8.0	8.0	1.9 1.9	1.9	2.3
						Middle	5.5	15.6 15.6	15.6	8.2 8.2	8.2	32.6 32.6	32.6	96.9 96.9	96.9	7.9 7.9	7.9		2.2 2.1	2.2	
						Bottom	10	15.5 15.5	15.5	8.2 8.2	8.2	32.6 32.6	32.6	96.5 96.5	96.5	7.9 7.9	7.9		2.7 3.0	2.9	
4-Feb-18	WSD11	Mid-Ebb	Cloudy	Moderate	13:51	Surface	1	15.6 15.6	15.6	8.1 8.1	8.1	32.5 32.5	32.5	99.4 97.1	98.3	8.1 7.9	8.0	8.0	1.8 1.7	1.8	1.9
						Middle	8	15.6 15.5	15.6	8.1 8.1	8.1	32.5 32.5	32.5	97.5 96.8	97.2	8.0 7.9	8.0		1.9 1.8	1.9	
						Bottom	15	15.5 15.5	15.5	8.1 8.1	8.1	32.6 32.6	32.6	97.2 97.0	97.1	7.9 7.9	7.9		1.9 1.8	1.9	
4-Feb-18	WSD12	Mid-Ebb	Cloudy	Moderate	16:23	Surface	1	15.5 15.5	15.5	8.2 8.2	8.2	32.5 32.5	32.5	100.8 98.3	99.6	8.3 8.1	8.2	8.2	2.3 2.2	2.3	2.3
						Middle	3.5	15.5 15.5	15.5	8.2 8.2	8.2	32.5 32.5	32.5	99.5 98.2	98.9	8.1 8.0	8.1		2.3 2.2	2.3	
						Bottom	6	15.5 15.5	15.5	8.2 8.2	8.2	32.5 32.5	32.5	98.8 98.1	98.5	8.1 8.0	8.1		2.4 2.3	2.4	

Remarks: *DA: Depth-Averaged

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DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Baseline Water Quality Monitoring Results

Date	Location	Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
4-Feb-18	WSD13	Mid-Ebb	Cloudy	Moderate	15:09	Surface	1	15.4 15.4	15.4	8.2 8.2	8.2	32.6 32.6	32.6	100.1 98.4	99.3	8.2 8.1	8.2	8.2	1.3 1.3	1.3	1.3
						Middle	4.5	15.4 15.4	15.4	8.2 8.2	8.2	32.6 32.6	32.6	99.3 98.2	98.8	8.1 8.0	8.1		1.3 1.3	1.3	
						Bottom	8	15.5 15.5	15.5	8.2 8.2	8.2	32.6 32.6	32.6	98.7 98.3	98.5	8.1 8.0	8.1		1.4 1.3	1.4	
4-Feb-18	WSD15	Mid-Ebb	Cloudy	Moderate	14:40	Surface	1	15.6 15.6	15.6	8.2 8.2	8.2	32.4 32.3	32.4	98.4 96.4	97.4	8.0 7.9	8.0	8.0	1.8 1.7	1.8	2.0
						Middle	7	15.6 15.6	15.6	8.2 8.2	8.2	32.5 32.5	32.5	97.2 96.5	96.9	7.9 7.9	7.9		2.0 2.0	2.0	
						Bottom	13	15.5 15.5	15.5	8.2 8.2	8.2	32.5 32.6	32.6	96.8 96.7	96.8	7.9 7.9	7.9		2.1 2.1	2.1	
4-Feb-18	WSD17	Mid-Ebb	Cloudy	Moderate	14:27	Surface	1	15.5 15.6	15.6	8.2 8.2	8.2	32.5 32.5	32.5	99.8 97.0	98.4	8.2 7.9	8.1	8.1	1.7 1.8	1.8	1.8
						Middle	5	15.5 15.6	15.6	8.2 8.2	8.2	32.5 32.6	32.6	98.1 96.9	97.5	8.0 7.9	8.0		1.7 1.9	1.8	
						Bottom	9	15.5 15.5	15.5	8.2 8.2	8.2	32.6 32.6	32.6	97.3 96.5	96.9	8.0 7.9	8.0		1.8 1.9	1.9	
4-Feb-18	WSD18	Mid-Ebb	Cloudy	Moderate	14:41	Surface	1	15.7 15.7	15.7	8.2 8.2	8.2	34.6 34.6	34.6	91.0 90.5	90.8	7.3 7.3	7.3	7.3	2.1 2.3	2.2	2.3
						Middle	6	15.7 15.7	15.7	8.2 8.2	8.2	34.6 34.6	34.6	90.3 90.2	90.3	7.3 7.3	7.3		2.4 2.2	2.3	
						Bottom	11	15.7 15.7	15.7	8.2 8.2	8.2	34.6 34.6	34.6	89.6 90.0	89.8	7.2 7.2	7.2		2.5 2.3	2.4	
4-Feb-18	WSD19	Mid-Ebb	Cloudy	Moderate	14:51	Surface	1	15.7 15.7	15.7	8.2 8.2	8.2	34.7 34.7	34.7	92.7 91.7	92.2	7.5 7.4	7.5	7.5	2.3 2.4	2.4	2.5
						Middle	6.5	15.7 15.7	15.7	8.2 8.2	8.2	34.7 34.7	34.7	91.7 91.6	91.7	7.4 7.4	7.4		2.3 2.4	2.4	
						Bottom	12	15.7 15.8	15.8	8.2 8.2	8.2	34.7 34.7	34.7	91.0 90.7	90.9	7.3 7.3	7.3		2.6 2.6	2.6	
4-Feb-18	WSD20	Mid-Ebb	Cloudy	Moderate	15:13	Surface	1	15.8 15.8	15.8	8.2 8.2	8.2	34.8 34.8	34.8	92.9 92.5	92.7	7.4 7.4	7.4	7.5	2.3 2.2	2.3	3.3
						Middle	5	15.9 15.9	15.9	8.2 8.2	8.2	34.9 34.9	34.9	93.3 93.3	93.3	7.5 7.5	7.5		2.4 2.1	2.3	
						Bottom	9	15.9 15.9	15.9	8.2 8.2	8.2	35.0 35.0	35.0	94.2 94.1	94.2	7.5 7.5	7.5		5.4 5.3	5.4	
4-Feb-18	WSD21	Mid-Ebb	Cloudy	Moderate	15:17	Surface	1	15.9 16.0	16.0	8.2 8.2	8.2	33.2 33.2	33.2	96.5 94.9	95.7	7.8 7.7	7.8	7.8	2.9 2.8	2.9	3.3
						Middle	3.5	15.9 16.0	16.0	8.2 8.2	8.2	33.2 33.2	33.2	95.9 95.1	95.5	7.8 7.7	7.8		3.4 3.1	3.3	
						Bottom	6	16.0 16.0	16.0	8.2 8.2	8.2	33.2 33.2	33.2	95.6 95.2	95.4	7.7 7.7	7.7		3.4 4.0	3.7	
4-Feb-18	WSD22	Mid-Ebb	Cloudy	Moderate	14:20	Surface	1	15.7 15.7	15.7	8.2 8.2	8.2	34.7 34.7	34.7	92.1 91.7	91.9	7.4 7.4	7.4	7.5	1.5 1.5	1.5	1.5
						Middle	4.5	15.7 15.7	15.7	8.2 8.2	8.2	34.7 34.7	34.7	92.9 92.9	92.9	7.5 7.5	7.5		1.5 1.5	1.5	
						Bottom	8	15.6 15.7	15.7	8.2 8.2	8.2	34.7 34.7	34.7	93.4 92.9	93.2	7.5 7.5	7.5		1.5 1.6	1.6	
4-Feb-18	WSD4	Mid-Ebb	Cloudy	Moderate	15:35	Surface	1	15.8 15.8	15.8	8.2 8.2	8.2	33.2 33.3	33.3	91.1 90.1	90.6	7.4 7.3	7.4	7.4	3.0 2.9	3.0	3.2
						Middle	4	15.8 15.8	15.8	8.2 8.2	8.2	33.3 33.3	33.3	90.4 89.8	90.1	7.3 7.3	7.3		3.2 3.2	3.2	
						Bottom	7	15.8 15.8	15.8	8.2 8.2	8.2	33.3 33.3	33.3	89.9 89.5	89.7	7.3 7.2	7.3		3.4 3.3	3.4	

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Baseline Water Quality Monitoring Results

Date	Location	Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
4-Feb-18	WSD5	Mid-Ebb	Cloudy	Moderate	16:01	Surface	1	15.7 15.8	15.8	8.2 8.2	8.2	33.3 33.3	33.3	96.4 90.0	93.2	7.8 7.3	7.6	7.5	4.8 5.7	5.3	5.3
						Middle	9.5	15.8 15.8	15.8	8.2 8.2	8.2	33.3 33.3	33.3	89.9 90.2	90.1	7.3 7.3	7.3		5.7 4.9	5.3	
						Bottom	18	15.8 15.8	15.8	8.2 8.2	8.2	33.3 33.3	33.3	90.8 89.8	90.3	7.4 7.3	7.4		4.9 5.4	5.2	
4-Feb-18	WSD6	Mid-Ebb	Cloudy	Moderate	15:51	Surface	1	15.7 15.7	15.7	8.2 8.2	8.2	34.6 34.6	34.6	86.7 86.2	86.5	7.0 6.9	7.0	7.0	4.8 4.8	4.8	5.3
						Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	
						Bottom	4.6	15.7 15.8	15.8	8.2 8.2	8.2	34.6 34.6	34.6	87.5 87.2	87.4	7.0 7.0	7.0		5.7 5.9	5.8	
4-Feb-18	WSD7	Mid-Ebb	Cloudy	Moderate	16:01	Surface	1	15.7 15.7	15.7	8.2 8.2	8.2	34.7 34.7	34.7	89.3 88.2	88.8	7.2 7.1	7.2	7.2	3.6 3.2	3.4	3.3
						Middle	5	15.7 15.7	15.7	8.2 8.2	8.2	34.7 34.6	34.7	88.5 87.8	88.2	7.1 7.1	7.1		3.1 3.3	3.2	
						Bottom	9	15.7 15.7	15.7	8.2 8.2	8.2	34.7 34.7	34.7	87.2 87.3	87.3	7.0 7.0	7.0		3.3 3.4	3.4	
4-Feb-18	WSD9	Mid-Ebb	Cloudy	Moderate	13:58	Surface	1	15.6 15.6	15.6	8.2 8.2	8.2	34.8 34.8	34.8	95.8 96.0	95.9	7.7 7.7	7.7	7.7	1.4 1.4	1.4	1.4
						Middle	5.5	15.6 15.6	15.6	8.2 8.2	8.2	34.8 34.8	34.8	95.6 95.9	95.8	7.7 7.7	7.7		1.5 1.5	1.5	
						Bottom	10	15.6 15.6	15.6	8.2 8.2	8.2	34.8 34.8	34.8	95.6 95.7	95.7	7.7 7.7	7.7		1.4 1.4	1.4	

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								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
4-Feb-18	B10	Mid-Flood	Cloudy	Moderate	09:56	Surface	-	-	-	-	-	-	-	-	-	-	-	7.6	-	-	2.4
						Middle	1.3	15.6 15.6	15.6	8.2 8.2	8.2	33.4 33.4	33.4	93.4 92.9	93.2	7.6 7.5	7.6	2.4 2.3	2.4		
						Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-		
4-Feb-18	B11	Mid-Flood	Cloudy	Moderate	09:52	Surface	-	-	-	-	-	-	-	-	-	-	-	8.0	-	-	2.4
						Middle	0.9	15.5 15.5	15.5	8.2 8.2	8.2	33.3 33.3	33.3	97.9 96.7	97.3	8.0 7.9	8.0	2.4 2.4	2.4		
						Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-		
4-Feb-18	B12	Mid-Flood	Cloudy	Moderate	09:47	Surface	1	15.6 15.6	15.6	8.2 8.2	8.2	33.3 33.4	33.4	93.5 92.9	93.2	7.6 7.5	7.6	7.6	2.2 2.1	2.2	2.3
						Middle	-	-	-	-	-	-	-	-	-	-	-	-	-		
						Bottom	2.8	15.6 15.6	15.6	8.2 8.2	8.2	33.4 33.4	33.4	93.1 92.6	92.9	7.6 7.5	7.6	7.6	2.2 2.3	2.3	
4-Feb-18	B13	Mid-Flood	Cloudy	Moderate	09:40	Surface	1	15.8 15.8	15.8	8.2 8.2	8.2	33.3 33.3	33.3	91.0 90.7	90.9	7.4 7.3	7.4	7.4	3.7 3.6	3.7	3.5
						Middle	3	15.8 15.8	15.8	8.2 8.2	8.2	33.3 33.3	33.3	90.7 90.5	90.6	7.4 7.3	7.4	3.1 3.3	3.2		
						Bottom	5	15.8 15.8	15.8	8.2 8.2	8.2	33.3 33.3	33.3	90.3 90.3	90.3	7.3 7.3	7.3	3.7 3.5	3.6		
4-Feb-18	B14	Mid-Flood	Cloudy	Moderate	10:46	Surface	-	-	-	-	-	-	-	-	-	-	-	7.8	-	-	4.2
						Middle	0.8	15.4 15.4	15.4	8.2 8.2	8.2	33.3 33.3	33.3	95.7 94.6	95.2	7.8 7.7	7.8	4.4 4.0	4.2		
						Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-		
4-Feb-18	B24	Mid-Flood	Cloudy	Moderate	08:11	Surface	1	15.3 15.3	15.3	8.4 8.4	8.4	32.5 32.6	32.6	97.8 97.6	97.7	8.0 8.0	8.0	8.0	1.4 1.2	1.3	1.4
						Middle	4	15.3 15.3	15.3	8.4 8.4	8.4	32.5 32.6	32.6	97.7 97.4	97.6	8.0 8.0	8.0	1.3 1.3	1.3		
						Bottom	7	15.3 15.3	15.3	8.4 8.4	8.4	32.6 32.6	32.6	97.5 97.2	97.4	8.0 8.0	8.0	1.4 1.5	1.5		
4-Feb-18	B25	Mid-Flood	Cloudy	Moderate	08:21	Surface	1	15.2 15.3	15.3	8.5 8.5	8.5	32.6 32.6	32.6	99.0 97.7	98.4	8.1 8.0	8.1	8.1	1.4 1.3	1.4	1.4
						Middle	-	-	-	-	-	-	-	-	-	-	-	-			
						Bottom	4.8	15.3 15.3	15.3	8.5 8.5	8.5	32.6 32.6	32.6	97.7 97.6	97.7	8.0 8.0	8.0	1.2 1.4	1.3		
4-Feb-18	B26	Mid-Flood	Cloudy	Moderate	08:50	Surface	1	15.4 15.4	15.4	8.5 8.5	8.5	32.6 32.6	32.6	101.6 98.9	100.3	8.3 8.1	8.2	8.2	2.0 1.9	2.0	2.0
						Middle	5	15.4 15.4	15.4	8.5 8.5	8.5	32.6 32.6	32.6	100.1 98.6	99.4	8.2 8.1	8.2	2.1 1.9	2.0		
						Bottom	9	15.4 15.5	15.5	8.5 8.5	8.5	32.6 32.6	32.6	99.1 98.6	98.9	8.1 8.1	8.1	2.0 2.1	2.1		
4-Feb-18	B30	Mid-Flood	Cloudy	Moderate	10:07	Surface	-	-	-	-	-	-	-	-	-	-	-	7.5	-	-	2.7
						Middle	1.2	15.5 15.5	15.5	8.2 8.2	8.2	33.1 33.2	33.2	91.5 91.2	91.4	7.5 7.4	7.5	2.6 2.8	2.7		
						Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-		

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								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	
4-Feb-18	B31	Mid-Flood	Cloudy	Moderate	10:16	Surface	-	-	-	-	-	-	-	-	-	-	-	-	7.8	-	-	2.4
						Middle	1.2	15.8 15.9	15.9	8.2 8.2	8.2	33.2 33.2	33.2	96.6 95.3	96.0	7.8 7.7	7.8	7.8	2.3 2.5	2.4		
						Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Feb-18	B32	Mid-Flood	Cloudy	Moderate	10:21	Surface	-	-	-	-	-	-	-	-	-	-	-	-	7.8	-	-	2.2
						Middle	1.2	15.5 15.5	15.5	8.2 8.2	8.2	33.1 33.1	33.1	95.2 94.4	94.8	7.8 7.7	7.8	7.8	2.2 2.1	2.2		
						Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Feb-18	B33	Mid-Flood	Cloudy	Moderate	10:25	Surface	1	15.6 15.6	15.6	8.2 8.2	8.2	33.1 33.1	33.1	95.1 94.3	94.7	7.7 7.7	7.7	7.7	7.7	2.3 2.0	2.2	2.1
						Middle	4	15.6 15.7	15.7	8.2 8.2	8.2	33.1 33.1	33.1	94.3 94.0	94.2	7.7 7.6	7.7	7.7	2.3 1.9	2.1		
						Bottom	7	15.7 15.7	15.7	8.2 8.2	8.2	33.1 33.1	33.1	93.8 93.7	93.8	7.6 7.6	7.6	7.6	2.0 1.9	2.0		
4-Feb-18	B34	Mid-Flood	Cloudy	Moderate	10:30	Surface	1	15.5 15.6	15.6	8.2 8.2	8.2	33.1 33.1	33.1	95.7 92.7	94.2	7.8 7.5	7.7	7.7	7.7	2.1 2.5	2.3	2.2
						Middle	3	15.5 15.6	15.6	8.2 8.2	8.2	33.1 33.1	33.1	93.8 93.0	93.4	7.6 7.6	7.6	7.6	2.0 2.3	2.2		
						Bottom	5	15.5 15.6	15.6	8.2 8.2	8.2	33.1 33.1	33.1	93.0 92.5	92.8	7.6 7.5	7.6	7.6	2.1 2.2	2.2		
4-Feb-18	B35	Mid-Flood	Cloudy	Moderate	10:39	Surface	1	15.5 15.5	15.5	8.2 8.2	8.2	33.1 33.1	33.1	97.1 95.2	96.2	7.9 7.8	7.9	7.9	7.9	1.8 1.8	1.8	1.9
						Middle	4.5	15.5 15.5	15.5	8.2 8.2	8.2	33.1 33.1	33.1	95.3 94.6	95.0	7.8 7.7	7.8	7.8	1.8 1.7	1.8		
						Bottom	8	15.5 15.5	15.5	8.2 8.2	8.2	33.1 33.1	33.1	93.8 93.3	93.6	7.7 7.6	7.7	7.7	2.1 2.0	2.1		
4-Feb-18	B7	Mid-Flood	Cloudy	Moderate	10:16	Surface	-	-	-	-	-	-	-	-	-	-	-	-	7.6	-	-	3.7
						Middle	0.7	15.6 15.6	15.6	8.2 8.2	8.2	33.3 33.3	33.3	93.2 93.0	93.1	7.6 7.6	7.6	7.6	3.7 3.7	3.7		
						Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
4-Feb-18	B8	Mid-Flood	Cloudy	Moderate	10:06	Surface	1	15.6 15.6	15.6	8.2 8.2	8.2	33.3 33.3	33.3	93.3 92.1	92.7	7.6 7.5	7.6	7.6	7.6	3.0 3.5	3.3	3.9
						Middle	4.5	15.6 15.6	15.6	8.2 8.2	8.2	33.3 33.3	33.3	92.1 92.0	92.1	7.5 7.5	7.5	7.5	2.9 3.5	3.2		
						Bottom	8	15.6 15.6	15.6	8.2 8.2	8.2	33.3 33.3	33.3	91.6 91.8	91.7	7.4 7.5	7.5	7.5	5.2 5.3	5.3		
4-Feb-18	B9	Mid-Flood	Cloudy	Moderate	10:01	Surface	1	15.6 15.6	15.6	8.2 8.2	8.2	33.4 33.4	33.4	93.1 92.9	93.0	7.6 7.6	7.6	7.6	7.6	2.8 2.6	2.7	2.7
						Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
						Bottom	2.8	15.6 15.6	15.6	8.2 8.2	8.2	33.4 33.4	33.4	93.0 92.7	92.9	7.6 7.5	7.6	7.6	2.8 2.6	2.7		
4-Feb-18	EM1	Mid-Flood	Cloudy	Moderate	09:49	Surface	1	15.5 15.5	15.5	8.2 8.2	8.2	32.5 32.5	32.5	99.1 97.0	98.1	8.1 7.9	8.0	8.0	8.0	1.7 1.7	1.7	1.8
						Middle	9	15.5 15.5	15.5	8.2 8.2	8.2	32.5 32.6	32.6	98.0 96.9	97.5	8.0 7.9	8.0	8.0	1.8 1.9	1.9		
						Bottom	17	15.5 15.5	15.5	8.2 8.2	8.2	32.6 32.6	32.6	97.4 97.0	97.2	8.0 7.9	8.0	8.0	1.6 1.8	1.7		

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Baseline Water Quality Monitoring Results

Date	Location	Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
4-Feb-18	EM2	Mid-Flood	Cloudy	Moderate	10:09	Surface	1	15.4 15.5	15.5	8.2 8.2	8.2	32.6 32.6	32.6	98.7 97.7	98.2	8.1 8.0	8.1	8.1	2.2 2.0	2.1	2.4
						Middle	10	15.4 15.5	15.5	8.2 8.2	8.2	32.6 32.6	32.6	98.0 97.5	97.8	8.0 8.0	8.0		2.2 2.0	2.1	
						Bottom	19	15.5 15.5	15.5	8.2 8.2	8.2	32.6 32.6	32.6	97.7 97.6	97.7	8.0 8.0	8.0		2.9 3.3	3.1	
4-Feb-18	EM3	Mid-Flood	Cloudy	Moderate	08:33	Surface	1	15.5 15.5	15.5	8.5 8.5	8.5	32.6 32.6	32.6	98.9 96.7	97.8	8.1 7.9	8.0	8.0	2.4 2.1	2.3	2.4
						Middle	12.5	15.5 15.5	15.5	8.5 8.5	8.5	32.6 32.6	32.6	96.5 96.3	96.4	7.9 7.9	7.9		2.3 2.2	2.3	
						Bottom	24	15.5 15.5	15.5	8.5 8.5	8.5	32.6 32.6	32.6	96.3 96.2	96.3	7.9 7.9	7.9		2.7 2.5	2.6	
4-Feb-18	F1	Mid-Flood	Cloudy	Moderate	10:25	Surface	1	15.4 15.4	15.4	8.2 8.2	8.2	32.6 32.6	32.6	100.0 98.0	99.0	8.2 8.0	8.1	8.1	2.0 2.1	2.1	2.1
						Middle	5	15.4 15.4	15.4	8.2 8.2	8.2	32.6 32.6	32.6	99.0 97.9	98.5	8.1 8.0	8.1		2.0 2.0	2.0	
						Bottom	9	15.4 15.4	15.4	8.2 8.2	8.2	32.6 32.6	32.6	98.3 97.7	98.0	8.1 8.0	8.1		2.1 2.1	2.1	
4-Feb-18	F4	Mid-Flood	Cloudy	Moderate	09:25	Surface	1	15.8 15.8	15.8	8.2 8.2	8.2	33.1 33.1	33.1	95.0 92.5	93.8	7.7 7.5	7.6	7.6	3.3 3.0	3.2	3.4
						Middle	5	15.8 15.8	15.8	8.2 8.2	8.2	33.1 33.1	33.1	92.6 92.2	92.4	7.5 7.5	7.5		3.3 3.0	3.2	
						Bottom	9	15.8 15.8	15.8	8.2 8.2	8.2	33.1 33.1	33.1	92.2 91.7	92.0	7.5 7.4	7.5		3.5 4.3	3.9	
4-Feb-18	F5	Mid-Flood	Cloudy	Moderate	10:25	Surface	1	15.5 15.5	15.5	8.2 8.2	8.2	33.2 33.3	33.3	93.3 92.5	92.9	7.6 7.5	7.6	7.6	3.3 3.6	3.5	3.9
						Middle	4	15.5 15.5	15.5	8.2 8.2	8.2	33.3 33.3	33.3	93.0 92.1	92.6	7.6 7.5	7.6		3.7 4.0	3.9	
						Bottom	7	15.5 15.5	15.5	8.2 8.2	8.2	33.3 33.3	33.3	92.2 91.9	92.1	7.5 7.5	7.5		4.3 4.3	4.3	
4-Feb-18	JM3	Mid-Flood	Cloudy	Moderate	10:55	Surface	1	15.5 15.5	15.5	8.2 8.2	8.2	32.5 32.5	32.5	99.4 96.8	98.1	8.1 7.9	8.0	8.0	1.4 1.4	1.4	1.6
						Middle	5.5	15.5 15.5	15.5	8.2 8.2	8.2	32.5 32.5	32.5	97.6 96.3	97.0	8.0 7.9	8.0		1.8 1.5	1.7	
						Bottom	10	15.5 15.5	15.5	8.2 8.2	8.2	32.5 32.5	32.5	97.1 96.2	96.7	7.9 7.9	7.9		1.6 1.5	1.6	
4-Feb-18	MM13	Mid-Flood	Cloudy	Rough	09:41	Surface	1	15.5 15.5	15.5	8.5 8.5	8.5	32.6 32.6	32.6	100.0 96.7	98.4	8.2 7.9	8.1	8.0	2.2 1.8	2.0	2.6
						Middle	14.5	15.5 15.5	15.5	8.5 8.5	8.5	32.6 32.6	32.6	96.9 96.2	96.6	7.9 7.9	7.9		2.1 2.4	2.3	
						Bottom	28	15.5 15.5	15.5	8.5 8.5	8.5	32.6 32.6	32.6	96.2 96.1	96.2	7.9 7.9	7.9		3.6 3.3	3.5	
4-Feb-18	SM12	Mid-Flood	Cloudy	Rough	10:10	Surface	1	14.4 14.4	14.4	8.1 8.1	8.1	34.7 34.8	34.8	96.8 96.7	96.8	8.0 8.0	8.0	8.0	3.7 3.8	3.8	5.3
						Middle	4	14.3 14.3	14.3	8.1 8.1	8.1	34.7 34.8	34.8	95.9 96.0	96.0	7.9 7.9	7.9		3.7 3.9	3.8	
						Bottom	7	14.1 14.2	14.2	8.1 8.1	8.1	34.7 34.7	34.7	96.1 96.0	96.1	8.0 8.0	8.0		8.3 8.0	8.2	
4-Feb-18	SM17	Mid-Flood	Cloudy	Rough	09:45	Surface	1	15.0 15.0	15.0	8.1 8.1	8.1	34.9 34.9	34.9	97.1 96.6	96.9	7.9 7.9	7.9	7.9	3.5 3.5	3.5	5.6
						Middle	8	15.0 15.0	15.0	8.1 8.1	8.1	34.9 34.9	34.9	96.2 96.4	96.3	7.8 7.9	7.9		4.3 4.4	4.4	
						Bottom	15	14.9 14.9	14.9	8.1 8.1	8.1	34.9 34.9	34.9	95.7 95.4	95.6	7.8 7.8	7.8		9.1 8.8	9.0	

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Baseline Water Quality Monitoring Results

Date	Location	Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
4-Feb-18	SM2	Mid-Flood	Cloudy	Moderate	09:54	Surface	1	15.9 16.0	16.0	8.2 8.2	8.2	33.2 33.2	33.2	96.8 94.1	95.5	7.8 7.6	7.7	7.7	3.5 3.1	3.3	3.3
						Middle	7	16.0 16.0	16.0	8.2 8.2	8.2	33.2 33.2	33.2	94.3 93.6	94.0	7.6 7.6	7.6	3.5 3.1	3.3		
						Bottom	13	16.0 15.9	16.0	8.2 8.2	8.2	33.2 33.2	33.2	93.6 92.7	93.2	7.6 7.5	7.6	3.5 2.9	3.2		
4-Feb-18	SM3	Mid-Flood	Cloudy	Moderate	09:35	Surface	1	15.9 15.9	15.9	8.2 8.2	8.2	33.1 33.1	33.1	96.0 93.1	94.6	7.8 7.5	7.7	7.6	3.1 2.7	2.9	3.0
						Middle	16	16.0 16.0	16.0	8.2 8.2	8.2	33.1 33.2	33.2	92.4 92.0	92.2	7.5 7.4	7.5	2.7 3.0	2.9		
						Bottom	31	16.0 16.0	16.0	8.2 8.2	8.2	33.1 33.2	33.2	92.0 91.9	92.0	7.4 7.4	7.4	3.1 3.3	3.2		
4-Feb-18	SM6	Mid-Flood	Cloudy	Rough	09:11	Surface	1	15.8 15.8	15.8	8.2 8.1	8.2	35.2 35.1	35.2	98.1 97.3	97.7	7.9 7.8	7.9	7.9	3.6 3.8	3.7	5.4
						Middle	8	15.8 15.8	15.8	8.1 8.1	8.1	35.2 35.2	35.2	97.0 96.3	96.7	7.8 7.7	7.8	4.9 4.8	4.9		
						Bottom	15	15.7 15.7	15.7	8.1 8.1	8.1	35.2 35.2	35.2	95.9 95.9	95.9	7.7 7.7	7.7	7.4 7.5	7.5		
4-Feb-18	VM1	Mid-Flood	Cloudy	Moderate	09:14	Surface	1	15.5 15.5	15.5	8.2 8.2	8.2	32.5 32.5	32.5	101.2 96.4	98.8	8.3 7.9	8.1	8.0	2.3 2.4	2.4	2.4
						Middle	15.5	15.5 15.5	15.5	8.2 8.2	8.2	32.5 32.5	32.5	96.6 96.2	96.4	7.9 7.9	7.9	2.4 2.5	2.5		
						Bottom	30	15.5 15.5	15.5	8.2 8.2	8.2	32.5 32.5	32.5	95.9 96.1	96.0	7.8 7.9	7.9	2.5 2.3	2.4		
4-Feb-18	VM12	Mid-Flood	Cloudy	Moderate	08:25	Surface	1	15.7 15.7	15.7	8.2 8.2	8.2	34.3 34.3	34.3	97.1 97.6	97.4	7.8 7.9	7.9	7.9	3.4 3.5	3.5	4.2
						Middle	9	15.7 15.7	15.7	8.2 8.1	8.2	34.7 34.7	34.7	96.6 97.2	96.9	7.8 7.8	7.8	3.9 4.1	4.0		
						Bottom	17	15.8 15.8	15.8	8.1 8.1	8.1	35.1 35.1	35.1	96.5 96.4	96.5	7.7 7.7	7.7	5.1 5.3	5.2		
4-Feb-18	VM14	Mid-Flood	Cloudy	Moderate	09:11	Surface	1	15.8 15.8	15.8	8.1 8.2	8.2	33.3 33.3	33.3	90.7 90.6	90.7	7.4 7.3	7.4	7.4	3.7 4.2	4.0	4.9
						Middle	6.5	15.8 15.8	15.8	8.2 8.2	8.2	33.3 33.3	33.3	90.1 90.2	90.2	7.3 7.3	7.3	4.5 4.7	4.6		
						Bottom	12	15.8 15.8	15.8	8.2 8.2	8.2	33.3 33.3	33.3	89.9 89.8	89.9	7.3 7.3	7.3	6.1 6.2	6.2		
4-Feb-18	VM15	Mid-Flood	Cloudy	Moderate	09:56	Surface	1	15.7 15.7	15.7	8.2 8.2	8.2	34.7 34.7	34.7	91.6 91.4	91.5	7.4 7.4	7.4	7.4	3.0 2.9	3.0	3.6
						Middle	5.5	15.7 15.7	15.7	8.2 8.2	8.2	34.7 34.7	34.7	91.2 91.0	91.1	7.3 7.3	7.3	3.2 3.6	3.4		
						Bottom	10	15.7 15.7	15.7	8.2 8.2	8.2	34.7 34.7	34.7	90.7 90.6	90.7	7.3 7.3	7.3	4.4 4.5	4.5		
4-Feb-18	VM2	Mid-Flood	Cloudy	Moderate	08:41	Surface	1	15.6 15.6	15.6	8.1 8.1	8.1	32.4 32.4	32.4	94.3 94.3	94.3	7.7 7.7	7.7	7.8	1.8 1.8	1.8	2.4
						Middle	7	15.6 15.6	15.6	8.2 8.1	8.2	32.4 32.4	32.4	94.9 94.3	94.6	7.8 7.7	7.8	2.5 2.6	2.6		
						Bottom	13	15.6 15.6	15.6	8.2 8.1	8.2	32.4 32.4	32.4	94.4 94.1	94.3	7.7 7.7	7.7	2.8 2.8	2.8		
4-Feb-18	VM4	Mid-Flood	Cloudy	Moderate	08:21	Surface	1	15.7 15.6	15.7	8.2 8.2	8.2	34.5 34.2	34.4	91.7 91.8	91.8	7.4 7.4	7.4	7.4	1.8 1.6	1.7	2.2
						Middle	6.5	15.7 15.7	15.7	8.2 8.2	8.2	34.7 34.7	34.7	91.2 91.4	91.3	7.3 7.4	7.4	2.2 2.3	2.3		
						Bottom	12	15.7 15.7	15.7	8.2 8.2	8.2	34.7 34.7	34.7	90.8 90.8	90.8	7.3 7.3	7.3	2.6 2.3	2.5		

Remarks: *DA: Depth-Averaged

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Baseline Water Quality Monitoring Results

Date	Location	Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	
4-Feb-18	VM5	Mid-Flood	Cloudy	Moderate	08:42	Surface	1	15.7 15.7	15.7	8.2 8.2	8.2	34.7 34.7	34.7	91.9 92.0	92.0	7.4 7.4	7.4	7.4	7.4	2.1 2.2	2.2	2.3
						Middle	6.5	15.7 15.7	15.7	8.2 8.2	8.2	34.7 34.7	34.7	91.5 91.4	91.5	7.4 7.4	7.4	7.4	7.4	2.3 2.2	2.3	
						Bottom	12	15.7 15.7	15.7	8.2 8.2	8.2	34.7 34.7	34.7	91.0 91.0	91.0	7.3 7.3	7.3	7.3	7.3	2.5 2.4	2.5	
4-Feb-18	VM7	Mid-Flood	Cloudy	Moderate	09:17	Surface	1	15.7 15.7	15.7	8.2 8.2	8.2	34.7 34.7	34.7	91.3 91.4	91.4	7.3 7.4	7.4	7.4	7.4	2.2 2.2	2.2	2.6
						Middle	6	15.7 15.7	15.7	8.2 8.2	8.2	34.7 34.7	34.7	91.1 91.0	91.1	7.3 7.3	7.3	7.3	7.3	2.5 2.5	2.5	
						Bottom	11	15.7 15.7	15.7	8.2 8.2	8.2	34.7 34.7	34.7	90.6 90.7	90.7	7.3 7.3	7.3	7.3	7.3	3.0 3.1	3.1	
4-Feb-18	VM8	Mid-Flood	Cloudy	Moderate	09:42	Surface	1	15.8 15.8	15.8	8.2 8.2	8.2	34.7 34.7	34.7	90.2 90.4	90.3	7.2 7.3	7.3	7.3	7.4	2.2 2.1	2.2	3.1
						Middle	6	15.9 15.8	15.9	8.2 8.2	8.2	34.9 34.8	34.9	92.1 90.7	91.4	7.4 7.3	7.4	7.4	7.4	2.7 2.4	2.6	
						Bottom	11	15.9 15.9	15.9	8.2 8.2	8.2	34.9 34.9	34.9	92.6 92.5	92.6	7.4 7.4	7.4	7.4	7.4	4.6 4.4	4.5	
4-Feb-18	WM1	Mid-Flood	Cloudy	Moderate	09:11	Surface	1	15.9 16.0	16.0	8.1 8.2	8.2	33.0 33.1	33.1	95.7 93.4	94.6	7.7 7.6	7.7	7.7	7.6	3.4 3.2	3.3	4.6
						Middle	15.5	16.0 16.0	16.0	8.2 8.2	8.2	33.1 33.1	33.1	92.5 92.4	92.5	7.5 7.5	7.5	7.5	7.5	4.2 4.1	4.2	
						Bottom	30	15.9 15.9	15.9	8.2 8.2	8.2	33.1 33.1	33.1	91.5 91.4	91.5	7.4 7.4	7.4	7.4	7.4	6.4 6.2	6.3	
4-Feb-18	WM2	Mid-Flood	Cloudy	Moderate	08:40	Surface	1	15.8 15.8	15.8	8.2 8.1	8.2	34.5 34.4	34.5	96.5 95.8	96.2	7.8 7.7	7.8	7.8	7.8	3.6 3.7	3.7	5.1
						Middle	7	15.8 15.8	15.8	8.2 8.1	8.2	35.0 35.1	35.1	96.3 95.9	96.1	7.7 7.7	7.7	7.7	7.7	5.1 5.2	5.2	
						Bottom	13	15.8 15.8	15.8	8.1 8.1	8.1	35.1 35.2	35.2	95.7 95.2	95.5	7.7 7.6	7.7	7.7	7.7	6.4 6.6	6.5	
4-Feb-18	WM4	Mid-Flood	Cloudy	Moderate	10:52	Surface	1	15.8 15.8	15.8	8.2 8.2	8.2	33.4 33.4	33.4	93.3 93.3	93.3	7.5 7.5	7.5	7.5	7.6	7.4 7.4	7.4	8.5
						Middle	15	15.8 15.8	15.8	8.2 8.2	8.2	33.4 33.4	33.4	93.5 92.8	93.2	7.6 7.5	7.6	7.6	7.6	8.5 7.9	8.2	
						Bottom	29	15.8 15.8	15.8	8.2 8.2	8.2	33.4 33.4	33.4	92.4 92.1	92.3	7.5 7.4	7.5	7.5	7.5	10.4 9.1	9.8	
4-Feb-18	WSD10	Mid-Flood	Cloudy	Moderate	08:27	Surface	1	15.6 15.6	15.6	8.2 8.1	8.2	32.4 32.4	32.4	96.6 93.6	95.1	7.9 7.6	7.8	7.8	7.8	2.3 2.1	2.2	2.4
						Middle	6.5	15.7 15.7	15.7	8.2 8.1	8.2	32.4 32.4	32.4	94.2 93.6	93.9	7.7 7.6	7.7	7.7	7.7	2.5 2.4	2.5	
						Bottom	12	15.6 15.6	15.6	8.2 8.1	8.2	32.4 32.4	32.4	94.0 93.7	93.9	7.7 7.7	7.7	7.7	7.7	2.5 2.4	2.5	
4-Feb-18	WSD11	Mid-Flood	Cloudy	Moderate	08:13	Surface	1	15.6 15.6	15.6	8.1 8.1	8.1	32.4 32.5	32.5	95.3 95.7	95.5	7.8 7.8	7.8	7.8	7.8	1.9 2.0	2.0	2.1
						Middle	8	15.6 15.6	15.6	8.1 8.1	8.1	32.5 32.5	32.5	95.5 95.4	95.5	7.8 7.8	7.8	7.8	7.8	2.1 2.0	2.1	
						Bottom	15	15.6 15.5	15.6	8.1 8.1	8.1	32.5 32.5	32.5	95.4 95.5	95.5	7.8 7.8	7.8	7.8	7.8	2.0 2.1	2.1	
4-Feb-18	WSD12	Mid-Flood	Cloudy	Moderate	11:03	Surface	1	15.4 15.4	15.4	8.2 8.2	8.2	32.5 32.5	32.5	98.4 96.4	97.4	8.1 7.9	8.0	8.0	8.0	1.7 1.7	1.7	1.5
						Middle	3.5	15.4 15.4	15.4	8.2 8.2	8.2	32.5 32.5	32.5	97.4 96.2	96.8	8.0 7.9	8.0	8.0	8.0	1.2 1.3	1.3	
						Bottom	6	15.4 15.4	15.4	8.2 8.2	8.2	32.5 32.5	32.5	96.6 96.0	96.3	7.9 7.9	7.9	7.9	7.9	1.5 1.5	1.5	

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Baseline Water Quality Monitoring Results

