



**CONTRACT NO: SD 15/2022**

**OUTLYING ISLAND SEWERAGE STAGE 2 – SOUTH LANTAU SEWAGE  
WORKS – ENVIRONMENTAL TEAM SERVICES (2023 – 2024)**

**UNDER ENVIRONMENTAL PERMIT NO. EP-538/2017**

**MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT**

**JANUARY 2024  
REVISION 2**

**CLIENTS:**

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**CERTIFIED BY:**

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Derek Lo  
Environmental Team Leader

**DATE:**

9 February 2024



Member of the Surbana Jurong Group

local people  
global experience

Our Ref: 7076811/L30603/AG/KL/TK/KCL/rw

9 February 2024

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By Email and Post  
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Attn: Mr. Silas CHAN

Dear Sir

**Contract No. SD 7/2020  
Independent Environmental Checker ("IEC") for Environmental Monitoring Work for  
South Lantau Sewerage Works  
Verification of Monthly EM&A Report (January 2024)**

With reference to the Monthly EM&A Report (January 2024) Revision 2 dated and certified by the ET Leader on 9 February 2024, please note that we have no adverse comments on the captioned and we hereby verify the captioned in accordance with Condition 3.4 of the Environmental Permit No. EP-538/2017.

Should you have questions please do not hesitate to contact the undersigned at tel. 3995-8140 or by email to [kitty.lee@smec.com](mailto:kitty.lee@smec.com)

Yours faithfully

**Kitty LEE**  
Independent Environmental Checker

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## EXECUTIVE SUMMARY

- i. This is the Monthly Environmental Monitoring and Audit (EM&A) Report – **January 2024** for the Outlying Islands Sewerage Stage 2 – South Lantau Sewerage Works under Environmental Permit No. EP-538/2017 (Hereafter as “the Project”). The construction works of the Project was commenced on **3 November 2021** and the tentative completion date is **Q1 2026**. This Monthly EM&A Report presents the environmental monitoring findings and information recorded during the period of **1 to 31 January 2024**. The cut-off date of reporting is at the end of each reporting month.
- ii. In the reporting period, the principal work activities undertaken are as follows:
  - Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau road, Pui O Beach
  - Excavation and site formation at San Shek Wan Sewage Treatment Works (SSWSTW) and Pui O Sewage Pumping Station (POSPS)
  - Horizontal Directional Drilling (HDD) works at marine and SSWSTW
  - Removal works of Excavation and Lateral Support (ELS)
  - Excavation and Lateral Support (ELS) works
  - Superstructure Reinforced Concrete (RC) Works

### Exceedances of Action/Limit Levels

#### Noise Monitoring

- iii. Noise monitoring was conducted at **eight (8)** noise monitoring stations (*N12a, N12b, N13, N14, N15b, N16a, N16b and N17*) once per week in the reporting period.
- iv. **No school examination was taken place at N17 – Bui O Public School in the reporting period.**
- v. **No Action/Limit Level exceedances were recorded in this reporting period.**

#### Water Quality Monitoring

- vi. Water quality monitoring (WQM) had been commenced on 12 April 2022 the designated monitoring stations three days per week with respect to marine-based construction works commenced on 19 April 2022. HDD casing works commenced on 30 May 2022.
- vii. Water quality monitoring on 8 (mid-ebb), 22 (mid-ebb and mid-flood) January 2024 were cancelled due to Strong Monsoon Signal. Water quality monitoring on 24 January 2024 (mid-ebb and mid-flood) was cancelled due to sea condition taking personnel safety into consideration. No substitution would be arranged for such cancellation since it is impossible to maintain the monitoring frequency as three times a week for the event of marine water quality monitoring cancellation in between time with respect to the fact that not less than 36 hours interval shall be followed for two monitoring days as required by the EM&A Manual Clause 5.1.6 (b) for the project.