Date	Location	Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
4-Feb-18	WSD13	Mid-Flood	Cloudy	Moderate	09:39	Surface	1	15.4 15.4	15.4	8.2 8.2	8.2	32.6 32.6	32.6	99.2 97.9	98.6	8.1 8.0	8.1	8.1	2.1 2.2	2.2	2.2
						Middle	4.5	15.4 15.4	15.4	8.2 8.2	8.2	32.6 32.6	32.6	98.3 97.8	98.1	8.1 8.0	8.1	8.1	2.3 2.1	2.2	
						Bottom	8	15.4 15.4	15.4	8.2 8.2	8.2	32.6 32.6	32.6	97.9 97.7	97.8	8.0 8.0	8.0	8.0	2.3 2.2	2.3	
4-Feb-18	WSD15	Mid-Flood	Cloudy	Moderate	09:04	Surface	1	15.5 15.5	15.5	8.2 8.2	8.2	32.4 32.5	32.5	99.2 95.7	97.5	8.1 7.8	8.0	8.0	1.3 1.3	1.3	1.4
						Middle	7	15.5 15.5	15.5	8.2 8.2	8.2	32.5 32.5	32.5	96.7 95.4	96.1	7.9 7.8	7.9	7.9	1.4 1.3	1.4	
						Bottom	13	15.5 15.5	15.5	8.2 8.2	8.2	32.5 32.5	32.5	95.4 95.4	95.4	7.8 7.8	7.8	7.8	1.6 1.6	1.6	
4-Feb-18	WSD17	Mid-Flood	Cloudy	Moderate	08:48	Surface	1	15.6 15.6	15.6	8.2 8.1	8.2	32.4 32.4	32.4	96.3 94.3	95.3	7.9 7.7	7.8	7.8	2.0 2.2	2.1	2.4
						Middle	5	15.6 15.6	15.6	8.2 8.1	8.2	32.4 32.4	32.4	95.1 94.1	94.6	7.8 7.7	7.8	7.8	2.6 2.4	2.5	
						Bottom	9	15.6 15.6	15.6	8.2 8.1	8.2	32.4 32.4	32.4	94.4 94.0	94.2	7.7 7.7	7.7	7.7	2.7 2.5	2.6	
4-Feb-18	WSD18	Mid-Flood	Cloudy	Moderate	08:52	Surface	1	15.7 15.7	15.7	8.2 8.2	8.2	34.6 34.6	34.6	89.5 89.3	89.4	7.2 7.2	7.2	7.2	2.1 2.2	2.2	2.3
						Middle	5.5	15.7 15.7	15.7	8.2 8.2	8.2	34.6 34.6	34.6	89.0 89.0	89.0	7.2 7.2	7.2	7.2	2.3 2.2	2.3	
						Bottom	10	15.7 15.7	15.7	8.2 8.2	8.2	34.6 34.6	34.6	88.7 88.6	88.7	7.1 7.1	7.1	7.1	2.4 2.3	2.4	
4-Feb-18	WSD19	Mid-Flood	Cloudy	Moderate	09:03	Surface	1	15.7 15.7	15.7	8.2 8.2	8.2	34.6 34.6	34.6	90.0 89.9	90.0	7.2 7.2	7.2	7.2	2.0 1.8	1.9	2.0
						Middle	6.5	15.7 15.7	15.7	8.2 8.2	8.2	34.7 34.6	34.7	89.4 89.5	89.5	7.2 7.2	7.2	7.2	1.9 2.1	2.0	
						Bottom	12	15.7 15.7	15.7	8.2 8.2	8.2	34.6 34.6	34.6	89.2 89.2	89.2	7.2 7.2	7.2	7.2	1.9 2.2	2.1	
4-Feb-18	WSD20	Mid-Flood	Cloudy	Moderate	09:31	Surface	1	15.7 15.8	15.8	8.2 8.2	8.2	34.6 34.6	34.6	88.3 88.3	88.3	7.1 7.1	7.1	7.1	2.3 2.3	2.3	3.3
						Middle	5	15.9 15.9	15.9	8.2 8.2	8.2	34.9 34.9	34.9	92.3 91.8	92.1	7.4 7.4	7.4	7.4	2.4 2.5	2.5	
						Bottom	9	15.9 15.9	15.9	8.2 8.2	8.2	34.9 34.9	34.9	92.4 92.3	92.4	7.4 7.4	7.4	7.4	5.1 5.0	5.1	
4-Feb-18	WSD21	Mid-Flood	Cloudy	Moderate	09:45	Surface	1	15.9 15.9	15.9	8.2 8.2	8.2	33.1 33.2	33.2	95.1 93.6	94.4	7.7 7.6	7.7	7.7	3.2 3.2	3.2	3.3
						Middle	3.5	15.9 15.9	15.9	8.2 8.2	8.2	33.2 33.2	33.2	94.3 93.5	93.9	7.6 7.6	7.6	7.6	3.4 3.4	3.4	
						Bottom	6	15.9 15.9	15.9	8.2 8.2	8.2	33.2 33.2	33.2	93.6 93.1	93.4	7.6 7.5	7.6	7.6	3.4 3.2	3.3	
4-Feb-18	WSD22	Mid-Flood	Cloudy	Moderate	08:33	Surface	1	15.6 15.6	15.6	8.2 8.2	8.2	34.6 34.6	34.6	90.3 89.5	89.9	7.3 7.2	7.3	7.3	2.0 1.8	1.9	2.2
						Middle	4.5	15.6 15.6	15.6	8.2 8.2	8.2	34.6 34.7	34.7	89.7 90.2	90.0	7.2 7.3	7.3	7.3	2.1 2.2	2.2	
						Bottom	8	15.6 15.6	15.6	8.2 8.2	8.2	34.7 34.7	34.7	90.6 90.6	90.6	7.3 7.3	7.3	7.3	2.6 2.6	2.6	
4-Feb-18	WSD4	Mid-Flood	Cloudy	Moderate	09:25	Surface	1	15.8 15.8	15.8	8.2 8.3	8.3	33.3 33.3	33.3	91.1 90.9	91.0	7.4 7.4	7.4	7.4	6.6 7.0	6.8	7.6
						Middle	4	15.8 15.8	15.8	8.3 8.3	8.3	33.3 33.3	33.3	90.9 90.7	90.8	7.4 7.3	7.4	7.4	6.7 6.7	6.7	
						Bottom	7	15.8 15.8	15.8	8.3 8.3	8.3	33.3 33.3	33.3	90.5 90.4	90.5	7.3 7.3	7.3	7.3	9.5 9.0	9.3	

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

DC/2009/10 HATS 2A, Upgrading Main Pumping Station, Sedimentation Tanks and Ancillary Facilities at SCISTW

Baseline Water Quality Monitoring Results

Date	Location	Location	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*
4-Feb-18	WSD5	Mid-Flood	Cloudy	Moderate	08:51	Surface	1	15.8 15.8	15.8	8.2 8.1	8.2	33.2 33.2	33.2	88.5 87.6	88.1	7.2 7.1	7.2	7.2	4.2 4.1	4.2	6.1
						Middle	9.5	15.9 15.9	15.9	8.2 8.2	8.2	33.2 33.2	33.2	87.4 87.4	87.4	7.1 7.1	7.1		6.2 6.2	6.2	
						Bottom	18	15.8 15.8	15.8	8.2 8.2	8.2	33.2 33.3	33.3	87.7 87.4	87.6	7.1 7.1	7.1		7.8 7.8	7.8	
4-Feb-18	WSD6	Mid-Flood	Cloudy	Moderate	10:06	Surface	1	15.6 15.6	15.6	8.1 8.1	8.1	34.5 34.5	34.5	83.5 83.0	83.3	6.7 6.7	6.7	6.7	2.7 2.7	2.7	4.8
						Middle	-	- -	-	- -	-	- -	-	- -	-	- -	-		- -	-	
						Bottom	4.5	15.7 15.7	15.7	8.1 8.1	8.1	34.6 34.6	34.6	84.0 84.0	84.0	6.8 6.8	6.8		6.8 6.7	6.8	
4-Feb-18	WSD7	Mid-Flood	Cloudy	Moderate	10:19	Surface	1	15.7 15.7	15.7	8.2 8.2	8.2	34.7 34.7	34.7	90.4 90.8	90.6	7.3 7.3	7.3	7.3	2.7 2.4	2.6	2.7
						Middle	5	15.7 15.7	15.7	8.2 8.2	8.2	34.7 34.7	34.7	90.2 90.6	90.4	7.3 7.3	7.3		2.5 2.4	2.5	
						Bottom	9	15.7 15.7	15.7	8.2 8.2	8.2	34.7 34.7	34.7	89.9 90.0	90.0	7.2 7.2	7.2		2.9 3.0	3.0	
4-Feb-18	WSD9	Mid-Flood	Cloudy	Moderate	08:09	Surface	1	15.6 15.6	15.6	8.2 8.2	8.2	34.7 34.7	34.7	90.4 89.8	90.1	7.3 7.2	7.3	7.3	2.2 2.1	2.2	2.0
						Middle	5	15.6 15.6	15.6	8.2 8.2	8.2	34.7 34.7	34.7	90.0 90.3	90.2	7.3 7.3	7.3		1.9 1.8	1.9	
						Bottom	9	15.6 15.6	15.6	8.2 8.2	8.2	34.7 34.7	34.7	90.9 90.8	90.9	7.3 7.3	7.3		1.8 1.9	1.9	

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Case 1 and 3 Outliers (DO)

DO s&m Depth ave	Sep-17	Sep-17	Oct-17	Oct-17	Nov-17	Nov-17	Dec-17	Dec-17	Jan-18	Jan-18	Feb-18	Feb-18
	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood
B25	5.3	4.0	6.4	5.7	6.9	7.0	7.4	7.0	8.4	8.0	8.2	8.1
B26	5.4	4.4	6.4	6.1	7.0	6.8	7.4	7.1	8.7	8.4	8.3	8.2
B30	6.2	6.3	5.8	5.6	6.7	6.7	7.5	7.3	9.5	8.4	7.7	7.5
DO bottom Depth ave	Sep-17	Sep-17	Oct-17	Oct-17	Nov-17	Nov-17	Dec-17	Dec-17	Jan-18	Jan-18	Feb-18	Feb-18
	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood
B25	4.9	4.1	6.4	5.7	6.9	7.0	7.1	7.0	8.5	7.9	8.2	8.0

Case 1 Outliers (Turbidity)

Turbidity Depth ave	Sep-17	Sep-17	Oct-17	Oct-17	Nov-17	Nov-17	Dec-17	Dec-17	Jan-18	Jan-18	Feb-18	Feb-18
	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood
B14	3.7	3.4	5.0	5.1	5.9	7.9	4.5	5.8	1.8	3.3	4.3	4.2
B24	1.5	1.8	0.9	1.1	7.7	5.4	1.7	2.1	1.6	1.7	1.2	1.4
B25	1.1	1.7	0.3	1.1	12.0	7.3	1.7	1.8	0.7	1.1	1.6	1.4
B26	1.5	2.0	0.9	2.0	10.4	6.3	2.0	2.5	1.2	1.6	1.9	2.0
B33	1.3	2.7	3.4	3.3	4.9	3.2	2.0	2.1	1.0	1.1	1.9	2.1
B34	0.8	0.6	4.8	6.2	3.3	3.6	1.9	2.0	0.9	0.9	2.6	2.2
B7	3.6	9.5	6.7	7.9	5.7	4.0	3.2	4.6	2.0	5.0	2.8	3.7
B8	4.5	6.0	9.4	10.8	4.8	6.3	4.0	3.9	1.7	3.3	3.5	3.9
EM1	3.2	4.7	2.6	2.5	2.3	2.6	3.0	2.9	0.6	0.9	1.7	1.8
EM3	3.3	3.6	3.0	0.9	9.1	11.9	2.5	2.6	0.9	1.2	3.4	2.4
F4	1.7	6.2	8.2	6.2	3.5	3.9	3.3	3.7	1.3	2.2	3.1	3.4
F5	3.9	6.6	7.6	9.3	6.7	5.5	4.2	4.2	2.7	4.4	3.8	3.9
MM13	1.8	1.5	1.0	2.0	5.9	7.4	4.0	3.5	1.0	0.7	3.2	2.6
SM17	6.7	6.0	3.3	7.2	12.6	10.5	4.1	6.6	1.9	2.8	3.6	5.6
SM3	4.4	3.1	3.6	3.9	6.6	2.8	2.9	3.3	0.9	1.8	4.1	3.0
VM1	2.0	5.9	4.4	4.6	2.5	4.2	2.8	2.0	1.2	2.1	1.8	2.4
VM14	7.2	5.0	7.5	8.0	6.3	7.9	4.3	13.1	2.4	3.2	4.8	4.9
VM7	5.0	5.1	3.5	5.2	8.2	5.1	2.4	3.8	1.3	2.7	2.0	2.6
VM8	4.0	12.8	7.1	9.0	6.5	5.7	4.7	6.9	2.0	2.9	3.4	3.1
WM1	3.3	5.5	4.3	6.3	3.0	4.3	2.8	4.1	1.0	2.4	3.9	4.6
WSD10	3.8	4.8	6.1	3.6	3.2	2.7	2.7	4.2	1.0	1.9	2.3	2.4
WSD11	3.6	3.3	4.1	3.2	2.9	2.8	3.2	3.0	0.8	2.0	1.9	2.1
WSD12	1.5	3.8	1.4	1.9	4.9	6.0	1.8	2.9	1.7	1.4	2.3	1.5
WSD13	3.8	2.5	2.7	3.9	5.1	2.1	2.7	1.9	0.7	1.7	1.3	2.2
WSD21	2.2	2.9	4.9	3.7	3.6	3.2	2.6	2.5	1.3	1.4	3.3	3.3

Case 2 Outliers (Turbidity)

Turbidity Depth ave	Dec-17	Dec-17	Jan-18	Jan-18	Feb-18	Feb-18
	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood
VM14	4.3	13.1	2.4	3.2	4.8	4.9

Case 3 Outliers (Turbidity)

Turbidity Depth ave	Sep-17	Sep-17	Oct-17	Oct-17	Nov-17	Nov-17	Dec-17	Dec-17	Jan-18	Jan-18	Feb-18	Feb-18
	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood
B14	3.7	3.4	5.0	5.1	5.9	7.9	4.5	5.8	1.8	3.3	4.3	4.2
B7	3.6	9.5	6.7	7.9	5.7	4.0	3.2	4.6	2.0	5.0	2.8	3.7
B8	4.5	6.0	9.4	10.8	4.8	6.3	4.0	3.9	1.7	3.3	3.5	3.9
F5	3.9	6.6	7.6	9.3	6.7	5.5	4.2	4.2	2.7	4.4	3.8	3.9
SM12	4.8	2.7	8.3	10.7	18.2	14.6	8.7	6.4	2.9	2.1	8.9	5.3
SM6	3.3	6.2	8.5	9.8	7.7	12.8	4.4	4.9	1.6	1.6	3.3	5.4
VM7	5.0	5.1	3.5	5.2	8.2	5.1	2.4	3.8	1.3	2.7	2.0	2.6
VM8	4.0	12.8	7.1	9.0	6.5	5.7	4.7	6.9	2.0	2.9	3.4	3.1

Case 4 Outliers (Turbidity)

Turbidity Depth ave	Dec-17	Dec-17	Jan-18	Jan-18	Feb-18	Feb-18
	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood
VM14	4.3	13.1	2.4	3.2	4.8	4.9

Remark:

Highlighted in yellow: Outliers determined by 95% confidence interval

**APPENDIX D
BASELINE WATER QUALITY
MONITORING RESULTS (*E. COLI*)**

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (10/9/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> , cfu/100mL
B10	27402-10	S	Mid-Ebb	45
B10	27402-11	M	Mid-Ebb	--
B10	27402-12	B	Mid-Ebb	64
B10	27402-52	S	Mid-Flood	56
B10	27402-53	M	Mid-Flood	--
B10	27402-54	B	Mid-Flood	170
B11	27402-13	S	Mid-Ebb	--
B11	27402-14	M	Mid-Ebb	55
B11	27402-15	B	Mid-Ebb	--
B11	27402-55	S	Mid-Flood	--
B11	27402-56	M	Mid-Flood	23
B11	27402-57	B	Mid-Flood	--
B12	27402-16	S	Mid-Ebb	76
B12	27402-17	M	Mid-Ebb	--
B12	27402-18	B	Mid-Ebb	81
B12	27402-58	S	Mid-Flood	14
B12	27402-59	M	Mid-Flood	--
B12	27402-60	B	Mid-Flood	35
B13	27402-19	S	Mid-Ebb	180
B13	27402-20	M	Mid-Ebb	180
B13	27402-21	B	Mid-Ebb	130
B13	27402-61	S	Mid-Flood	43
B13	27402-62	M	Mid-Flood	86
B13	27402-63	B	Mid-Flood	240
B13	27402-1	S	Mid-Flood	55
B14	27402-37	S	Mid-Ebb	--
B14	27402-38	M	Mid-Ebb	66
B14	27402-39	B	Mid-Ebb	--
B14	27402-79	S	Mid-Flood	--
B14	27402-80	M	Mid-Flood	170
B14	27402-81	B	Mid-Flood	--
B24	27402-1	S	Mid-Ebb	<1
B24	27402-2	M	Mid-Ebb	47
B24	27402-3	B	Mid-Ebb	38
B24	27402-16	S	Mid-Flood	35
B24	27402-17	M	Mid-Flood	26
B24	27402-18	B	Mid-Flood	28
B25	27402-4	S	Mid-Ebb	<1
B25	27402-5	M	Mid-Ebb	--
B25	27402-6	B	Mid-Ebb	<1
B25	27402-19	S	Mid-Flood	12
B25	27402-20	M	Mid-Flood	--
B25	27402-21	B	Mid-Flood	26
B26	27402-7	S	Mid-Ebb	<1
B26	27402-8	M	Mid-Ebb	20
B26	27402-9	B	Mid-Ebb	140
B26	27402-22	S	Mid-Flood	64
B26	27402-23	M	Mid-Flood	40
B26	27402-24	B	Mid-Flood	31
B26	27402-1	M	Mid-Flood	37

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (10/9/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> , cfu/100mL
B30	27402-16	S	Mid-Ebb	--
B30	27402-17	M	Mid-Ebb	1
B30	27402-18	B	Mid-Ebb	--
B30	27402-49	S	Mid-Flood	--
B30	27402-50	M	Mid-Flood	4
B30	27402-51	B	Mid-Flood	--
B30	27402-3	M	Mid-Ebb	4
B31	27402-13	S	Mid-Ebb	--
B31	27402-14	M	Mid-Ebb	<1
B31	27402-15	B	Mid-Ebb	--
B31	27402-46	S	Mid-Flood	--
B31	27402-47	M	Mid-Flood	<1
B31	27402-48	B	Mid-Flood	--
B32	27402-10	S	Mid-Ebb	--
B32	27402-11	M	Mid-Ebb	<1
B32	27402-12	B	Mid-Ebb	--
B32	27402-43	S	Mid-Flood	--
B32	27402-44	M	Mid-Flood	2
B32	27402-45	B	Mid-Flood	--
B33	27402-7	S	Mid-Ebb	<1
B33	27402-8	M	Mid-Ebb	3
B33	27402-9	B	Mid-Ebb	1
B33	27402-40	S	Mid-Flood	<1
B33	27402-41	M	Mid-Flood	<1
B33	27402-42	B	Mid-Flood	<1
B34	27402-4	S	Mid-Ebb	<1
B34	27402-5	M	Mid-Ebb	<1
B34	27402-6	B	Mid-Ebb	<1
B34	27402-37	S	Mid-Flood	<1
B34	27402-38	M	Mid-Flood	3
B34	27402-39	B	Mid-Flood	2
B35	27402-1	S	Mid-Ebb	8
B35	27402-2	M	Mid-Ebb	20
B35	27402-3	B	Mid-Ebb	7
B35	27402-34	S	Mid-Flood	62
B35	27402-35	M	Mid-Flood	18
B35	27402-36	B	Mid-Flood	4
B35	27402-1	S	Mid-Flood	53
B7	27402-1	S	Mid-Ebb	--
B7	27402-2	M	Mid-Ebb	18
B7	27402-3	B	Mid-Ebb	--
B7	27402-43	S	Mid-Flood	--
B7	27402-44	M	Mid-Flood	12
B7	27402-45	B	Mid-Flood	--
B8	27402-4	S	Mid-Ebb	41
B8	27402-5	M	Mid-Ebb	78
B8	27402-6	B	Mid-Ebb	82
B8	27402-46	S	Mid-Flood	150
B8	27402-47	M	Mid-Flood	90
B8	27402-48	B	Mid-Flood	250

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (10/9/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> , cfu/100mL
B9	27402-7	S	Mid-Ebb	63
B9	27402-8	M	Mid-Ebb	--
B9	27402-9	B	Mid-Ebb	45
B9	27402-49	S	Mid-Flood	49
B9	27402-50	M	Mid-Flood	--
B9	27402-51	B	Mid-Flood	74
EM1	27402-19	S	Mid-Ebb	43
EM1	27402-20	M	Mid-Ebb	28
EM1	27402-21	B	Mid-Ebb	140
EM1	27402-55	S	Mid-Flood	54
EM1	27402-56	M	Mid-Flood	74
EM1	27402-57	B	Mid-Flood	4600
EM2	27402-22	S	Mid-Ebb	4
EM2	27402-23	M	Mid-Ebb	150
EM2	27402-24	B	Mid-Ebb	3700
EM2	27402-58	S	Mid-Flood	36
EM2	27402-59	M	Mid-Flood	1100
EM2	27402-60	B	Mid-Flood	1300
EM3	27402-10	S	Mid-Ebb	<1
EM3	27402-11	M	Mid-Ebb	13
EM3	27402-12	B	Mid-Ebb	7
EM3	27402-25	S	Mid-Flood	84
EM3	27402-26	M	Mid-Flood	2
EM3	27402-27	B	Mid-Flood	5
F1	27402-25	S	Mid-Ebb	10
F1	27402-26	M	Mid-Ebb	73
F1	27402-27	B	Mid-Ebb	5
F1	27402-61	S	Mid-Flood	360
F1	27402-62	M	Mid-Flood	240
F1	27402-63	B	Mid-Flood	28
F1	27402-3	B	Mid-Ebb	6
F4	27402-25	S	Mid-Ebb	11
F4	27402-26	M	Mid-Ebb	2
F4	27402-27	B	Mid-Ebb	4
F4	27402-58	S	Mid-Flood	23
F4	27402-59	M	Mid-Flood	16
F4	27402-60	B	Mid-Flood	10
F4	27402-2	S	Mid-Ebb	18
F5	27402-40	S	Mid-Ebb	19
F5	27402-41	M	Mid-Ebb	9
F5	27402-42	B	Mid-Ebb	25
F5	27402-82	S	Mid-Flood	6
F5	27402-83	M	Mid-Flood	20
F5	27402-84	B	Mid-Flood	150
F5	27402-2	S	Mid-Ebb	26
JM3	27402-16	S	Mid-Ebb	69
JM3	27402-17	M	Mid-Ebb	20
JM3	27402-18	B	Mid-Ebb	51
JM3	27402-52	S	Mid-Flood	3300
JM3	27402-53	M	Mid-Flood	190

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (10/9/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> , cfu/100mL
JM3	27402-54	B	Mid-Flood	45
JM3	27402-1	B	Mid-Flood	53
MM13	27402-13	S	Mid-Ebb	<1
MM13	27402-14	M	Mid-Ebb	<1
MM13	27402-15	B	Mid-Ebb	<1
MM13	27402-28	S	Mid-Flood	<1
MM13	27402-29	M	Mid-Flood	<1
MM13	27402-30	B	Mid-Flood	<1
SM12	27402-1	S	Mid-Ebb	<1
SM12	27402-2	M	Mid-Ebb	<1
SM12	27402-3	B	Mid-Ebb	16
SM12	27402-10	S	Mid-Flood	15
SM12	27402-11	M	Mid-Flood	280
SM12	27402-12	B	Mid-Flood	110
SM12	27402-1	B	Mid-Flood	100
SM17	27402-4	S	Mid-Ebb	<1
SM17	27402-5	M	Mid-Ebb	2
SM17	27402-6	B	Mid-Ebb	<1
SM17	27402-13	S	Mid-Flood	120
SM17	27402-14	M	Mid-Flood	<1
SM17	27402-15	B	Mid-Flood	<1
SM2	27402-19	S	Mid-Ebb	<1
SM2	27402-20	M	Mid-Ebb	<1
SM2	27402-21	B	Mid-Ebb	2
SM2	27402-52	S	Mid-Flood	<1
SM2	27402-53	M	Mid-Flood	<1
SM2	27402-54	B	Mid-Flood	1
SM3	27402-22	S	Mid-Ebb	<1
SM3	27402-23	M	Mid-Ebb	<1
SM3	27402-24	B	Mid-Ebb	<1
SM3	27402-55	S	Mid-Flood	17
SM3	27402-56	M	Mid-Flood	1
SM3	27402-57	B	Mid-Flood	<1
SM6	27402-7	S	Mid-Ebb	<1
SM6	27402-8	M	Mid-Ebb	<1
SM6	27402-9	B	Mid-Ebb	4
SM6	27402-16	S	Mid-Flood	6
SM6	27402-17	M	Mid-Flood	10
SM6	27402-18	B	Mid-Flood	2
VM1	27402-10	S	Mid-Ebb	150
VM1	27402-11	M	Mid-Ebb	150
VM1	27402-12	B	Mid-Ebb	120
VM1	27402-46	S	Mid-Flood	350
VM1	27402-47	M	Mid-Flood	200
VM1	27402-48	B	Mid-Flood	120
VM12	27402-31	S	Mid-Ebb	240
VM12	27402-32	M	Mid-Ebb	370
VM12	27402-33	B	Mid-Ebb	680
VM12	27402-73	S	Mid-Flood	64
VM12	27402-74	M	Mid-Flood	78

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (10/9/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> , cfu/100mL
VM12	27402-75	B	Mid-Flood	180
VM12	27402-3	M	Mid-Ebb	330
VM14	27402-25	S	Mid-Ebb	120
VM14	27402-26	M	Mid-Ebb	230
VM14	27402-27	B	Mid-Ebb	180
VM14	27402-67	S	Mid-Flood	82
VM14	27402-68	M	Mid-Flood	92
VM14	27402-69	B	Mid-Flood	130
VM15	27402-37	S	Mid-Flood	860
VM15	27402-38	M	Mid-Flood	460
VM15	27402-39	B	Mid-Flood	1500
VM15	27402-76	S	Mid-Ebb	58
VM15	27402-77	M	Mid-Ebb	24
VM15	27402-78	B	Mid-Ebb	190
VM2	27402-1	S	Mid-Ebb	100
VM2	27402-2	M	Mid-Ebb	220
VM2	27402-3	B	Mid-Ebb	52
VM2	27402-37	S	Mid-Flood	720
VM2	27402-38	M	Mid-Flood	200
VM2	27402-39	B	Mid-Flood	880
VM4	27402-7	S	Mid-Flood	1500
VM4	27402-8	M	Mid-Flood	1400
VM4	27402-9	B	Mid-Flood	1100
VM4	27402-46	S	Mid-Ebb	310
VM4	27402-47	M	Mid-Ebb	420
VM4	27402-48	B	Mid-Ebb	380
VM5	27402-13	S	Mid-Flood	3000
VM5	27402-14	M	Mid-Flood	2800
VM5	27402-15	B	Mid-Flood	2700
VM5	27402-52	S	Mid-Ebb	15
VM5	27402-53	M	Mid-Ebb	24
VM5	27402-54	B	Mid-Ebb	26
VM7	27402-25	S	Mid-Flood	1300
VM7	27402-26	M	Mid-Flood	160
VM7	27402-27	B	Mid-Flood	980
VM7	27402-64	S	Mid-Ebb	1
VM7	27402-65	M	Mid-Ebb	2
VM7	27402-66	B	Mid-Ebb	83
VM8	27402-34	S	Mid-Flood	370
VM8	27402-35	M	Mid-Flood	320
VM8	27402-36	B	Mid-Flood	250
VM8	27402-73	S	Mid-Ebb	180
VM8	27402-74	M	Mid-Ebb	75
VM8	27402-75	B	Mid-Ebb	6
WM1	27402-28	S	Mid-Ebb	1
WM1	27402-29	M	Mid-Ebb	31
WM1	27402-30	B	Mid-Ebb	6
WM1	27402-61	S	Mid-Flood	23
WM1	27402-62	M	Mid-Flood	17
WM1	27402-63	B	Mid-Flood	22

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (10/9/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> , cfu/100mL
WM2	27402-31	S	Mid-Flood	480
WM2	27402-32	M	Mid-Flood	110
WM2	27402-33	B	Mid-Flood	380
WM2	27402-70	S	Mid-Ebb	38
WM2	27402-71	M	Mid-Ebb	20
WM2	27402-72	B	Mid-Ebb	15
WM4	27402-34	S	Mid-Ebb	120
WM4	27402-35	M	Mid-Ebb	210
WM4	27402-36	B	Mid-Ebb	200
WM4	27402-76	S	Mid-Flood	220
WM4	27402-77	M	Mid-Flood	75
WM4	27402-78	B	Mid-Flood	73
WSD10	27402-4	S	Mid-Ebb	130
WSD10	27402-5	M	Mid-Ebb	64
WSD10	27402-6	B	Mid-Ebb	100
WSD10	27402-40	S	Mid-Flood	200
WSD10	27402-41	M	Mid-Flood	480
WSD10	27402-42	B	Mid-Flood	270
WSD11	27402-7	S	Mid-Ebb	500
WSD11	27402-8	M	Mid-Ebb	42
WSD11	27402-9	B	Mid-Ebb	65
WSD11	27402-43	S	Mid-Flood	940
WSD11	27402-44	M	Mid-Flood	150
WSD11	27402-45	B	Mid-Flood	700
WSD12	27402-13	S	Mid-Ebb	11
WSD12	27402-14	M	Mid-Ebb	21
WSD12	27402-15	B	Mid-Ebb	24
WSD12	27402-49	S	Mid-Flood	260
WSD12	27402-50	M	Mid-Flood	76
WSD12	27402-51	B	Mid-Flood	500
WSD13	27402-28	S	Mid-Ebb	260
WSD13	27402-29	M	Mid-Ebb	270
WSD13	27402-30	B	Mid-Ebb	200
WSD13	27402-64	S	Mid-Flood	130
WSD13	27402-65	M	Mid-Flood	900
WSD13	27402-66	B	Mid-Flood	320
WSD15	27402-31	S	Mid-Ebb	230
WSD15	27402-32	M	Mid-Ebb	520
WSD15	27402-33	B	Mid-Ebb	240
WSD15	27402-67	S	Mid-Flood	270
WSD15	27402-68	M	Mid-Flood	120
WSD15	27402-69	B	Mid-Flood	1500
WSD15	27402-2	M	Mid-Ebb	460
WSD17	27402-34	S	Mid-Ebb	270
WSD17	27402-35	M	Mid-Ebb	1100
WSD17	27402-36	B	Mid-Ebb	1200
WSD17	27402-70	S	Mid-Flood	1100
WSD17	27402-71	M	Mid-Flood	640
WSD17	27402-72	B	Mid-Flood	92
WSD18	27402-19	S	Mid-Flood	1100

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (10/9/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> , cfu/100mL
WSD18	27402-20	M	Mid-Flood	1400
WSD18	27402-21	B	Mid-Flood	1900
WSD18	27402-58	S	Mid-Ebb	85
WSD18	27402-59	M	Mid-Ebb	98
WSD18	27402-60	B	Mid-Ebb	26
WSD19	27402-22	S	Mid-Flood	2600
WSD19	27402-23	M	Mid-Flood	1800
WSD19	27402-24	B	Mid-Flood	1200
WSD19	27402-61	S	Mid-Ebb	1500
WSD19	27402-62	M	Mid-Ebb	840
WSD19	27402-63	B	Mid-Ebb	15
WSD20	27402-28	S	Mid-Flood	680
WSD20	27402-29	M	Mid-Flood	540
WSD20	27402-30	B	Mid-Flood	580
WSD20	27402-67	S	Mid-Ebb	15
WSD20	27402-68	M	Mid-Ebb	6
WSD20	27402-69	B	Mid-Ebb	7
WSD20	27402-1	M	Mid-Flood	610
WSD21	27402-31	S	Mid-Ebb	6
WSD21	27402-32	M	Mid-Ebb	1
WSD21	27402-33	B	Mid-Ebb	7
WSD21	27402-64	S	Mid-Flood	20
WSD21	27402-65	M	Mid-Flood	4
WSD21	27402-66	B	Mid-Flood	7
WSD22	27402-16	S	Mid-Flood	3200
WSD22	27402-17	M	Mid-Flood	2600
WSD22	27402-18	B	Mid-Flood	1700
WSD22	27402-55	S	Mid-Ebb	200
WSD22	27402-56	M	Mid-Ebb	130
WSD22	27402-57	B	Mid-Ebb	290
WSD4	27402-22	S	Mid-Ebb	460
WSD4	27402-23	M	Mid-Ebb	380
WSD4	27402-24	B	Mid-Ebb	710
WSD4	27402-64	S	Mid-Flood	210
WSD4	27402-65	M	Mid-Flood	150
WSD4	27402-66	B	Mid-Flood	160
WSD5	27402-28	S	Mid-Ebb	620
WSD5	27402-29	M	Mid-Ebb	760
WSD5	27402-30	B	Mid-Ebb	75
WSD5	27402-70	S	Mid-Flood	160
WSD5	27402-71	M	Mid-Flood	140
WSD5	27402-72	B	Mid-Flood	51
WSD6	27402-1	S	Mid-Flood	6000
WSD6	27402-2	M	Mid-Flood	--
WSD6	27402-3	B	Mid-Flood	4000
WSD6	27402-40	S	Mid-Ebb	1300
WSD6	27402-41	M	Mid-Ebb	1500
WSD6	27402-42	B	Mid-Ebb	1600
WSD6	27402-2	B	Mid-Ebb	1100
WSD7	27402-4	S	Mid-Flood	1400

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (10/9/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i>, cfu/100mL
WSD7	27402-5	M	Mid-Flood	1700
WSD7	27402-6	B	Mid-Flood	1800
WSD7	27402-43	S	Mid-Ebb	240
WSD7	27402-44	M	Mid-Ebb	260
WSD7	27402-45	B	Mid-Ebb	300
WSD9	27402-10	S	Mid-Flood	3700
WSD9	27402-11	M	Mid-Flood	3900
WSD9	27402-12	B	Mid-Flood	4500
WSD9	27402-49	S	Mid-Ebb	26
WSD9	27402-50	M	Mid-Ebb	260
WSD9	27402-51	B	Mid-Ebb	310
WSD9	27402-3	S	Mid-Ebb	21

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (8/10/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> , cfu/100mL
B10	27631-10	S	Mid-Ebb	1400
B10	27631-11	M	Mid-Ebb	--
B10	27631-12	B	Mid-Ebb	1500
B10	27631-52	S	Mid-Flood	13
B10	27631-53	M	Mid-Flood	--
B10	27631-54	B	Mid-Flood	28
B11	27631-13	S	Mid-Ebb	--
B11	27631-14	M	Mid-Ebb	1500
B11	27631-15	B	Mid-Ebb	--
B11	27631-55	S	Mid-Flood	--
B11	27631-56	M	Mid-Flood	25
B11	27631-57	B	Mid-Flood	--
B12	27631-16	S	Mid-Ebb	880
B12	27631-17	M	Mid-Ebb	--
B12	27631-18	B	Mid-Ebb	1100
B12	27631-58	S	Mid-Flood	22
B12	27631-59	M	Mid-Flood	--
B12	27631-60	B	Mid-Flood	13
B13	27631-19	S	Mid-Ebb	84
B13	27631-20	M	Mid-Ebb	91
B13	27631-21	B	Mid-Ebb	120
B13	27631-61	S	Mid-Flood	31
B13	27631-62	M	Mid-Flood	--
B13	27631-63	B	Mid-Flood	6
B13	27631-1	S	Mid-Flood	32
B14	27631-37	S	Mid-Ebb	--
B14	27631-38	M	Mid-Ebb	400
B14	27631-39	B	Mid-Ebb	--
B14	27631-79	S	Mid-Flood	--
B14	27631-80	M	Mid-Flood	200
B14	27631-81	B	Mid-Flood	--
B24	27631-1	S	Mid-Ebb	<1
B24	27631-2	M	Mid-Ebb	<1
B24	27631-3	B	Mid-Ebb	<1
B24	27631-16	S	Mid-Flood	2
B24	27631-17	M	Mid-Flood	2
B24	27631-18	B	Mid-Flood	<1
B25	27631-4	S	Mid-Ebb	<1
B25	27631-5	M	Mid-Ebb	--
B25	27631-6	B	Mid-Ebb	1
B25	27631-19	S	Mid-Flood	<1
B25	27631-20	M	Mid-Flood	--
B25	27631-21	B	Mid-Flood	1
B26	27631-7	S	Mid-Ebb	2

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (8/10/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> , cfu/100mL
B26	27631-8	M	Mid-Ebb	<1
B26	27631-9	B	Mid-Ebb	<1
B26	27631-22	S	Mid-Flood	<1
B26	27631-23	M	Mid-Flood	<1
B26	27631-24	B	Mid-Flood	<1
B26	27631-1	M	Mid-Flood	<1
B30	27631-16	S	Mid-Ebb	--
B30	27631-17	M	Mid-Ebb	2
B30	27631-18	B	Mid-Ebb	--
B30	27631-49	S	Mid-Flood	--
B30	27631-50	M	Mid-Flood	<1
B30	27631-51	B	Mid-Flood	--
B30	27631-3	M	Mid-Ebb	2
B31	27631-13	S	Mid-Ebb	--
B31	27631-14	M	Mid-Ebb	<1
B31	27631-15	B	Mid-Ebb	--
B31	27631-46	S	Mid-Flood	--
B31	27631-47	M	Mid-Flood	<1
B31	27631-48	B	Mid-Flood	--
B32	27631-10	S	Mid-Ebb	--
B32	27631-11	M	Mid-Ebb	<1
B32	27631-12	B	Mid-Ebb	--
B32	27631-43	S	Mid-Flood	--
B32	27631-44	M	Mid-Flood	<1
B32	27631-45	B	Mid-Flood	--
B33	27631-7	S	Mid-Ebb	<1
B33	27631-8	M	Mid-Ebb	7
B33	27631-9	B	Mid-Ebb	11
B33	27631-40	S	Mid-Flood	1
B33	27631-41	M	Mid-Flood	5
B33	27631-42	B	Mid-Flood	4
B34	27631-4	S	Mid-Ebb	<1
B34	27631-5	M	Mid-Ebb	5
B34	27631-6	B	Mid-Ebb	26
B34	27631-37	S	Mid-Flood	21
B34	27631-38	M	Mid-Flood	28
B34	27631-39	B	Mid-Flood	36
B35	27631-1	S	Mid-Ebb	<1
B35	27631-2	M	Mid-Ebb	1
B35	27631-3	B	Mid-Ebb	1
B35	27631-34	S	Mid-Flood	<1
B35	27631-35	M	Mid-Flood	1
B35	27631-36	B	Mid-Flood	2
B35	27631-1	S	Mid-Flood	<1