- viii. In accordance with the action level and limit level in Baseline Monitoring Report Rev. 9.2 agreed by EPD on 2 September 2022, no action level and limit level exceedances were recorded in the reporting month.

#### Ecological Impact Monitoring

- ix. Transplanting of the trees of *Aquilaris sinensis* was completed on 26 April 2022. Maintenance works for trees in holding nursery have commenced.
- x. As per latest version of PTP, four tree found (1 no. of *Aquilaria sinensis* and 3 nos. of *Gmelina chinensis*) within the site of SSWSTW which are considered to be the plant species with conservative importance for temporarily transplanted to the nursery at Kam Tin and eventually be transplanted to Pui O Pumping Station.
- xi. The weekly site audit was carried out by ET include checking whether good site practices are being properly implemented by the Contractor.
- xii. The extent of the work site boundaries was checked by the ET during the weekly site audit.

#### Complaint log

- xiii. No environmental complaint regarding the construction works was recorded in the reporting period.

#### Notifications of Any Summons and Successful Prosecutions

- xiv. No environmental notification of any summons and successful prosecution regarding the construction works was recorded in the reporting period.

#### Reporting Changes

- xv. There are no particular reporting changes.

#### Future Key Issues

- xvi. In coming reporting 3 months, the scheduled construction activities are listed as follows:
- Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Pui O Beach
  - HDD works at marine and SSWSTW
  - Dredging at marine
  - Site formation works
  - Drilling works
  - Excavation works
  - ELS works
  - Superstructure RC Works
  - Removal works of ELS



xvii. Key construction activities for the next three months with the recommended mitigation measures to be implemented are presented as follows:

Key Construction Works	Recommended Mitigation Measures
<ul style="list-style-type: none"><li>Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Pui O Beach</li><li>Dredging at marine</li><li>HDD works at marine and SSWSTW</li><li>Site formation works</li><li>Drilling works</li><li>Excavation works</li><li>ELS works</li><li>Superstructure RC Works</li><li>Removal works of ELS</li></ul>	<ul style="list-style-type: none"><li>Implementation of noise pollution control in accordance with Construction Noise Mitigation Plan;</li><li>Dust control during dust generating works;</li><li>Silt curtain should be maintained in good condition;</li><li>Adopt surface drainage and sediment control facilities for sewage installation in village and public roads;</li><li>Adopt temporary drainage and sediment control facilities on Site;</li><li>Vehicle wheel-washing and body washing facilities should be provided at the site entrance;</li><li>Regular water spraying on excavation works for dust control; and</li><li>Proper waste handling, recycling and storage.</li></ul>

## Introduction

### 1.1 Scope of the Report

- 1.1.1. Lam Environmental Services Limited (LES) has been appointed to work as the Environmental Team (ET) under Environmental Permit (EP) No. EP-538/2017 to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for the Outlying Islands Sewerage Stage 2 – South Lantau Sewerage Works (Register No.: AEIAR-210/2017).
- 1.1.2. In accordance with Clause 3.4 stated in EP-538/2017, 4 hard copies and 1 electronic copy of Monthly EM&A Report shall be submitted to the Director within 2 weeks after the end of each reporting month.
- 1.1.3. According to Section 12.2 of the Project EM&A Manual, the Monthly EM&A Report should be submitted within 10 working days of the end of each reporting month, with the first report due in the month after construction commences.