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (8/10/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> , cfu/100mL
B7	27631-1	S	Mid-Ebb	--
B7	27631-2	M	Mid-Ebb	290
B7	27631-3	B	Mid-Ebb	--
B7	27631-43	S	Mid-Flood	--
B7	27631-44	M	Mid-Flood	96
B7	27631-45	B	Mid-Flood	--
B8	27631-4	S	Mid-Ebb	900
B8	27631-5	M	Mid-Ebb	740
B8	27631-6	B	Mid-Ebb	980
B8	27631-46	S	Mid-Flood	300
B8	27631-47	M	Mid-Flood	110
B8	27631-48	B	Mid-Flood	83
B9	27631-7	S	Mid-Ebb	210
B9	27631-8	M	Mid-Ebb	--
B9	27631-9	B	Mid-Ebb	250
B9	27631-49	S	Mid-Flood	110
B9	27631-50	M	Mid-Flood	--
B9	27631-51	B	Mid-Flood	10
EM1	27631-19	S	Mid-Ebb	2
EM1	27631-20	M	Mid-Ebb	<1
EM1	27631-21	B	Mid-Ebb	1
EM1	27631-55	S	Mid-Flood	30
EM1	27631-56	M	Mid-Flood	28
EM1	27631-57	B	Mid-Flood	48
EM2	27631-22	S	Mid-Ebb	3
EM2	27631-23	M	Mid-Ebb	6
EM2	27631-24	B	Mid-Ebb	2
EM2	27631-58	S	Mid-Flood	34
EM2	27631-59	M	Mid-Flood	57
EM2	27631-60	B	Mid-Flood	40
EM3	27631-10	S	Mid-Ebb	12
EM3	27631-11	M	Mid-Ebb	<1
EM3	27631-12	B	Mid-Ebb	<1
EM3	27631-25	S	Mid-Flood	2
EM3	27631-26	M	Mid-Flood	1
EM3	27631-27	B	Mid-Flood	20
F1	27631-25	S	Mid-Ebb	<1
F1	27631-26	M	Mid-Ebb	20
F1	27631-27	B	Mid-Ebb	<1
F1	27631-61	S	Mid-Flood	27
F1	27631-62	M	Mid-Flood	14
F1	27631-63	B	Mid-Flood	17
F1	27631-3	B	Mid-Ebb	<1
F4	27631-25	S	Mid-Ebb	28

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (8/10/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> , cfu/100mL
F4	27631-26	M	Mid-Ebb	1100
F4	27631-27	B	Mid-Ebb	1100
F4	27631-58	S	Mid-Flood	10000
F4	27631-59	M	Mid-Flood	9700
F4	27631-60	B	Mid-Flood	19000
F4	27631-2	S	Mid-Ebb	24
F5	27631-40	S	Mid-Ebb	280
F5	27631-41	M	Mid-Ebb	440
F5	27631-42	B	Mid-Ebb	400
F5	27631-82	S	Mid-Flood	18
F5	27631-83	M	Mid-Flood	48
F5	27631-84	B	Mid-Flood	51
F5	27631-2	S	Mid-Ebb	240
JM3	27631-16	S	Mid-Ebb	<1
JM3	27631-17	M	Mid-Ebb	4
JM3	27631-18	B	Mid-Ebb	6
JM3	27631-52	S	Mid-Flood	48
JM3	27631-53	M	Mid-Flood	75
JM3	27631-54	B	Mid-Flood	56
JM3	27631-1	B	Mid-Flood	46
MM13	27631-13	S	Mid-Ebb	<1
MM13	27631-14	M	Mid-Ebb	<1
MM13	27631-15	B	Mid-Ebb	<1
MM13	27631-28	S	Mid-Flood	<1
MM13	27631-29	M	Mid-Flood	<1
MM13	27631-30	B	Mid-Flood	<1
SM12	27631-1	S	Mid-Ebb	<1
SM12	27631-2	M	Mid-Ebb	13
SM12	27631-3	B	Mid-Ebb	10
SM12	27631-10	S	Mid-Flood	2
SM12	27631-11	M	Mid-Flood	200
SM12	27631-12	B	Mid-Flood	82
SM12	27631-1	B	Mid-Flood	78
SM17	27631-4	S	Mid-Ebb	<1
SM17	27631-5	M	Mid-Ebb	<1
SM17	27631-6	B	Mid-Ebb	<1
SM17	27631-13	S	Mid-Flood	10
SM17	27631-14	M	Mid-Flood	2
SM17	27631-15	B	Mid-Flood	<1
SM2	27631-19	S	Mid-Ebb	<1
SM2	27631-20	M	Mid-Ebb	<1
SM2	27631-21	B	Mid-Ebb	<1
SM2	27631-52	S	Mid-Flood	9
SM2	27631-53	M	Mid-Flood	8

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (8/10/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> , cfu/100mL
SM2	27631-54	B	Mid-Flood	7
SM3	27631-22	S	Mid-Ebb	14
SM3	27631-23	M	Mid-Ebb	90
SM3	27631-24	B	Mid-Ebb	37
SM3	27631-55	S	Mid-Flood	9200
SM3	27631-56	M	Mid-Flood	5600
SM3	27631-57	B	Mid-Flood	300
SM6	27631-7	S	Mid-Ebb	<1
SM6	27631-8	M	Mid-Ebb	<1
SM6	27631-9	B	Mid-Ebb	<1
SM6	27631-16	S	Mid-Flood	51
SM6	27631-17	M	Mid-Flood	3
SM6	27631-18	B	Mid-Flood	<1
VM1	27631-10	S	Mid-Ebb	18
VM1	27631-11	M	Mid-Ebb	39
VM1	27631-12	B	Mid-Ebb	17
VM1	27631-46	S	Mid-Flood	94
VM1	27631-47	M	Mid-Flood	99
VM1	27631-48	B	Mid-Flood	62
VM12	27631-31	S	Mid-Ebb	1700
VM12	27631-32	M	Mid-Ebb	2700
VM12	27631-33	B	Mid-Ebb	3600
VM12	27631-73	S	Mid-Flood	420
VM12	27631-74	M	Mid-Flood	1500
VM12	27631-75	B	Mid-Flood	1700
VM12	27631-3	M	Mid-Ebb	2600
VM14	27631-25	S	Mid-Ebb	1700
VM14	27631-26	M	Mid-Ebb	1700
VM14	27631-27	B	Mid-Ebb	2200
VM14	27631-67	S	Mid-Flood	48
VM14	27631-68	M	Mid-Flood	36
VM14	27631-69	B	Mid-Flood	140
VM15	27631-37	S	Mid-Ebb	150
VM15	27631-38	M	Mid-Ebb	340
VM15	27631-39	B	Mid-Ebb	82
VM15	27631-76	S	Mid-Ebb	5700
VM15	27631-77	M	Mid-Ebb	7100
VM15	27631-78	B	Mid-Ebb	4200
VM2	27631-1	S	Mid-Ebb	51
VM2	27631-2	M	Mid-Ebb	62
VM2	27631-3	B	Mid-Ebb	52
VM2	27631-37	S	Mid-Flood	380
VM2	27631-38	M	Mid-Flood	440
VM2	27631-39	B	Mid-Flood	99

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (8/10/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> , cfu/100mL
VM4	27631-7	S	Mid-Ebb	20
VM4	27631-8	M	Mid-Ebb	59
VM4	27631-9	B	Mid-Ebb	22
VM4	27631-46	S	Mid-Flood	1100
VM4	27631-47	M	Mid-Flood	340
VM4	27631-48	B	Mid-Flood	180
VM5	27631-13	S	Mid-Ebb	94
VM5	27631-14	M	Mid-Ebb	86
VM5	27631-15	B	Mid-Ebb	77
VM5	27631-52	S	Mid-Flood	180
VM5	27631-53	M	Mid-Flood	200
VM5	27631-54	B	Mid-Flood	5900
VM7	27631-25	S	Mid-Ebb	28
VM7	27631-26	M	Mid-Ebb	42
VM7	27631-27	B	Mid-Ebb	560
VM7	27631-64	S	Mid-Ebb	2800
VM7	27631-65	M	Mid-Ebb	1600
VM7	27631-66	B	Mid-Ebb	2900
VM8	27631-34	S	Mid-Ebb	17000
VM8	27631-35	M	Mid-Ebb	14000
VM8	27631-36	B	Mid-Ebb	32000
VM8	27631-73	S	Mid-Ebb	2000
VM8	27631-74	M	Mid-Ebb	2500
VM8	27631-75	B	Mid-Ebb	2300
WM1	27631-28	S	Mid-Ebb	54
WM1	27631-29	M	Mid-Ebb	940
WM1	27631-30	B	Mid-Ebb	200
WM1	27631-61	S	Mid-Flood	3400
WM1	27631-62	M	Mid-Flood	2700
WM1	27631-63	B	Mid-Flood	340
WM2	27631-31	S	Mid-Ebb	120
WM2	27631-32	M	Mid-Ebb	1600
WM2	27631-33	B	Mid-Ebb	720
WM2	27631-70	S	Mid-Ebb	1000
WM2	27631-71	M	Mid-Ebb	780
WM2	27631-72	B	Mid-Ebb	840
WM4	27631-34	S	Mid-Ebb	350
WM4	27631-35	M	Mid-Ebb	740
WM4	27631-36	B	Mid-Ebb	1000
WM4	27631-76	S	Mid-Flood	220
WM4	27631-77	M	Mid-Flood	200
WM4	27631-78	B	Mid-Flood	170
WSD10	27631-4	S	Mid-Ebb	38
WSD10	27631-5	M	Mid-Ebb	7

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (8/10/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> , cfu/100mL
WSD10	27631-6	B	Mid-Ebb	56
WSD10	27631-40	S	Mid-Flood	160
WSD10	27631-41	M	Mid-Flood	120
WSD10	27631-42	B	Mid-Flood	110
WSD11	27631-7	S	Mid-Ebb	36
WSD11	27631-8	M	Mid-Ebb	24
WSD11	27631-9	B	Mid-Ebb	40
WSD11	27631-43	S	Mid-Flood	130
WSD11	27631-44	M	Mid-Flood	170
WSD11	27631-45	B	Mid-Flood	190
WSD12	27631-13	S	Mid-Ebb	12
WSD12	27631-14	M	Mid-Ebb	4
WSD12	27631-15	B	Mid-Ebb	<1
WSD12	27631-49	S	Mid-Flood	38
WSD12	27631-50	M	Mid-Flood	36
WSD12	27631-51	B	Mid-Flood	58
WSD13	27631-28	S	Mid-Ebb	24
WSD13	27631-29	M	Mid-Ebb	76
WSD13	27631-30	B	Mid-Ebb	16
WSD13	27631-64	S	Mid-Flood	20
WSD13	27631-65	M	Mid-Flood	25
WSD13	27631-66	B	Mid-Flood	28
WSD15	27631-31	S	Mid-Ebb	70
WSD15	27631-32	M	Mid-Ebb	120
WSD15	27631-33	B	Mid-Ebb	110
WSD15	27631-67	S	Mid-Flood	150
WSD15	27631-68	M	Mid-Flood	110
WSD15	27631-69	B	Mid-Flood	180
WSD15	27631-2	M	Mid-Ebb	110
WSD17	27631-34	S	Mid-Ebb	43000
WSD17	27631-35	M	Mid-Ebb	2200
WSD17	27631-36	B	Mid-Ebb	5900
WSD17	27631-70	S	Mid-Flood	84
WSD17	27631-71	M	Mid-Flood	150
WSD17	27631-72	B	Mid-Flood	74
WSD18	27631-19	S	Mid-Ebb	330
WSD18	27631-20	M	Mid-Ebb	960
WSD18	27631-21	B	Mid-Ebb	380
WSD18	27631-58	S	Mid-Flood	4500
WSD18	27631-59	M	Mid-Flood	8300
WSD18	27631-60	B	Mid-Flood	6200
WSD19	27631-22	S	Mid-Ebb	1800
WSD19	27631-23	M	Mid-Ebb	2100
WSD19	27631-24	B	Mid-Ebb	1400

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (8/10/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> , cfu/100mL
WSD19	27631-61	S	Mid-Flood	5700
WSD19	27631-62	M	Mid-Flood	4700
WSD19	27631-63	B	Mid-Flood	2000
WSD20	27631-28	S	Mid-Ebb	230
WSD20	27631-29	M	Mid-Ebb	540
WSD20	27631-30	B	Mid-Ebb	420
WSD20	27631-67	S	Mid-Ebb	1400
WSD20	27631-68	M	Mid-Ebb	4400
WSD20	27631-69	B	Mid-Ebb	8300
WSD20	27631-1	M	Mid-Flood	3800
WSD21	27631-31	S	Mid-Ebb	20
WSD21	27631-32	M	Mid-Ebb	46
WSD21	27631-33	B	Mid-Ebb	61
WSD21	27631-64	S	Mid-Flood	9100
WSD21	27631-65	M	Mid-Flood	6100
WSD21	27631-66	B	Mid-Flood	4300
WSD22	27631-16	S	Mid-Ebb	190
WSD22	27631-17	M	Mid-Ebb	120
WSD22	27631-18	B	Mid-Ebb	150
WSD22	27631-55	S	Mid-Flood	1800
WSD22	27631-56	M	Mid-Flood	1800
WSD22	27631-57	B	Mid-Flood	1700
WSD4	27631-22	S	Mid-Ebb	2000
WSD4	27631-23	M	Mid-Ebb	2200
WSD4	27631-24	B	Mid-Ebb	1900
WSD4	27631-64	S	Mid-Flood	42
WSD4	27631-65	M	Mid-Flood	17
WSD4	27631-66	B	Mid-Flood	19
WSD5	27631-28	S	Mid-Ebb	2000
WSD5	27631-29	M	Mid-Ebb	1700
WSD5	27631-30	B	Mid-Ebb	1600
WSD5	27631-70	S	Mid-Flood	1400
WSD5	27631-71	M	Mid-Flood	900
WSD5	27631-72	B	Mid-Flood	1000
WSD6	27631-1	S	Mid-Ebb	220
WSD6	27631-2	M	Mid-Ebb	1000
WSD6	27631-3	B	Mid-Ebb	1000
WSD6	27631-40	S	Mid-Flood	3100
WSD6	27631-41	M	Mid-Flood	2800
WSD6	27631-42	B	Mid-Flood	3200
WSD6	27631-2	B	Mid-Ebb	940
WSD7	27631-4	S	Mid-Ebb	720
WSD7	27631-5	M	Mid-Ebb	1100
WSD7	27631-6	B	Mid-Ebb	780

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (8/10/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i>, cfu/100mL
WSD7	27631-43	S	Mid-Flood	4700
WSD7	27631-44	M	Mid-Flood	4800
WSD7	27631-45	B	Mid-Flood	4600
WSD9	27631-10	S	Mid-Ebb	21
WSD9	27631-11	M	Mid-Ebb	14
WSD9	27631-12	B	Mid-Ebb	20
WSD9	27631-49	S	Mid-Flood	2800
WSD9	27631-50	M	Mid-Flood	1200
WSD9	27631-51	B	Mid-Flood	1200
WSD9	27631-3	S	Mid-Ebb	25

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (19/11/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> , cfu/100mL
B10	27869-10	S	Mid-Ebb	2100
B10	27869-11	M	Mid-Ebb	--
B10	27869-12	B	Mid-Ebb	3200
B10	27869-52	S	Mid-Flood	1900
B10	27869-53	M	Mid-Flood	--
B10	27869-54	B	Mid-Flood	3100
B11	27869-13	S	Mid-Ebb	--
B11	27869-14	M	Mid-Ebb	2800
B11	27869-15	B	Mid-Ebb	--
B11	27869-55	S	Mid-Flood	--
B11	27869-56	M	Mid-Flood	2300
B11	27869-57	B	Mid-Flood	--
B12	27869-16	S	Mid-Ebb	1800
B12	27869-17	M	Mid-Ebb	--
B12	27869-18	B	Mid-Ebb	1700
B12	27869-58	S	Mid-Flood	2100
B12	27869-59	M	Mid-Flood	--
B12	27869-60	B	Mid-Flood	2600
B13	27869-19	S	Mid-Ebb	1500
B13	27869-20	M	Mid-Ebb	1900
B13	27869-21	B	Mid-Ebb	1900
B13	27869-61	S	Mid-Flood	2600
B13	27869-62	M	Mid-Flood	2500
B13	27869-63	B	Mid-Flood	2300
B13	27869-1	S	Mid-Flood	1900
B14	27869-37	S	Mid-Ebb	--
B14	27869-38	M	Mid-Ebb	2500
B14	27869-39	B	Mid-Ebb	--
B14	27869-79	S	Mid-Flood	--
B14	27869-80	M	Mid-Flood	1000
B14	27869-81	B	Mid-Flood	--
B24	27869-1	S	Mid-Ebb	190
B24	27869-2	M	Mid-Ebb	26
B24	27869-3	B	Mid-Ebb	160
B24	27869-16	S	Mid-Flood	20
B24	27869-17	M	Mid-Flood	610
B24	27869-18	B	Mid-Flood	460
B25	27869-4	S	Mid-Ebb	100
B25	27869-5	M	Mid-Ebb	--
B25	27869-6	B	Mid-Ebb	49
B25	27869-19	S	Mid-Flood	6
B25	27869-20	M	Mid-Flood	--
B25	27869-21	B	Mid-Flood	11
B26	27869-7	S	Mid-Ebb	94
B26	27869-8	M	Mid-Ebb	79
B26	27869-9	B	Mid-Ebb	78
B26	27869-22	S	Mid-Flood	5

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (19/11/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> , cfu/100mL
B26	27869-23	M	Mid-Flood	16
B26	27869-24	B	Mid-Flood	10
B26	27869-1	M	Mid-Flood	11
B30	27869-16	S	Mid-Ebb	--
B30	27869-17	M	Mid-Ebb	6
B30	27869-18	B	Mid-Ebb	--
B30	27869-49	S	Mid-Flood	--
B30	27869-50	M	Mid-Flood	3
B30	27869-51	B	Mid-Flood	--
B30	27869-3	M	Mid-Ebb	5
B31	27869-13	S	Mid-Ebb	--
B31	27869-14	M	Mid-Ebb	<1
B31	27869-15	B	Mid-Ebb	--
B31	27869-46	S	Mid-Flood	--
B31	27869-47	M	Mid-Flood	<1
B31	27869-48	B	Mid-Flood	--
B32	27869-10	S	Mid-Ebb	--
B32	27869-11	M	Mid-Ebb	2
B32	27869-12	B	Mid-Ebb	--
B32	27869-43	S	Mid-Flood	--
B32	27869-44	M	Mid-Flood	<1
B32	27869-45	B	Mid-Flood	--
B33	27869-7	S	Mid-Ebb	8
B33	27869-8	M	Mid-Ebb	5
B33	27869-9	B	Mid-Ebb	6
B33	27869-40	S	Mid-Flood	4
B33	27869-41	M	Mid-Flood	<1
B33	27869-42	B	Mid-Flood	4
B34	27869-4	S	Mid-Ebb	2
B34	27869-5	M	Mid-Ebb	10
B34	27869-6	B	Mid-Ebb	6
B34	27869-37	S	Mid-Flood	3
B34	27869-38	M	Mid-Flood	<1
B34	27869-39	B	Mid-Flood	5
B35	27869-1	S	Mid-Ebb	<1
B35	27869-2	M	Mid-Ebb	<1
B35	27869-3	B	Mid-Ebb	<1
B35	27869-34	S	Mid-Flood	<1
B35	27869-35	M	Mid-Flood	<1
B35	27869-36	B	Mid-Flood	2
B35	27869-1	S	Mid-Flood	<1
B7	27869-1	S	Mid-Ebb	--
B7	27869-2	M	Mid-Ebb	1800
B7	27869-3	B	Mid-Ebb	--
B7	27869-43	S	Mid-Flood	--
B7	27869-44	M	Mid-Flood	1700
B7	27869-45	B	Mid-Flood	--

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (19/11/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> , cfu/100mL
B8	27869-4	S	Mid-Ebb	3700
B8	27869-5	M	Mid-Ebb	3200
B8	27869-6	B	Mid-Ebb	3300
B8	27869-46	S	Mid-Flood	2300
B8	27869-47	M	Mid-Flood	1900
B8	27869-48	B	Mid-Flood	2200
B9	27869-7	S	Mid-Ebb	2400
B9	27869-8	M	Mid-Ebb	--
B9	27869-9	B	Mid-Ebb	3100
B9	27869-49	S	Mid-Flood	2500
B9	27869-50	M	Mid-Flood	--
B9	27869-51	B	Mid-Flood	2300
EM1	27869-19	S	Mid-Ebb	14
EM1	27869-20	M	Mid-Ebb	14
EM1	27869-21	B	Mid-Ebb	36
EM1	27869-55	S	Mid-Flood	2
EM1	27869-56	M	Mid-Flood	150
EM1	27869-57	B	Mid-Flood	110
EM2	27869-22	S	Mid-Ebb	6
EM2	27869-23	M	Mid-Ebb	16
EM2	27869-24	B	Mid-Ebb	4
EM2	27869-58	S	Mid-Flood	150
EM2	27869-59	M	Mid-Flood	8
EM2	27869-60	B	Mid-Flood	22
EM3	27869-10	S	Mid-Ebb	110
EM3	27869-11	M	Mid-Ebb	<1
EM3	27869-12	B	Mid-Ebb	8
EM3	27869-25	S	Mid-Flood	17
EM3	27869-26	M	Mid-Flood	28
EM3	27869-27	B	Mid-Flood	53
F1	27869-25	S	Mid-Ebb	4
F1	27869-26	M	Mid-Ebb	<1
F1	27869-27	B	Mid-Ebb	24
F1	27869-61	S	Mid-Flood	4
F1	27869-62	M	Mid-Flood	32
F1	27869-63	B	Mid-Flood	18
F1	27869-3	B	Mid-Ebb	30
F4	27869-25	S	Mid-Ebb	14
F4	27869-26	M	Mid-Ebb	7
F4	27869-27	B	Mid-Ebb	10
F4	27869-58	S	Mid-Flood	1000
F4	27869-59	M	Mid-Flood	1200
F4	27869-60	B	Mid-Flood	840
F4	27869-2	S	Mid-Ebb	8
F5	27869-40	S	Mid-Ebb	1900
F5	27869-41	M	Mid-Ebb	3200
F5	27869-42	B	Mid-Ebb	840

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (19/11/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> , cfu/100mL
F5	27869-82	S	Mid-Flood	860
F5	27869-83	M	Mid-Flood	1100
F5	27869-84	B	Mid-Flood	940
F5	27869-2	S	Mid-Ebb	1660
JM3	27869-16	S	Mid-Ebb	170
JM3	27869-17	M	Mid-Ebb	10
JM3	27869-18	B	Mid-Ebb	6
JM3	27869-52	S	Mid-Flood	37
JM3	27869-53	M	Mid-Flood	24
JM3	27869-54	B	Mid-Flood	18
JM3	27869-1	B	Mid-Flood	18
MM13	27869-13	S	Mid-Ebb	10
MM13	27869-14	M	Mid-Ebb	<1
MM13	27869-15	B	Mid-Ebb	140
MM13	27869-28	S	Mid-Flood	13
MM13	27869-29	M	Mid-Flood	<1
MM13	27869-30	B	Mid-Flood	<1
SM12	27869-1	S	Mid-Ebb	20
SM12	27869-2	M	Mid-Ebb	16
SM12	27869-3	B	Mid-Ebb	17
SM12	27869-10	S	Mid-Flood	10
SM12	27869-11	M	Mid-Flood	12
SM12	27869-12	B	Mid-Flood	16
SM12	27869-1	B	Mid-Flood	11
SM17	27869-4	S	Mid-Ebb	<1
SM17	27869-5	M	Mid-Ebb	<1
SM17	27869-6	B	Mid-Ebb	<1
SM17	27869-13	S	Mid-Flood	4
SM17	27869-14	M	Mid-Flood	<1
SM17	27869-15	B	Mid-Flood	10
SM2	27869-19	S	Mid-Ebb	8
SM2	27869-20	M	Mid-Ebb	3
SM2	27869-21	B	Mid-Ebb	2
SM2	27869-52	S	Mid-Flood	<1
SM2	27869-53	M	Mid-Flood	2
SM2	27869-54	B	Mid-Flood	1
SM3	27869-22	S	Mid-Ebb	3
SM3	27869-23	M	Mid-Ebb	<1
SM3	27869-24	B	Mid-Ebb	3
SM3	27869-55	S	Mid-Flood	580
SM3	27869-56	M	Mid-Flood	260
SM3	27869-57	B	Mid-Flood	300
SM6	27869-7	S	Mid-Ebb	2
SM6	27869-8	M	Mid-Ebb	2
SM6	27869-9	B	Mid-Ebb	2
SM6	27869-16	S	Mid-Flood	1900
SM6	27869-17	M	Mid-Flood	2

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (19/11/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i>, cfu/100mL
SM6	27869-18	B	Mid-Flood	2
VM1	27869-10	S	Mid-Ebb	54
VM1	27869-11	M	Mid-Ebb	160
VM1	27869-12	B	Mid-Ebb	140
VM1	27869-46	S	Mid-Flood	300
VM1	27869-47	M	Mid-Flood	140
VM1	27869-48	B	Mid-Flood	110
VM12	27869-31	S	Mid-Ebb	2100
VM12	27869-32	M	Mid-Ebb	1900
VM12	27869-33	B	Mid-Ebb	3600
VM12	27869-73	S	Mid-Flood	1700
VM12	27869-74	M	Mid-Flood	1900
VM12	27869-75	B	Mid-Flood	1800
VM12	27869-3	M	Mid-Ebb	1900
VM14	27869-25	S	Mid-Ebb	1500
VM14	27869-26	M	Mid-Ebb	1200
VM14	27869-27	B	Mid-Ebb	1900
VM14	27869-67	S	Mid-Flood	2100
VM14	27869-68	M	Mid-Flood	2100
VM14	27869-69	B	Mid-Flood	1900
VM15	27869-37	S	Mid-Ebb	720
VM15	27869-38	M	Mid-Ebb	480
VM15	27869-39	B	Mid-Ebb	480
VM15	27869-76	S	Mid-Ebb	300
VM15	27869-77	M	Mid-Ebb	310
VM15	27869-78	B	Mid-Ebb	240
VM2	27869-1	S	Mid-Ebb	56
VM2	27869-2	M	Mid-Ebb	180
VM2	27869-3	B	Mid-Ebb	66
VM2	27869-37	S	Mid-Flood	230
VM2	27869-38	M	Mid-Flood	170
VM2	27869-39	B	Mid-Flood	97
VM4	27869-7	S	Mid-Ebb	480
VM4	27869-8	M	Mid-Ebb	660
VM4	27869-9	B	Mid-Ebb	860
VM4	27869-46	S	Mid-Flood	500
VM4	27869-47	M	Mid-Flood	760
VM4	27869-48	B	Mid-Flood	740
VM5	27869-13	S	Mid-Ebb	980
VM5	27869-14	M	Mid-Ebb	960
VM5	27869-15	B	Mid-Ebb	860
VM5	27869-52	S	Mid-Flood	2100
VM5	27869-53	M	Mid-Flood	1800
VM5	27869-54	B	Mid-Flood	1100
VM7	27869-25	S	Mid-Ebb	1700
VM7	27869-26	M	Mid-Ebb	1400
VM7	27869-27	B	Mid-Ebb	1200

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (19/11/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> , cfu/100mL
VM7	27869-64	S	Mid-Ebb	5100
VM7	27869-65	M	Mid-Ebb	4400
VM7	27869-66	B	Mid-Ebb	2300
VM8	27869-34	S	Mid-Ebb	29000
VM8	27869-35	M	Mid-Ebb	3000
VM8	27869-36	B	Mid-Ebb	2800
VM8	27869-73	S	Mid-Ebb	12000
VM8	27869-74	M	Mid-Ebb	6200
VM8	27869-75	B	Mid-Ebb	1400
WM1	27869-28	S	Mid-Ebb	4
WM1	27869-29	M	Mid-Ebb	7
WM1	27869-30	B	Mid-Ebb	8
WM1	27869-61	S	Mid-Flood	1100
WM1	27869-62	M	Mid-Flood	760
WM1	27869-63	B	Mid-Flood	940
WM2	27869-31	S	Mid-Ebb	1700
WM2	27869-32	M	Mid-Ebb	2000
WM2	27869-33	B	Mid-Ebb	2100
WM2	27869-70	S	Mid-Ebb	2300
WM2	27869-71	M	Mid-Ebb	2900
WM2	27869-72	B	Mid-Ebb	1900
WM4	27869-34	S	Mid-Ebb	1400
WM4	27869-35	M	Mid-Ebb	1700
WM4	27869-36	B	Mid-Ebb	2500
WM4	27869-76	S	Mid-Flood	1500
WM4	27869-77	M	Mid-Flood	1100
WM4	27869-78	B	Mid-Flood	2100
WSD10	27869-4	S	Mid-Ebb	740
WSD10	27869-5	M	Mid-Ebb	510
WSD10	27869-6	B	Mid-Ebb	100
WSD10	27869-40	S	Mid-Flood	160
WSD10	27869-41	M	Mid-Flood	210
WSD10	27869-42	B	Mid-Flood	350
WSD11	27869-7	S	Mid-Ebb	110
WSD11	27869-8	M	Mid-Ebb	76
WSD11	27869-9	B	Mid-Ebb	110
WSD11	27869-43	S	Mid-Flood	330
WSD11	27869-44	M	Mid-Flood	210
WSD11	27869-45	B	Mid-Flood	120
WSD12	27869-13	S	Mid-Ebb	60
WSD12	27869-14	M	Mid-Ebb	78
WSD12	27869-15	B	Mid-Ebb	55
WSD12	27869-49	S	Mid-Flood	18
WSD12	27869-50	M	Mid-Flood	<1
WSD12	27869-51	B	Mid-Flood	6
WSD13	27869-28	S	Mid-Ebb	86
WSD13	27869-29	M	Mid-Ebb	72

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (19/11/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> , cfu/100mL
WSD13	27869-30	B	Mid-Ebb	110
WSD13	27869-64	S	Mid-Flood	100
WSD13	27869-65	M	Mid-Flood	160
WSD13	27869-66	B	Mid-Flood	240
WSD15	27869-31	S	Mid-Ebb	180
WSD15	27869-32	M	Mid-Ebb	280
WSD15	27869-33	B	Mid-Ebb	260
WSD15	27869-67	S	Mid-Flood	340
WSD15	27869-68	M	Mid-Flood	450
WSD15	27869-69	B	Mid-Flood	270
WSD15	27869-2	M	Mid-Ebb	250
WSD17	27869-34	S	Mid-Ebb	370
WSD17	27869-35	M	Mid-Ebb	290
WSD17	27869-36	B	Mid-Ebb	200
WSD17	27869-70	S	Mid-Flood	590
WSD17	27869-71	M	Mid-Flood	690
WSD17	27869-72	B	Mid-Flood	980
WSD18	27869-19	S	Mid-Ebb	2300
WSD18	27869-20	M	Mid-Ebb	1900
WSD18	27869-21	B	Mid-Ebb	1900
WSD18	27869-58	S	Mid-Flood	1900
WSD18	27869-59	M	Mid-Flood	3000
WSD18	27869-60	B	Mid-Flood	2600
WSD19	27869-22	S	Mid-Ebb	2300
WSD19	27869-23	M	Mid-Ebb	2300
WSD19	27869-24	B	Mid-Ebb	2400
WSD19	27869-61	S	Mid-Flood	2500
WSD19	27869-62	M	Mid-Flood	2600
WSD19	27869-63	B	Mid-Flood	3400
WSD20	27869-28	S	Mid-Ebb	3800
WSD20	27869-29	M	Mid-Ebb	1600
WSD20	27869-30	B	Mid-Ebb	2800
WSD20	27869-67	S	Mid-Ebb	26000
WSD20	27869-68	M	Mid-Ebb	19000
WSD20	27869-69	B	Mid-Ebb	14000
WSD20	27869-1	M	Mid-Flood	9600
WSD21	27869-31	S	Mid-Ebb	13
WSD21	27869-32	M	Mid-Ebb	12
WSD21	27869-33	B	Mid-Ebb	12
WSD21	27869-64	S	Mid-Flood	11
WSD21	27869-65	M	Mid-Flood	16
WSD21	27869-66	B	Mid-Flood	14
WSD22	27869-16	S	Mid-Ebb	880
WSD22	27869-17	M	Mid-Ebb	760
WSD22	27869-18	B	Mid-Ebb	560
WSD22	27869-55	S	Mid-Flood	2300
WSD22	27869-56	M	Mid-Flood	1900

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (19/11/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> , cfu/100mL
WSD22	27869-57	B	Mid-Flood	2300
WSD4	27869-22	S	Mid-Ebb	1800
WSD4	27869-23	M	Mid-Ebb	1800
WSD4	27869-24	B	Mid-Ebb	1800
WSD4	27869-64	S	Mid-Flood	3100
WSD4	27869-65	M	Mid-Flood	3100
WSD4	27869-66	B	Mid-Flood	2400
WSD5	27869-28	S	Mid-Ebb	1900
WSD5	27869-29	M	Mid-Ebb	1500
WSD5	27869-30	B	Mid-Ebb	1600
WSD5	27869-70	S	Mid-Flood	1300
WSD5	27869-71	M	Mid-Flood	2000
WSD5	27869-72	B	Mid-Flood	1700
WSD6	27869-1	S	Mid-Ebb	540
WSD6	27869-2	M	Mid-Ebb	--
WSD6	27869-3	B	Mid-Ebb	1100
WSD6	27869-40	S	Mid-Flood	460
WSD6	27869-41	M	Mid-Flood	290
WSD6	27869-42	B	Mid-Flood	540
WSD6	27869-2	B	Mid-Ebb	980
WSD7	27869-4	S	Mid-Ebb	2500
WSD7	27869-5	M	Mid-Ebb	2400
WSD7	27869-6	B	Mid-Ebb	1700
WSD7	27869-43	S	Mid-Flood	1200
WSD7	27869-44	M	Mid-Flood	1200
WSD7	27869-45	B	Mid-Flood	1000
WSD9	27869-10	S	Mid-Ebb	130
WSD9	27869-11	M	Mid-Ebb	78
WSD9	27869-12	B	Mid-Ebb	80
WSD9	27869-49	S	Mid-Flood	980
WSD9	27869-50	M	Mid-Flood	560
WSD9	27869-51	B	Mid-Flood	250
WSD9	27869-3	S	Mid-Ebb	110

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (10/12/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> , cfu/100mL
B10	27991-10	S	Mid-Ebb	340
B10	27991-11	M	Mid-Ebb	--
B10	27991-12	B	Mid-Ebb	230
B10	27991-52	S	Mid-Flood	3
B10	27991-53	M	Mid-Flood	--
B10	27991-54	B	Mid-Flood	30
B11	27991-13	S	Mid-Ebb	--
B11	27991-14	M	Mid-Ebb	220
B11	27991-15	B	Mid-Ebb	--
B11	27991-55	S	Mid-Flood	--
B11	27991-56	M	Mid-Flood	120
B11	27991-57	B	Mid-Flood	--
B12	27991-16	S	Mid-Ebb	120
B12	27991-17	M	Mid-Ebb	--
B12	27991-18	B	Mid-Ebb	190
B12	27991-58	S	Mid-Flood	110
B12	27991-59	M	Mid-Flood	--
B12	27991-60	B	Mid-Flood	160
B13	27991-19	S	Mid-Ebb	180
B13	27991-20	M	Mid-Ebb	220
B13	27991-21	B	Mid-Ebb	280
B13	27991-61	S	Mid-Flood	100
B13	27991-62	M	Mid-Flood	360
B13	27991-63	B	Mid-Flood	300
B13	27991-1	S	Mid-Flood	120
B14	27991-37	S	Mid-Ebb	--
B14	27991-38	M	Mid-Ebb	320
B14	27991-39	B	Mid-Ebb	--
B14	27991-79	S	Mid-Flood	--
B14	27991-80	M	Mid-Flood	4
B14	27991-81	B	Mid-Flood	--
B24	27991-1	S	Mid-Ebb	2
B24	27991-2	M	Mid-Ebb	2
B24	27991-3	B	Mid-Ebb	1
B24	27991-19	S	Mid-Flood	<1
B24	27991-20	M	Mid-Flood	1
B24	27991-21	B	Mid-Flood	<1
B25	27991-4	S	Mid-Ebb	1
B25	27991-5	M	Mid-Ebb	--
B25	27991-6	B	Mid-Ebb	<1
B25	27991-22	S	Mid-Flood	2
B25	27991-23	M	Mid-Flood	--
B25	27991-24	B	Mid-Flood	<1
B26	27991-7	S	Mid-Ebb	18
B26	27991-8	M	Mid-Ebb	150
B26	27991-9	B	Mid-Ebb	90
B26	27991-25	S	Mid-Flood	20
B26	27991-26	M	Mid-Flood	8
B26	27991-27	B	Mid-Flood	14

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (10/12/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> , cfu/100mL
B10	27991-10	S	Mid-Ebb	340
B10	27991-11	M	Mid-Ebb	--
B10	27991-12	B	Mid-Ebb	230
B10	27991-52	S	Mid-Flood	3
B10	27991-53	M	Mid-Flood	--
B10	27991-54	B	Mid-Flood	30
B11	27991-13	S	Mid-Ebb	--
B11	27991-14	M	Mid-Ebb	220
B11	27991-15	B	Mid-Ebb	--
B11	27991-55	S	Mid-Flood	--
B11	27991-56	M	Mid-Flood	120
B11	27991-57	B	Mid-Flood	--
B12	27991-16	S	Mid-Ebb	120
B12	27991-17	M	Mid-Ebb	--
B12	27991-18	B	Mid-Ebb	190
B12	27991-58	S	Mid-Flood	110
B12	27991-59	M	Mid-Flood	--
B12	27991-60	B	Mid-Flood	160
B13	27991-19	S	Mid-Ebb	180
B13	27991-20	M	Mid-Ebb	220
B13	27991-21	B	Mid-Ebb	280
B13	27991-61	S	Mid-Flood	100
B13	27991-62	M	Mid-Flood	360
B13	27991-63	B	Mid-Flood	300
B13	27991-1	S	Mid-Flood	120
B14	27991-37	S	Mid-Ebb	--
B14	27991-38	M	Mid-Ebb	320
B14	27991-39	B	Mid-Ebb	--
B14	27991-79	S	Mid-Flood	--
B14	27991-80	M	Mid-Flood	4
B14	27991-81	B	Mid-Flood	--
B24	27991-1	S	Mid-Ebb	2
B24	27991-2	M	Mid-Ebb	2
B24	27991-3	B	Mid-Ebb	1
B24	27991-19	S	Mid-Flood	<1
B24	27991-20	M	Mid-Flood	1
B24	27991-21	B	Mid-Flood	<1
B25	27991-4	S	Mid-Ebb	1
B25	27991-5	M	Mid-Ebb	--
B25	27991-6	B	Mid-Ebb	<1
B25	27991-22	S	Mid-Flood	2
B25	27991-23	M	Mid-Flood	--
B25	27991-24	B	Mid-Flood	<1
B26	27991-7	S	Mid-Ebb	18
B26	27991-8	M	Mid-Ebb	150
B26	27991-9	B	Mid-Ebb	90
B26	27991-25	S	Mid-Flood	20
B26	27991-26	M	Mid-Flood	8
B26	27991-27	B	Mid-Flood	14

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (10/12/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> , cfu/100mL
B26	27991-1	M	Mid-Flood	5
B30	27991-16	S	Mid-Ebb	--
B30	27991-17	M	Mid-Ebb	<1
B30	27991-18	B	Mid-Ebb	--
B30	27991-49	S	Mid-Flood	--
B30	27991-50	M	Mid-Flood	<1
B30	27991-51	B	Mid-Flood	--
B30	27991-3	M	Mid-Ebb	<1
B31	27991-13	S	Mid-Ebb	--
B31	27991-14	M	Mid-Ebb	<1
B31	27991-15	B	Mid-Ebb	--
B31	27991-46	S	Mid-Flood	--
B31	27991-47	M	Mid-Flood	<1
B31	27991-48	B	Mid-Flood	--
B32	27991-10	S	Mid-Ebb	--
B32	27991-11	M	Mid-Ebb	<1
B32	27991-12	B	Mid-Ebb	--
B32	27991-43	S	Mid-Flood	--
B32	27991-44	M	Mid-Flood	<1
B32	27991-45	B	Mid-Flood	--
B33	27991-7	S	Mid-Ebb	<1
B33	27991-8	M	Mid-Ebb	<1
B33	27991-9	B	Mid-Ebb	3
B33	27991-40	S	Mid-Flood	<1
B33	27991-41	M	Mid-Flood	<1
B33	27991-42	B	Mid-Flood	8
B34	27991-4	S	Mid-Ebb	<1
B34	27991-5	M	Mid-Ebb	1
B34	27991-6	B	Mid-Ebb	<1
B34	27991-37	S	Mid-Flood	14
B34	27991-38	M	Mid-Flood	<1
B34	27991-39	B	Mid-Flood	<1
B35	27991-1	S	Mid-Ebb	<1
B35	27991-2	M	Mid-Ebb	<1
B35	27991-3	B	Mid-Ebb	<1
B35	27991-34	S	Mid-Flood	<1
B35	27991-35	M	Mid-Flood	<1
B35	27991-36	B	Mid-Flood	<1
B35	27991-1	S	Mid-Flood	<1
B7	27991-1	S	Mid-Ebb	--
B7	27991-2	M	Mid-Ebb	490
B7	27991-3	B	Mid-Ebb	--
B7	27991-43	S	Mid-Flood	--
B7	27991-44	M	Mid-Flood	320
B7	27991-45	B	Mid-Flood	--
B8	27991-4	S	Mid-Ebb	1800
B8	27991-5	M	Mid-Ebb	1300
B8	27991-6	B	Mid-Ebb	1200
B8	27991-46	S	Mid-Flood	48

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (10/12/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> , cfu/100mL
B8	27991-47	M	Mid-Flood	70
B8	27991-48	B	Mid-Flood	150
B9	27991-7	S	Mid-Ebb	120
B9	27991-8	M	Mid-Ebb	--
B9	27991-9	B	Mid-Ebb	310
B9	27991-49	S	Mid-Flood	800
B9	27991-50	M	Mid-Flood	--
B9	27991-51	B	Mid-Flood	180
EM1	27991-19	S	Mid-Ebb	18
EM1	27991-20	M	Mid-Ebb	10
EM1	27991-21	B	Mid-Ebb	11
EM1	27991-52	S	Mid-Flood	16
EM1	27991-53	M	Mid-Flood	17
EM1	27991-54	B	Mid-Flood	14
EM2	27991-22	S	Mid-Ebb	2
EM2	27991-23	M	Mid-Ebb	2
EM2	27991-24	B	Mid-Ebb	<1
EM2	27991-55	S	Mid-Flood	9
EM2	27991-56	M	Mid-Flood	10
EM2	27991-57	B	Mid-Flood	12
EM3	27991-10	S	Mid-Ebb	<1
EM3	27991-11	M	Mid-Ebb	<1
EM3	27991-12	B	Mid-Ebb	<1
EM3	27991-28	S	Mid-Flood	6
EM3	27991-29	M	Mid-Flood	5
EM3	27991-30	B	Mid-Flood	1
F1	27991-3	B	Mid-Ebb	8
F1	27991-16	S	Mid-Ebb	2
F1	27991-17	M	Mid-Ebb	9
F1	27991-18	B	Mid-Ebb	6
F1	27991-34	S	Mid-Flood	13
F1	27991-35	M	Mid-Flood	14
F1	27991-36	B	Mid-Flood	4
F4	27991-25	S	Mid-Ebb	1100
F4	27991-26	M	Mid-Ebb	920
F4	27991-27	B	Mid-Ebb	740
F4	27991-58	S	Mid-Flood	56
F4	27991-59	M	Mid-Flood	46
F4	27991-60	B	Mid-Flood	52
F4	27991-2	S	Mid-Ebb	1300
F5	27991-40	S	Mid-Ebb	180
F5	27991-41	M	Mid-Ebb	320
F5	27991-42	B	Mid-Ebb	510
F5	27991-82	S	Mid-Flood	6
F5	27991-83	M	Mid-Flood	20
F5	27991-84	B	Mid-Flood	6
F5	27991-2	S	Mid-Ebb	210
JM3	27991-16	S	Mid-Ebb	52
JM3	27991-17	M	Mid-Ebb	61

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (10/12/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> , cfu/100mL
JM3	27991-18	B	Mid-Ebb	52
JM3	27991-49	S	Mid-Flood	66
JM3	27991-50	M	Mid-Flood	73
JM3	27991-51	B	Mid-Flood	120
JM3	27991-1	B	Mid-Flood	94
MM13	27991-13	S	Mid-Ebb	<1
MM13	27991-14	M	Mid-Ebb	<1
MM13	27991-15	B	Mid-Ebb	<1
MM13	27991-31	S	Mid-Flood	<1
MM13	27991-32	M	Mid-Flood	<1
MM13	27991-33	B	Mid-Flood	<1
SM12	27991-1	S	Mid-Ebb	27
SM12	27991-2	M	Mid-Ebb	38
SM12	27991-3	B	Mid-Ebb	34
SM12	27991-10	S	Mid-Flood	6
SM12	27991-11	M	Mid-Flood	5
SM12	27991-12	B	Mid-Flood	6
SM12	27991-1	B	Mid-Flood	9
SM17	27991-4	S	Mid-Ebb	<1
SM17	27991-5	M	Mid-Ebb	<1
SM17	27991-6	B	Mid-Ebb	<1
SM17	27991-13	S	Mid-Flood	<1
SM17	27991-14	M	Mid-Flood	2
SM17	27991-15	B	Mid-Flood	<1
SM2	27991-19	S	Mid-Ebb	2
SM2	27991-20	M	Mid-Ebb	4
SM2	27991-21	B	Mid-Ebb	<1
SM2	27991-52	S	Mid-Flood	<1
SM2	27991-53	M	Mid-Flood	1
SM2	27991-54	B	Mid-Flood	22
SM3	27991-22	S	Mid-Ebb	12
SM3	27991-23	M	Mid-Ebb	33
SM3	27991-24	B	Mid-Ebb	46
SM3	27991-55	S	Mid-Flood	410
SM3	27991-56	M	Mid-Flood	240
SM3	27991-57	B	Mid-Flood	400
SM6	27991-7	S	Mid-Ebb	<1
SM6	27991-8	M	Mid-Ebb	<1
SM6	27991-9	B	Mid-Ebb	2
SM6	27991-16	S	Mid-Flood	<1
SM6	27991-17	M	Mid-Flood	<1
SM6	27991-18	B	Mid-Flood	<1
VM1	27991-10	S	Mid-Ebb	34
VM1	27991-11	M	Mid-Ebb	68
VM1	27991-12	B	Mid-Ebb	99
VM1	27991-43	S	Mid-Flood	94
VM1	27991-44	M	Mid-Flood	130
VM1	27991-45	B	Mid-Flood	38
VM12	27991-31	S	Mid-Ebb	16000

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (10/12/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> , cfu/100mL
VM12	27991-32	M	Mid-Ebb	11000
VM12	27991-33	B	Mid-Ebb	6000
VM12	27991-73	S	Mid-Flood	300
VM12	27991-74	M	Mid-Flood	32
VM12	27991-75	B	Mid-Flood	700
VM12	27991-3	M	Mid-Ebb	9200
VM14	27991-25	S	Mid-Ebb	420
VM14	27991-26	M	Mid-Ebb	610
VM14	27991-27	B	Mid-Ebb	660
VM14	27991-67	S	Mid-Flood	170
VM14	27991-68	M	Mid-Flood	240
VM14	27991-69	B	Mid-Flood	180
VM15	27991-37	S	Mid-Ebb	1700
VM15	27991-38	M	Mid-Ebb	1600
VM15	27991-39	B	Mid-Ebb	2400
VM15	27991-76	S	Mid-Flood	4000
VM15	27991-77	M	Mid-Flood	4500
VM15	27991-78	B	Mid-Flood	5500
VM2	27991-1	S	Mid-Ebb	56
VM2	27991-2	M	Mid-Ebb	68
VM2	27991-3	B	Mid-Ebb	68
VM2	27991-34	S	Mid-Flood	36
VM2	27991-35	M	Mid-Flood	96
VM2	27991-36	B	Mid-Flood	130
VM4	27991-7	S	Mid-Ebb	840
VM4	27991-8	M	Mid-Ebb	480
VM4	27991-9	B	Mid-Ebb	480
VM4	27991-46	S	Mid-Flood	440
VM4	27991-47	M	Mid-Flood	780
VM4	27991-48	B	Mid-Flood	1300
VM5	27991-13	S	Mid-Ebb	2300
VM5	27991-14	M	Mid-Ebb	2800
VM5	27991-15	B	Mid-Ebb	2400
VM5	27991-52	S	Mid-Flood	4200
VM5	27991-53	M	Mid-Flood	5200
VM5	27991-54	B	Mid-Flood	3600
VM7	27991-25	S	Mid-Ebb	1600
VM7	27991-26	M	Mid-Ebb	1500
VM7	27991-27	B	Mid-Ebb	1500
VM7	27991-64	S	Mid-Flood	5600
VM7	27991-65	M	Mid-Flood	6600
VM7	27991-66	B	Mid-Flood	7200
VM8	27991-34	S	Mid-Ebb	5600
VM8	27991-35	M	Mid-Ebb	5200
VM8	27991-36	B	Mid-Ebb	5000
VM8	27991-73	S	Mid-Flood	9200
VM8	27991-74	M	Mid-Flood	13000
VM8	27991-75	B	Mid-Flood	14000
WM1	27991-28	S	Mid-Ebb	1400

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (10/12/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> , cfu/100mL
WM1	27991-29	M	Mid-Ebb	1300
WM1	27991-30	B	Mid-Ebb	420
WM1	27991-61	S	Mid-Flood	7100
WM1	27991-62	M	Mid-Flood	2000
WM1	27991-63	B	Mid-Flood	2000
WM2	27991-31	S	Mid-Ebb	4400
WM2	27991-32	M	Mid-Ebb	4400
WM2	27991-33	B	Mid-Ebb	4700
WM2	27991-70	S	Mid-Flood	600
WM2	27991-71	M	Mid-Flood	840
WM2	27991-72	B	Mid-Flood	780
WM4	27991-34	S	Mid-Ebb	980
WM4	27991-35	M	Mid-Ebb	1200
WM4	27991-36	B	Mid-Ebb	1800
WM4	27991-76	S	Mid-Flood	30
WM4	27991-77	M	Mid-Flood	1
WM4	27991-78	B	Mid-Flood	29
WSD10	27991-4	S	Mid-Ebb	80
WSD10	27991-5	M	Mid-Ebb	54
WSD10	27991-6	B	Mid-Ebb	61
WSD10	27991-37	S	Mid-Flood	75
WSD10	27991-38	M	Mid-Flood	66
WSD10	27991-39	B	Mid-Flood	110
WSD11	27991-7	S	Mid-Ebb	84
WSD11	27991-8	M	Mid-Ebb	65
WSD11	27991-9	B	Mid-Ebb	96
WSD11	27991-40	S	Mid-Flood	26
WSD11	27991-41	M	Mid-Flood	140
WSD11	27991-42	B	Mid-Flood	100
WSD12	27991-13	S	Mid-Ebb	<1
WSD12	27991-14	M	Mid-Ebb	6
WSD12	27991-15	B	Mid-Ebb	11
WSD12	27991-46	S	Mid-Flood	24
WSD12	27991-47	M	Mid-Flood	46
WSD12	27991-48	B	Mid-Flood	15
WSD13	27991-25	S	Mid-Ebb	4000
WSD13	27991-26	M	Mid-Ebb	620
WSD13	27991-27	B	Mid-Ebb	96
WSD13	27991-64	S	Mid-Flood	14
WSD13	27991-65	M	Mid-Flood	11
WSD13	27991-66	B	Mid-Flood	34
WSD15	27991-28	S	Mid-Ebb	180
WSD15	27991-29	M	Mid-Ebb	170
WSD15	27991-30	B	Mid-Ebb	140
WSD15	27991-67	S	Mid-Flood	150
WSD15	27991-68	M	Mid-Flood	200
WSD15	27991-69	B	Mid-Flood	120
WSD15	27991-2	M	Mid-Ebb	190
WSD17	27991-31	S	Mid-Ebb	2500

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (10/12/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli, cfu/100mL</i>
WSD17	27991-32	M	Mid-Ebb	1800
WSD17	27991-33	B	Mid-Ebb	290
WSD17	27991-70	S	Mid-Flood	23
WSD17	27991-71	M	Mid-Flood	96
WSD17	27991-72	B	Mid-Flood	140
WSD18	27991-19	S	Mid-Ebb	4000
WSD18	27991-20	M	Mid-Ebb	3000
WSD18	27991-21	B	Mid-Ebb	4200
WSD18	27991-58	S	Mid-Flood	12000
WSD18	27991-59	M	Mid-Flood	7600
WSD18	27991-60	B	Mid-Flood	14000
WSD19	27991-22	S	Mid-Ebb	5100
WSD19	27991-23	M	Mid-Ebb	4000
WSD19	27991-24	B	Mid-Ebb	4900
WSD19	27991-61	S	Mid-Flood	9600
WSD19	27991-62	M	Mid-Flood	8600
WSD19	27991-63	B	Mid-Flood	6100
WSD20	27991-28	S	Mid-Ebb	6400
WSD20	27991-29	M	Mid-Ebb	7600
WSD20	27991-30	B	Mid-Ebb	5000
WSD20	27991-67	S	Mid-Flood	9900
WSD20	27991-68	M	Mid-Flood	9800
WSD20	27991-69	B	Mid-Flood	15000
WSD20	27991-1	M	Mid-Flood	8900
WSD21	27991-31	S	Mid-Ebb	26
WSD21	27991-32	M	Mid-Ebb	12
WSD21	27991-33	B	Mid-Ebb	17
WSD21	27991-64	S	Mid-Flood	8
WSD21	27991-65	M	Mid-Flood	10
WSD21	27991-66	B	Mid-Flood	11
WSD22	27991-16	S	Mid-Ebb	4500
WSD22	27991-17	M	Mid-Ebb	1200
WSD22	27991-18	B	Mid-Ebb	680
WSD22	27991-55	S	Mid-Flood	2000
WSD22	27991-56	M	Mid-Flood	2300
WSD22	27991-57	B	Mid-Flood	2500
WSD4	27991-22	S	Mid-Ebb	1400
WSD4	27991-23	M	Mid-Ebb	520
WSD4	27991-24	B	Mid-Ebb	700
WSD4	27991-64	S	Mid-Flood	330
WSD4	27991-65	M	Mid-Flood	220
WSD4	27991-66	B	Mid-Flood	120
WSD5	27991-28	S	Mid-Ebb	1200
WSD5	27991-29	M	Mid-Ebb	1100
WSD5	27991-30	B	Mid-Ebb	1400
WSD5	27991-70	S	Mid-Flood	99
WSD5	27991-71	M	Mid-Flood	190
WSD5	27991-72	B	Mid-Flood	180
WSD6	27991-1	S	Mid-Ebb	170

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (10/12/2017)

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli, cfu/100mL</i>
WSD6	27991-2	M	Mid-Ebb	--
WSD6	27991-3	B	Mid-Ebb	280
WSD6	27991-40	S	Mid-Flood	44
WSD6	27991-41	M	Mid-Flood	--
WSD6	27991-42	B	Mid-Flood	130
WSD6	27991-2	B	Mid-Ebb	240
WSD7	27991-4	S	Mid-Ebb	1700
WSD7	27991-5	M	Mid-Ebb	2000
WSD7	27991-6	B	Mid-Ebb	1700
WSD7	27991-43	S	Mid-Flood	3000
WSD7	27991-44	M	Mid-Flood	2900
WSD7	27991-45	B	Mid-Flood	2400
WSD9	27991-10	S	Mid-Ebb	710
WSD9	27991-11	M	Mid-Ebb	300
WSD9	27991-12	B	Mid-Ebb	140
WSD9	27991-49	S	Mid-Flood	2100
WSD9	27991-50	M	Mid-Flood	840
WSD9	27991-51	B	Mid-Flood	780
WSD9	27991-3	S	Mid-Ebb	740

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (20/1/2018)

Sample ID	Sample No	Depth	Tide	E.coli (cfu/100mL)
B10	28202-10	s	Mid-Ebb	50
B10	28202-12	b	Mid-Ebb	26
B10	28202-53	s	Mid-Flood	1
B10	28202-55	b	Mid-Flood	7
B11	28202-14	m	Mid-Ebb	11
B11	28202-57	m	Mid-Flood	2
B12	28202-16	s	Mid-Ebb	79
B12	28202-18	b	Mid-Ebb	220
B12	28202-59	s	Mid-Flood	2
B12	28202-61	b	Mid-Flood	2
B13	28202-19	s	Mid-Ebb	20
B13	28202-20	m	Mid-Ebb	9
B13	28202-21	b	Mid-Ebb	220
B13	28202-62	s	Mid-Flood	2
B13	28202-63	m	Mid-Flood	<1
B13	28202-64	b	Mid-Flood	8
B14	28202-23	m	Mid-Ebb	15
B14	28202-66	m	Mid-Flood	<1
B24	28213-1	s	Mid-Ebb	<1
B24	28213-2	m	Mid-Ebb	2
B24	28213-3	b	Mid-Ebb	<1
B24	28213-16	s	Mid-Flood	<1
B24	28213-17	m	Mid-Flood	<1
B24	28213-18	b	Mid-Flood	<1
B25	28213-7	s	Mid-Ebb	<1
B25	28213-9	b	Mid-Ebb	<1
B25	28213-22	s	Mid-Flood	<1
B25	28213-24	b	Mid-Flood	<1
B26	28213-4	s	Mid-Ebb	1
B26	28213-5	m	Mid-Ebb	<1
B26	28213-6	b	Mid-Ebb	<1
B26	28213-19	s	Mid-Flood	<1
B26	28213-20	m	Mid-Flood	<1
B26	28213-21	b	Mid-Flood	<1
B30	28212-17	m	Mid-Ebb	<1
B30	28212-51	m	Mid-Flood	<1
B31	28212-20	m	Mid-Ebb	<1
B31	28212-54	m	Mid-Flood	<1
B32	28212-23	m	Mid-Ebb	<1
B32	28212-57	m	Mid-Flood	<1
B33	28212-25	s	Mid-Ebb	<1
B33	28212-26	m	Mid-Ebb	<1
B33	28212-27	b	Mid-Ebb	<1

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (20/1/2018)

Sample ID	Sample No	Depth	Tide	E.coli (cfu/100mL)
B33	28212-59	s	Mid-Flood	<1
B33	28212-60	m	Mid-Flood	1
B33	28212-61	b	Mid-Flood	<1
B34	28212-28	s	Mid-Ebb	<1
B34	28212-29	m	Mid-Ebb	<1
B34	28212-30	b	Mid-Ebb	<1
B34	28212-62	s	Mid-Flood	<1
B34	28212-63	m	Mid-Flood	<1
B34	28212-64	b	Mid-Flood	<1
B35	28212-31	s	Mid-Ebb	<1
B35	28212-32	m	Mid-Ebb	<1
B35	28212-33	b	Mid-Ebb	<1
B35	28212-65	s	Mid-Flood	<1
B35	28212-66	m	Mid-Flood	<1
B35	28212-67	b	Mid-Flood	<1
B7	28202-2	m	Mid-Ebb	36
B7	28202-45	m	Mid-Flood	4
B8	28202-4	s	Mid-Ebb	32
B8	28202-5	m	Mid-Ebb	210
B8	28202-6	b	Mid-Ebb	180
B8	28202-47	s	Mid-Flood	2
B8	28202-48	m	Mid-Flood	23
B8	28202-49	b	Mid-Flood	2
B9	28202-7	s	Mid-Ebb	74
B9	28202-9	b	Mid-Ebb	120
B9	28202-50	s	Mid-Flood	1
B9	28202-52	b	Mid-Flood	<1
EM1	28211-22	s	Mid-Ebb	<1
EM1	28211-23	m	Mid-Ebb	<1
EM1	28211-24	b	Mid-Ebb	5
EM1	28211-59	s	Mid-Flood	130
EM1	28211-60	m	Mid-Flood	54
EM1	28211-61	b	Mid-Flood	40
EM2	28211-25	s	Mid-Ebb	<1
EM2	28211-26	m	Mid-Ebb	5
EM2	28211-27	b	Mid-Ebb	1
EM2	28211-62	s	Mid-Flood	56
EM2	28211-63	m	Mid-Flood	32
EM2	28211-64	b	Mid-Flood	46
EM3	28213-10	s	Mid-Ebb	<1
EM3	28213-11	m	Mid-Ebb	<1
EM3	28213-12	b	Mid-Ebb	<1
EM3	28213-25	s	Mid-Flood	<1

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (20/1/2018)

Sample ID	Sample No	Depth	Tide	E.coli (cfu/100mL)
EM3	28213-26	m	Mid-Flood	<1
EM3	28213-27	b	Mid-Flood	<1
F1	28211-28	s	Mid-Ebb	1
F1	28211-29	m	Mid-Ebb	<1
F1	28211-30	b	Mid-Ebb	<1
F1	28211-65	s	Mid-Flood	46
F1	28211-66	m	Mid-Flood	56
F1	28211-67	b	Mid-Flood	52
F4	28212-4	s	Mid-Ebb	50
F4	28212-5	m	Mid-Ebb	60
F4	28212-6	b	Mid-Ebb	36
F4	28212-38	s	Mid-Flood	140
F4	28212-39	m	Mid-Flood	360
F4	28212-40	b	Mid-Flood	4
F5	28202-28	s	Mid-Ebb	120
F5	28202-29	m	Mid-Ebb	100
F5	28202-30	b	Mid-Ebb	99
F5	28202-71	s	Mid-Flood	8
F5	28202-72	m	Mid-Flood	19
F5	28202-73	b	Mid-Flood	4
JM3	28211-31	s	Mid-Ebb	<1
JM3	28211-32	m	Mid-Ebb	<1
JM3	28211-33	b	Mid-Ebb	15
JM3	28211-68	s	Mid-Flood	90
JM3	28211-69	m	Mid-Flood	62
JM3	28211-70	b	Mid-Flood	58
MW13	28213-13	s	Mid-Ebb	<1
MW13	28213-14	m	Mid-Ebb	<1
MW13	28213-15	b	Mid-Ebb	<1
MW13	28213-28	s	Mid-Flood	<1
MW13	28213-29	m	Mid-Flood	<1
MW13	28213-30	b	Mid-Flood	<1
SM12	28213-4	s	Mid-Ebb	4
SM12	28213-5	m	Mid-Ebb	5
SM12	28213-6	b	Mid-Ebb	2
SM12	28213-13	s	Mid-Flood	12
SM12	28213-14	m	Mid-Flood	11
SM12	28213-15	b	Mid-Flood	5
SM17	28213-7	s	Mid-Ebb	<1
SM17	28213-8	m	Mid-Ebb	<1
SM17	28213-9	b	Mid-Ebb	<1
SM17	28213-16	s	Mid-Flood	<1
SM17	28213-17	m	Mid-Flood	<1

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (20/1/2018)

Sample ID	Sample No	Depth	Tide	E.coli (cfu/100mL)
SM17	28213-18	b	Mid-Flood	<1
SM2	28212-13	s	Mid-Ebb	<1
SM2	28212-14	m	Mid-Ebb	<1
SM2	28212-15	b	Mid-Ebb	<1
SM2	28212-47	s	Mid-Flood	<1
SM2	28212-48	m	Mid-Flood	<1
SM2	28212-49	b	Mid-Flood	4
SM3	28212-7	s	Mid-Ebb	<1
SM3	28212-8	m	Mid-Ebb	<1
SM3	28212-9	b	Mid-Ebb	<1
SM3	28212-41	s	Mid-Flood	7
SM3	28212-42	m	Mid-Flood	6
SM3	28212-43	b	Mid-Flood	94
SM6	28213-1	s	Mid-Ebb	<1
SM6	28213-2	m	Mid-Ebb	<1
SM6	28213-3	b	Mid-Ebb	<1
SM6	28213-10	s	Mid-Flood	5
SM6	28213-11	m	Mid-Flood	<1
SM6	28213-12	b	Mid-Flood	<1
VM1	28211-16	s	Mid-Ebb	7
VM1	28211-17	m	Mid-Ebb	6
VM1	28211-18	b	Mid-Ebb	19
VM1	28211-53	s	Mid-Flood	230
VM1	28211-54	m	Mid-Flood	120
VM1	28211-55	b	Mid-Flood	130
VM12	28202-40	s	Mid-Ebb	62
VM12	28202-41	m	Mid-Ebb	170
VM12	28202-42	b	Mid-Ebb	130
VM12	28202-83	s	Mid-Flood	20
VM12	28202-84	m	Mid-Flood	34
VM12	28202-85	b	Mid-Flood	9
VM14	28202-34	s	Mid-Ebb	340
VM14	28202-35	m	Mid-Ebb	76
VM14	28202-36	b	Mid-Ebb	250
VM14	28202-77	s	Mid-Flood	100
VM14	28202-78	m	Mid-Flood	74
VM14	28202-79	b	Mid-Flood	98
VM15	28210-31	s	Mid-Ebb	150
VM15	28210-32	m	Mid-Ebb	98
VM15	28210-33	b	Mid-Ebb	92
VM15	28210-71	s	Mid-Flood	820
VM15	28210-72	m	Mid-Flood	1500
VM15	28210-73	b	Mid-Flood	840

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (20/1/2018)

Sample ID	Sample No	Depth	Tide	E.coli (cfu/100mL)
VM2	28211-7	s	Mid-Ebb	2
VM2	28211-8	m	Mid-Ebb	8
VM2	28211-9	b	Mid-Ebb	6
VM2	28211-44	s	Mid-Flood	120
VM2	28211-45	m	Mid-Flood	170
VM2	28211-46	b	Mid-Flood	110
VM4	28210-4	s	Mid-Ebb	45
VM4	28210-5	m	Mid-Ebb	100
VM4	28210-6	b	Mid-Ebb	65
VM4	28210-44	s	Mid-Flood	180
VM4	28210-45	m	Mid-Flood	200
VM4	28210-46	b	Mid-Flood	800
VM5	28210-7	s	Mid-Ebb	12
VM5	28210-8	m	Mid-Ebb	21
VM5	28210-9	b	Mid-Ebb	73
VM5	28210-47	s	Mid-Flood	1900
VM5	28210-48	m	Mid-Flood	2500
VM5	28210-49	b	Mid-Flood	2300
VM7	28210-19	s	Mid-Ebb	67
VM7	28210-20	m	Mid-Ebb	45
VM7	28210-21	b	Mid-Ebb	62
VM7	28210-59	s	Mid-Flood	1800
VM7	28210-60	m	Mid-Flood	2400
VM7	28210-61	b	Mid-Flood	2300
VM8	28210-22	s	Mid-Ebb	1700
VM8	28210-23	m	Mid-Ebb	560
VM8	28210-24	b	Mid-Ebb	880
VM8	28210-62	s	Mid-Flood	150
VM8	28210-63	m	Mid-Flood	160
VM8	28210-64	b	Mid-Flood	250
WM1	28212-1	s	Mid-Ebb	<1
WM1	28212-2	m	Mid-Ebb	<1
WM1	28212-3	b	Mid-Ebb	4
WM1	28212-35	s	Mid-Flood	26
WM1	28212-36	m	Mid-Flood	10
WM1	28212-37	b	Mid-Flood	12
WM2	28210-28	s	Mid-Ebb	5
WM2	28210-29	m	Mid-Ebb	35
WM2	28210-30	b	Mid-Ebb	190
WM2	28210-68	s	Mid-Flood	58
WM2	28210-69	m	Mid-Flood	66
WM2	28210-70	b	Mid-Flood	140
WM4	28202-25	s	Mid-Ebb	14

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (20/1/2018)

Sample ID	Sample No	Depth	Tide	E.coli (cfu/100mL)
WM4	28202-26	m	Mid-Ebb	84
WM4	28202-27	b	Mid-Ebb	130
WM4	28202-68	s	Mid-Flood	<1
WM4	28202-69	m	Mid-Flood	<1
WM4	28202-70	b	Mid-Flood	<1
WSD10	28211-1	s	Mid-Ebb	2
WSD10	28211-2	m	Mid-Ebb	7
WSD10	28211-3	b	Mid-Ebb	21
WSD10	28211-38	s	Mid-Flood	130
WSD10	28211-39	m	Mid-Flood	120
WSD10	28211-40	b	Mid-Flood	110
WSD11	28211-4	s	Mid-Ebb	25
WSD11	28211-5	m	Mid-Ebb	12
WSD11	28211-6	b	Mid-Ebb	20
WSD11	28211-41	s	Mid-Flood	92
WSD11	28211-42	m	Mid-Flood	70
WSD11	28211-43	b	Mid-Flood	160
WSD12	28211-34	s	Mid-Ebb	<1
WSD12	28211-35	m	Mid-Ebb	7
WSD12	28211-36	b	Mid-Ebb	19
WSD12	28211-71	s	Mid-Flood	60
WSD12	28211-72	m	Mid-Flood	64
WSD12	28211-73	b	Mid-Flood	67
WSD13	28211-19	s	Mid-Ebb	3
WSD13	28211-20	m	Mid-Ebb	<1
WSD13	28211-21	b	Mid-Ebb	<1
WSD13	28211-56	s	Mid-Flood	48
WSD13	28211-57	m	Mid-Flood	140
WSD13	28211-58	b	Mid-Flood	98
WSD15	28211-13	s	Mid-Ebb	21
WSD15	28211-14	m	Mid-Ebb	20
WSD15	28211-15	b	Mid-Ebb	47
WSD15	28211-50	s	Mid-Flood	380
WSD15	28211-51	m	Mid-Flood	400
WSD15	28211-52	b	Mid-Flood	600
WSD17	28211-10	s	Mid-Ebb	3300
WSD17	28211-11	m	Mid-Ebb	3600
WSD17	28211-12	b	Mid-Ebb	480
WSD17	28211-47	s	Mid-Flood	480
WSD17	28211-48	m	Mid-Flood	560
WSD17	28211-49	b	Mid-Flood	460
WSD18	28210-13	s	Mid-Ebb	500
WSD18	28210-14	m	Mid-Ebb	790

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (20/1/2018)

Sample ID	Sample No	Depth	Tide	E.coli (cfu/100mL)
WSD18	28210-15	b	Mid-Ebb	420
WSD18	28210-53	s	Mid-Flood	6000
WSD18	28210-54	m	Mid-Flood	4000
WSD18	28210-55	b	Mid-Flood	6200
WSD19	28210-16	s	Mid-Ebb	170
WSD19	28210-17	m	Mid-Ebb	180
WSD19	28210-18	b	Mid-Ebb	190
WSD19	28210-56	s	Mid-Flood	4000
WSD19	28210-57	m	Mid-Flood	3100
WSD19	28210-58	b	Mid-Flood	2200
WSD20	28210-25	s	Mid-Ebb	100
WSD20	28210-26	m	Mid-Ebb	250
WSD20	28210-27	b	Mid-Ebb	140
WSD20	28210-65	s	Mid-Flood	340
WSD20	28210-66	m	Mid-Flood	230
WSD20	28210-67	b	Mid-Flood	440
WSD21	28212-10	s	Mid-Ebb	<1
WSD21	28212-11	m	Mid-Ebb	<1
WSD21	28212-12	b	Mid-Ebb	<1
WSD21	28212-44	s	Mid-Flood	140
WSD21	28212-45	m	Mid-Flood	140
WSD21	28212-46	b	Mid-Flood	56
WSD22	28210-10	s	Mid-Ebb	380
WSD22	28210-11	m	Mid-Ebb	560
WSD22	28210-12	b	Mid-Ebb	370
WSD22	28210-50	s	Mid-Flood	3900
WSD22	28210-51	m	Mid-Flood	6700
WSD22	28210-52	b	Mid-Flood	3400
WSD4	28202-31	s	Mid-Ebb	16
WSD4	28202-32	m	Mid-Ebb	360
WSD4	28202-33	b	Mid-Ebb	150
WSD4	28202-74	s	Mid-Flood	48
WSD4	28202-75	m	Mid-Flood	29
WSD4	28202-76	b	Mid-Flood	16
WSD5	28202-37	s	Mid-Ebb	120
WSD5	28202-38	m	Mid-Ebb	160
WSD5	28202-39	b	Mid-Ebb	210
WSD5	28202-80	s	Mid-Flood	230
WSD5	28202-81	m	Mid-Flood	560
WSD5	28202-82	b	Mid-Flood	72
WSD6	28210-34	s	Mid-Ebb	45
WSD6	28210-36	b	Mid-Ebb	58
WSD6	28210-74	s	Mid-Flood	520

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (20/1/2018)

Sample ID	Sample No	Depth	Tide	E.coli (cfu/100mL)
WSD6	28210-76	b	Mid-Flood	480
WSD7	28210-37	s	Mid-Ebb	190
WSD7	28210-38	m	Mid-Ebb	230
WSD7	28210-39	b	Mid-Ebb	2600
WSD7	28210-77	s	Mid-Flood	640
WSD7	28210-78	m	Mid-Flood	780
WSD7	28210-79	b	Mid-Flood	830
WSD9	28210-1	s	Mid-Ebb	5
WSD9	28210-2	m	Mid-Ebb	10
WSD9	28210-3	b	Mid-Ebb	12
WSD9	28210-41	s	Mid-Flood	1900
WSD9	28210-42	m	Mid-Flood	940
WSD9	28210-43	b	Mid-Flood	1200

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (4/2/2018)

Sample ID	Sample No	Depth	Tide	E.coli (cfu/100mL)
B10	28291-19	b	Mid-Ebb	N/A
B10	28291-20	b	Mid-Flood	N/A
B10	28291-21	m	Mid-Ebb	8
B10	28291-62	m	Mid-Flood	2
B10	28291-63	s	Mid-Ebb	N/A
B10	28291-64	s	Mid-Flood	N/A
B11	28291-22	b	Mid-Ebb	N/A
B11	28291-23	b	Mid-Flood	N/A
B11	28291-24	m	Mid-Ebb	7
B11	28291-65	m	Mid-Flood	1
B11	28291-66	s	Mid-Ebb	N/A
B11	28291-67	s	Mid-Flood	N/A
B12	28291-25	b	Mid-Ebb	140
B12	28291-26	b	Mid-Flood	<1
B12	28291-27	m	Mid-Ebb	N/A
B12	28291-68	m	Mid-Flood	N/A
B12	28291-69	s	Mid-Ebb	120
B12	28291-70	s	Mid-Flood	<1
B13	28291-28	b	Mid-Ebb	80
B13	28291-29	b	Mid-Flood	36
B13	28291-30	m	Mid-Ebb	78
B13	28291-43	m	Mid-Flood	58
B13	28291-71	s	Mid-Ebb	110
B13	28291-73	s	Mid-Flood	45
B14	28291-7	b	Mid-Ebb	N/A
B14	28291-8	b	Mid-Flood	N/A
B14	28291-9	m	Mid-Ebb	4
B14	28291-50	m	Mid-Flood	<1
B14	28291-51	s	Mid-Ebb	N/A
B14	28291-52	s	Mid-Flood	N/A
B24	28295-1	s	Mid-Ebb	3
B24	28295-2	m	Mid-Ebb	<1
B24	28295-3	b	Mid-Ebb	2
B24	28295-16	s	Mid-Flood	3
B24	28295-17	m	Mid-Flood	10
B24	28295-18	b	Mid-Flood	8
B25	28295-4	s	Mid-Ebb	<1
B25	28295-5	m	Mid-Ebb	N/A
B25	28295-6	b	Mid-Ebb	4
B25	28295-19	s	Mid-Flood	3
B25	28295-20	m	Mid-Flood	N/A
B25	28295-21	b	Mid-Flood	4
B26	28295-7	s	Mid-Ebb	3

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (4/2/2018)

Sample ID	Sample No	Depth	Tide	E.coli (cfu/100mL)
B26	28295-8	m	Mid-Ebb	18
B26	28295-9	b	Mid-Ebb	13
B26	28295-22	s	Mid-Flood	42
B26	28295-23	m	Mid-Flood	60
B26	28295-24	b	Mid-Flood	39
B30	28294-16	s	Mid-Ebb	N/A
B30	28294-17	m	Mid-Ebb	5
B30	28294-18	b	Mid-Ebb	N/A
B30	28294-50	s	Mid-Flood	N/A
B30	28294-51	m	Mid-Flood	45
B30	28294-52	b	Mid-Flood	N/A
B31	28294-19	s	Mid-Ebb	N/A
B31	28294-20	m	Mid-Ebb	<1
B31	28294-21	b	Mid-Ebb	N/A
B31	28294-53	s	Mid-Flood	N/A
B31	28294-54	m	Mid-Flood	2
B31	28294-55	b	Mid-Flood	N/A
B32	28294-22	s	Mid-Ebb	46
B32	28294-23	m	Mid-Ebb	16
B32	28294-24	b	Mid-Ebb	28
B32	28294-56	s	Mid-Flood	N/A
B32	28294-57	m	Mid-Flood	<1
B32	28294-58	b	Mid-Flood	N/A
B33	28294-25	s	Mid-Ebb	1
B33	28294-26	m	Mid-Ebb	<1
B33	28294-27	b	Mid-Ebb	2
B33	28294-59	s	Mid-Flood	<1
B33	28294-60	m	Mid-Flood	<1
B33	28294-61	b	Mid-Flood	<1
B34	28294-28	s	Mid-Ebb	19
B34	28294-29	m	Mid-Ebb	2
B34	28294-30	b	Mid-Ebb	1
B34	28294-62	s	Mid-Flood	21
B34	28294-63	m	Mid-Flood	19
B34	28294-64	b	Mid-Flood	8
B35	28294-31	s	Mid-Ebb	<1
B35	28294-32	m	Mid-Ebb	<1
B35	28294-33	b	Mid-Ebb	<1
B35	28294-65	s	Mid-Flood	<1
B35	28294-66	m	Mid-Flood	<1
B35	28294-67	b	Mid-Flood	<1
B7	28291-10	s	Mid-Ebb	N/A
B7	28291-11	m	Mid-Ebb	N/A

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (4/2/2018)

Sample ID	Sample No	Depth	Tide	E.coli (cfu/100mL)
B7	28291-12	b	Mid-Ebb	11
B7	28291-53	s	Mid-Flood	12
B7	28291-54	m	Mid-Flood	N/A
B7	28291-55	b	Mid-Flood	N/A
B8	28291-13	s	Mid-Ebb	37
B8	28291-14	m	Mid-Ebb	<1
B8	28291-15	b	Mid-Ebb	23
B8	28291-56	s	Mid-Flood	3
B8	28291-57	m	Mid-Flood	26
B8	28291-58	b	Mid-Flood	<1
B9	28291-16	s	Mid-Ebb	46
B9	28291-17	m	Mid-Ebb	<1
B9	28291-18	b	Mid-Ebb	N/A
B9	28291-59	s	Mid-Flood	N/A
B9	28291-60	m	Mid-Flood	22
B9	28291-61	b	Mid-Flood	<1
EM1	28293-22	s	Mid-Ebb	24
EM1	28293-23	m	Mid-Ebb	22
EM1	28293-24	b	Mid-Ebb	12
EM1	28293-59	s	Mid-Flood	18
EM1	28293-60	m	Mid-Flood	14
EM1	28293-61	b	Mid-Flood	16
EM2	28293-25	s	Mid-Ebb	11
EM2	28293-26	m	Mid-Ebb	1
EM2	28293-27	b	Mid-Ebb	<1
EM2	28293-62	s	Mid-Flood	24
EM2	28293-63	m	Mid-Flood	29
EM2	28293-64	b	Mid-Flood	2
EM3	28295-10	s	Mid-Ebb	3
EM3	28295-11	m	Mid-Ebb	2
EM3	28295-12	b	Mid-Ebb	7
EM3	28295-25	s	Mid-Flood	24
EM3	28295-26	m	Mid-Flood	23
EM3	28295-27	b	Mid-Flood	20
F1	28293-28	s	Mid-Ebb	1
F1	28293-29	m	Mid-Ebb	<1
F1	28293-30	b	Mid-Ebb	<1
F1	28293-65	s	Mid-Flood	24
F1	28293-66	m	Mid-Flood	4
F1	28293-67	b	Mid-Flood	8
F4	28294-4	s	Mid-Ebb	9
F4	28294-5	m	Mid-Ebb	13
F4	28294-6	b	Mid-Ebb	12

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (4/2/2018)