### 1.2 Structure of the Report

- Section 1**     **Introduction** – details the scope and structure of the report.
- Section 2**     **Basic project Information and Environmental Status** – summarizes project organization and key personnel contact, construction programme and works undertaken for the month. Construction programme, works undertaken during the month with illustrations, drawing showing the project area, environmental sensitive receivers and monitoring locations.
- Section 3**     **Implementation Status** – advice on the implementation status of environmental protection and pollution control/mitigation measures, as recommended in the EIA Report and summarised in the updated implementation schedule.
- Section 4**     **Monitoring Results** – summarizes the monitoring results obtained in the reporting period, including monitoring methodology, name of laboratory and equipment used and calibration details, parameters monitored, monitoring locations (and depth), monitoring date, frequency, and duration.
- Section 5**     **Report on Complaints, Notification of Summons and Successful Prosecutions** – summarizes:  
Record of all complaints received (written or verbal) for each media, including locations and nature of complaints investigation, liaison and consultation undertaken, actions and follow-up procedures taken, results and summary;  
Record of notifications of summons and successful prosecutions for breaches of the current environmental protection/pollution control legislations, including locations and nature of the breaches, investigation, follow-up actions taken,

results and summary;

Review of the reasons for and the implications of non-compliance, complaints, summons and prosecutions including review of pollution sources and working procedures; and

Description of the actions taken in the event of non-compliance and deficiency reporting and any follow-up procedures related to non-compliance.

**Section 6** ***Future Key Issues*** – An account of the future key issues as reviewed from the works programme and work method statements.

**Section 7** ***Conclusion***

## 2 Basic project Information and Environmental Status

### 2.1 Basic Project Information

2.1.1. Drainage Services Department is the overall project controllers for the Project. For the construction phase of the Project, Contractor(s), Environmental Team and Independent Environmental Checker are appointed to manage and control environmental issues. Key personnel and contact particulars are summarized in **Table 2.1**:

**Table 2.1 Contact Details of Key Personnel**

Party	Role	Post	Name	Contact No.	Contact Fax
Drainage Services Department (DSD)	The Engineer for the Contract	Engineer	Mr. Silas Chan	2594 7272	3104 6426
Binnies Hong Kong Limited	Engineer's Representative	Resident Engineer	Mr. Kevin Chan	3529 3013	-
Kwan Lee – Chun Wo Joint Venture	Contractor	Site Agent	Mr. Charles Yeung	6128 2606	2744 6937
		Environmental Officer	Ms. Shirley Kong	5162 5933	
SMEC Hong Kong	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Ms. Kitty Lee	3995 8140	3995 8101
Lam Environmental Services Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Derek Lo	2882 3939	2882 3331

### 2.2 Construction Programme

2.2.1. The proposed sewerage works will collect the sewage generated from the unsewered areas of Shui Hau, Tong Fuk, Cheung Sha, San Shek Wan, Pui O and Ham Tin in South Lantau (i.e. within the Project Catchment Area) and convey it to a proposed sewage treatment works at San Shek Wan for treatment and disposal into outer bay of Pui O/ Chi Ma Wan via a submarine outfall.

2.2.2. The entire Project are divided into three contracts. Contract No. DC/2020/20 (the Contract) would have the following implementations as demonstrated in [Figure 2.1](#).

2.2.3. The major components of the Contract under Environmental Permit (EP) (EP No. EP-538/2017) comprises: (i) construction of secondary sewage treatment works (STW) at San Shek Wan in South Lantau; (ii) construction of sewage pumping station (SPS) at Pui O, San Shek Wan, Cheung Sha and Cheung Fu Street; (iii) construction of about 1.4 kilometres (km) of submarine

outfall with a diameter of 350 millimetres (mm) for the disposal of treated effluent from the STW at San Shek Wan; (iv) construction of about 10.1 km of gravity sewers with diameters ranging from 150 mm to 375 mm along South Lantau Road and Chi Ma Wan road and at Pui O; and (v) construction of about 3.1 km twin rising mains with a diameter of 200 mm to 250 mm along South Lantau Road and Chi Ma Wan Road.

2.2.4. The performance of the environmental management system of the reporting period was generally satisfied. Mitigation measures according to the environmental mitigation implementation schedule and the EIA were generally implemented by the Contractor. Hence, the EM&A programme was considered effective and shall be maintained.