Sample ID	Sample No	Depth	Tide	E.coli (cfu/100mL)
F4	28294-38	s	Mid-Flood	10
F4	28294-39	m	Mid-Flood	6
F4	28294-40	b	Mid-Flood	8
F5	28291-4	s	Mid-Ebb	8
F5	28291-5	m	Mid-Ebb	5
F5	28291-6	b	Mid-Ebb	11
F5	28291-47	s	Mid-Flood	2
F5	28291-48	m	Mid-Flood	7
F5	28291-49	b	Mid-Flood	19
JM3	28293-31	s	Mid-Ebb	26
JM3	28293-32	m	Mid-Ebb	40
JM3	28293-33	b	Mid-Ebb	39
JM3	28293-68	s	Mid-Flood	30
JM3	28293-69	m	Mid-Flood	47
JM3	28293-70	b	Mid-Flood	36
MW13	28295-13	s	Mid-Ebb	<1
MW13	28295-14	m	Mid-Ebb	<1
MW13	28295-15	b	Mid-Ebb	<1
MW13	28295-28	s	Mid-Flood	<1
MW13	28295-29	m	Mid-Flood	<1
MW13	28295-30	b	Mid-Flood	<1
SM12	28296-4	s	Mid-Ebb	<1
SM12	28296-5	m	Mid-Ebb	8
SM12	28296-6	b	Mid-Ebb	19
SM12	28296-13	s	Mid-Flood	27
SM12	28296-14	m	Mid-Flood	36
SM12	28296-15	b	Mid-Flood	41
SM17	28296-7	s	Mid-Ebb	7
SM17	28296-8	m	Mid-Ebb	19
SM17	28296-9	b	Mid-Ebb	7
SM17	28296-16	s	Mid-Flood	<1
SM17	28296-17	m	Mid-Flood	<1
SM17	28296-18	b	Mid-Flood	<1
SM2	28294-13	s	Mid-Ebb	<1
SM2	28294-14	m	Mid-Ebb	<1
SM2	28294-15	b	Mid-Ebb	<1
SM2	28294-47	s	Mid-Flood	<1
SM2	28294-48	m	Mid-Flood	6
SM2	28294-49	b	Mid-Flood	<1
SM3	28294-7	s	Mid-Ebb	3
SM3	28294-8	m	Mid-Ebb	<1
SM3	28294-9	b	Mid-Ebb	<1
SM3	28294-41	s	Mid-Flood	10

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (4/2/2018)

Sample ID	Sample No	Depth	Tide	E.coli (cfu/100mL)
SM3	28294-42	m	Mid-Flood	11
SM3	28294-43	b	Mid-Flood	<1
SM6	28296-1	s	Mid-Ebb	<1
SM6	28296-2	m	Mid-Ebb	<1
SM6	28296-3	b	Mid-Ebb	<1
SM6	28296-10	s	Mid-Flood	<1
SM6	28296-11	m	Mid-Flood	<1
SM6	28296-12	b	Mid-Flood	<1
VM1	28293-16	s	Mid-Ebb	300
VM1	28293-17	m	Mid-Ebb	130
VM1	28293-18	b	Mid-Ebb	170
VM1	28293-53	s	Mid-Flood	14
VM1	28293-54	m	Mid-Flood	19
VM1	28293-55	b	Mid-Flood	26
VM12	28291-40	s	Mid-Ebb	130
VM12	28291-41	m	Mid-Ebb	170
VM12	28291-42	b	Mid-Ebb	170
VM12	28291 83a	s	Mid-Flood	160
VM12	28291 84a	m	Mid-Flood	120
VM12	28291 85a	b	Mid-Flood	80
VM14	28291-34	s	Mid-Ebb	330
VM14	28291-35	m	Mid-Ebb	400
VM14	28291-36	b	Mid-Ebb	310
VM14	28291 77a	s	Mid-Flood	36
VM14	28291 78a	m	Mid-Flood	62
VM14	28291 79a	b	Mid-Flood	50
VM15	28292-31	s	Mid-Ebb	96
VM15	28292-32	m	Mid-Ebb	86
VM15	28292-33	b	Mid-Ebb	130
VM15	28292-71	s	Mid-Flood	210
VM15	28292-72	m	Mid-Flood	230
VM15	28292-73	b	Mid-Flood	230
VM2	28293-7	s	Mid-Ebb	24
VM2	28293-8	m	Mid-Ebb	49
VM2	28293-9	b	Mid-Ebb	60
VM2	28293-44	s	Mid-Flood	60
VM2	28293-45	m	Mid-Flood	16
VM2	28293-46	b	Mid-Flood	32
VM4	28292-4	s	Mid-Ebb	140
VM4	28292-5	m	Mid-Ebb	180
VM4	28292-6	b	Mid-Ebb	130
VM4	28292-44	s	Mid-Flood	160
VM4	28292-45	m	Mid-Flood	110

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (4/2/2018)

Sample ID	Sample No	Depth	Tide	E.coli (cfu/100mL)
VM4	28292-46	b	Mid-Flood	110
VM5	28292-7	s	Mid-Ebb	230
VM5	28292-8	m	Mid-Ebb	170
VM5	28292-9	b	Mid-Ebb	90
VM5	28292-47	s	Mid-Flood	200
VM5	28292-48	m	Mid-Flood	240
VM5	28292-49	b	Mid-Flood	180
VM7	28292-19	s	Mid-Ebb	70
VM7	28292-20	m	Mid-Ebb	130
VM7	28292-21	b	Mid-Ebb	88
VM7	28292-59	s	Mid-Flood	200
VM7	28292-60	m	Mid-Flood	210
VM7	28292-61	b	Mid-Flood	290
VM8	28292-22	s	Mid-Ebb	1000
VM8	28292-23	m	Mid-Ebb	220
VM8	28292-24	b	Mid-Ebb	88
VM8	28292-62	s	Mid-Flood	56
VM8	28292-63	m	Mid-Flood	58
VM8	28292-64	b	Mid-Flood	48
WM1	28294-1	s	Mid-Ebb	3
WM1	28294-2	m	Mid-Ebb	2
WM1	28294-3	b	Mid-Ebb	<1
WM1	28294-35	s	Mid-Flood	12
WM1	28294-36	m	Mid-Flood	7
WM1	28294-37	b	Mid-Flood	9
WM2	28292-28	s	Mid-Ebb	12
WM2	28292-29	m	Mid-Ebb	6
WM2	28292-30	b	Mid-Ebb	180
WM2	28292-68	s	Mid-Flood	34
WM2	28292-69	m	Mid-Flood	6
WM2	28292-70	b	Mid-Flood	28
WM4	28291-1	s	Mid-Ebb	<1
WM4	28291-2	m	Mid-Ebb	<1
WM4	28291-3	b	Mid-Ebb	<1
WM4	28291-44	s	Mid-Flood	<1
WM4	28291-45	m	Mid-Flood	1
WM4	28291-46	b	Mid-Flood	<1
WSD10	28293-1	s	Mid-Ebb	46
WSD10	28293-2	m	Mid-Ebb	87
WSD10	28293-3	b	Mid-Ebb	65
WSD10	28293-38	s	Mid-Flood	94
WSD10	28293-39	m	Mid-Flood	32
WSD10	28293-40	b	Mid-Flood	82

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (4/2/2018)

Sample ID	Sample No	Depth	Tide	E.coli (cfu/100mL)
WSD11	28293-4	s	Mid-Ebb	40
WSD11	28293-5	m	Mid-Ebb	65
WSD11	28293-6	b	Mid-Ebb	68
WSD11	28293-41	s	Mid-Flood	26
WSD11	28293-42	m	Mid-Flood	26
WSD11	28293-43	b	Mid-Flood	45
WSD12	28293-34	s	Mid-Ebb	18
WSD12	28293-35	m	Mid-Ebb	17
WSD12	28293-36	b	Mid-Ebb	32
WSD12	28293-71	s	Mid-Flood	36
WSD12	28293-72	m	Mid-Flood	10
WSD12	28293-73	b	Mid-Flood	9
WSD13	28293-19	s	Mid-Ebb	42
WSD13	28293-20	m	Mid-Ebb	26
WSD13	28293-21	b	Mid-Ebb	32
WSD13	28293-56	s	Mid-Flood	2
WSD13	28293-57	m	Mid-Flood	10
WSD13	28293-58	b	Mid-Flood	9
WSD15	28293-13	s	Mid-Ebb	100
WSD15	28293-14	m	Mid-Ebb	100
WSD15	28293-15	b	Mid-Ebb	110
WSD15	28293-50	s	Mid-Flood	110
WSD15	28293-51	m	Mid-Flood	85
WSD15	28293-52	b	Mid-Flood	78
WSD17	28293-10	s	Mid-Ebb	94
WSD17	28293-11	m	Mid-Ebb	56
WSD17	28293-12	b	Mid-Ebb	70
WSD17	28293-47	s	Mid-Flood	32
WSD17	28293-48	m	Mid-Flood	36
WSD17	28293-49	b	Mid-Flood	88
WSD18	28292-13	s	Mid-Ebb	1200
WSD18	28292-14	m	Mid-Ebb	1400
WSD18	28292-15	b	Mid-Ebb	1100
WSD18	28292-53	s	Mid-Flood	600
WSD18	28292-54	m	Mid-Flood	440
WSD18	28292-55	b	Mid-Flood	520
WSD19	28292-16	s	Mid-Ebb	180
WSD19	28292-17	m	Mid-Ebb	420
WSD19	28292-18	b	Mid-Ebb	690
WSD19	28292-56	s	Mid-Flood	280
WSD19	28292-57	m	Mid-Flood	240
WSD19	28292-58	b	Mid-Flood	240
WSD20	28292-25	s	Mid-Ebb	58

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (4/2/2018)

Sample ID	Sample No	Depth	Tide	E.coli (cfu/100mL)
WSD20	28292-26	m	Mid-Ebb	73
WSD20	28292-27	b	Mid-Ebb	57
WSD20	28292-65	s	Mid-Flood	390
WSD20	28292-66	m	Mid-Flood	110
WSD20	28292-67	b	Mid-Flood	32
WSD21	28294-10	s	Mid-Ebb	<1
WSD21	28294-11	m	Mid-Ebb	<1
WSD21	28294-12	b	Mid-Ebb	1
WSD21	28294-44	s	Mid-Flood	3
WSD21	28294-45	m	Mid-Flood	7
WSD21	28294-46	b	Mid-Flood	4
WSD22	28292-10	s	Mid-Ebb	310
WSD22	28292-11	m	Mid-Ebb	280
WSD22	28292-12	b	Mid-Ebb	270
WSD22	28292-50	s	Mid-Flood	980
WSD22	28292-51	m	Mid-Flood	900
WSD22	28292-52	b	Mid-Flood	780
WSD4	28291-31	s	Mid-Ebb	190
WSD4	28291-32	m	Mid-Ebb	160
WSD4	28291-33	b	Mid-Ebb	200
WSD4	28291_74a	s	Mid-Flood	9
WSD4	28291_75a	m	Mid-Flood	41
WSD4	28291_76a	b	Mid-Flood	10
WSD5	28291-37	s	Mid-Ebb	340
WSD5	28291-38	m	Mid-Ebb	350
WSD5	28291-39	b	Mid-Ebb	410
WSD5	28291_80a	s	Mid-Flood	360
WSD5	28291_81a	m	Mid-Flood	200
WSD5	28291_82a	b	Mid-Flood	270
WSD6	28292-34	s	Mid-Ebb	160
WSD6	28292-35	m	Mid-Ebb	N/A
WSD6	28292-36	b	Mid-Ebb	150
WSD6	28292-74	s	Mid-Flood	2000
WSD6	28292-75	m	Mid-Flood	N/A
WSD6	28292-76	b	Mid-Flood	1600
WSD7	28292-37	s	Mid-Ebb	88
WSD7	28292-38	m	Mid-Ebb	140
WSD7	28292-39	b	Mid-Ebb	120
WSD7	28292-77	s	Mid-Flood	420
WSD7	28292-78	m	Mid-Flood	520
WSD7	28292-79	b	Mid-Flood	400
WSD9	28292-1	s	Mid-Ebb	65
WSD9	28292-2	m	Mid-Ebb	48

**DC/2009/10 HATS 2A, Upgrading Main Pumping Station,
Sedimentation Tanks and Ancillary Facilities at SCISTW**

Baseline Water Quality Monitoring Results (4/2/2018)

Sample ID	Sample No	Depth	Tide	E.coli (cfu/100mL)
WSD9	28292-3	b	Mid-Ebb	47
WSD9	28292-41	s	Mid-Flood	1100
WSD9	28292-42	m	Mid-Flood	110
WSD9	28292-43	b	Mid-Flood	990

E.coli Outlier

Date	Stations	Tide	E.coli (Geometric mean)
Nov-17	B10	Mid-Ebb	2592
Nov-17	B11	Mid-Ebb	2800
Nov-17	B12	Mid-Flood	2337
Nov-17	B13	Mid-Flood	2463
Nov-17	B14	Mid-Ebb	2500
Nov-17	B25	Mid-Ebb	70
Nov-17	B26	Mid-Ebb	83
Feb-18	B30	Mid-Flood	45
Feb-18	B31	Mid-Flood	2
Feb-18	B32	Mid-Flood	28
Nov-17	B33	Mid-Ebb	6
Oct-17	B34	Mid-Flood	28
Sep-17	B35	Mid-Flood	16
Nov-17	B7	Mid-Ebb	1800
Nov-17	B7	Mid-Flood	1700
Nov-17	B8	Mid-Ebb	3393
Nov-17	B9	Mid-Ebb	2728
Sep-17	F1	Mid-Flood	134
Oct-17	F4	Mid-Flood	12261
Nov-17	F5	Mid-Ebb	1722

APPENDIX E
LABORATORY TESTING FOR *E. COLI*

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	27402
Date of Issue:	2017-09-14
Date Received:	2017-09-10
Date Tested:	2017-09-10
Date Completed:	2017-09-14

ATTN: Ms. Mei Ling Tang

Page: 1 of 3

Sample Description : 69 liquid samples as received from client said to be water
Laboratory No. : 27402
Project No. : MA11007(DC/2009/10)
Project Name : HATS Stage 2A – Upgrading Works at Stonecutter Island Sewage Treatment Works – Main pumping Station, Sedimentation Tanks and Ancillary Facilities
Custody No. : MA11007(Route 1)/170910
Sampling Date : 2017-09-10

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B7	27402-2	M	Mid-Ebb	18
B8	27402-4	S	Mid-Ebb	41
B8	27402-5	M	Mid-Ebb	78
B8	27402-6	B	Mid-Ebb	82
B9	27402-7	S	Mid-Ebb	63
B9	27402-9	B	Mid-Ebb	45
B10	27402-10	S	Mid-Ebb	45
B10	27402-12	B	Mid-Ebb	64
B11	27402-14	M	Mid-Ebb	55
B12	27402-16	S	Mid-Ebb	76

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Laboratory Manager

TEST REPORT

Report No.:	27402
Date of Issue:	2017-09-14
Date Received:	2017-09-10
Date Tested:	2017-09-10
Date Completed:	2017-09-14

Page: 2 of 3

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B12	27402-18	B	Mid-Ebb	81
B13	27402-19	S	Mid-Ebb	180
B13	27402-20	M	Mid-Ebb	180
B13	27402-21	B	Mid-Ebb	130
WSD4	27402-22	S	Mid-Ebb	460
WSD4	27402-23	M	Mid-Ebb	380
WSD4	27402-24	B	Mid-Ebb	710
VM14	27402-25	S	Mid-Ebb	120
VM14	27402-26	M	Mid-Ebb	230
VM14	27402-27	B	Mid-Ebb	180
WSD5	27402-28	S	Mid-Ebb	620
WSD5	27402-29	M	Mid-Ebb	760
WSD5	27402-30	B	Mid-Ebb	75
VM12	27402-31	S	Mid-Ebb	240
VM12	27402-32	M	Mid-Ebb	370
VM12	27402-33	B	Mid-Ebb	680
WM4	27402-34	S	Mid-Ebb	120
WM4	27402-35	M	Mid-Ebb	210
WM4	27402-36	B	Mid-Ebb	200
B14	27402-38	M	Mid-Ebb	66
F5	27402-40	S	Mid-Ebb	19
F5	27402-41	M	Mid-Ebb	9
F5	27402-42	B	Mid-Ebb	25
B7	27402-44	M	Mid-Flood	12
B8	27402-46	S	Mid-Flood	150
B8	27402-47	M	Mid-Flood	90
B8	27402-48	B	Mid-Flood	250
B9	27402-49	S	Mid-Flood	49
B9	27402-51	B	Mid-Flood	74
B10	27402-52	S	Mid-Flood	56

Remarks: 1) <= less than

2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	27402
Date of Issue:	2017-09-14
Date Received:	2017-09-10
Date Tested:	2017-09-10
Date Completed:	2017-09-14

Page: 3 of 3

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B10	27402-54	B	Mid-Flood	170
B11	27402-56	M	Mid-Flood	23
B12	27402-58	S	Mid-Flood	14
B12	27402-60	B	Mid-Flood	35
B13	27402-61	S	Mid-Flood	43
B13	27402-62	M	Mid-Flood	86
B13	27402-63	B	Mid-Flood	240
WSD4	27402-64	S	Mid-Flood	210
WSD4	27402-65	M	Mid-Flood	150
WSD4	27402-66	B	Mid-Flood	160
VM14	27402-67	S	Mid-Flood	82
VM14	27402-68	M	Mid-Flood	92
VM14	27402-69	B	Mid-Flood	130
WSD5	27402-70	S	Mid-Flood	160
WSD5	27402-71	M	Mid-Flood	140
WSD5	27402-72	B	Mid-Flood	51
VM12	27402-73	S	Mid-Flood	64
VM12	27402-74	M	Mid-Flood	78
VM12	27402-75	B	Mid-Flood	180
WM4	27402-76	S	Mid-Flood	220
WM4	27402-77	M	Mid-Flood	75
WM4	27402-78	B	Mid-Flood	73
B14	27402-80	M	Mid-Flood	170
F5	27402-82	S	Mid-Flood	6
F5	27402-83	M	Mid-Flood	20
F5	27402-84	B	Mid-Flood	150
B13	27402-85	S	Mid-Flood	55
F5	27402-86	S	Mid-Ebb	26
VM12	27402-87	M	Mid-Ebb	330

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	27402A
Date of Issue:	2017-09-14
Date Received:	2017-09-10
Date Tested:	2017-09-10
Date Completed:	2017-09-14

ATTN: Ms. Mei Ling Tang

Page: 1 of 4

Sample Description : 80 liquid samples as received from client said to be water
Laboratory No. : 27402A
Project No. : MA11007(DC/2009/10)
Project Name : HATS Stage 2A – Upgrading Works at Stonecutter Island Sewage Treatment Works – Main pumping Station, Sedimentation Tanks and Ancillary Facilities
Custody No. : MA11007(Route 2)/170910
Sampling Date : 2017-09-10

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	E. coli (cfu/100mL)
WSD6	27402-88	S	Mid-Flood	6000
WSD6	27402-90	B	Mid-Flood	4000
WSD7	27402-91	S	Mid-Flood	1400
WSD7	27402-92	M	Mid-Flood	1700
WSD7	27402-93	B	Mid-Flood	1800
VM4	27402-94	S	Mid-Flood	1500
VM4	27402-95	M	Mid-Flood	1400
VM4	27402-96	B	Mid-Flood	1100
WSD9	27402-97	S	Mid-Flood	3700
WSD9	27402-98	M	Mid-Flood	3900

Remarks: 1) <= less than

2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


 PATRICK TSE
 Laboratory Manager

TEST REPORT

Report No.:	27402A
Date of Issue:	2017-09-14
Date Received:	2017-09-10
Date Tested:	2017-09-10
Date Completed:	2017-09-14

Page: 2 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD9	27402-99	B	Mid-Flood	4500
VM5	27402-100	S	Mid-Flood	3000
VM5	27402-101	M	Mid-Flood	2800
VM5	27402-102	B	Mid-Flood	2700
WSD22	27402-103	S	Mid-Flood	3200
WSD22	27402-104	M	Mid-Flood	2600
WSD22	27402-105	B	Mid-Flood	1700
WSD18	27402-106	S	Mid-Flood	1100
WSD18	27402-107	M	Mid-Flood	1400
WSD18	27402-108	B	Mid-Flood	1900
WSD19	27402-109	S	Mid-Flood	2600
WSD19	27402-110	M	Mid-Flood	1800
WSD19	27402-111	B	Mid-Flood	1200
VM7	27402-112	S	Mid-Flood	1300
VM7	27402-113	M	Mid-Flood	160
VM7	27402-114	B	Mid-Flood	980
WSD20	27402-115	S	Mid-Flood	680
WSD20	27402-116	M	Mid-Flood	540
WSD20	27402-117	B	Mid-Flood	580
WM2	27402-118	S	Mid-Flood	480
WM2	27402-119	M	Mid-Flood	110
WM2	27402-120	B	Mid-Flood	380
VM8	27402-121	S	Mid-Flood	370
VM8	27402-122	M	Mid-Flood	320
VM8	27402-123	B	Mid-Flood	250
VM15	27402-124	S	Mid-Flood	860
VM15	27402-125	M	Mid-Flood	460
VM15	27402-126	B	Mid-Flood	1500
WSD6	27402-127	S	Mid-Ebb	1300
WSD6	27402-128	M	Mid-Ebb	1500

Remarks: 1) <= less than

2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	27402A
Date of Issue:	2017-09-14
Date Received:	2017-09-10
Date Tested:	2017-09-10
Date Completed:	2017-09-14

Page: 3 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD6	27402-129	B	Mid-Ebb	1600
WSD7	27402-130	S	Mid-Ebb	240
WSD7	27402-131	M	Mid-Ebb	260
WSD7	27402-132	B	Mid-Ebb	300
VM4	27402-133	S	Mid-Ebb	310
VM4	27402-134	M	Mid-Ebb	420
VM4	27402-135	B	Mid-Ebb	380
WSD9	27402-136	S	Mid-Ebb	26
WSD9	27402-137	M	Mid-Ebb	260
WSD9	27402-138	B	Mid-Ebb	310
VM5	27402-139	S	Mid-Ebb	15
VM5	27402-140	M	Mid-Ebb	24
VM5	27402-141	B	Mid-Ebb	26
WSD22	27402-142	S	Mid-Ebb	200
WSD22	27402-143	M	Mid-Ebb	130
WSD22	27402-144	B	Mid-Ebb	290
WSD18	27402-145	S	Mid-Ebb	85
WSD18	27402-146	M	Mid-Ebb	98
WSD18	27402-147	B	Mid-Ebb	26
WSD19	27402-148	S	Mid-Ebb	1500
WSD19	27402-149	M	Mid-Ebb	840
WSD19	27402-150	B	Mid-Ebb	15
VM7	27402-151	S	Mid-Ebb	1
VM7	27402-152	M	Mid-Ebb	2
VM7	27402-153	B	Mid-Ebb	83
WSD20	27402-154	S	Mid-Ebb	15
WSD20	27402-155	M	Mid-Ebb	6
WSD20	27402-156	B	Mid-Ebb	7
WM2	27402-157	S	Mid-Ebb	38
WM2	27402-158	M	Mid-Ebb	20

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	27402A
Date of Issue:	2017-09-14
Date Received:	2017-09-10
Date Tested:	2017-09-10
Date Completed:	2017-09-14

Page: 4 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WM2	27402-159	B	Mid-Ebb	15
VM8	27402-160	S	Mid-Ebb	180
VM8	27402-161	M	Mid-Ebb	75
VM8	27402-162	B	Mid-Ebb	6
VM15	27402-163	S	Mid-Ebb	58
VM15	27402-164	M	Mid-Ebb	24
VM15	27402-165	B	Mid-Ebb	190
WSD20	27402-166	M	Mid-Flood	610
WSD6	27402-167	B	Mid-Ebb	1100
WSD9	27402-168	S	Mid-Ebb	21

Remarks: 1) < = less than
2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	27402B
Date of Issue:	2017-09-14
Date Received:	2017-09-10
Date Tested:	2017-09-10
Date Completed:	2017-09-14

ATTN: Ms. Mei Ling Tang

Page: 1 of 4

Sample Description : 75 liquid samples as received from client said to be water
Laboratory No. : 27402B
Project No. : MA11007(DC/2009/10)
Project Name : HATS Stage 2A – Upgrading Works at Stonecutter Island Sewage Treatment Works – Main pumping Station, Sedimentation Tanks and Ancillary Facilities
Custody No. : MA11007(Route 3)/170910
Sampling Date : 2017-09-10

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
VM2	27402-169	S	Mid-Ebb	100
VM2	27402-170	M	Mid-Ebb	220
VM2	27402-171	B	Mid-Ebb	52
WSD10	27402-172	S	Mid-Ebb	130
WSD10	27402-173	M	Mid-Ebb	64
WSD10	27402-174	B	Mid-Ebb	100
WSD11	27402-175	S	Mid-Ebb	500
WSD11	27402-176	M	Mid-Ebb	42
WSD11	27402-177	B	Mid-Ebb	65
VM1	27402-178	S	Mid-Ebb	150

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
 Laboratory Manager

TEST REPORT

Report No.:	27402B
Date of Issue:	2017-09-14
Date Received:	2017-09-10
Date Tested:	2017-09-10
Date Completed:	2017-09-14

Page: 2 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
VM1	27402-179	M	Mid-Ebb	150
VM1	27402-180	B	Mid-Ebb	120
WSD12	27402-181	S	Mid-Ebb	11
WSD12	27402-182	M	Mid-Ebb	21
WSD12	27402-183	B	Mid-Ebb	24
JM3	27402-184	S	Mid-Ebb	69
JM3	27402-185	M	Mid-Ebb	20
JM3	27402-186	B	Mid-Ebb	51
EM1	27402-187	S	Mid-Ebb	43
EM1	27402-188	M	Mid-Ebb	28
EM1	27402-189	B	Mid-Ebb	140
EM2	27402-190	S	Mid-Ebb	4
EM2	27402-191	M	Mid-Ebb	150
EM2	27402-192	B	Mid-Ebb	3700
F1	27402-193	S	Mid-Ebb	10
F1	27402-194	M	Mid-Ebb	73
F1	27402-195	B	Mid-Ebb	5
WSD13	27402-196	S	Mid-Ebb	260
WSD13	27402-197	M	Mid-Ebb	270
WSD13	27402-198	B	Mid-Ebb	200
WSD15	27402-199	S	Mid-Ebb	230
WSD15	27402-200	M	Mid-Ebb	520
WSD15	27402-201	B	Mid-Ebb	240
WSD17	27402-202	S	Mid-Ebb	270
WSD17	27402-203	M	Mid-Ebb	1100
WSD17	27402-204	B	Mid-Ebb	1200
VM2	27402-205	S	Mid-Flood	720
VM2	27402-206	M	Mid-Flood	200
VM2	27402-207	B	Mid-Flood	880
WSD10	27402-208	S	Mid-Flood	200

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	27402B
Date of Issue:	2017-09-14
Date Received:	2017-09-10
Date Tested:	2017-09-10
Date Completed:	2017-09-14

Page: 3 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD10	27402-209	M	Mid-Flood	480
WSD10	27402-210	B	Mid-Flood	270
WSD11	27402-211	S	Mid-Flood	940
WSD11	27402-212	M	Mid-Flood	150
WSD11	27402-213	B	Mid-Flood	700
VM1	27402-214	S	Mid-Flood	350
VM1	27402-215	M	Mid-Flood	200
VM1	27402-216	B	Mid-Flood	120
WSD12	27402-217	S	Mid-Flood	260
WSD12	27402-218	M	Mid-Flood	76
WSD12	27402-219	B	Mid-Flood	500
JM3	27402-220	S	Mid-Flood	3300
JM3	27402-221	M	Mid-Flood	190
JM3	27402-222	B	Mid-Flood	45
EM1	27402-223	S	Mid-Flood	54
EM1	27402-224	M	Mid-Flood	74
EM1	27402-225	B	Mid-Flood	4600
EM2	27402-226	S	Mid-Flood	36
EM2	27402-227	M	Mid-Flood	1100
EM2	27402-228	B	Mid-Flood	1300
F1	27402-229	S	Mid-Flood	360
F1	27402-230	M	Mid-Flood	240
F1	27402-231	B	Mid-Flood	28
WSD13	27402-232	S	Mid-Flood	130
WSD13	27402-233	M	Mid-Flood	900
WSD13	27402-234	B	Mid-Flood	320
WSD15	27402-235	S	Mid-Flood	270
WSD15	27402-236	M	Mid-Flood	120
WSD15	27402-237	B	Mid-Flood	1500
WSD17	27402-238	S	Mid-Flood	1100

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	27402B
Date of Issue:	2017-09-14
Date Received:	2017-09-10
Date Tested:	2017-09-10
Date Completed:	2017-09-14

Page: 4 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD17	27402-239	M	Mid-Flood	640
WSD17	27402-240	B	Mid-Flood	92
JM3	27402-241	B	Mid-Flood	53
WSD15	27402-242	M	Mid-Ebb	460
F1	27402-243	B	Mid-Ebb	6

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	27402C
Date of Issue:	2017-09-14
Date Received:	2017-09-10
Date Tested:	2017-09-10
Date Completed:	2017-09-14

ATTN: Ms. Mei Ling Tang

Page: 1 of 3

Sample Description : 57 liquid samples as received from client said to be water
Laboratory No. : 27402C
Project No. : MA11007(DC/2009/10)
Project Name : HATS Stage 2A – Upgrading Works at Stonecutter Island Sewage Treatment Works – Main pumping Station, Sedimentation Tanks and Ancillary Facilities
Custody No. : MA11007(Route 4)/170910
Sampling Date : 2017-09-10

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B35	27402-244	S	Mid-Ebb	8
B35	27402-245	M	Mid-Ebb	20
B35	27402-246	B	Mid-Ebb	7
B34	27402-247	S	Mid-Ebb	<1
B34	27402-248	M	Mid-Ebb	<1
B34	27402-249	B	Mid-Ebb	<1
B33	27402-250	S	Mid-Ebb	<1
B33	27402-251	M	Mid-Ebb	3
B33	27402-252	B	Mid-Ebb	1
B32	27402-254	M	Mid-Ebb	<1

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
 Laboratory Manager

TEST REPORT

Report No.:	27402C
Date of Issue:	2017-09-14
Date Received:	2017-09-10
Date Tested:	2017-09-10
Date Completed:	2017-09-14

Page: 2 of 3

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B31	27402-257	M	Mid-Ebb	<1
B30	27402-260	M	Mid-Ebb	1
SM2	27402-262	S	Mid-Ebb	<1
SM2	27402-263	M	Mid-Ebb	<1
SM2	27402-264	B	Mid-Ebb	2
SM3	27402-265	S	Mid-Ebb	<1
SM3	27402-266	M	Mid-Ebb	<1
SM3	27402-267	B	Mid-Ebb	<1
F4	27402-268	S	Mid-Ebb	11
F4	27402-269	M	Mid-Ebb	2
F4	27402-270	B	Mid-Ebb	4
WM1	27402-271	S	Mid-Ebb	1
WM1	27402-272	M	Mid-Ebb	31
WM1	27402-273	B	Mid-Ebb	6
WSD21	27402-274	S	Mid-Ebb	6
WSD21	27402-275	M	Mid-Ebb	1
WSD21	27402-276	B	Mid-Ebb	7
B35	27402-277	S	Mid-Flood	62
B35	27402-278	M	Mid-Flood	18
B35	27402-279	B	Mid-Flood	4
B34	27402-280	S	Mid-Flood	<1
B34	27402-281	M	Mid-Flood	3
B34	27402-282	B	Mid-Flood	2
B33	27402-283	S	Mid-Flood	<1
B33	27402-284	M	Mid-Flood	<1
B33	27402-285	B	Mid-Flood	<1
B32	27402-287	M	Mid-Flood	2
B31	27402-290	M	Mid-Flood	<1
B30	27402-293	M	Mid-Flood	4
SM2	27402-295	S	Mid-Flood	<1

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	27402C
Date of Issue:	2017-09-14
Date Received:	2017-09-10
Date Tested:	2017-09-10
Date Completed:	2017-09-14

Page: 3 of 3

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
SM2	27402-296	M	Mid-Flood	<1
SM2	27402-297	B	Mid-Flood	1
SM3	27402-298	S	Mid-Flood	17
SM3	27402-299	M	Mid-Flood	1
SM3	27402-300	B	Mid-Flood	<1
F4	27402-301	S	Mid-Flood	23
F4	27402-302	M	Mid-Flood	16
F4	27402-303	B	Mid-Flood	10
WM1	27402-304	S	Mid-Flood	23
WM1	27402-305	M	Mid-Flood	17
WM1	27402-306	B	Mid-Flood	22
WSD21	27402-307	S	Mid-Flood	20
WSD21	27402-308	M	Mid-Flood	4
WSD21	27402-309	B	Mid-Flood	7
B35	27402-310	S	Mid-Flood	53
F4	27402-311	S	Mid-Ebb	18
B30	27402-312	M	Mid-Ebb	4

Remarks: 1) < = less than

2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	27402D
Date of Issue:	2017-09-14
Date Received:	2017-09-10
Date Tested:	2017-09-10
Date Completed:	2017-09-14

ATTN: Ms. Mei Ling Tang

Page: 1 of 2

Sample Description : 29 liquid samples as received from client said to be water
Laboratory No. : 27402D
Project No. : MA11007(DC/2009/10)
Project Name : HATS Stage 2A – Upgrading Works at Stonecutter Island Sewage Treatment Works – Main pumping Station, Sedimentation Tanks and Ancillary Facilities
Custody No. : MA11007(Route 5)/170910
Sampling Date : 2017-09-10

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B24	27402-313	S	Mid-Ebb	<1
B24	27402-314	M	Mid-Ebb	47
B24	27402-315	B	Mid-Ebb	38
B25	27402-316	S	Mid-Ebb	<1
B25	27402-318	B	Mid-Ebb	<1
B26	27402-319	S	Mid-Ebb	<1
B26	27402-320	M	Mid-Ebb	20
B26	27402-321	B	Mid-Ebb	140
EM3	27402-322	S	Mid-Ebb	<1
EM3	27402-323	M	Mid-Ebb	13

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
 Laboratory Manager

TEST REPORT

Report No.:	27402D
Date of Issue:	2017-09-14
Date Received:	2017-09-10
Date Tested:	2017-09-10
Date Completed:	2017-09-14

Page: 2 of 2

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
EM3	27402-324	B	Mid-Ebb	7
MM13	27402-325	S	Mid-Ebb	<1
MM13	27402-326	M	Mid-Ebb	<1
MM13	27402-327	B	Mid-Ebb	<1
B24	27402-328	S	Mid-Flood	35
B24	27402-329	M	Mid-Flood	26
B24	27402-330	B	Mid-Flood	28
B25	27402-331	S	Mid-Flood	12
B25	27402-333	B	Mid-Flood	26
B26	27402-334	S	Mid-Flood	64
B26	27402-335	M	Mid-Flood	40
B26	27402-336	B	Mid-Flood	31
EM3	27402-337	S	Mid-Flood	84
EM3	27402-338	M	Mid-Flood	2
EM3	27402-339	B	Mid-Flood	5
MM13	27402-340	S	Mid-Flood	<1
MM13	27402-341	M	Mid-Flood	<1
MM13	27402-342	B	Mid-Flood	<1
B26	27402-343	M	Mid-Flood	37

Remarks: 1) < = less than
2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	27402E
Date of Issue:	2017-09-14
Date Received:	2017-09-10
Date Tested:	2017-09-10
Date Completed:	2017-09-14

ATTN: Ms. Mei Ling Tang

Page: 1 of 2

Sample Description : 19 liquid samples as received from client said to be water
Laboratory No. : 27402E
Project No. : MA11007(DC/2009/10)
Project Name : HATS Stage 2A – Upgrading Works at Stonecutter Island Sewage Treatment Works – Main pumping Station, Sedimentation Tanks and Ancillary Facilities
Custody No. : MA11007(Route 6)/170910
Sampling Date : 2017-09-10

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
SM12	27402-344	S	Mid-Ebb	<1
SM12	27402-345	M	Mid-Ebb	<1
SM12	27402-346	B	Mid-Ebb	16
SM17	27402-347	S	Mid-Ebb	<1
SM17	27402-348	M	Mid-Ebb	2
SM17	27402-349	B	Mid-Ebb	<1
SM6	27402-350	S	Mid-Ebb	<1
SM6	27402-351	M	Mid-Ebb	<1
SM6	27402-352	B	Mid-Ebb	4
SM12	27402-353	S	Mid-Flood	15

Remarks: 1) <= less than
 2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
 Laboratory Manager

TEST REPORT

Report No.:	27402E
Date of Issue:	2017-09-14
Date Received:	2017-09-10
Date Tested:	2017-09-10
Date Completed:	2017-09-14

Page: 2 of 2

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
SM12	27402-354	M	Mid-Flood	280
SM12	27402-355	B	Mid-Flood	110
SM17	27402-356	S	Mid-Flood	120
SM17	27402-357	M	Mid-Flood	<1
SM17	27402-358	B	Mid-Flood	<1
SM6	27402-359	S	Mid-Flood	6
SM6	27402-360	M	Mid-Flood	10
SM6	27402-361	B	Mid-Flood	2
SM12	27402-362	B	Mid-Flood	100

Remarks: 1) < = less than

2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	27631
Date of Issue:	2017-10-12
Date Received:	2017-10-08
Date Tested:	2017-10-08
Date Completed:	2017-10-12

ATTN: Ms. Mei Ling Tang

Page: 1 of 3

Sample Description : 68 liquid samples as received from client said to be water
Laboratory No. : 27631
Project No. : MA11007(DC/2009/10)
Project Name : HATS Stage 2A – Upgrading Works at Stonecutter Island Sewage Treatment Works – Main pumping Station, Sedimentation Tanks and Ancillary Facilities
Custody No. : MA11007(Route 1)/171008
Sampling Date : 2017-10-08

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B7	27631-2	M	Mid-Ebb	290
B8	27631-4	S	Mid-Ebb	900
B8	27631-5	M	Mid-Ebb	740
B8	27631-6	B	Mid-Ebb	980
B9	27631-7	S	Mid-Ebb	210
B9	27631-9	B	Mid-Ebb	250
B10	27631-10	S	Mid-Ebb	1400
B10	27631-12	B	Mid-Ebb	1500
B11	27631-14	M	Mid-Ebb	1500
B12	27631-16	S	Mid-Ebb	880

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Laboratory Manager

TEST REPORT

Report No.:	27631
Date of Issue:	2017-10-12
Date Received:	2017-10-08
Date Tested:	2017-10-08
Date Completed:	2017-10-12

Page: 2 of 3

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B12	27631-18	B	Mid-Ebb	1100
B13	27631-19	S	Mid-Ebb	84
B13	27631-20	M	Mid-Ebb	91
B13	27631-21	B	Mid-Ebb	120
WSD4	27631-22	S	Mid-Ebb	2000
WSD4	27631-23	M	Mid-Ebb	2200
WSD4	27631-24	B	Mid-Ebb	1900
VM14	27631-25	S	Mid-Ebb	1700
VM14	27631-26	M	Mid-Ebb	1700
VM14	27631-27	B	Mid-Ebb	2200
WSD5	27631-28	S	Mid-Ebb	2000
WSD5	27631-29	M	Mid-Ebb	1700
WSD5	27631-30	B	Mid-Ebb	1600
VM12	27631-31	S	Mid-Ebb	1700
VM12	27631-32	M	Mid-Ebb	2700
VM12	27631-33	B	Mid-Ebb	3600
WM4	27631-34	S	Mid-Ebb	350
WM4	27631-35	M	Mid-Ebb	740
WM4	27631-36	B	Mid-Ebb	1000
B14	27631-38	M	Mid-Ebb	400
F5	27631-40	S	Mid-Ebb	280
F5	27631-41	M	Mid-Ebb	440
F5	27631-42	B	Mid-Ebb	400
B7	27631-44	M	Mid-Flood	96
B8	27631-46	S	Mid-Flood	300
B8	27631-47	M	Mid-Flood	110
B8	27631-48	B	Mid-Flood	83
B9	27631-49	S	Mid-Flood	110
B9	27631-51	B	Mid-Flood	10
B10	27631-52	S	Mid-Flood	13

Remarks: 1) <= less than

2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	27631
Date of Issue:	2017-10-12
Date Received:	2017-10-08
Date Tested:	2017-10-08
Date Completed:	2017-10-12