### 2.3 Works undertaken during the month

2.3.1. In the reporting month, the principal work activities conducted are as follow:

- Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau road, Pui O Beach
- Excavation and site formation at San Shek Wan Sewage Treatment Works (SSWSTW) and Pui O Sewage Pumping Station (POSPS)
- Horizontal Directional Drilling (HDD) works at marine and SSWSTW
- Removal works of Excavation and Lateral Support (ELS)
- Excavation and Lateral Support (ELS) works
- Superstructure Reinforced Concrete (RC) Works

The locations of works are shown in [Figure 2.2](#).

### 2.4 Drawing showing the project area, environmental sensitive receivers and monitoring locations

2.4.1. Noise and water monitoring location plans with sensitive receivers are shown in [Figure 2.3](#) and [Figure 2.4](#).

## 3 Implementation Status

### 3.1 Advice on the implementation status of environmental protection and pollution control/mitigation measures

3.1.1. Mitigation measures according to the environmental mitigation implementation schedule in Annex A of EM&A Manual were generally implemented by the Contractor. Hence, the EM&A programme was considered effective and shall be maintained.

### 3.2 Environmental Mitigation Measures

3.2.1. Environmental mitigation measures mentioned the EIA Report were weekly reviewed and recorded in Weekly Environmental Site Audit Checklist. Also, a summary of the current status on submissions and measures mentioned in Environmental Permit (EP-538/2017) are shown in **Table 3.1**.

**Table 3.1 Summary of submission status under EP-538/2017**

EP Condition	Submission	Date of Latest Submission to EPD^ / EPD Approval#
Condition 2.10	Waste Management Plan (Rev. 5) (electronic copy)	4 April 2022#
Condition 2.11	Submission of Preservation and/or Transplantation Plan for Plant Species of Conservation Importance (Rev. 23)	9 September 2022#
Condition 2.12	Submission of Compensatory Woodland Planting Plan (Rev. 23)	15 May 2023^
Condition 2.13	Silt Curtain Deployment Plan (Rev. 11)	1 June 2022#
Condition 2.14	Landscape Mitigation Plan	To be confirmed
Condition 2.15	Construction Noise Mitigation Plan (Rev. 20)	4 August 2022#

### 3.3 Environmental monitoring requirements and contractual requirements

3.3.1. A summary of the current status on licences and/or permits on environmental protection pertinent to the Project is shown in **Table 3.2**.

**Table 3.2 Summary of the current status on licences and/or permits on environmental protection pertinent to the Project**



Permits and/or Licences	Permit. No. / Account No.	Issued Date	Valid Period & Expiry Date	Status
Notification of Works Under APCO	466408	14 Apr 2021	N/A	Valid
Wastewater Discharge Licence under <i>Water Pollution Control Ordinance</i>	SSWSTW: WT00039636-2021	30 Dec 2021	30-12-2021 to 31-12-2026	Valid
	POPS: WT00039820-2021	31 Dec 2021	31-12-2021 to 31-12-2026	Valid
	SSWSTW: Gravity Sewer & Raising Main: WT00042613-2022	09 Jan 2023	09-01-2023 to 31-01-2028	Valid
Billing account under Waste Disposal Ordinance	Account No.: 7040411	05 May 2021	N/A	Valid
Registration as a Chemical Waste Producer	0000-931-K3428-01	13 May 2021	N/A	Valid
Construction Noise Permit under Noise Control Ordinance for SSWSTW	GW-RS0657-23	9 Aug 2023	11-08-2023 to 08-02-2024	Valid
Construction Noise Permit under Noise Control Ordinance for POSPS	GW-RS0822-23	25 Sep 2023	27-09-2023 to 26-03-2024	Valid
Marine Dumping Permit (Dredged Sediment Requiring Type 1 – Open Sea Disposal)	Ref. no.: 500024	23 Nov 2023	Nil	In progress

Note: Only include those valid or under application; fill in “N/A” for non-applicable item(s).

### 3.4 Site Inspection and Audit Reports

- 3.4.1. Within this reporting month, weekly environmental site inspections were conducted on **02, 09, 16, 22 and 30 January 2024**. IEC attended the SSEM meeting held on **22 January 2024**. Holding nursery visit for transplanted trees on **26 January 2024**.
- 3.4.2. **No** non-compliance was found during the site inspection while reminders on environmental measures were recommended. Results and findings of these inspections in this reporting month are listed below in **Table 3.3**.

**Table 3.3 Summary of Environmental Inspections**

<b>Inspection Date</b>	<b>Reminder and Recommendations</b>	<b>Close-out Date / Status</b>
2 January 2024	No particular findings	N.A
9 January 2024	No particular findings	N.A
16 January 2024	No particular findings.	N.A
22 January 2024	<u>Pui O Sewage pumping Station(POSPS)-</u> 1. Drip tray should be provided to chemical container.	Rectified on 22 January 2024
30 January 2024	<u>Pui O Sewage pumping Station(POSPS)-</u> 1. Construction waste outside site boundary should be cleaned up regularly.	Rectified on 31 January 2024

Note: previous finding during site inspection on 27 December 2023 was rectified on 2 January 2024

**4 Monitoring Results**

**4.1 Noise Monitoring**

MONITORING METHODOLOGY

4.1.1 Monitoring Procedure

- (a) The impact noise monitoring should be carried out at all the designated monitoring stations when there are project-related construction activities undertaken within a radius of 300m from the monitoring stations.
- (b) The monitoring station shall normally be at a point 1m from the exterior of the sensitive receiver’s building façade and be at a position 1.2m above the ground.
- (c) Façade measurements were made at the monitoring locations. For free-field measurement, a correction factor of +3 dB (A) would be applied.
- (d) The battery condition was checked to ensure the correct functioning of the meter.
- (e) Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
- (f) Frequency weighting: A, Time weighting: Fast, Measurement time set: continuous 5 mins
- (g) Prior and after to the noise measurement, the meter was checked using the acoustic calibrator for 94dB (A) at 1000 Hz. If the difference in the calibration level before and after measurement was more than ±1.0 dB (A), the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
- (h) Noise measurements will be made in accordance with standard acoustical principles and shall not be made in fog, rain, wind with a steady speed exceeding 5m/s or wind with gusts exceeding 10m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

NAME OF LABORATORY AND EQUIPMENT USED AND CALIBRATION DETAILS

4.1.2 Noise monitoring was performed using sound level meter at the designated monitoring locations. The sound level meters shall comply with the International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator shall be deployed to check the sound level meters at a known sound pressure level. Brand and model of the equipment is given in **Table 4.1**.

**Table 4.1 Noise Monitoring Equipment**

Equipment	Brand and Model	Series Number
Integrated Sound Level Meter	Larson Davis LxT1	0005062
Acoustic Calibrator	Larson Davis CAL200	13098

4.1.3 The calibration certificates of the noise monitoring equipment are attached in [Appendix 4.1](#).

4.1.4 Calibration Details

- (a) The microphone head of the sound level meter was cleaned with soft cloth at regular intervals.
- (b) The sound level meter and calibrator were calibrated at yearly intervals.

PARAMETERS MONITORED

4.1.5 The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level ( $L_{eq}$ ).  $L_{eq(30min)}$  should be used as the monitoring parameter. Supplementary information for data auditing, statistical results such as L10 and L90 shall also be obtained for reference.

4.1.6 For impact monitoring for construction of village sewers / rising main, noise monitoring should be undertaken on weekly basis. One set of  $L_{eq(30min)}$  noise level as six consecutive  $L_{eq(5min)}$  between 07:00-19:00 hours on normal weekdays.

MONITORING STATIONS

4.1.7 The noise monitoring stations for the Project are listed and shown in **Table 4.2**, impact noise monitoring was conducted at **Eight (8)** noise monitoring stations N12a, N12b, N13, N14, N15b, N16a, N16b and N17 once per week in the reporting month.