Page: 3 of 3

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B10	27631-54	B	Mid-Flood	28
B11	27631-56	M	Mid-Flood	25
B12	27631-58	S	Mid-Flood	22
B12	27631-60	B	Mid-Flood	13
B13	27631-61	S	Mid-Flood	31
B13	27631-63	B	Mid-Flood	6
WSD4	27631-64	S	Mid-Flood	42
WSD4	27631-65	M	Mid-Flood	17
WSD4	27631-66	B	Mid-Flood	19
VM14	27631-67	S	Mid-Flood	48
VM14	27631-68	M	Mid-Flood	36
VM14	27631-69	B	Mid-Flood	140
WSD5	27631-70	S	Mid-Flood	1400
WSD5	27631-71	M	Mid-Flood	900
WSD5	27631-72	B	Mid-Flood	1000
VM12	27631-73	S	Mid-Flood	420
VM12	27631-74	M	Mid-Flood	1500
VM12	27631-75	B	Mid-Flood	1700
WM4	27631-76	S	Mid-Flood	220
WM4	27631-77	M	Mid-Flood	200
WM4	27631-78	B	Mid-Flood	170
B14	27631-80	M	Mid-Flood	200
F5	27631-82	S	Mid-Flood	18
F5	27631-83	M	Mid-Flood	48
F5	27631-84	B	Mid-Flood	51
B13	27631-85	S	Mid-Flood	32
F5	27631-86	S	Mid-Ebb	240
VM12	27631-87	M	Mid-Ebb	2600

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	27631A
Date of Issue:	2017-10-12
Date Received:	2017-10-08
Date Tested:	2017-10-08
Date Completed:	2017-10-12

ATTN: Ms. Mei Ling Tang

Page: 1 of 4

Sample Description : 81 liquid samples as received from client said to be water
Laboratory No. : 27631A
Project No. : MA11007(DC/2009/10)
Project Name : HATS Stage 2A – Upgrading Works at Stonecutter Island Sewage Treatment Works – Main pumping Station, Sedimentation Tanks and Ancillary Facilities
Custody No. : MA11007(Route 2)/170910
Sampling Date : 2017-10-08

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD6	27631-88	S	Mid-Ebb	220
WSD6	27631-89	M	Mid-Ebb	1000
WSD6	27631-90	B	Mid-Ebb	1000
WSD7	27631-91	S	Mid-Ebb	720
WSD7	27631-92	M	Mid-Ebb	1100
WSD7	27631-93	B	Mid-Ebb	780
VM4	27631-94	S	Mid-Ebb	20
VM4	27631-95	M	Mid-Ebb	59
VM4	27631-96	B	Mid-Ebb	22
WSD9	27631-97	S	Mid-Ebb	21

Remarks: 1) <= less than
 2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
 Laboratory Manager

TEST REPORT

Report No.:	27631A
Date of Issue:	2017-10-12
Date Received:	2017-10-08
Date Tested:	2017-10-08
Date Completed:	2017-10-12

Page: 2 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD9	27631-98	M	Mid-Ebb	14
WSD9	27631-99	B	Mid-Ebb	20
VM5	27631-100	S	Mid-Ebb	94
VM5	27631-101	M	Mid-Ebb	86
VM5	27631-102	B	Mid-Ebb	77
WSD22	27631-103	S	Mid-Ebb	190
WSD22	27631-104	M	Mid-Ebb	120
WSD22	27631-105	B	Mid-Ebb	150
WSD18	27631-106	S	Mid-Ebb	330
WSD18	27631-107	M	Mid-Ebb	960
WSD18	27631-108	B	Mid-Ebb	380
WSD19	27631-109	S	Mid-Ebb	1800
WSD19	27631-110	M	Mid-Ebb	2100
WSD19	27631-111	B	Mid-Ebb	1400
VM7	27631-112	S	Mid-Ebb	28
VM7	27631-113	M	Mid-Ebb	42
VM7	27631-114	B	Mid-Ebb	560
WSD20	27631-115	S	Mid-Ebb	230
WSD20	27631-116	M	Mid-Ebb	540
WSD20	27631-117	B	Mid-Ebb	420
WM2	27631-118	S	Mid-Ebb	120
WM2	27631-119	M	Mid-Ebb	1600
WM2	27631-120	B	Mid-Ebb	720
VM8	27631-121	S	Mid-Ebb	17000
VM8	27631-122	M	Mid-Ebb	14000
VM8	27631-123	B	Mid-Ebb	32000
VM15	27631-124	S	Mid-Ebb	150
VM15	27631-125	M	Mid-Ebb	340
VM15	27631-126	B	Mid-Ebb	82
WSD6	27631-127	S	Mid-Flood	3100

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	27631A
Date of Issue:	2017-10-12
Date Received:	2017-10-08
Date Tested:	2017-10-08
Date Completed:	2017-10-12

Page: 3 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD6	27631-128	M	Mid-Flood	2800
WSD6	27631-129	B	Mid-Flood	3200
WSD7	27631-130	S	Mid-Flood	4700
WSD7	27631-131	M	Mid-Flood	4800
WSD7	27631-132	B	Mid-Flood	4600
VM4	27631-133	S	Mid-Flood	1100
VM4	27631-134	M	Mid-Flood	340
VM4	27631-135	B	Mid-Flood	180
WSD9	27631-136	S	Mid-Flood	2800
WSD9	27631-137	M	Mid-Flood	1200
WSD9	27631-138	B	Mid-Flood	1200
VM5	27631-139	S	Mid-Flood	180
VM5	27631-140	M	Mid-Flood	200
VM5	27631-141	B	Mid-Flood	5900
WSD22	27631-142	S	Mid-Flood	1800
WSD22	27631-143	M	Mid-Flood	1800
WSD22	27631-144	B	Mid-Flood	1700
WSD18	27631-145	S	Mid-Flood	4500
WSD18	27631-146	M	Mid-Flood	8300
WSD18	27631-147	B	Mid-Flood	6200
WSD19	27631-148	S	Mid-Flood	5700
WSD19	27631-149	M	Mid-Flood	4700
WSD19	27631-150	B	Mid-Flood	2000
VM7	27631-151	S	Mid-Ebb	2800
VM7	27631-152	M	Mid-Ebb	1600
VM7	27631-153	B	Mid-Ebb	2900
WSD20	27631-154	S	Mid-Ebb	1400
WSD20	27631-155	M	Mid-Ebb	4400
WSD20	27631-156	B	Mid-Ebb	8300
WM2	27631-157	S	Mid-Ebb	1000

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	27631A
Date of Issue:	2017-10-12
Date Received:	2017-10-08
Date Tested:	2017-10-08
Date Completed:	2017-10-12

Page: 4 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WM2	27631-158	M	Mid-Ebb	780
WM2	27631-159	B	Mid-Ebb	840
VM8	27631-160	S	Mid-Ebb	2000
VM8	27631-161	M	Mid-Ebb	2500
VM8	27631-162	B	Mid-Ebb	2300
VM15	27631-163	S	Mid-Ebb	5700
VM15	27631-164	M	Mid-Ebb	7100
VM15	27631-165	B	Mid-Ebb	4200
WSD20	27631-166	M	Mid-Flood	3800
WSD6	27631-167	B	Mid-Ebb	940
WSD9	27631-168	S	Mid-Ebb	25

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	27631B
Date of Issue:	2017-10-12
Date Received:	2017-10-08
Date Tested:	2017-10-08
Date Completed:	2017-10-12

ATTN: Ms. Mei Ling Tang

Page: 1 of 4

Sample Description : 75 liquid samples as received from client said to be water
Laboratory No. : 27631B
Project No. : MA11007(DC/2009/10)
Project Name : HATS Stage 2A – Upgrading Works at Stonecutter Island Sewage Treatment Works – Main pumping Station, Sedimentation Tanks and Ancillary Facilities
Custody No. : MA11007(Route 3)/170910
Sampling Date : 2017-10-08

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
VM2	27631-169	S	Mid-Ebb	51
VM2	27631-170	M	Mid-Ebb	62
VM2	27631-171	B	Mid-Ebb	52
WSD10	27631-172	S	Mid-Ebb	38
WSD10	27631-173	M	Mid-Ebb	7
WSD10	27631-174	B	Mid-Ebb	56
WSD11	27631-175	S	Mid-Ebb	36
WSD11	27631-176	M	Mid-Ebb	24
WSD11	27631-177	B	Mid-Ebb	40
VM1	27631-178	S	Mid-Ebb	18

Remarks: 1) <= less than
 2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
 Laboratory Manager

TEST REPORT

Report No.:	27631B
Date of Issue:	2017-10-12
Date Received:	2017-10-08
Date Tested:	2017-10-08
Date Completed:	2017-10-12

Page: 2 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
VM1	27631-179	M	Mid-Ebb	39
VM1	27631-180	B	Mid-Ebb	17
WSD12	27631-181	S	Mid-Ebb	12
WSD12	27631-182	M	Mid-Ebb	4
WSD12	27631-183	B	Mid-Ebb	<1
JM3	27631-184	S	Mid-Ebb	<1
JM3	27631-185	M	Mid-Ebb	4
JM3	27631-186	B	Mid-Ebb	6
EM1	27631-187	S	Mid-Ebb	2
EM1	27631-188	M	Mid-Ebb	<1
EM1	27631-189	B	Mid-Ebb	1
EM2	27631-190	S	Mid-Ebb	3
EM2	27631-191	M	Mid-Ebb	6
EM2	27631-192	B	Mid-Ebb	2
F1	27631-193	S	Mid-Ebb	<1
F1	27631-194	M	Mid-Ebb	20
F1	27631-195	B	Mid-Ebb	<1
WSD13	27631-196	S	Mid-Ebb	24
WSD13	27631-197	M	Mid-Ebb	76
WSD13	27631-198	B	Mid-Ebb	16
WSD15	27631-199	S	Mid-Ebb	70
WSD15	27631-200	M	Mid-Ebb	120
WSD15	27631-201	B	Mid-Ebb	110
WSD17	27631-202	S	Mid-Ebb	43000
WSD17	27631-203	M	Mid-Ebb	2200
WSD17	27631-204	B	Mid-Ebb	5900
VM2	27631-205	S	Mid-Flood	380
VM2	27631-206	M	Mid-Flood	440
VM2	27631-207	B	Mid-Flood	99
WSD10	27631-208	S	Mid-Flood	160

Remarks: 1) < = less than
2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	27631B
Date of Issue:	2017-10-12
Date Received:	2017-10-08
Date Tested:	2017-10-08
Date Completed:	2017-10-12

Page: 3 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD10	27631-209	M	Mid-Flood	120
WSD10	27631-210	B	Mid-Flood	110
WSD11	27631-211	S	Mid-Flood	130
WSD11	27631-212	M	Mid-Flood	170
WSD11	27631-213	B	Mid-Flood	190
VM1	27631-214	S	Mid-Flood	94
VM1	27631-215	M	Mid-Flood	99
VM1	27631-216	B	Mid-Flood	62
WSD12	27631-217	S	Mid-Flood	38
WSD12	27631-218	M	Mid-Flood	36
WSD12	27631-219	B	Mid-Flood	58
JM3	27631-220	S	Mid-Flood	48
JM3	27631-221	M	Mid-Flood	75
JM3	27631-222	B	Mid-Flood	56
EM1	27631-223	S	Mid-Flood	30
EM1	27631-224	M	Mid-Flood	28
EM1	27631-225	B	Mid-Flood	48
EM2	27631-226	S	Mid-Flood	34
EM2	27631-227	M	Mid-Flood	57
EM2	27631-228	B	Mid-Flood	40
F1	27631-229	S	Mid-Flood	27
F1	27631-230	M	Mid-Flood	14
F1	27631-231	B	Mid-Flood	17
WSD13	27631-232	S	Mid-Flood	20
WSD13	27631-233	M	Mid-Flood	25
WSD13	27631-234	B	Mid-Flood	28
WSD15	27631-235	S	Mid-Flood	150
WSD15	27631-236	M	Mid-Flood	110
WSD15	27631-237	B	Mid-Flood	180
WSD17	27631-238	S	Mid-Flood	84

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	27631B
Date of Issue:	2017-10-12
Date Received:	2017-10-08
Date Tested:	2017-10-08
Date Completed:	2017-10-12

Page: 4 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD17	27631-239	M	Mid-Flood	150
WSD17	27631-240	B	Mid-Flood	74
JM3	27631-241	B	Mid-Flood	46
WSD15	27631-242	M	Mid-Ebb	110
F1	27631-243	B	Mid-Ebb	<1

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	27631C
Date of Issue:	2017-10-12
Date Received:	2017-10-08
Date Tested:	2017-10-08
Date Completed:	2017-10-12

ATTN: Ms. Mei Ling Tang

Page: 1 of 3

Sample Description : 57 liquid samples as received from client said to be water
Laboratory No. : 27631C
Project No. : MA11007(DC/2009/10)
Project Name : HATS Stage 2A – Upgrading Works at Stonecutter Island Sewage Treatment Works – Main pumping Station, Sedimentation Tanks and Ancillary Facilities
Custody No. : MA11007(Route 4)/170910
Sampling Date : 2017-10-08

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B35	27631-244	S	Mid-Ebb	<1
B35	27631-245	M	Mid-Ebb	1
B35	27631-246	B	Mid-Ebb	1
B34	27631-247	S	Mid-Ebb	<1
B34	27631-248	M	Mid-Ebb	5
B34	27631-249	B	Mid-Ebb	26
B33	27631-250	S	Mid-Ebb	<1
B33	27631-251	M	Mid-Ebb	7
B33	27631-252	B	Mid-Ebb	11
B32	27631-254	M	Mid-Ebb	<1

Remarks: 1) <= less than

2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
 Laboratory Manager

TEST REPORT

Report No.:	27631C
Date of Issue:	2017-10-12
Date Received:	2017-10-08
Date Tested:	2017-10-08
Date Completed:	2017-10-12

Page: 2 of 3

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B31	27631-257	M	Mid-Ebb	<1
B30	27631-260	M	Mid-Ebb	2
SM2	27631-262	S	Mid-Ebb	<1
SM2	27631-263	M	Mid-Ebb	<1
SM2	27631-264	B	Mid-Ebb	<1
SM3	27631-265	S	Mid-Ebb	14
SM3	27631-266	M	Mid-Ebb	90
SM3	27631-267	B	Mid-Ebb	37
F4	27631-268	S	Mid-Ebb	28
F4	27631-269	M	Mid-Ebb	1100
F4	27631-270	B	Mid-Ebb	1100
WM1	27631-271	S	Mid-Ebb	54
WM1	27631-272	M	Mid-Ebb	940
WM1	27631-273	B	Mid-Ebb	200
WSD21	27631-274	S	Mid-Ebb	20
WSD21	27631-275	M	Mid-Ebb	46
WSD21	27631-276	B	Mid-Ebb	61
B35	27631-277	S	Mid-Flood	<1
B35	27631-278	M	Mid-Flood	1
B35	27631-279	B	Mid-Flood	2
B34	27631-280	S	Mid-Flood	21
B34	27631-281	M	Mid-Flood	28
B34	27631-282	B	Mid-Flood	36
B33	27631-283	S	Mid-Flood	1
B33	27631-284	M	Mid-Flood	5
B33	27631-285	B	Mid-Flood	4
B32	27631-287	M	Mid-Flood	<1
B31	27631-290	M	Mid-Flood	<1
B30	27631-293	M	Mid-Flood	<1
SM2	27631-295	S	Mid-Flood	9

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	27631C
Date of Issue:	2017-10-12
Date Received:	2017-10-08
Date Tested:	2017-10-08
Date Completed:	2017-10-12

Page: 3 of 3

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
SM2	27631-296	M	Mid-Flood	8
SM2	27631-297	B	Mid-Flood	7
SM3	27631-298	S	Mid-Flood	9200
SM3	27631-299	M	Mid-Flood	5600
SM3	27631-300	B	Mid-Flood	300
F4	27631-301	S	Mid-Flood	10000
F4	27631-302	M	Mid-Flood	9700
F4	27631-303	B	Mid-Flood	19000
WM1	27631-304	S	Mid-Flood	3400
WM1	27631-305	M	Mid-Flood	2700
WM1	27631-306	B	Mid-Flood	340
WSD21	27631-307	S	Mid-Flood	9100
WSD21	27631-308	M	Mid-Flood	6100
WSD21	27631-309	B	Mid-Flood	4300
B35	27631-310	S	Mid-Flood	<1
F4	27631-311	S	Mid-Ebb	24
B30	27631-312	M	Mid-Ebb	2

Remarks: 1) < = less than

2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	27631D
Date of Issue:	2017-10-12
Date Received:	2017-10-08
Date Tested:	2017-10-08
Date Completed:	2017-10-12

ATTN: Ms. Mei Ling Tang

Page: 1 of 2

Sample Description : 29 liquid samples as received from client said to be water
Laboratory No. : 27631D
Project No. : MA11007(DC/2009/10)
Project Name : HATS Stage 2A – Upgrading Works at Stonecutter Island Sewage Treatment Works – Main pumping Station, Sedimentation Tanks and Ancillary Facilities
Custody No. : MA11007(Route 5)/170910
Sampling Date : 2017-10-08

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B24	27631-313	S	Mid-Ebb	<1
B24	27631-314	M	Mid-Ebb	<1
B24	27631-315	B	Mid-Ebb	<1
B25	27631-316	S	Mid-Ebb	<1
B25	27631-318	B	Mid-Ebb	1
B26	27631-319	S	Mid-Ebb	2
B26	27631-320	M	Mid-Ebb	<1
B26	27631-321	B	Mid-Ebb	<1
EM3	27631-322	S	Mid-Ebb	12
EM3	27631-323	M	Mid-Ebb	<1

Remarks: 1) <= less than

2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
 Laboratory Manager

TEST REPORT

Report No.:	27631D
Date of Issue:	2017-10-12
Date Received:	2017-10-08
Date Tested:	2017-10-08
Date Completed:	2017-10-12

Page: 2 of 2

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
EM3	27631-324	B	Mid-Ebb	<1
MM13	27631-325	S	Mid-Ebb	<1
MM13	27631-326	M	Mid-Ebb	<1
MM13	27631-327	B	Mid-Ebb	<1
B24	27631-328	S	Mid-Flood	2
B24	27631-329	M	Mid-Flood	2
B24	27631-330	B	Mid-Flood	<1
B25	27631-331	S	Mid-Flood	<1
B25	27631-333	B	Mid-Flood	1
B26	27631-334	S	Mid-Flood	<1
B26	27631-335	M	Mid-Flood	<1
B26	27631-336	B	Mid-Flood	<1
EM3	27631-337	S	Mid-Flood	2
EM3	27631-338	M	Mid-Flood	1
EM3	27631-339	B	Mid-Flood	20
MM13	27631-340	S	Mid-Flood	<1
MM13	27631-341	M	Mid-Flood	<1
MM13	27631-342	B	Mid-Flood	<1
B26	27631-343	M	Mid-Flood	<1

Remarks: 1) <= less than

2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	27631E
Date of Issue:	2017-10-12
Date Received:	2017-10-08
Date Tested:	2017-10-08
Date Completed:	2017-10-12

ATTN: Ms. Mei Ling Tang

Page: 1 of 2

Sample Description : 19 liquid samples as received from client said to be water
Laboratory No. : 27631E
Project No. : MA11007(DC/2009/10)
Project Name : HATS Stage 2A – Upgrading Works at Stonecutter Island Sewage Treatment Works – Main pumping Station, Sedimentation Tanks and Ancillary Facilities
Custody No. : MA11007(Route 6)/170910
Sampling Date : 2017-10-08

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
SM12	27631-344	S	Mid-Ebb	<1
SM12	27631-345	M	Mid-Ebb	13
SM12	27631-346	B	Mid-Ebb	10
SM17	27631-347	S	Mid-Ebb	<1
SM17	27631-348	M	Mid-Ebb	<1
SM17	27631-349	B	Mid-Ebb	<1
SM6	27631-350	S	Mid-Ebb	<1
SM6	27631-351	M	Mid-Ebb	<1
SM6	27631-352	B	Mid-Ebb	<1
SM12	27631-353	S	Mid-Flood	2

Remarks: 1) <= less than
 2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
 Laboratory Manager

TEST REPORT

Report No.:	27631E
Date of Issue:	2017-10-12
Date Received:	2017-10-08
Date Tested:	2017-10-08
Date Completed:	2017-10-12

Page: 2 of 2

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
SM12	27631-354	M	Mid-Flood	200
SM12	27631-355	B	Mid-Flood	82
SM17	27631-356	S	Mid-Flood	10
SM17	27631-357	M	Mid-Flood	2
SM17	27631-358	B	Mid-Flood	<1
SM6	27631-359	S	Mid-Flood	51
SM6	27631-360	M	Mid-Flood	3
SM6	27631-361	B	Mid-Flood	<1
SM12	27631-362	B	Mid-Flood	78

Remarks: 1) <= less than

2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	27869
Date of Issue:	2017-11-23
Date Received:	2017-11-19
Date Tested:	2017-11-19
Date Completed:	2017-11-23

ATTN: Ms. Mei Ling Tang

Page: 1 of 3

Sample Description : 69 liquid samples as received from client said to be water
Laboratory No. : 27869
Project No. : MA11007(DC/2009/10)
Project Name : HATS Stage 2A – Upgrading Works at Stonecutter Island Sewage Treatment Works – Main pumping Station, Sedimentation Tanks and Ancillary Facilities
Custody No. : MA11007(Route 1)/171119
Sampling Date : 2017-11-19

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B7	27869-2	M	Mid-Ebb	1800
B8	27869-4	S	Mid-Ebb	3700
B8	27869-5	M	Mid-Ebb	3200
B8	27869-6	B	Mid-Ebb	3300
B9	27869-7	S	Mid-Ebb	2400
B9	27869-9	B	Mid-Ebb	3100
B10	27869-10	S	Mid-Ebb	2100
B10	27869-12	B	Mid-Ebb	3200
B11	27869-14	M	Mid-Ebb	2800
B12	27869-16	S	Mid-Ebb	1800

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Laboratory Manager

TEST REPORT

Report No.:	27869
Date of Issue:	2017-11-23
Date Received:	2017-11-19
Date Tested:	2017-11-19
Date Completed:	2017-11-23

Page: 2 of 3

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B12	27869-18	B	Mid-Ebb	1700
B13	27869-19	S	Mid-Ebb	1500
B13	27869-20	M	Mid-Ebb	1900
B13	27869-21	B	Mid-Ebb	1900
WSD4	27869-22	S	Mid-Ebb	1800
WSD4	27869-23	M	Mid-Ebb	1800
WSD4	27869-24	B	Mid-Ebb	1800
VM14	27869-25	S	Mid-Ebb	1500
VM14	27869-26	M	Mid-Ebb	1200
VM14	27869-27	B	Mid-Ebb	1900
WSD5	27869-28	S	Mid-Ebb	1900
WSD5	27869-29	M	Mid-Ebb	1500
WSD5	27869-30	B	Mid-Ebb	1600
VM12	27869-31	S	Mid-Ebb	2100
VM12	27869-32	M	Mid-Ebb	1900
VM12	27869-33	B	Mid-Ebb	3600
WM4	27869-34	S	Mid-Ebb	1400
WM4	27869-35	M	Mid-Ebb	1700
WM4	27869-36	B	Mid-Ebb	2500
B14	27869-38	M	Mid-Ebb	2500
F5	27869-40	S	Mid-Ebb	1900
F5	27869-41	M	Mid-Ebb	3200
F5	27869-42	B	Mid-Ebb	840
B7	27869-44	M	Mid-Flood	1700
B8	27869-46	S	Mid-Flood	2300
B8	27869-47	M	Mid-Flood	1900
B8	27869-48	B	Mid-Flood	2200
B9	27869-49	S	Mid-Flood	2500
B9	27869-51	B	Mid-Flood	2300
B10	27869-52	S	Mid-Flood	1900

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	27869
Date of Issue:	2017-11-23
Date Received:	2017-11-19
Date Tested:	2017-11-19
Date Completed:	2017-11-23

Page: 3 of 3

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B10	27869-54	B	Mid-Flood	3100
B11	27869-56	M	Mid-Flood	2300
B12	27869-58	S	Mid-Flood	2100
B12	27869-60	B	Mid-Flood	2600
B13	27869-61	S	Mid-Flood	2600
B13	27869-62	M	Mid-Flood	2500
B13	27869-63	B	Mid-Flood	2300
WSD4	27869-64	S	Mid-Flood	3100
WSD4	27869-65	M	Mid-Flood	3100
WSD4	27869-66	B	Mid-Flood	2400
VM14	27869-67	S	Mid-Flood	2100
VM14	27869-68	M	Mid-Flood	2100
VM14	27869-69	B	Mid-Flood	1900
WSD5	27869-70	S	Mid-Flood	1300
WSD5	27869-71	M	Mid-Flood	2000
WSD5	27869-72	B	Mid-Flood	1700
VM12	27869-73	S	Mid-Flood	1700
VM12	27869-74	M	Mid-Flood	1900
VM12	27869-75	B	Mid-Flood	1800
WM4	27869-76	S	Mid-Flood	1500
WM4	27869-77	M	Mid-Flood	1100
WM4	27869-78	B	Mid-Flood	2100
B14	27869-80	M	Mid-Flood	1000
F5	27869-82	S	Mid-Flood	860
F5	27869-83	M	Mid-Flood	1100
F5	27869-84	B	Mid-Flood	940
B13	27869-85	S	Mid-Flood	1900
F5	27869-86	S	Mid-Ebb	1660
VM12	27869-87	M	Mid-Ebb	1900

Remarks: 1) <= less than

2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	27869A
Date of Issue:	2017-11-23
Date Received:	2017-11-19
Date Tested:	2017-11-19
Date Completed:	2017-11-23

ATTN: Ms. Mei Ling Tang

Page: 1 of 4

Sample Description : 80 liquid samples as received from client said to be water
Laboratory No. : 27869A
Project No. : MA11007(DC/2009/10)
Project Name : HATS Stage 2A – Upgrading Works at Stonecutter Island Sewage Treatment Works – Main pumping Station, Sedimentation Tanks and Ancillary Facilities
Custody No. : MA11007(Route 2)/171119
Sampling Date : 2017-11-19

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD6	27869-88	S	Mid-Ebb	540
WSD6	27869-90	B	Mid-Ebb	1100
WSD7	27869-91	S	Mid-Ebb	2500
WSD7	27869-92	M	Mid-Ebb	2400
WSD7	27869-93	B	Mid-Ebb	1700
VM4	27869-94	S	Mid-Ebb	480
VM4	27869-95	M	Mid-Ebb	660
VM4	27869-96	B	Mid-Ebb	860
WSD9	27869-97	S	Mid-Ebb	130
WSD9	27869-98	M	Mid-Ebb	78

Remarks: 1) <= less than
 2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
 Laboratory Manager

TEST REPORT

Report No.:	27869A
Date of Issue:	2017-11-23
Date Received:	2017-11-19
Date Tested:	2017-11-19
Date Completed:	2017-11-23
Page:	2 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD9	27869-99	B	Mid-Ebb	80
VM5	27869-100	S	Mid-Ebb	980
VM5	27869-101	M	Mid-Ebb	960
VM5	27869-102	B	Mid-Ebb	860
WSD22	27869-103	S	Mid-Ebb	880
WSD22	27869-104	M	Mid-Ebb	760
WSD22	27869-105	B	Mid-Ebb	560
WSD18	27869-106	S	Mid-Ebb	2300
WSD18	27869-107	M	Mid-Ebb	1900
WSD18	27869-108	B	Mid-Ebb	1900
WSD19	27869-109	S	Mid-Ebb	2300
WSD19	27869-110	M	Mid-Ebb	2300
WSD19	27869-111	B	Mid-Ebb	2400
VM7	27869-112	S	Mid-Ebb	1700
VM7	27869-113	M	Mid-Ebb	1400
VM7	27869-114	B	Mid-Ebb	1200
WSD20	27869-115	S	Mid-Ebb	3800
WSD20	27869-116	M	Mid-Ebb	1600
WSD20	27869-117	B	Mid-Ebb	2800
WM2	27869-118	S	Mid-Ebb	1700
WM2	27869-119	M	Mid-Ebb	2000
WM2	27869-120	B	Mid-Ebb	2100
VM8	27869-121	S	Mid-Ebb	29000
VM8	27869-122	M	Mid-Ebb	3000
VM8	27869-123	B	Mid-Ebb	2800
VM15	27869-124	S	Mid-Ebb	720
VM15	27869-125	M	Mid-Ebb	480
VM15	27869-126	B	Mid-Ebb	480
WSD6	27869-127	S	Mid-Flood	460
WSD6	27869-128	M	Mid-Flood	290

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	27869A
Date of Issue:	2017-11-23
Date Received:	2017-11-19
Date Tested:	2017-11-19
Date Completed:	2017-11-23

Page: 3 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD6	27869-129	B	Mid-Flood	540
WSD7	27869-130	S	Mid-Flood	1200
WSD7	27869-131	M	Mid-Flood	1200
WSD7	27869-132	B	Mid-Flood	1000
VM4	27869-133	S	Mid-Flood	500
VM4	27869-134	M	Mid-Flood	760
VM4	27869-135	B	Mid-Flood	740
WSD9	27869-136	S	Mid-Flood	980
WSD9	27869-137	M	Mid-Flood	560
WSD9	27869-138	B	Mid-Flood	250
VM5	27869-139	S	Mid-Flood	2100
VM5	27869-140	M	Mid-Flood	1800
VM5	27869-141	B	Mid-Flood	1100
WSD22	27869-142	S	Mid-Flood	2300
WSD22	27869-143	M	Mid-Flood	1900
WSD22	27869-144	B	Mid-Flood	2300
WSD18	27869-145	S	Mid-Flood	1900
WSD18	27869-146	M	Mid-Flood	3000
WSD18	27869-147	B	Mid-Flood	2600
WSD19	27869-148	S	Mid-Flood	2500
WSD19	27869-149	M	Mid-Flood	2600
WSD19	27869-150	B	Mid-Flood	3400
VM7	27869-151	S	Mid-Ebb	5100
VM7	27869-152	M	Mid-Ebb	4400
VM7	27869-153	B	Mid-Ebb	2300
WSD20	27869-154	S	Mid-Ebb	26000
WSD20	27869-155	M	Mid-Ebb	19000
WSD20	27869-156	B	Mid-Ebb	14000
WM2	27869-157	S	Mid-Ebb	2300
WM2	27869-158	M	Mid-Ebb	2900

Remarks: 1) <= less than

2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	27869A
Date of Issue:	2017-11-23
Date Received:	2017-11-19
Date Tested:	2017-11-19
Date Completed:	2017-11-23

Page: 4 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WM2	27869-159	B	Mid-Ebb	1900
VM8	27869-160	S	Mid-Ebb	12000
VM8	27869-161	M	Mid-Ebb	6200
VM8	27869-162	B	Mid-Ebb	1400
VM15	27869-163	S	Mid-Ebb	300
VM15	27869-164	M	Mid-Ebb	310
VM15	27869-165	B	Mid-Ebb	240
WSD20	27869-166	M	Mid-Flood	9600
WSD6	27869-167	B	Mid-Ebb	980
WSD9	27869-168	S	Mid-Ebb	110

Remarks: 1) < = less than
2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	27869B
Date of Issue:	2017-11-23
Date Received:	2017-11-19
Date Tested:	2017-11-19
Date Completed:	2017-11-23

ATTN: Ms. Mei Ling Tang

Page: 1 of 4

Sample Description : 75 liquid samples as received from client said to be water
Laboratory No. : 27869B
Project No. : MA11007(DC/2009/10)
Project Name : HATS Stage 2A – Upgrading Works at Stonecutter Island Sewage Treatment Works – Main pumping Station, Sedimentation Tanks and Ancillary Facilities
Custody No. : MA11007(Route 3)/171119
Sampling Date : 2017-11-19

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
VM2	27869-169	S	Mid-Ebb	56
VM2	27869-170	M	Mid-Ebb	180
VM2	27869-171	B	Mid-Ebb	66
WSD10	27869-172	S	Mid-Ebb	740
WSD10	27869-173	M	Mid-Ebb	510
WSD10	27869-174	B	Mid-Ebb	100
WSD11	27869-175	S	Mid-Ebb	110
WSD11	27869-176	M	Mid-Ebb	76
WSD11	27869-177	B	Mid-Ebb	110
VM1	27869-178	S	Mid-Ebb	54

Remarks: 1) < = less than
2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Laboratory Manager

TEST REPORT

Report No.:	27869B
Date of Issue:	2017-11-23
Date Received:	2017-11-19
Date Tested:	2017-11-19
Date Completed:	2017-11-23

Page: 2 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
VM1	27869-179	M	Mid-Ebb	160
VM1	27869-180	B	Mid-Ebb	140
WSD12	27869-181	S	Mid-Ebb	60
WSD12	27869-182	M	Mid-Ebb	78
WSD12	27869-183	B	Mid-Ebb	55
JM3	27869-184	S	Mid-Ebb	170
JM3	27869-185	M	Mid-Ebb	10
JM3	27869-186	B	Mid-Ebb	6
EM1	27869-187	S	Mid-Ebb	14
EM1	27869-188	M	Mid-Ebb	14
EM1	27869-189	B	Mid-Ebb	36
EM2	27869-190	S	Mid-Ebb	6
EM2	27869-191	M	Mid-Ebb	16
EM2	27869-192	B	Mid-Ebb	4
F1	27869-193	S	Mid-Ebb	4
F1	27869-194	M	Mid-Ebb	<1
F1	27869-195	B	Mid-Ebb	24
WSD13	27869-196	S	Mid-Ebb	86
WSD13	27869-197	M	Mid-Ebb	72
WSD13	27869-198	B	Mid-Ebb	110
WSD15	27869-199	S	Mid-Ebb	180
WSD15	27869-200	M	Mid-Ebb	280
WSD15	27869-201	B	Mid-Ebb	260
WSD17	27869-202	S	Mid-Ebb	370
WSD17	27869-203	M	Mid-Ebb	290
WSD17	27869-204	B	Mid-Ebb	200
VM2	27869-205	S	Mid-Flood	230
VM2	27869-206	M	Mid-Flood	170
VM2	27869-207	B	Mid-Flood	97
WSD10	27869-208	S	Mid-Flood	160

Remarks: 1) < = less than

2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	27869B
Date of Issue:	2017-11-23
Date Received:	2017-11-19
Date Tested:	2017-11-19
Date Completed:	2017-11-23

Page: 3 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD10	27869-209	M	Mid-Flood	210
WSD10	27869-210	B	Mid-Flood	350
WSD11	27869-211	S	Mid-Flood	330
WSD11	27869-212	M	Mid-Flood	210
WSD11	27869-213	B	Mid-Flood	120
VM1	27869-214	S	Mid-Flood	300
VM1	27869-215	M	Mid-Flood	140
VM1	27869-216	B	Mid-Flood	110
WSD12	27869-217	S	Mid-Flood	18
WSD12	27869-218	M	Mid-Flood	<1
WSD12	27869-219	B	Mid-Flood	6
JM3	27869-220	S	Mid-Flood	37
JM3	27869-221	M	Mid-Flood	24
JM3	27869-222	B	Mid-Flood	18
EM1	27869-223	S	Mid-Flood	2
EM1	27869-224	M	Mid-Flood	150
EM1	27869-225	B	Mid-Flood	110
EM2	27869-226	S	Mid-Flood	150
EM2	27869-227	M	Mid-Flood	8
EM2	27869-228	B	Mid-Flood	22
F1	27869-229	S	Mid-Flood	4
F1	27869-230	M	Mid-Flood	32
F1	27869-231	B	Mid-Flood	18
WSD13	27869-232	S	Mid-Flood	100
WSD13	27869-233	M	Mid-Flood	160
WSD13	27869-234	B	Mid-Flood	240
WSD15	27869-235	S	Mid-Flood	340
WSD15	27869-236	M	Mid-Flood	450
WSD15	27869-237	B	Mid-Flood	270
WSD17	27869-238	S	Mid-Flood	590

Remarks: 1) <= less than

2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	27869B
Date of Issue:	2017-11-23
Date Received:	2017-11-19
Date Tested:	2017-11-19
Date Completed:	2017-11-23

Page: 4 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD17	27869-239	M	Mid-Flood	690
WSD17	27869-240	B	Mid-Flood	980
JM3	27869-241	B	Mid-Flood	18
WSD15	27869-242	M	Mid-Ebb	250
F1	27869-243	B	Mid-Ebb	30

Remarks: 1) <= less than

2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	27869C
Date of Issue:	2017-11-23
Date Received:	2017-11-19
Date Tested:	2017-11-19
Date Completed:	2017-11-23

ATTN: Ms. Mei Ling Tang

Page: 1 of 3

Sample Description : 57 liquid samples as received from client said to be water
Laboratory No. : 27869C
Project No. : MA11007(DC/2009/10)
Project Name : HATS Stage 2A – Upgrading Works at Stonecutter Island Sewage Treatment Works – Main pumping Station, Sedimentation Tanks and Ancillary Facilities
Custody No. : MA11007(Route 4)/171119
Sampling Date : 2017-11-19

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B35	27869-244	S	Mid-Ebb	<1
B35	27869-245	M	Mid-Ebb	<1
B35	27869-246	B	Mid-Ebb	<1
B34	27869-247	S	Mid-Ebb	2
B34	27869-248	M	Mid-Ebb	10
B34	27869-249	B	Mid-Ebb	6
B33	27869-250	S	Mid-Ebb	8
B33	27869-251	M	Mid-Ebb	5
B33	27869-252	B	Mid-Ebb	6
B32	27869-254	M	Mid-Ebb	2

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
 Laboratory Manager

TEST REPORT

Report No.:	27869C
Date of Issue:	2017-11-23
Date Received:	2017-11-19
Date Tested:	2017-11-19
Date Completed:	2017-11-23

Page: 2 of 3

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B31	27869-257	M	Mid-Ebb	<1
B30	27869-260	M	Mid-Ebb	6
SM2	27869-262	S	Mid-Ebb	8
SM2	27869-263	M	Mid-Ebb	3
SM2	27869-264	B	Mid-Ebb	2
SM3	27869-265	S	Mid-Ebb	3
SM3	27869-266	M	Mid-Ebb	<1
SM3	27869-267	B	Mid-Ebb	3
F4	27869-268	S	Mid-Ebb	14
F4	27869-269	M	Mid-Ebb	7
F4	27869-270	B	Mid-Ebb	10
WM1	27869-271	S	Mid-Ebb	4
WM1	27869-272	M	Mid-Ebb	7
WM1	27869-273	B	Mid-Ebb	8
WSD21	27869-274	S	Mid-Ebb	13
WSD21	27869-275	M	Mid-Ebb	12
WSD21	27869-276	B	Mid-Ebb	12
B35	27869-277	S	Mid-Flood	<1
B35	27869-278	M	Mid-Flood	<1
B35	27869-279	B	Mid-Flood	2
B34	27869-280	S	Mid-Flood	3
B34	27869-281	M	Mid-Flood	<1
B34	27869-282	B	Mid-Flood	5
B33	27869-283	S	Mid-Flood	4
B33	27869-284	M	Mid-Flood	<1
B33	27869-285	B	Mid-Flood	4
B32	27869-287	M	Mid-Flood	<1
B31	27869-290	M	Mid-Flood	<1
B30	27869-293	M	Mid-Flood	3
SM2	27869-295	S	Mid-Flood	<1

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	27869C
Date of Issue:	2017-11-23
Date Received:	2017-11-19
Date Tested:	2017-11-19
Date Completed:	2017-11-23

Page: 3 of 3

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
SM2	27869-296	M	Mid-Flood	2
SM2	27869-297	B	Mid-Flood	1
SM3	27869-298	S	Mid-Flood	580
SM3	27869-299	M	Mid-Flood	260
SM3	27869-300	B	Mid-Flood	300
F4	27869-301	S	Mid-Flood	1000
F4	27869-302	M	Mid-Flood	1200
F4	27869-303	B	Mid-Flood	840
WM1	27869-304	S	Mid-Flood	1100
WM1	27869-305	M	Mid-Flood	760
WM1	27869-306	B	Mid-Flood	940
WSD21	27869-307	S	Mid-Flood	11
WSD21	27869-308	M	Mid-Flood	16
WSD21	27869-309	B	Mid-Flood	14
B35	27869-310	S	Mid-Flood	<1
F4	27869-311	S	Mid-Ebb	8
B30	27869-312	M	Mid-Ebb	5