**Table 4.2 Noise Monitoring Station**

Monitoring Station ID <sup>(1)</sup>	Monitoring Location	Measurement Type	Level (in terms of no. of floor)
N01a	Shui Hau Village	Free-Field	G/F
N01c	Shui Hau Village	Free-Field	G/F
N03a	Tong Fuk Village	Free-Field	G/F
N05a	Residences at Cheung Fu Street	Free-Field	G/F
N07	Government Holiday Bungalows	Free-Field	G/F
N08	Cheung Sha Ha Tsuen	Free-Field	G/F
N10	Cheung Sha Sheung Tsuen	Façade	G/F
N11b	San Shek Wan – Ming Garden	Free-Field	G/F
N12a	Lo Uk Tsuen	Free-Field	G/F
N12b	Lo Uk Tsuen	Façade	G/F
N13	Pui O San Wai Tsuen	Façade	G/F
N14	South Lantau Community Centre	Free-Field	G/F
N15b	Pui O Lo Wai Tsuen	Façade	G/F

Monitoring Station ID <sup>(1)</sup>	Monitoring Location	Measurement Type	Level (in terms of no. of floor)
N16a	Residences at Ham Tin	Free-Field	G/F
N16b	Residences at Ham Tin	Free-Field	G/F
N17	Bui O Public School	Façade	R/F

Remarks (1): Fine adjustment of noise monitoring stations at all locations was proposed as per EP Condition 3.1.

MONITORING DATE, TIME, FREQUENCY AND DURATION

4.1.8 For daytime construction work on normal weekdays, monitoring of  $L_{eq(30min)}$  should be carried out at each station at 0700-1900 hours on normal weekdays at a frequency of once a week. Impact monitoring schedule can be referred to [Appendix 4.2](#).

NOISE MONITORING RESULTS

4.1.9 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in [Appendix 4.3](#).

4.1.10 No school examination was taken place at N17 – Bui O Public School in the reporting period.

4.1.11 No action or limit level exceedance was recorded in construction noise level in this reporting period.

## 4.2 Water Quality Monitoring

### MONITORING METHODOLOGY

#### 4.2.1 Monitoring Procedure

- (a) The condition near the monitoring stations shall be observed and recorded on the data log sheet.
- (b) Check of sensors and electrodes with certified standard solutions before each use.
- (c) Wet bulb calibration for a DO meter should be carried out before measurement.
- (d) Water depth should be recorded by detector before sampling.
- (e) Sample would be taken using bucket sampler at surface level.
- (f) Transfer the sampled water carefully into cleaned water bottles (2x 1000ml) provided by the laboratory at the spot after the collection of the water sample for the subsequent laboratory Suspended Solid testing.
- (g) Transfer the sampled water from the bucket sampler to the rinsed water container for in-situ measurement (In case of the in-situ measurement cannot be carried at spot due to safety and adverse weather condition, sampled water from the bucket sampler will be transfer to cleaned water bottles provided by laboratory. Then, In-situ measurement will be conducted at a safe location which sampled water inside cleaned water bottle will be transfer to the rinsed water container for in-situ measurement) In-situ measurement shall be measured in duplicate.
- (h) Parameters including Water Temperature (°C), pH (units), Salinity (ppt), DO (mg/L), DO saturation (%) will be measured by the Multifunctional Meter and Turbidity (NTU) will be measured by turbid meter. (Water Temperature and Salinity will be measured as reference parameters)
- (i) Record the result on the data log sheet and record any special finding during / after in-situ measurement.
- (j) The water sample bottles will be stored in a cool box (at cooled to 4°C without being frozen), which shall be delivered to HOKLAS laboratory (ALS Technichem (HK) Pty Ltd) for further testing to determine the level of SS.