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	27869D
Date of Issue:	2017-11-23
Date Received:	2017-11-19
Date Tested:	2017-11-19
Date Completed:	2017-11-23

ATTN: Ms. Mei Ling Tang

Page: 1 of 2

Sample Description : 29 liquid samples as received from client said to be water
Laboratory No. : 27869D
Project No. : MA11007(DC/2009/10)
Project Name : HATS Stage 2A – Upgrading Works at Stonecutter Island Sewage Treatment Works – Main pumping Station, Sedimentation Tanks and Ancillary Facilities
Custody No. : MA11007(Route 5)/171119
Sampling Date : 2017-11-19

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B24	27869-313	S	Mid-Ebb	190
B24	27869-314	M	Mid-Ebb	26
B24	27869-315	B	Mid-Ebb	160
B25	27869-316	S	Mid-Ebb	100
B25	27869-318	B	Mid-Ebb	49
B26	27869-319	S	Mid-Ebb	94
B26	27869-320	M	Mid-Ebb	79
B26	27869-321	B	Mid-Ebb	78
EM3	27869-322	S	Mid-Ebb	110
EM3	27869-323	M	Mid-Ebb	<1

Remarks: 1) < = less than
 2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
 Laboratory Manager

TEST REPORT

Report No.:	27869D
Date of Issue:	2017-11-23
Date Received:	2017-11-19
Date Tested:	2017-11-19
Date Completed:	2017-11-23
Page:	2 of 2

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
EM3	27869-324	B	Mid-Ebb	8
MM13	27869-325	S	Mid-Ebb	10
MM13	27869-326	M	Mid-Ebb	<1
MM13	27869-327	B	Mid-Ebb	140
B24	27869-328	S	Mid-Flood	20
B24	27869-329	M	Mid-Flood	610
B24	27869-330	B	Mid-Flood	460
B25	27869-331	S	Mid-Flood	6
B25	27869-333	B	Mid-Flood	11
B26	27869-334	S	Mid-Flood	5
B26	27869-335	M	Mid-Flood	16
B26	27869-336	B	Mid-Flood	10
EM3	27869-337	S	Mid-Flood	17
EM3	27869-338	M	Mid-Flood	28
EM3	27869-339	B	Mid-Flood	53
MM13	27869-340	S	Mid-Flood	13
MM13	27869-341	M	Mid-Flood	<1
MM13	27869-342	B	Mid-Flood	<1
B26	27869-343	M	Mid-Flood	11

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	27869E
Date of Issue:	2017-11-23
Date Received:	2017-11-19
Date Tested:	2017-11-19
Date Completed:	2017-11-23

ATTN: Ms. Mei Ling Tang

Page: 1 of 2

Sample Description : 19 liquid samples as received from client said to be water
Laboratory No. : 27869E
Project No. : MA11007(DC/2009/10)
Project Name : HATS Stage 2A – Upgrading Works at Stonecutter Island Sewage Treatment Works – Main pumping Station, Sedimentation Tanks and Ancillary Facilities
Custody No. : MA11007(Route 6)/171119
Sampling Date : 2017-11-19

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
SM12	27869-344	S	Mid-Ebb	20
SM12	27869-345	M	Mid-Ebb	16
SM12	27869-346	B	Mid-Ebb	17
SM17	27869-347	S	Mid-Ebb	<1
SM17	27869-348	M	Mid-Ebb	<1
SM17	27869-349	B	Mid-Ebb	<1
SM6	27869-350	S	Mid-Ebb	2
SM6	27869-351	M	Mid-Ebb	2
SM6	27869-352	B	Mid-Ebb	2
SM12	27869-353	S	Mid-Flood	10

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
 Laboratory Manager

TEST REPORT

Report No.:	27869E
Date of Issue:	2017-11-23
Date Received:	2017-11-19
Date Tested:	2017-11-19
Date Completed:	2017-11-23

Page: 2 of 2

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
SM12	27869-354	M	Mid-Flood	12
SM12	27869-355	B	Mid-Flood	16
SM17	27869-356	S	Mid-Flood	4
SM17	27869-357	M	Mid-Flood	<1
SM17	27869-358	B	Mid-Flood	10
SM6	27869-359	S	Mid-Flood	1900
SM6	27869-360	M	Mid-Flood	2
SM6	27869-361	B	Mid-Flood	2
SM12	27869-362	B	Mid-Flood	11

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	27991
Date of Issue:	2017-12-14
Date Received:	2017-12-10
Date Tested:	2017-12-10
Date Completed:	2017-12-14

ATTN: Ms. Mei Ling Tang

Page: 1 of 3

Sample Description : 69 liquid samples as received from client said to be water
Laboratory No. : 27991
Project No. : MA11007(DC/2009/10)
Project Name : HATS Stage 2A – Upgrading Works at Stonecutter Island Sewage Treatment Works – Main pumping Station, Sedimentation Tanks and Ancillary Facilities
Custody No. : MA11007(Route 1)/171210
Sampling Date : 2017-12-10

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B7	27991-2	M	Mid-Ebb	490
B8	27991-4	S	Mid-Ebb	1800
B8	27991-5	M	Mid-Ebb	1300
B8	27991-6	B	Mid-Ebb	1200
B9	27991-7	S	Mid-Ebb	120
B9	27991-9	B	Mid-Ebb	310
B10	27991-10	S	Mid-Ebb	340
B10	27991-12	B	Mid-Ebb	230
B11	27991-14	M	Mid-Ebb	220
B12	27991-16	S	Mid-Ebb	120

Remarks: 1) <= less than
 2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


 PATRICK TSE
 Laboratory Manager

TEST REPORT

Report No.:	27991
Date of Issue:	2017-12-14
Date Received:	2017-12-10
Date Tested:	2017-12-10
Date Completed:	2017-12-14

Page: 2 of 3

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B12	27991-18	B	Mid-Ebb	190
B13	27991-19	S	Mid-Ebb	180
B13	27991-20	M	Mid-Ebb	220
B13	27991-21	B	Mid-Ebb	280
WSD4	27991-22	S	Mid-Ebb	1400
WSD4	27991-23	M	Mid-Ebb	520
WSD4	27991-24	B	Mid-Ebb	700
VM14	27991-25	S	Mid-Ebb	420
VM14	27991-26	M	Mid-Ebb	610
VM14	27991-27	B	Mid-Ebb	660
WSD5	27991-28	S	Mid-Ebb	1200
WSD5	27991-29	M	Mid-Ebb	1100
WSD5	27991-30	B	Mid-Ebb	1400
VM12	27991-31	S	Mid-Ebb	16000
VM12	27991-32	M	Mid-Ebb	11000
VM12	27991-33	B	Mid-Ebb	6000
VM4	27991-34	S	Mid-Ebb	980
VM4	27991-35	M	Mid-Ebb	1200
VM4	27991-36	B	Mid-Ebb	1800
B14	27991-38	M	Mid-Ebb	320
F5	27991-40	S	Mid-Ebb	180
F5	27991-41	M	Mid-Ebb	320
F5	27991-42	B	Mid-Ebb	510
B7	27991-44	M	Mid-Flood	320
B8	27991-46	S	Mid-Flood	48
B8	27991-47	M	Mid-Flood	70
B8	27991-48	B	Mid-Flood	150
B9	27991-49	S	Mid-Flood	800
B9	27991-51	B	Mid-Flood	180
B10	27991-52	S	Mid-Flood	3

Remarks: 1) <= less than

2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	27991
Date of Issue:	2017-12-14
Date Received:	2017-12-10
Date Tested:	2017-12-10
Date Completed:	2017-12-14

Page: 3 of 3

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B10	27991-54	B	Mid-Flood	30
B11	27991-56	M	Mid-Flood	120
B12	27991-58	S	Mid-Flood	110
B12	27991-60	B	Mid-Flood	160
B13	27991-61	S	Mid-Flood	100
B13	27991-62	M	Mid-Flood	360
B13	27991-63	B	Mid-Flood	300
WSD4	27991-64	S	Mid-Flood	330
WSD4	27991-65	M	Mid-Flood	220
WSD4	27991-66	B	Mid-Flood	120
VM14	27991-67	S	Mid-Flood	170
VM14	27991-68	M	Mid-Flood	240
VM14	27991-69	B	Mid-Flood	180
WSD5	27991-70	S	Mid-Flood	99
WSD5	27991-71	M	Mid-Flood	190
WSD5	27991-72	B	Mid-Flood	180
VM12	27991-73	S	Mid-Flood	300
VM12	27991-74	M	Mid-Flood	32
VM12	27991-75	B	Mid-Flood	700
VM4	27991-76	S	Mid-Flood	30
VM4	27991-77	M	Mid-Flood	1
VM4	27991-78	B	Mid-Flood	29
B14	27991-80	M	Mid-Flood	4
F5	27991-82	S	Mid-Flood	6
F5	27991-83	M	Mid-Flood	20
F5	27991-84	B	Mid-Flood	6
B13	27991-85	S	Mid-Flood	120
F5	27991-86	S	Mid-Ebb	210
VM12	27991-87	M	Mid-Ebb	9200

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	27991A
Date of Issue:	2017-12-14
Date Received:	2017-12-10
Date Tested:	2017-12-10
Date Completed:	2017-12-14

ATTN: Ms. Mei Ling Tang

Page: 1 of 4

Sample Description : 79 liquid samples as received from client said to be water
Laboratory No. : 27991A
Project No. : MA11007(DC/2009/10)
Project Name : HATS Stage 2A – Upgrading Works at Stonecutter Island Sewage Treatment Works – Main pumping Station, Sedimentation Tanks and Ancillary Facilities
Custody No. : MA11007(Route 2)/171210
Sampling Date : 2017-12-10

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD6	27991-88	S	Mid-Ebb	170
WSD6	27991-90	B	Mid-Ebb	280
WSD7	27991-91	S	Mid-Ebb	1700
WSD7	27991-92	M	Mid-Ebb	2000
WSD7	27991-93	B	Mid-Ebb	1700
VM4	27991-94	S	Mid-Ebb	840
VM4	27991-95	M	Mid-Ebb	480
VM4	27991-96	B	Mid-Ebb	480
WSD9	27991-97	S	Mid-Ebb	710
WSD9	27991-98	M	Mid-Ebb	300

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Laboratory Manager

TEST REPORT

Report No.:	27991A
Date of Issue:	2017-12-14
Date Received:	2017-12-10
Date Tested:	2017-12-10
Date Completed:	2017-12-14

Page: 2 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD9	27991-99	B	Mid-Ebb	140
VM5	27991-100	S	Mid-Ebb	2300
VM5	27991-101	M	Mid-Ebb	2800
VM5	27991-102	B	Mid-Ebb	2400
WSD22	27991-103	S	Mid-Ebb	4500
WSD22	27991-104	M	Mid-Ebb	1200
WSD22	27991-105	B	Mid-Ebb	680
WSD18	27991-106	S	Mid-Ebb	4000
WSD18	27991-107	M	Mid-Ebb	3000
WSD18	27991-108	B	Mid-Ebb	4200
WSD19	27991-109	S	Mid-Ebb	5100
WSD19	27991-110	M	Mid-Ebb	4000
WSD19	27991-111	B	Mid-Ebb	4900
VM7	27991-112	S	Mid-Ebb	1600
VM7	27991-113	M	Mid-Ebb	1500
VM7	27991-114	B	Mid-Ebb	1500
WSD20	27991-115	S	Mid-Ebb	6400
WSD20	27991-116	M	Mid-Ebb	7600
WSD20	27991-117	B	Mid-Ebb	5000
WM2	27991-118	S	Mid-Ebb	4400
WM2	27991-119	M	Mid-Ebb	4400
WM2	27991-120	B	Mid-Ebb	4700
VM8	27991-121	S	Mid-Ebb	5600
VM8	27991-122	M	Mid-Ebb	5200
VM8	27991-123	B	Mid-Ebb	5000
VM15	27991-124	S	Mid-Ebb	1700
VM15	27991-125	M	Mid-Ebb	1600
VM15	27991-126	B	Mid-Ebb	2400
WSD6	27991-127	S	Mid-Flood	44
WSD6	27991-129	B	Mid-Flood	130

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	27991A
Date of Issue:	2017-12-14
Date Received:	2017-12-10
Date Tested:	2017-12-10
Date Completed:	2017-12-14
Page:	3 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD7	27991-130	S	Mid-Flood	3000
WSD7	27991-131	M	Mid-Flood	2900
WSD7	27991-132	B	Mid-Flood	2400
VM4	27991-133	S	Mid-Flood	440
VM4	27991-134	M	Mid-Flood	780
VM4	27991-135	B	Mid-Flood	1300
WSD9	27991-136	S	Mid-Flood	2100
WSD9	27991-137	M	Mid-Flood	840
WSD9	27991-138	B	Mid-Flood	780
VM5	27991-139	S	Mid-Flood	4200
VM5	27991-140	M	Mid-Flood	5200
VM5	27991-141	B	Mid-Flood	3600
WSD22	27991-142	S	Mid-Flood	2000
WSD22	27991-143	M	Mid-Flood	2300
WSD22	27991-144	B	Mid-Flood	2500
WSD18	27991-145	S	Mid-Flood	12000
WSD18	27991-146	M	Mid-Flood	7600
WSD18	27991-147	B	Mid-Flood	14000
WSD19	27991-148	S	Mid-Flood	9600
WSD19	27991-149	M	Mid-Flood	8600
WSD19	27991-150	B	Mid-Flood	6100
VM7	27991-151	S	Mid-Ebb	5600
VM7	27991-152	M	Mid-Ebb	6600
VM7	27991-153	B	Mid-Ebb	7200
WSD20	27991-154	S	Mid-Ebb	9900
WSD20	27991-155	M	Mid-Ebb	9800
WSD20	27991-156	B	Mid-Ebb	15000
WM2	27991-157	S	Mid-Ebb	600
WM2	27991-158	M	Mid-Ebb	840
WM2	27991-159	B	Mid-Ebb	780

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	27991A
Date of Issue:	2017-12-14
Date Received:	2017-12-10
Date Tested:	2017-12-10
Date Completed:	2017-12-14

Page: 4 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
VM8	27991-160	S	Mid-Ebb	9200
VM8	27991-161	M	Mid-Ebb	13000
VM8	27991-162	B	Mid-Ebb	14000
VM15	27991-163	S	Mid-Ebb	4000
VM15	27991-164	M	Mid-Ebb	4500
VM15	27991-165	B	Mid-Ebb	5500
WSD20	27991-166	M	Mid-Flood	8900
WSD6	27991-167	B	Mid-Ebb	240
WSD9	27991-168	S	Mid-Ebb	740

Remarks: 1) <= less than

2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	27991B
Date of Issue:	2017-12-14
Date Received:	2017-12-10
Date Tested:	2017-12-10
Date Completed:	2017-12-14

ATTN: Ms. Mei Ling Tang

Page: 1 of 3

Sample Description : 69 liquid samples as received from client said to be water
Laboratory No. : 27991B
Project No. : MA11007(DC/2009/10)
Project Name : HATS Stage 2A – Upgrading Works at Stonecutter Island Sewage Treatment Works – Main pumping Station, Sedimentation Tanks and Ancillary Facilities
Custody No. : MA11007(Route 3)/171210
Sampling Date : 2017-12-10

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

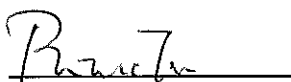
Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
VM2	27991-169	S	Mid-Ebb	56
VM2	27991-170	M	Mid-Ebb	68
VM2	27991-171	B	Mid-Ebb	68
WSD10	27991-172	S	Mid-Ebb	80
WSD10	27991-173	M	Mid-Ebb	54
WSD10	27991-174	B	Mid-Ebb	61
WSD11	27991-175	S	Mid-Ebb	84
WSD11	27991-176	M	Mid-Ebb	65
WSD11	27991-177	B	Mid-Ebb	96
VM1	27991-178	S	Mid-Ebb	34

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Laboratory Manager

TEST REPORT

Report No.:	27991B
Date of Issue:	2017-12-14
Date Received:	2017-12-10
Date Tested:	2017-12-10
Date Completed:	2017-12-14

Page: 2 of 3

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
VM1	27991-179	M	Mid-Ebb	68
VM1	27991-180	B	Mid-Ebb	99
WSD12	27991-181	S	Mid-Ebb	<1
WSD12	27991-182	M	Mid-Ebb	6
WSD12	27991-183	B	Mid-Ebb	11
JM3	27991-184	S	Mid-Ebb	52
JM3	27991-185	M	Mid-Ebb	61
JM3	27991-186	B	Mid-Ebb	52
EM1	27991-187	S	Mid-Ebb	18
EM1	27991-188	M	Mid-Ebb	10
EM1	27991-189	B	Mid-Ebb	11
EM2	27991-190	S	Mid-Ebb	2
EM2	27991-191	M	Mid-Ebb	2
EM2	27991-192	B	Mid-Ebb	<1
WSD13	27991-193	S	Mid-Ebb	4000
WSD13	27991-194	M	Mid-Ebb	620
WSD13	27991-195	B	Mid-Ebb	96
WSD15	27991-196	S	Mid-Ebb	180
WSD15	27991-197	M	Mid-Ebb	170
WSD15	27991-198	B	Mid-Ebb	140
WSD17	27991-199	S	Mid-Ebb	2500
WSD17	27991-200	M	Mid-Ebb	1800
WSD17	27991-201	B	Mid-Ebb	290
VM2	27991-202	S	Mid-Flood	36
VM2	27991-203	M	Mid-Flood	96
VM2	27991-204	B	Mid-Flood	130
WSD10	27991-205	S	Mid-Flood	75
WSD10	27991-206	M	Mid-Flood	66
WSD10	27991-207	B	Mid-Flood	110
WSD11	27991-208	S	Mid-Flood	26

Remarks: 1) <= less than

2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	27991B
Date of Issue:	2017-12-14
Date Received:	2017-12-10
Date Tested:	2017-12-10
Date Completed:	2017-12-14

Page: 3 of 3

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD11	27991-209	M	Mid-Flood	140
WSD11	27991-210	B	Mid-Flood	100
VM1	27991-211	S	Mid-Flood	94
VM1	27991-212	M	Mid-Flood	130
VM1	27991-213	B	Mid-Flood	38
WSD12	27991-214	S	Mid-Flood	24
WSD12	27991-215	M	Mid-Flood	46
WSD12	27991-216	B	Mid-Flood	15
JM3	27991-217	S	Mid-Flood	66
JM3	27991-218	M	Mid-Flood	73
JM3	27991-219	B	Mid-Flood	120
EM1	27991-220	S	Mid-Flood	16
EM1	27991-221	M	Mid-Flood	17
EM1	27991-222	B	Mid-Flood	14
EM2	27991-223	S	Mid-Flood	9
EM2	27991-224	M	Mid-Flood	10
EM2	27991-225	B	Mid-Flood	12
WSD13	27991-226	S	Mid-Flood	14
WSD13	27991-227	M	Mid-Flood	11
WSD13	27991-228	B	Mid-Flood	34
WSD15	27991-229	S	Mid-Flood	150
WSD15	27991-230	M	Mid-Flood	200
WSD15	27991-231	B	Mid-Flood	120
WSD17	27991-232	S	Mid-Flood	23
WSD17	27991-233	M	Mid-Flood	96
WSD17	27991-234	B	Mid-Flood	140
JM3	27991-235	B	Mid-Flood	94
WSD15	27991-236	M	Mid-Ebb	190
F1	27991-237	B	Mid-Ebb	8

Remarks: 1) <= less than

2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	27991C
Date of Issue:	2017-12-14
Date Received:	2017-12-10
Date Tested:	2017-12-10
Date Completed:	2017-12-14

ATTN: Ms. Mei Ling Tang

Page: 1 of 3

Sample Description : 57 liquid samples as received from client said to be water
Laboratory No. : 27991C
Project No. : MA11007(DC/2009/10)
Project Name : HATS Stage 2A – Upgrading Works at Stonecutter Island Sewage Treatment Works – Main pumping Station, Sedimentation Tanks and Ancillary Facilities
Custody No. : MA11007(Route 4)/171210
Sampling Date : 2017-12-10

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B35	27991-238	S	Mid-Ebb	<1
B35	27991-239	M	Mid-Ebb	<1
B35	27991-240	B	Mid-Ebb	<1
B34	27991-241	S	Mid-Ebb	<1
B34	27991-242	M	Mid-Ebb	1
B34	27991-243	B	Mid-Ebb	<1
B33	27991-244	S	Mid-Ebb	<1
B33	27991-245	M	Mid-Ebb	<1
B33	27991-246	B	Mid-Ebb	3
B32	27991-248	M	Mid-Ebb	<1

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Laboratory Manager

TEST REPORT

Report No.:	27991C
Date of Issue:	2017-12-14
Date Received:	2017-12-10
Date Tested:	2017-12-10
Date Completed:	2017-12-14
Page:	2 of 3

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B31	27991-251	M	Mid-Ebb	<1
B30	27991-254	M	Mid-Ebb	<1
SM2	27991-256	S	Mid-Ebb	2
SM2	27991-257	M	Mid-Ebb	4
SM2	27991-258	B	Mid-Ebb	<1
SM3	27991-259	S	Mid-Ebb	12
SM3	27991-260	M	Mid-Ebb	33
SM3	27991-261	B	Mid-Ebb	46
F4	27991-262	S	Mid-Ebb	1100
F4	27991-263	M	Mid-Ebb	920
F4	27991-264	B	Mid-Ebb	740
WM1	27991-265	S	Mid-Ebb	1400
WM1	27991-266	M	Mid-Ebb	1300
WM1	27991-267	B	Mid-Ebb	420
WSD21	27991-268	S	Mid-Ebb	26
WSD21	27991-269	M	Mid-Ebb	12
WSD21	27991-270	B	Mid-Ebb	17
B35	27991-271	S	Mid-Flood	<1
B35	27991-272	M	Mid-Flood	<1
B35	27991-273	B	Mid-Flood	<1
B34	27991-274	S	Mid-Flood	14
B34	27991-275	M	Mid-Flood	<1
B34	27991-276	B	Mid-Flood	<1
B33	27991-277	S	Mid-Flood	<1
B33	27991-278	M	Mid-Flood	<1
B33	27991-279	B	Mid-Flood	8
B32	27991-281	M	Mid-Flood	<1
B31	27991-284	M	Mid-Flood	<1
B30	27991-287	M	Mid-Flood	<1
SM2	27991-289	S	Mid-Flood	<1

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	27991C
Date of Issue:	2017-12-14
Date Received:	2017-12-10
Date Tested:	2017-12-10
Date Completed:	2017-12-14

Page: 3 of 3

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
SM2	27991-290	M	Mid-Flood	1
SM2	27991-291	B	Mid-Flood	22
SM3	27991-292	S	Mid-Flood	410
SM3	27991-293	M	Mid-Flood	240
SM3	27991-294	B	Mid-Flood	400
F4	27991-295	S	Mid-Flood	56
F4	27991-296	M	Mid-Flood	46
F4	27991-297	B	Mid-Flood	52
WM1	27991-298	S	Mid-Flood	7100
WM1	27991-299	M	Mid-Flood	2000
WM1	27991-300	B	Mid-Flood	2000
WSD21	27991-301	S	Mid-Flood	8
WSD21	27991-302	M	Mid-Flood	10
WSD21	27991-303	B	Mid-Flood	11
B35	27991-304	S	Mid-Flood	<1
F4	27991-305	S	Mid-Ebb	1300
B30	27991-306	M	Mid-Ebb	<1

Remarks: 1) <= less than

2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	27991D
Date of Issue:	2017-12-14
Date Received:	2017-12-10
Date Tested:	2017-12-10
Date Completed:	2017-12-14

ATTN: Ms. Mei Ling Tang

Page: 1 of 2

Sample Description : 35 liquid samples as received from client said to be water
Laboratory No. : 27991D
Project No. : MA11007(DC/2009/10)
Project Name : HATS Stage 2A – Upgrading Works at Stonecutter Island Sewage Treatment
 Works – Main pumping Station, Sedimentation Tanks and Ancillary Facilities
Custody No. : MA11007(Route 5)/171210
Sampling Date : 2017-12-10

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B24	27991-307	S	Mid-Ebb	2
B24	27991-308	M	Mid-Ebb	2
B24	27991-309	B	Mid-Ebb	1
B25	27991-310	S	Mid-Ebb	1
B25	27991-312	B	Mid-Ebb	<1
B26	27991-313	S	Mid-Ebb	18
B26	27991-314	M	Mid-Ebb	150
B26	27991-315	B	Mid-Ebb	90
EM3	27991-316	S	Mid-Ebb	<1
EM3	27991-317	M	Mid-Ebb	<1

Remarks: 1) <= less than
 2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
 Laboratory Manager

TEST REPORT

Report No.:	27991D
Date of Issue:	2017-12-14
Date Received:	2017-12-10
Date Tested:	2017-12-10
Date Completed:	2017-12-14
Page:	2 of 2

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
EM3	27991-318	B	Mid-Ebb	<1
MM13	27991-319	S	Mid-Ebb	<1
MM13	27991-320	M	Mid-Ebb	<1
MM13	27991-321	B	Mid-Ebb	<1
F1	27991-322	S	Mid-Ebb	2
F1	27991-323	M	Mid-Ebb	9
F1	27991-324	B	Mid-Ebb	6
B24	27991-325	S	Mid-Flood	<1
B24	27991-326	M	Mid-Flood	1
B24	27991-327	B	Mid-Flood	<1
B25	27991-328	S	Mid-Flood	2
B25	27991-330	B	Mid-Flood	<1
B26	27991-331	S	Mid-Flood	20
B26	27991-332	M	Mid-Flood	8
B26	27991-333	B	Mid-Flood	14
EM3	27991-334	S	Mid-Flood	6
EM3	27991-335	M	Mid-Flood	5
EM3	27991-336	B	Mid-Flood	1
MM13	27991-337	S	Mid-Flood	<1
MM13	27991-338	M	Mid-Flood	<1
MM13	27991-339	B	Mid-Flood	<1
F1	27991-340	S	Mid-Flood	13
F1	27991-341	M	Mid-Flood	14
F1	27991-342	B	Mid-Flood	4
B26	27991-343	M	Mid-Flood	5

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	27991E
Date of Issue:	2017-12-14
Date Received:	2017-12-10
Date Tested:	2017-12-10
Date Completed:	2017-12-14

ATTN: Ms. Mei Ling Tang

Page: 1 of 2

Sample Description : 19 liquid samples as received from client said to be water
Laboratory No. : 27991E
Project No. : MA11007(DC/2009/10)
Project Name : HATS Stage 2A – Upgrading Works at Stonecutter Island Sewage Treatment Works – Main pumping Station, Sedimentation Tanks and Ancillary Facilities
Custody No. : MA11007(Route 6)/171210
Sampling Date : 2017-12-10

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL


Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
SM12	27991-344	S	Mid-Ebb	27
SM12	27991-345	M	Mid-Ebb	38
SM12	27991-346	B	Mid-Ebb	34
SM17	27991-347	S	Mid-Ebb	<1
SM17	27991-348	M	Mid-Ebb	<1
SM17	27991-349	B	Mid-Ebb	<1
SM6	27991-350	S	Mid-Ebb	<1
SM6	27991-351	M	Mid-Ebb	<1
SM6	27991-352	B	Mid-Ebb	2
SM12	27991-353	S	Mid-Flood	6

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Laboratory Manager

TEST REPORT

Report No.:	27991E
Date of Issue:	2017-12-14
Date Received:	2017-12-10
Date Tested:	2017-12-10
Date Completed:	2017-12-14

Page: 2 of 2

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
SM12	27991-354	M	Mid-Flood	5
SM12	27991-355	B	Mid-Flood	6
SM17	27991-356	S	Mid-Flood	<1
SM17	27991-357	M	Mid-Flood	2
SM17	27991-358	B	Mid-Flood	<1
SM6	27991-359	S	Mid-Flood	<1
SM6	27991-360	M	Mid-Flood	<1
SM6	27991-361	B	Mid-Flood	<1
SM12	27991-362	B	Mid-Flood	9

Remarks: 1) <= less than

2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	28202A
Date of Issue:	2018-01-30
Date Received:	2018-01-20
Date Tested:	2018-01-20
Date Completed:	2018-01-30

ATTN: Ms. Mei Ling Tang

Page: 1 of 3

Sample Description : 68 liquid samples as received from client said to be water
Laboratory No. : 28202A
Project No. : MA11007
Project Name : Contract No. DC/2009/10
HATS Stage 2A, Upgrading Main Pumping Station, Sedimentation Tanks and
Ancillary Facilities at SCISTW
Baseline Marine Water Quality Monitoring
Custody No. : MA11007(Route 1)/180120
Sampling Date : 2018-01-20

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B7	28202-2	M	Mid-Ebb	36
B8	28202-4	S	Mid-Ebb	32
B8	28202-5	M	Mid-Ebb	210
B8	28202-6	B	Mid-Ebb	180
B9	28202-7	S	Mid-Ebb	74
B9	28202-9	B	Mid-Ebb	120
B10	28202-10	S	Mid-Ebb	50
B10	28202-12	B	Mid-Ebb	26
B11	28202-14	M	Mid-Ebb	11
B12	28202-16	S	Mid-Ebb	79

Remarks: 1) <= less than

2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Laboratory Manager

TEST REPORT

Report No.:	28202A
Date of Issue:	2018-01-30
Date Received:	2018-01-20
Date Tested:	2018-01-20
Date Completed:	2018-01-30

Page: 2 of 3

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B12	28202-18	B	Mid-Ebb	220
B13	28202-19	S	Mid-Ebb	20
B13	28202-20	M	Mid-Ebb	9
B13	28202-21	B	Mid-Ebb	220
B14	28202-23	M	Mid-Ebb	15
WM4	28202-25	S	Mid-Ebb	14
WM4	28202-26	M	Mid-Ebb	84
WM4	28202-27	B	Mid-Ebb	130
F5	28202-28	S	Mid-Ebb	120
F5	28202-29	M	Mid-Ebb	100
F5	28202-30	B	Mid-Ebb	99
WSD4	28202-31	S	Mid-Ebb	16
WSD4	28202-32	M	Mid-Ebb	360
WSD4	28202-33	B	Mid-Ebb	150
VM14	28202-34	S	Mid-Ebb	340
VM14	28202-35	M	Mid-Ebb	76
VM14	28202-36	B	Mid-Ebb	250
WSD5	28202-37	S	Mid-Ebb	120
WSD5	28202-38	M	Mid-Ebb	160
WSD5	28202-39	B	Mid-Ebb	210
VM12	28202-40	S	Mid-Ebb	62
VM12	28202-41	M	Mid-Ebb	170
VM12	28202-42	B	Mid-Ebb	130
B13 (QC)	28202-43	S	Mid-Ebb	43
B7	28202-45	M	Mid-Flood	4
B8	28202-47	S	Mid-Flood	2
B8	28202-48	M	Mid-Flood	23
B8	28202-49	B	Mid-Flood	2
B9	28202-50	S	Mid-Flood	1
B9	28202-52	B	Mid-Flood	<1

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	28202A
Date of Issue:	2018-01-30
Date Received:	2018-01-20
Date Tested:	2018-01-20
Date Completed:	2018-01-30

Page: 3 of 3

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B10	28202-53	S	Mid-Flood	1
B10	28202-55	B	Mid-Flood	7
B11	28202-57	M	Mid-Flood	2
B12	28202-59	S	Mid-Flood	2
B12	28202-61	B	Mid-Flood	2
B13	28202-62	S	Mid-Flood	2
B13	28202-63	M	Mid-Flood	<1
B13	28202-64	B	Mid-Flood	8
B14	28202-66	M	Mid-Flood	<1
WM4	28202-68	S	Mid-Flood	<1
WM4	28202-69	M	Mid-Flood	<1
WM4	28202-70	B	Mid-Flood	<1
F5	28202-71	S	Mid-Flood	8
F5	28202-72	M	Mid-Flood	19
F5	28202-73	B	Mid-Flood	4
WSD4	28202-74	S	Mid-Flood	48
WSD4	28202-75	M	Mid-Flood	29
WSD4	28202-76	B	Mid-Flood	16
VM14	28202-77	S	Mid-Flood	100
VM14	28202-78	M	Mid-Flood	74
VM14	28202-79	B	Mid-Flood	98
WSD5	28202-80	S	Mid-Flood	230
WSD5	28202-81	M	Mid-Flood	560
WSD5	28202-82	B	Mid-Flood	72
VM12	28202-83	S	Mid-Flood	20
VM12	28202-84	M	Mid-Flood	34
VM12	28202-85	B	Mid-Flood	9
VM14 (QC)	28202-86	S	Mid-Flood	85

Remarks: 1) < = less than
2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	28210A
Date of Issue:	2018-01-30
Date Received:	2018-01-20
Date Tested:	2018-01-20
Date Completed:	2018-01-30

ATTN: Ms. Mei Ling Tang

Page: 1 of 4

Sample Description : 78 liquid samples as received from client said to be water
Laboratory No. : 28210A
Project No. : MA11007
Project Name : Contract No. DC/2009/10
HATS Stage 2A, Upgrading Main Pumping Station, Sedimentation Tanks and
Ancillary Facilities at SCISTW
Baseline Marine Water Quality Monitoring
Custody No. : MA11007(Route 2)/180120
Sampling Date : 2018-01-20

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD9	28210-1	S	Mid-Ebb	5
WSD9	28210-2	M	Mid-Ebb	10
WSD9	28210-3	B	Mid-Ebb	12
VM4	28210-4	S	Mid-Ebb	45
VM4	28210-5	M	Mid-Ebb	100
VM4	28210-6	B	Mid-Ebb	65
VM5	28210-7	S	Mid-Ebb	12
VM5	28210-8	M	Mid-Ebb	21
VM5	28210-9	B	Mid-Ebb	73
WSD22	28210-10	S	Mid-Ebb	380

Remarks: 1) <= less than

2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Laboratory Manager

TEST REPORT

Report No.:	28210A
Date of Issue:	2018-01-30
Date Received:	2018-01-20
Date Tested:	2018-01-20
Date Completed:	2018-01-30

Page: 2 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD22	28210-11	M	Mid-Ebb	560
WSD22	28210-12	B	Mid-Ebb	370
WSD18	28210-13	S	Mid-Ebb	500
WSD18	28210-14	M	Mid-Ebb	790
WSD18	28210-15	B	Mid-Ebb	420
WSD19	28210-16	S	Mid-Ebb	170
WSD19	28210-17	M	Mid-Ebb	180
WSD19	28210-18	B	Mid-Ebb	190
VM7	28210-19	S	Mid-Ebb	67
VM7	28210-20	M	Mid-Ebb	45
VM7	28210-21	B	Mid-Ebb	62
VM8	28210-22	S	Mid-Ebb	1700
VM8	28210-23	M	Mid-Ebb	560
VM8	28210-24	B	Mid-Ebb	880
WSD20	28210-25	S	Mid-Ebb	100
WSD20	28210-26	M	Mid-Ebb	250
WSD20	28210-27	B	Mid-Ebb	140
WM2	28210-28	S	Mid-Ebb	5
WM2	28210-29	M	Mid-Ebb	35
WM2	28210-30	B	Mid-Ebb	190
VM15	28210-31	S	Mid-Ebb	150
VM15	28210-32	M	Mid-Ebb	98
VM15	28210-33	B	Mid-Ebb	92
WSD6	28210-34	S	Mid-Ebb	45
WSD6	28210-36	B	Mid-Ebb	58
WSD7	28210-37	S	Mid-Ebb	190
WSD7	28210-38	M	Mid-Ebb	230
WSD7	28210-39	B	Mid-Ebb	2600
VM4 (QC)	28210-40	S	Mid-Ebb	48
WSD9	28210-41	S	Mid-Flood	1900

Remarks: 1) < = less than
2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	28210A
Date of Issue:	2018-01-30
Date Received:	2018-01-20
Date Tested:	2018-01-20
Date Completed:	2018-01-30

Page: 3 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD9	28210-42	M	Mid-Flood	940
WSD9	28210-43	B	Mid-Flood	1200
VM4	28210-44	S	Mid-Flood	180
VM4	28210-45	M	Mid-Flood	200
VM4	28210-46	B	Mid-Flood	800
VM5	28210-47	S	Mid-Flood	1900
VM5	28210-48	M	Mid-Flood	2500
VM5	28210-49	B	Mid-Flood	2300
WSD22	28210-50	S	Mid-Flood	3900
WSD22	28210-51	M	Mid-Flood	6700
WSD22	28210-52	B	Mid-Flood	3400
WSD18	28210-53	S	Mid-Flood	6000
WSD18	28210-54	M	Mid-Flood	4000
WSD18	28210-55	B	Mid-Flood	6200
WSD19	28210-56	S	Mid-Flood	4000
WSD19	28210-57	M	Mid-Flood	3100
WSD19	28210-58	B	Mid-Flood	2200
VM7	28210-59	S	Mid-Flood	1800
VM7	28210-60	M	Mid-Flood	2400
VM7	28210-61	B	Mid-Flood	2300
VM8	28210-62	S	Mid-Flood	150
VM8	28210-63	M	Mid-Flood	160
VM8	28210-64	B	Mid-Flood	250
WSD20	28210-65	S	Mid-Flood	340
WSD20	28210-66	M	Mid-Flood	230
WSD20	28210-67	B	Mid-Flood	440
WM2	28210-68	S	Mid-Flood	58
WM2	28210-69	M	Mid-Flood	66
WM2	28210-70	B	Mid-Flood	140
VM15	28210-71	S	Mid-Flood	820

Remarks: 1) < = less than
2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	28210A
Date of Issue:	2018-01-30
Date Received:	2018-01-20
Date Tested:	2018-01-20
Date Completed:	2018-01-30

Page: 4 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
VM15	28210-72	M	Mid-Flood	1500
VM15	28210-73	B	Mid-Flood	840
WSD6	28210-74	S	Mid-Flood	520
WSD6	28210-76	B	Mid-Flood	480
WSD7	28210-77	S	Mid-Flood	640
WSD7	28210-78	M	Mid-Flood	780
WSD7	28210-79	B	Mid-Flood	830
VM7 (QC)	28210-80	S	Mid-Flood	1800

Remarks: 1) < = less than

2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	28211A
Date of Issue:	2018-01-30
Date Received:	2018-01-20
Date Tested:	2018-01-20
Date Completed:	2018-01-30

ATTN: Ms. Mei Ling Tang

Page: 1 of 4

Sample Description : 74 liquid samples as received from client said to be water
Laboratory No. : 28211A
Project No. : MA11007
Project Name : Contract No. DC/2009/10
HATS Stage 2A, Upgrading Main Pumping Station, Sedimentation Tanks and
Ancillary Facilities at SCISTW
Baseline Marine Water Quality Monitoring
Custody No. : MA11007(Route 3)/180120
Sampling Date : 2018-01-20

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD10	28211-1	S	Mid-Ebb	2
WSD10	28211-2	M	Mid-Ebb	7
WSD10	28211-3	B	Mid-Ebb	21
WSD11	28211-4	S	Mid-Ebb	25
WSD11	28211-5	M	Mid-Ebb	12
WSD11	28211-6	B	Mid-Ebb	20
VM2	28211-7	S	Mid-Ebb	2
VM2	28211-8	M	Mid-Ebb	8
VM2	28211-9	B	Mid-Ebb	6
WSD17	28211-10	S	Mid-Ebb	3300

Remarks: 1) <= less than

2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Laboratory Manager

TEST REPORT

Report No.:	28211A
Date of Issue:	2018-01-30
Date Received:	2018-01-20
Date Tested:	2018-01-20
Date Completed:	2018-01-30

Page: 2 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD17	28211-11	M	Mid-Ebb	3600
WSD17	28211-12	B	Mid-Ebb	480
WSD15	28211-13	S	Mid-Ebb	21
WSD15	28211-14	M	Mid-Ebb	20
WSD15	28211-15	B	Mid-Ebb	47
VM1	28211-16	S	Mid-Ebb	7
VM1	28211-17	M	Mid-Ebb	6
VM1	28211-18	B	Mid-Ebb	19
WSD13	28211-19	S	Mid-Ebb	3
WSD13	28211-20	M	Mid-Ebb	<1
WSD13	28211-21	B	Mid-Ebb	<1
EM1	28211-22	S	Mid-Ebb	<1
EM1	28211-23	M	Mid-Ebb	<1
EM1	28211-24	B	Mid-Ebb	5
EM2	28211-25	S	Mid-Ebb	<1
EM2	28211-26	M	Mid-Ebb	5
EM2	28211-27	B	Mid-Ebb	1
F1	28211-28	S	Mid-Ebb	1
F1	28211-29	M	Mid-Ebb	<1
F1	28211-30	B	Mid-Ebb	<1
JM3	28211-31	S	Mid-Ebb	<1
JM3	28211-32	M	Mid-Ebb	<1
JM3	28211-33	B	Mid-Ebb	15
WSD12	28211-34	S	Mid-Ebb	<1
WSD12	28211-35	M	Mid-Ebb	7
WSD12	28211-36	B	Mid-Ebb	19
VM1 (QC)	28211-37	S	Mid-Ebb	6
WSD10	28211-38	S	Mid-Flood	130
WSD10	28211-39	M	Mid-Flood	120
WSD10	28211-40	B	Mid-Flood	110

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	28211A
Date of Issue:	2018-01-30
Date Received:	2018-01-20
Date Tested:	2018-01-20
Date Completed:	2018-01-30

Page: 3 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD11	28211-41	S	Mid-Flood	92
WSD11	28211-42	M	Mid-Flood	70
WSD11	28211-43	B	Mid-Flood	160
VM2	28211-44	S	Mid-Flood	120
VM2	28211-45	M	Mid-Flood	170
VM2	28211-46	B	Mid-Flood	110
WSD17	28211-47	S	Mid-Flood	480
WSD17	28211-48	M	Mid-Flood	560
WSD17	28211-49	B	Mid-Flood	460
WSD15	28211-50	S	Mid-Flood	380
WSD15	28211-51	M	Mid-Flood	400
WSD15	28211-52	B	Mid-Flood	600
VM1	28211-53	S	Mid-Flood	230
VM1	28211-54	M	Mid-Flood	120
VM1	28211-55	B	Mid-Flood	130
WSD13	28211-56	S	Mid-Flood	48
WSD13	28211-57	M	Mid-Flood	140
WSD13	28211-58	B	Mid-Flood	98
EM1	28211-59	S	Mid-Flood	130
EM1	28211-60	M	Mid-Flood	54
EM1	28211-61	B	Mid-Flood	40
EM2	28211-62	S	Mid-Flood	56
EM2	28211-63	M	Mid-Flood	32
EM2	28211-64	B	Mid-Flood	46
F1	28211-65	S	Mid-Flood	46
F1	28211-66	M	Mid-Flood	56
F1	28211-67	B	Mid-Flood	52
JM3	28211-68	S	Mid-Flood	90
JM3	28211-69	M	Mid-Flood	62
JM3	28211-70	B	Mid-Flood	58

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	28211A
Date of Issue:	2018-01-30
Date Received:	2018-01-20
Date Tested:	2018-01-20
Date Completed:	2018-01-30

Page: 4 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD12	28211-71	S	Mid-Flood	60
WSD12	28211-72	M	Mid-Flood	64
WSD12	28211-73	B	Mid-Flood	67
JM3 (QC)	28211-74	S	Mid-Flood	99

Remarks: 1) < = less than
2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	28212
Date of Issue:	2018-01-30
Date Received:	2018-01-20
Date Tested:	2018-01-20
Date Completed:	2018-01-30

ATTN: Ms. Mei Ling Tang

Page: 1 of 3

Sample Description : 56 liquid samples as received from client said to be water
Laboratory No. : 28212
Project No. : MA11007
Project Name : Contract No. DC/2009/10
HATS Stage 2A, Upgrading Main Pumping Station, Sedimentation Tanks and
Ancillary Facilities at SCISTW
Baseline Marine Water Quality Monitoring
Custody No. : MA11007(Route 4)/180120
Sampling Date : 2018-01-20

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WM1	28212-1	S	Mid-Ebb	<1
WM1	28212-2	M	Mid-Ebb	<1
WM1	28212-3	B	Mid-Ebb	4
F4	28212-4	S	Mid-Ebb	50
F4	28212-5	M	Mid-Ebb	60
F4	28212-6	B	Mid-Ebb	36
SM3	28212-7	S	Mid-Ebb	<1
SM3	28212-8	M	Mid-Ebb	<1
SM3	28212-9	B	Mid-Ebb	<1
WSD21	28212-10	S	Mid-Ebb	<1

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Laboratory Manager

TEST REPORT

Report No.:	28212
Date of Issue:	2018-01-30
Date Received:	2018-01-20
Date Tested:	2018-01-20
Date Completed:	2018-01-30
Page:	2 of 3

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD21	28212-11	M	Mid-Ebb	<1
WSD21	28212-12	B	Mid-Ebb	<1
SM2	28212-13	S	Mid-Ebb	<1
SM2	28212-14	M	Mid-Ebb	<1
SM2	28212-15	B	Mid-Ebb	<1
B30	28212-17	M	Mid-Ebb	<1
B31	28212-20	M	Mid-Ebb	<1
B32	28212-23	M	Mid-Ebb	<1
B33	28212-25	S	Mid-Ebb	<1
B33	28212-26	M	Mid-Ebb	<1
B33	28212-27	B	Mid-Ebb	<1
B34	28212-28	S	Mid-Ebb	<1
B34	28212-29	M	Mid-Ebb	<1
B34	28212-30	B	Mid-Ebb	<1
B35	28212-31	S	Mid-Ebb	<1
B35	28212-32	M	Mid-Ebb	<1
B35	28212-33	B	Mid-Ebb	<1
SM2 (QC)	28212-34	S	Mid-Ebb	<1
WM1	28212-35	S	Mid-Flood	26
WM1	28212-36	M	Mid-Flood	10
WM1	28212-37	B	Mid-Flood	12
F4	28212-38	S	Mid-Flood	140
F4	28212-39	M	Mid-Flood	360
F4	28212-40	B	Mid-Flood	4
SM3	28212-41	S	Mid-Flood	7
SM3	28212-42	M	Mid-Flood	6
SM3	28212-43	B	Mid-Flood	94
WSD21	28212-44	S	Mid-Flood	140
WSD21	28212-45	M	Mid-Flood	140
WSD21	28212-46	B	Mid-Flood	56

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	28212
Date of Issue:	2018-01-30
Date Received:	2018-01-20
Date Tested:	2018-01-20
Date Completed:	2018-01-30

Page: 3 of 3

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
SM2	28212-47	S	Mid-Flood	<1
SM2	28212-48	M	Mid-Flood	<1
SM2	28212-49	B	Mid-Flood	4
B30	28212-51	M	Mid-Flood	<1
B31	28212-54	M	Mid-Flood	<1
B32	28212-57	M	Mid-Flood	<1
B33	28212-59	S	Mid-Flood	<1
B33	28212-60	M	Mid-Flood	1
B33	28212-61	B	Mid-Flood	<1
B34	28212-62	S	Mid-Flood	<1
B34	28212-63	M	Mid-Flood	<1
B34	28212-64	B	Mid-Flood	<1
B35	28212-65	S	Mid-Flood	<1
B35	28212-66	M	Mid-Flood	<1
B35	28212-67	B	Mid-Flood	<1
B34 (QC)	28212-68	S	Mid-Flood	<1

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	28213A
Date of Issue:	2018-01-30
Date Received:	2018-01-20
Date Tested:	2018-01-20
Date Completed:	2018-01-30

ATTN: Ms. Mei Ling Tang

Page: 1 of 2

Sample Description : 28 liquid samples as received from client said to be water
Laboratory No. : 28213A
Project No. : MA11007
Project Name : Contract No. DC/2009/10
HATS Stage 2A, Upgrading Main Pumping Station, Sedimentation Tanks and
Ancillary Facilities at SCISTW
Baseline Marine Water Quality Monitoring
Custody No. : MA11007(Route 5)/180120
Sampling Date : 2018-01-20

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B24	28213-1	S	Mid-Ebb	<1
B24	28213-2	M	Mid-Ebb	2
B24	28213-3	B	Mid-Ebb	<1
B26	28213-4	S	Mid-Ebb	1
B26	28213-5	M	Mid-Ebb	<1
B26	28213-6	B	Mid-Ebb	<1
B25	28213-7	S	Mid-Ebb	<1
B25	28213-9	B	Mid-Ebb	<1
EM3	28213-10	S	Mid-Ebb	<1
EM3	28213-11	M	Mid-Ebb	<1

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Laboratory Manager

TEST REPORT

Report No.:	28213A
Date of Issue:	2018-01-30
Date Received:	2018-01-20
Date Tested:	2018-01-20
Date Completed:	2018-01-30

Page: 2 of 2

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
EM3	28213-12	B	Mid-Ebb	<1
MW13	28213-13	S	Mid-Ebb	<1
MW13	28213-14	M	Mid-Ebb	<1
MW13	28213-15	B	Mid-Ebb	<1
B24	28213-16	S	Mid-Flood	<1
B24	28213-17	M	Mid-Flood	<1
B24	28213-18	B	Mid-Flood	<1
B26	28213-19	S	Mid-Flood	<1
B26	28213-20	M	Mid-Flood	<1
B26	28213-21	B	Mid-Flood	<1
B25	28213-22	S	Mid-Flood	<1
B25	28213-24	B	Mid-Flood	<1
EM3	28213-25	S	Mid-Flood	<1
EM3	28213-26	M	Mid-Flood	<1
EM3	28213-27	B	Mid-Flood	<1
MW13	28213-28	S	Mid-Flood	<1
MW13	28213-29	M	Mid-Flood	<1
MW13	28213-30	B	Mid-Flood	<1

Remarks: 1) < = less than

2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	28214
Date of Issue:	2018-01-30
Date Received:	2018-01-20
Date Tested:	2018-01-20
Date Completed:	2018-01-30

ATTN: Ms. Mei Ling Tang

Page: 1 of 2

Sample Description : 18 liquid samples as received from client said to be water
Laboratory No. : 28214
Project No. : MA11007
Project Name : Contract No. DC/2009/10
HATS Stage 2A, Upgrading Main Pumping Station, Sedimentation Tanks and
Ancillary Facilities at SCISTW
Baseline Marine Water Quality Monitoring
Custody No. : MA11007(Route 6)/180120
Sampling Date : 2018-01-20

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
SM6	28214-1	S	Mid-Ebb	<1
SM6	28214-2	M	Mid-Ebb	<1
SM6	28214-3	B	Mid-Ebb	<1
SM12	28214-4	S	Mid-Ebb	4
SM12	28214-5	M	Mid-Ebb	5
SM12	28214-6	B	Mid-Ebb	2
SM17	28214-7	S	Mid-Ebb	<1
SM17	28214-8	M	Mid-Ebb	<1
SM17	28214-9	B	Mid-Ebb	<1
SM6	28214-10	S	Mid-Flood	5

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Laboratory Manager

TEST REPORT

Report No.:	28214
Date of Issue:	2018-01-30
Date Received:	2018-01-20
Date Tested:	2018-01-20
Date Completed:	2018-01-30

Page: 2 of 2

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
SM6	28214-11	M	Mid-Flood	<1
SM6	28214-12	B	Mid-Flood	<1
SM12	28214-13	S	Mid-Flood	12
SM12	28214-14	M	Mid-Flood	11
SM12	28214-15	B	Mid-Flood	5
SM17	28214-16	S	Mid-Flood	<1
SM17	28214-17	M	Mid-Flood	<1
SM17	28214-18	B	Mid-Flood	<1

Remarks: 1) < = less than

2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	28291A
Date of Issue:	2018-02-13
Date Received:	2018-02-04
Date Tested:	2018-02-04
Date Completed:	2018-02-13

ATTN: Ms. Mei Ling Tang

Page: 1 of 3

Sample Description : 66 liquid samples as received from client said to be water
Laboratory No. : 28291A
Project No. : MA11007
Project Name : Contract No. DC/2009/10
HATS Stage 2A, Upgrading Main Pumping Station, Sedimentation Tanks and
Ancillary Facilities at SCISTW
Baseline Marine Water Quality Monitoring
Custody No. : MA11007(Route 1)/180204
Sampling Date : 2018-02-04

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WM4	28291-1	S	Mid-Ebb	<1
WM4	28291-2	M	Mid-Ebb	<1
WM4	28291-3	B	Mid-Ebb	<1
F5	28291-4	S	Mid-Ebb	8
F5	28291-5	M	Mid-Ebb	5
F5	28291-6	B	Mid-Ebb	11
B14	28291-8	M	Mid-Ebb	4
B7	28291-11	M	Mid-Ebb	11
B8	28291-13	S	Mid-Ebb	26
B8	28291-14	M	Mid-Ebb	23

Remarks: 1) <= less than

2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Laboratory Manager

TEST REPORT

Report No.:	28291A
Date of Issue:	2018-02-13
Date Received:	2018-02-04
Date Tested:	2018-02-04
Date Completed:	2018-02-13

Page: 2 of 3

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B8	28291-15	B	Mid-Ebb	37
B9	28291-16	S	Mid-Ebb	22
B9	28291-18	B	Mid-Ebb	46
B10	28291-20	M	Mid-Ebb	8
B11	28291-23	M	Mid-Ebb	7
B12	28291-25	S	Mid-Ebb	120
B12	28291-27	B	Mid-Ebb	140
B13	28291-28	S	Mid-Ebb	110
B13	28291-29	M	Mid-Ebb	78
B13	28291-30	B	Mid-Ebb	80
WSD4	28291-31	S	Mid-Ebb	190
WSD4	28291-32	M	Mid-Ebb	160
WSD4	28291-33	B	Mid-Ebb	200
VM14	28291-34	S	Mid-Ebb	330
VM14	28291-35	M	Mid-Ebb	400
VM14	28291-36	B	Mid-Ebb	310
WSD5	28291-37	S	Mid-Ebb	340
WSD5	28291-38	M	Mid-Ebb	350
WSD5	28291-39	B	Mid-Ebb	410
VM12	28291-40	S	Mid-Ebb	130
VM12	28291-41	M	Mid-Ebb	170
VM12	28291-42	B	Mid-Ebb	170
B13(QC)	28291-43	S	Mid-Ebb	110
WM4	28291-44	S	Mid-Flood	<1
WM4	28291-45	M	Mid-Flood	1
WM4	28291-46	B	Mid-Flood	<1
F5	28291-47	S	Mid-Flood	2
F5	28291-48	M	Mid-Flood	7
F5	28291-49	B	Mid-Flood	19
B14	28291-51	M	Mid-Flood	<1

Remarks: 1) < = less than

2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	28291A
Date of Issue:	2018-02-13
Date Received:	2018-02-04
Date Tested:	2018-02-04
Date Completed:	2018-02-13

Page: 3 of 3

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B7	28291-54	M	Mid-Flood	12
B8	28291-56	S	Mid-Flood	<1
B8	28291-57	M	Mid-Flood	3
B8	28291-58	B	Mid-Flood	<1
B9	28291-59	S	Mid-Flood	<1
B9	28291-61	B	Mid-Flood	<1
B10	28291-63	M	Mid-Flood	2
B11	28291-66	M	Mid-Flood	1
B12	28291-68	S	Mid-Flood	<1
B12	28291-70	B	Mid-Flood	<1
B13	28291-71	S	Mid-Flood	45
B13	28291-72	M	Mid-Flood	58
B13	28291-73	B	Mid-Flood	36
WSD4	28291-74	S	Mid-Flood	9
WSD4	28291-75	M	Mid-Flood	41
WSD4	28291-76	B	Mid-Flood	10
VM14	28291-77	S	Mid-Flood	36
VM14	28291-78	M	Mid-Flood	62
VM14	28291-79	B	Mid-Flood	50
WSD5	28291-80	S	Mid-Flood	360
WSD5	28291-81	M	Mid-Flood	200
WSD5	28291-82	B	Mid-Flood	270
VM12	28291-83	S	Mid-Flood	160
VM12	28291-84	M	Mid-Flood	120
VM12	28291-85	B	Mid-Flood	80
VM14(QC)	28291-86	S	Mid-Flood	170

Remarks: 1) < = less than

2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	28292A
Date of Issue:	2018-02-13
Date Received:	2018-02-04
Date Tested:	2018-02-04
Date Completed:	2018-02-13

ATTN: Ms. Mei Ling Tang

Page: 1 of 4

Sample Description : 78 liquid samples as received from client said to be water
Laboratory No. : 28292A
Project No. : MA11007
Project Name : Contract No. DC/2009/10
HATS Stage 2A, Upgrading Main Pumping Station, Sedimentation Tanks and
Ancillary Facilities at SCISTW
Baseline Marine Water Quality Monitoring
Custody No. : MA11007(Route 2)/180204
Sampling Date : 2018-02-04

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD9	28292-1	S	Mid-Ebb	65
WSD9	28292-2	M	Mid-Ebb	48
WSD9	28292-3	B	Mid-Ebb	47
VM4	28292-4	S	Mid-Ebb	140
VM4	28292-5	M	Mid-Ebb	180
VM4	28292-6	B	Mid-Ebb	130
VM5	28292-7	S	Mid-Ebb	230
VM5	28292-8	M	Mid-Ebb	170
VM5	28292-9	B	Mid-Ebb	90
WSD22	28292-10	S	Mid-Ebb	310

Remarks: 1) <= less than

2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Laboratory Manager

TEST REPORT

Report No.:	28292A
Date of Issue:	2018-02-13
Date Received:	2018-02-04
Date Tested:	2018-02-04
Date Completed:	2018-02-13

Page: 2 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD22	28292-11	M	Mid-Ebb	280
WSD22	28292-12	B	Mid-Ebb	270
WSD18	28292-13	S	Mid-Ebb	1200
WSD18	28292-14	M	Mid-Ebb	1400
WSD18	28292-15	B	Mid-Ebb	1100
WSD19	28292-16	S	Mid-Ebb	180
WSD19	28292-17	M	Mid-Ebb	420
WSD19	28292-18	B	Mid-Ebb	690
VM7	28292-19	S	Mid-Ebb	70
VM7	28292-20	M	Mid-Ebb	130
VM7	28292-21	B	Mid-Ebb	88
VM8	28292-22	S	Mid-Ebb	1000
VM8	28292-23	M	Mid-Ebb	220
VM8	28292-24	B	Mid-Ebb	88
WSD20	28292-25	S	Mid-Ebb	58
WSD20	28292-26	M	Mid-Ebb	73
WSD20	28292-27	B	Mid-Ebb	57
WM2	28292-28	S	Mid-Ebb	12
WM2	28292-29	M	Mid-Ebb	6
WM2	28292-30	B	Mid-Ebb	180
VM15	28292-31	S	Mid-Ebb	96
VM15	28292-32	M	Mid-Ebb	86
VM15	28292-33	B	Mid-Ebb	130
WSD6	28292-34	S	Mid-Ebb	160
WSD6	28292-36	B	Mid-Ebb	150
WSD7	28292-37	S	Mid-Ebb	88
WSD7	28292-38	M	Mid-Ebb	140
WSD7	28292-39	B	Mid-Ebb	120
VM4 (QC)	28292-40	S	Mid-Ebb	170
WSD9	28292-41	S	Mid-Flood	1100

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	28292A
Date of Issue:	2018-02-13
Date Received:	2018-02-04
Date Tested:	2018-02-04
Date Completed:	2018-02-13

Page: 3 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD9	28292-42	M	Mid-Flood	110
WSD9	28292-43	B	Mid-Flood	990
VM4	28292-44	S	Mid-Flood	160
VM4	28292-45	M	Mid-Flood	110
VM4	28292-46	B	Mid-Flood	110
VM5	28292-47	S	Mid-Flood	200
VM5	28292-48	M	Mid-Flood	240
VM5	28292-49	B	Mid-Flood	180
WSD22	28292-50	S	Mid-Flood	980
WSD22	28292-51	M	Mid-Flood	900
WSD22	28292-52	B	Mid-Flood	780
WSD18	28292-53	S	Mid-Flood	600
WSD18	28292-54	M	Mid-Flood	440
WSD18	28292-55	B	Mid-Flood	520
WSD19	28292-56	S	Mid-Flood	280
WSD19	28292-57	M	Mid-Flood	240
WSD19	28292-58	B	Mid-Flood	240
VM7	28292-59	S	Mid-Flood	200
VM7	28292-60	M	Mid-Flood	210
VM7	28292-61	B	Mid-Flood	290
VM8	28292-62	S	Mid-Flood	56
VM8	28292-63	M	Mid-Flood	58
VM8	28292-64	B	Mid-Flood	48
WSD20	28292-65	S	Mid-Flood	390
WSD20	28292-66	M	Mid-Flood	110
WSD20	28292-67	B	Mid-Flood	32
WM2	28292-68	S	Mid-Flood	34
WM2	28292-69	M	Mid-Flood	6
WM2	28292-70	B	Mid-Flood	28
VM15	28292-71	S	Mid-Flood	210

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	28292A
Date of Issue:	2018-02-13
Date Received:	2018-02-04
Date Tested:	2018-02-04
Date Completed:	2018-02-13

Page: 4 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
VM15	28292-72	M	Mid-Flood	230
VM15	28292-73	B	Mid-Flood	230
WSD6	28292-74	S	Mid-Flood	2000
WSD6	28292-76	B	Mid-Flood	1600
WSD7	28292-77	S	Mid-Flood	420
WSD7	28292-78	M	Mid-Flood	520
WSD7	28292-79	B	Mid-Flood	400
VM7 (QC)	28292-80	S	Mid-Flood	250

Remarks: 1) <= less than

2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	28293A
Date of Issue:	2018-02-13
Date Received:	2018-02-04
Date Tested:	2018-02-04
Date Completed:	2018-02-13

ATTN: Ms. Mei Ling Tang

Page: 1 of 4

Sample Description : 74 liquid samples as received from client said to be water
Laboratory No. : 28293A
Project No. : MA11007
Project Name : Contract No. DC/2009/10
HATS Stage 2A, Upgrading Main Pumping Station, Sedimentation Tanks and
Ancillary Facilities at SCISTW
Baseline Marine Water Quality Monitoring
Custody No. : MA11007(Route 3)/180204
Sampling Date : 2018-02-04

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

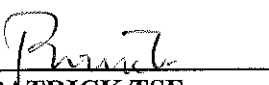
Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD10	28293-1	S	Mid-Ebb	46
WSD10	28293-2	M	Mid-Ebb	87
WSD10	28293-3	B	Mid-Ebb	65
WSD11	28293-4	S	Mid-Ebb	40
WSD11	28293-5	M	Mid-Ebb	65
WSD11	28293-6	B	Mid-Ebb	68
VM2	28293-7	S	Mid-Ebb	24
VM2	28293-8	M	Mid-Ebb	49
VM2	28293-9	B	Mid-Ebb	60
WSD17	28293-10	S	Mid-Ebb	94

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Laboratory Manager

TEST REPORT

Report No.:	28293A
Date of Issue:	2018-02-13
Date Received:	2018-02-04
Date Tested:	2018-02-04
Date Completed:	2018-02-13

Page: 2 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD17	28293-11	M	Mid-Ebb	56
WSD17	28293-12	B	Mid-Ebb	70
WSD15	28293-13	S	Mid-Ebb	100
WSD15	28293-14	M	Mid-Ebb	100
WSD15	28293-15	B	Mid-Ebb	110
VM1	28293-16	S	Mid-Ebb	300
VM1	28293-17	M	Mid-Ebb	130
VM1	28293-18	B	Mid-Ebb	170
WSD13	28293-19	S	Mid-Ebb	42
WSD13	28293-20	M	Mid-Ebb	26
WSD13	28293-21	B	Mid-Ebb	32
EM1	28293-22	S	Mid-Ebb	24
EM1	28293-23	M	Mid-Ebb	22
EM1	28293-24	B	Mid-Ebb	12
EM2	28293-25	S	Mid-Ebb	11
EM2	28293-26	M	Mid-Ebb	1
EM2	28293-27	B	Mid-Ebb	<1
F1	28293-28	S	Mid-Ebb	1
F1	28293-29	M	Mid-Ebb	<1
F1	28293-30	B	Mid-Ebb	<1
JM3	28293-31	S	Mid-Ebb	26
JM3	28293-32	M	Mid-Ebb	40
JM3	28293-33	B	Mid-Ebb	39
WSD12	28293-34	S	Mid-Ebb	18
WSD12	28293-35	M	Mid-Ebb	17
WSD12	28293-36	B	Mid-Ebb	32
VM1 (QC)	28293-37	S	Mid-Ebb	260
WSD10	28293-38	S	Mid-Flood	94
WSD10	28293-39	M	Mid-Flood	32
WSD10	28293-40	B	Mid-Flood	82

Remarks: 1) < = less than

2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	28293A
Date of Issue:	2018-02-13
Date Received:	2018-02-04
Date Tested:	2018-02-04
Date Completed:	2018-02-13

Page: 3 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD11	28293-41	S	Mid-Flood	26
WSD11	28293-42	M	Mid-Flood	26
WSD11	28293-43	B	Mid-Flood	45
VM2	28293-44	S	Mid-Flood	60
VM2	28293-45	M	Mid-Flood	16
VM2	28293-46	B	Mid-Flood	32
WSD17	28293-47	S	Mid-Flood	32
WSD17	28293-48	M	Mid-Flood	36
WSD17	28293-49	B	Mid-Flood	88
WSD15	28293-50	S	Mid-Flood	110
WSD15	28293-51	M	Mid-Flood	85
WSD15	28293-52	B	Mid-Flood	78
VM1	28293-53	S	Mid-Flood	14
VM1	28293-54	M	Mid-Flood	19
VM1	28293-55	B	Mid-Flood	26
WSD13	28293-56	S	Mid-Flood	2
WSD13	28293-57	M	Mid-Flood	10
WSD13	28293-58	B	Mid-Flood	9
EM1	28293-59	S	Mid-Flood	18
EM1	28293-60	M	Mid-Flood	14
EM1	28293-61	B	Mid-Flood	16
EM2	28293-62	S	Mid-Flood	24
EM2	28293-63	M	Mid-Flood	29
EM2	28293-64	B	Mid-Flood	2
F1	28293-65	S	Mid-Flood	24
F1	28293-66	M	Mid-Flood	4
F1	28293-67	B	Mid-Flood	8
JM3	28293-68	S	Mid-Flood	30
JM3	28293-69	M	Mid-Flood	47
JM3	28293-70	B	Mid-Flood	36

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	28293A
Date of Issue:	2018-02-13
Date Received:	2018-02-04
Date Tested:	2018-02-04
Date Completed:	2018-02-13

Page: 4 of 4

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD12	28293-71	S	Mid-Flood	36
WSD12	28293-72	M	Mid-Flood	10
WSD12	28293-73	B	Mid-Flood	9
JM3 (QC)	28293-74	S	Mid-Flood	36

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	28294
Date of Issue:	2018-02-13
Date Received:	2018-02-04
Date Tested:	2018-02-04
Date Completed:	2018-02-13

ATTN: Ms. Mei Ling Tang

Page: 1 of 3

Sample Description : 58 liquid samples as received from client said to be water
Laboratory No. : 28294
Project No. : MA11007
Project Name : Contract No. DC/2009/10
HATS Stage 2A, Upgrading Main Pumping Station, Sedimentation Tanks and
Ancillary Facilities at SCISTW
Baseline Marine Water Quality Monitoring
Custody No. : MA11007(Route 4)/180204
Sampling Date : 2018-02-04

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WM1	28294-1	S	Mid-Ebb	3
WM1	28294-2	M	Mid-Ebb	2
WM1	28294-3	B	Mid-Ebb	<1
F4	28294-4	S	Mid-Ebb	9
F4	28294-5	M	Mid-Ebb	13
F4	28294-6	B	Mid-Ebb	12
SM3	28294-7	S	Mid-Ebb	3
SM3	28294-8	M	Mid-Ebb	<1
SM3	28294-9	B	Mid-Ebb	<1
WSD21	28294-10	S	Mid-Ebb	<1

Remarks: 1) < = less than
2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Laboratory Manager

TEST REPORT

Report No.:	28294
Date of Issue:	2018-02-13
Date Received:	2018-02-04
Date Tested:	2018-02-04
Date Completed:	2018-02-13

Page: 2 of 3

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD21	28294-11	M	Mid-Ebb	<1
WSD21	28294-12	B	Mid-Ebb	1
SM2	28294-13	S	Mid-Ebb	<1
SM2	28294-14	M	Mid-Ebb	<1
SM2	28294-15	B	Mid-Ebb	<1
B30	28294-17	M	Mid-Ebb	5
B31	28294-20	M	Mid-Ebb	<1
B32	28294-22	S	Mid-Ebb	46
B32	28294-23	M	Mid-Ebb	16
B32	28294-24	B	Mid-Ebb	28
B33	28294-25	S	Mid-Ebb	1
B33	28294-26	M	Mid-Ebb	<1
B33	28294-27	B	Mid-Ebb	2
B34	28294-28	S	Mid-Ebb	19
B34	28294-29	M	Mid-Ebb	2
B34	28294-30	B	Mid-Ebb	1
B35	28294-31	S	Mid-Ebb	<1
B35	28294-32	M	Mid-Ebb	<1
B35	28294-33	B	Mid-Ebb	<1
SM2 (QC)	28294-34	S	Mid-Ebb	<1
WM1	28294-35	S	Mid-Flood	12
WM1	28294-36	M	Mid-Flood	7
WM1	28294-37	B	Mid-Flood	9
F4	28294-38	S	Mid-Flood	10
F4	28294-39	M	Mid-Flood	6
F4	28294-40	B	Mid-Flood	8
SM3	28294-41	S	Mid-Flood	10
SM3	28294-42	M	Mid-Flood	11
SM3	28294-43	B	Mid-Flood	<1
WSD21	28294-44	S	Mid-Flood	3

Remarks: 1) <= less than

2) S = Surface, M = Middle, B = Bottom

TEST REPORT

Report No.:	28294
Date of Issue:	2018-02-13
Date Received:	2018-02-04
Date Tested:	2018-02-04
Date Completed:	2018-02-13

Page: 3 of 3

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
WSD21	28294-45	M	Mid-Flood	7
WSD21	28294-46	B	Mid-Flood	4
SM2	28294-47	S	Mid-Flood	<1
SM2	28294-48	M	Mid-Flood	6
SM2	28294-49	B	Mid-Flood	<1
B30	28294-51	M	Mid-Flood	45
B31	28294-54	M	Mid-Flood	2
B32	28294-57	M	Mid-Flood	<1
B33	28294-59	S	Mid-Flood	<1
B33	28294-60	M	Mid-Flood	<1
B33	28294-61	B	Mid-Flood	<1
B34	28294-62	S	Mid-Flood	21
B34	28294-63	M	Mid-Flood	19
B34	28294-64	B	Mid-Flood	8
B35	28294-65	S	Mid-Flood	<1
B35	28294-66	M	Mid-Flood	<1
B35	28294-67	B	Mid-Flood	<1
B34 (QC)	28294-68	S	Mid-Flood	18

Remarks: 1) < = less than
2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	28295A
Date of Issue:	2018-02-13
Date Received:	2018-02-04
Date Tested:	2018-02-04
Date Completed:	2018-02-13

ATTN: Ms. Mei Ling Tang

Page: 1 of 2

Sample Description : 28 liquid samples as received from client said to be water
Laboratory No. : 28295A
Project No. : MA11007
Project Name : Contract No. DC/2009/10
HATS Stage 2A, Upgrading Main Pumping Station, Sedimentation Tanks and
Ancillary Facilities at SCISTW
Baseline Marine Water Quality Monitoring
Custody No. : MA11007(Route 5)/180204
Sampling Date : 2018-02-04

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
B24	28295-1	S	Mid-Ebb	3
B24	28295-2	M	Mid-Ebb	<1
B24	28295-3	B	Mid-Ebb	2
B25	28295-4	S	Mid-Ebb	<1
B25	28295-6	B	Mid-Ebb	4
B26	28295-7	S	Mid-Ebb	3
B26	28295-8	M	Mid-Ebb	18
B26	28295-9	B	Mid-Ebb	13
EM3	28295-10	S	Mid-Ebb	3
EM3	28295-11	M	Mid-Ebb	2

Remarks: 1) <= less than

2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Laboratory Manager

TEST REPORT

Report No.:	28295A
Date of Issue:	2018-02-13
Date Received:	2018-02-04
Date Tested:	2018-02-04
Date Completed:	2018-02-13

Page: 2 of 2

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
EM3	28295-12	B	Mid-Ebb	7
MW13	28295-13	S	Mid-Ebb	<1
MW13	28295-14	M	Mid-Ebb	<1
MW13	28295-15	B	Mid-Ebb	<1
B24	28295-16	S	Mid-Flood	3
B24	28295-17	M	Mid-Flood	10
B24	28295-18	B	Mid-Flood	8
B25	28295-19	S	Mid-Flood	3
B25	28295-21	B	Mid-Flood	4
B26	28295-22	S	Mid-Flood	42
B26	28295-23	M	Mid-Flood	60
B26	28295-24	B	Mid-Flood	39
EM3	28295-25	S	Mid-Flood	24
EM3	28295-26	M	Mid-Flood	23
EM3	28295-27	B	Mid-Flood	20
MW13	28295-28	S	Mid-Flood	<1
MW13	28295-29	M	Mid-Flood	<1
MW13	28295-30	B	Mid-Flood	<1

Remarks: 1) < = less than

2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1710, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	28296
Date of Issue:	2018-02-13
Date Received:	2018-02-04
Date Tested:	2018-02-04
Date Completed:	2018-02-13

ATTN: Ms. Mei Ling Tang

Page: 1 of 2

Sample Description : 18 liquid samples as received from client said to be water
Laboratory No. : 28296
Project No. : MA11007
Project Name : Contract No. DC/2009/10
HATS Stage 2A, Upgrading Main Pumping Station, Sedimentation Tanks and
Ancillary Facilities at SCISTW
Baseline Marine Water Quality Monitoring
Custody No. : MA11007(Route 6)/180204
Sampling Date : 2018-02-04

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	<i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK	1 cfu/100mL

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
SM6	28296-1	S	Mid-Ebb	<1
SM6	28296-2	M	Mid-Ebb	<1
SM6	28296-3	B	Mid-Ebb	<1
SM12	28296-4	S	Mid-Ebb	<1
SM12	28296-5	M	Mid-Ebb	8
SM12	28296-6	B	Mid-Ebb	19
SM17	28296-7	S	Mid-Ebb	7
SM17	28296-8	M	Mid-Ebb	19
SM17	28296-9	B	Mid-Ebb	7
SM6	28296-10	S	Mid-Flood	<1

Remarks: 1) <= less than
2) S = Surface, M = Middle, B = Bottom

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Laboratory Manager

TEST REPORT

Report No.:	28296
Date of Issue:	2018-02-13
Date Received:	2018-02-04
Date Tested:	2018-02-04
Date Completed:	2018-02-13

Page: 2 of 2

Results:

Sample ID	Sample No.	Sampling Depth	Tide	<i>E. coli</i> (cfu/100mL)
SM6	28296-11	M	Mid-Flood	<1
SM6	28296-12	B	Mid-Flood	<1
SM12	28296-13	S	Mid-Flood	27
SM12	28296-14	M	Mid-Flood	36
SM12	28296-15	B	Mid-Flood	41
SM17	28296-16	S	Mid-Flood	<1
SM17	28296-17	M	Mid-Flood	<1
SM17	28296-18	B	Mid-Flood	<1

Remarks: 1) < = less than

2) S = Surface, M = Middle, B = Bottom

*****END OF REPORT*****

**APPENDIX F
ACTION PLAN**

Appendix F Action Plan

Event	Action Plan
Case 1 - Total power / equipment failure at SCISTW during operational phase	<ol style="list-style-type: none"> 1. Plant operators / DSD to investigate the reason of plant failure and to implement appropriate remedial measures as stipulated in the contingency / operation plan for the HATS. 2. If emergency discharge is required, Plant operators / DSD to inform EPD, WSD and LCSD within 1 hour after the discharge commence. 3. Plant operators / DSD to instruct the Monitoring Team to commence water monitoring within 24 hours after the emergency discharge event occurs. 4. Plant operators / DSD to record the effluent flow and effluent quality (i.e. <i>E.coli</i> level, pH value, temperature, salinity, turbidity and dissolved oxygen) during the water monitoring period. 5. Plant operators / DSD to ensure appropriate remedial measures as stipulated in the contingency / operation plan are implemented. 6. Monitoring Team to conduct daily marine water monitoring (as discussed in Section 3.2.15) until the baseline water quality levels are restored or 3 days after the emergency discharge is ceased, whichever is the shortest. 7. The Environmental Consultant shall compare the impact monitoring data with the baseline data to identify the degree of impact caused by the emergency discharge (if any) and to determine when the normal water quality conditions are restored. The findings shall be provided to EPD, WSD and LCSD.
Case 2/Case 4 - Temporary sewage bypass during construction phase	<ol style="list-style-type: none"> 1. If temporary sewage bypass is required, Plant operators / DSD to inform EPD, WSD and LCSD at least 4 weeks prior to the discharge. 2. Environmental Team to conduct daily marine water monitoring (as discussed in Section 3.2.15) until the baseline water quality levels are restored or 3 days after the emergency discharge is ceased, whichever is the shortest. 3. Plant operators / DSD to record the effluent flow and effluent quality (i.e. <i>E.coli</i> level, pH value, temperature, salinity, turbidity and dissolved oxygen) during the water monitoring period. 4. The IEC shall compare the impact monitoring data with the baseline data to identify the degree of impact caused by the temporary sewage discharge (if any) and to determine when the normal water quality conditions are restored. The findings shall be provided to EPD, WSD and LCSD.

Event	Action Plan
Case 3 - Chlorination plant failure during operational phase	<ol style="list-style-type: none"> 1. Stop the dechlorination plant operation 15 minutes after the chlorination plant failure. 2. If emergency discharge is required, Plant operators / DSD to inform EPD, WSD and LCSD within 1 hour after the discharge commence. 3. Plant operators / DSD to investigate the reason of chlorination plant failure and to implement appropriate remedial measures as stipulated in the contingency / operation plan for the HATS. 4. Plant operators / DSD to instruct the Monitoring Team to commence water monitoring within 24 hours after the emergency discharge event occurs. 5. Plant operators / DSD to record the effluent flow and effluent quality (i.e. <i>E.coli</i> level, pH value and temperature) during the water monitoring period. 6. Plant operators / DSD to implement appropriate remedial measures as stipulated in the contingency / operation plan and resume disinfection operation. 7. Monitoring Team to conduct daily marine water monitoring (as discussed in Section 4.8) until the baseline water quality levels are restored or 3 days after the emergency discharge is ceased, whichever is the shortest. 8. The Environmental Consultant shall compare the impact monitoring data with the baseline data to identify the degree of impact caused by the emergency discharge (if any) and to determine when the normal water quality conditions are restored. The findings shall be provided to EPD, WSD and LCSD.
Case 3 - Dechlorination plant failure during operational phase	<ol style="list-style-type: none"> 1. Stop the chlorination plant operation immediately. 2. Plant operator / DSD to inform the EPD, WSD and LCSD of the emergency discharge within 1 hour after the chlorination plant operation is stopped. 3. Plant operators / DSD to investigate the reason of dechlorination plant failure and to implement appropriate remedial measures as stipulated in the contingency / operation plan for the HATS. 4. Plant operators / DSD to instruct the Monitoring Team to commence water monitoring within 24 hours after the emergency discharge event occurs. 5. Plant operators / DSD to record the effluent flow and effluent quality (i.e. <i>E.coli</i> level, pH value, and temperature) recorded during the water monitoring period. 6. Plant operators / DSD to implement appropriate remedial measures as stipulated in the contingency / operation plan and resume disinfection operation. 7. Monitoring Team to conduct daily marine water monitoring (as discussed in Section 4.8) until the baseline water quality levels are restored or 3 days after the emergency discharge is ceased, whichever is the shortest. 8. The Environmental Consultant shall compare the impact monitoring data with the baseline data to identify the degree of impact caused by the emergency discharge (if any) and to determine when the normal water quality conditions are restored. The findings shall be provided to EPD, WSD and LCSD.