### NAME OF LABORATORY AND EQUIPMENT USED AND CALIBRATION DETAILS

#### LABORATORY MEASUREMENT / ANALYSIS

- 4.2.2 Analysis of suspended solids will be carried out in a HOKLAS accredited laboratory, which is ALS Technichem (HK) Pty Ltd.

#### EQUIPMENT USED

##### Dissolved Oxygen, pH And Temperature Measuring Equipment

- 4.2.3 Multifunctional Meter and Turbid Meter are used at each designated monitoring station. They are capable of measuring:

- (a) a dissolved oxygen level in the range of 0-20mg/L and 0-200% saturation (Detection Limit: 0.1mg/L)
- (b) a temperature of 0-45 degree Celsius (Detection Limit: 0.1 degree Celsius)
- (c) turbidity level between 0-1000NTU (Detection Limit: 0.1NTU)
- (d) salinity in the range of 0-40ppt (Detection Limit: 0.1ppt)
- (e) pH value in range of 0.0 – 14.0 (Detection Limit: 0.1units)

Other monitoring equipment namely water depth meter, water current meter, dGPS positioning device, water sampler listed below were also deployed,

- (a) Water depth meter (Range: 0.6 -100m, Resolution: 0.1m)
- (b) Water current meter (Range: 0-360°, Detection Limit: 1mm/s)
- (c) dGPS positioning device (Resolution: Horizontal: 0.25m; Vertical: 0.50 m )
- (d) Water sampler (Horizontal discrete type, Capacity: 2.2L)

Sampler Container and Storage

4.2.4 A water sampler, Water samples for suspended solids measurement should be collected in high-density polythene bottles, packed in ice (cooled to 4°C without being frozen), and delivered to ALS Technichem (HK) Pty Ltd. as soon as possible after collection for analysis.

Water Depth Detector

4.2.5 A portable, battery-operated echo sounder shall be used for the determination of water depth at each designated monitoring station. This unit can either be handheld or affixed to the bottom of the workboat, if the same vessel is to be used throughout the monitoring programme.

CALIBRATION DETAILS

4.2.6 Maintenance and Calibration

- (a) The responses of sensors and electrodes of the water quality monitoring equipment were cleaned and checked at regular intervals.
- (b) DO meter (Multifunctional Meter) and turbid meter was certified by a laboratory accredited under HOKLAS or any other international accreditation scheme, and subsequently re-calibrated at three monthly intervals.

4.2.7 Brand and model of the equipment are given in **Table 4.3**.

**Table 4.3 Water Quality Monitoring Equipment**

Equipment	Brand and model	Series Number
Multifunctional Meter	Sonde YSI Professional Plus	16J104708 / 17F100236
Turbid meter	Xin Rui WGZ-3B	2209074

Calibration certificates of the water quality monitoring equipment are attached in [Appendix 4.1](#).

PARAMETERS MONITORED

4.2.8 In construction phase, the levels of dissolved oxygen (DO), temperature, turbidity and salinity should be measured in situ while suspended solids (SS) is determined by laboratory analysis.

MONITORING STATIONS

4.2.9 Water quality monitoring involves 9 monitoring stations. The locations of water quality monitoring station are shown in **Table 4.4**.

**Table 4.4 Marine Water Quality Stations for Water Quality Monitoring**

Station	Description	Easting	Northing
CE	Upstream control station at ebb tide	810838	807538
CF	Upstream control station at flood tide	815886	808081
SR4 <sup>(1)</sup>	Ecological Sensitive Receiver (Coral Communities) at Pui O Wan	814938	810975
SR5	Ecological Sensitive Receiver (Coral Communities) at Pui O Wan	814326	810540
SR6	Gazetted Bathing Beach at Lower Cheung Sha	810553	810475
SR9 <sup>(1)</sup>	Ecological Important Stream at Tong Fuk	811325	809787
SR10	Secondary Contact Recreational Zones at South Lantau	810561	809494
SR12 <sup>(1)</sup>	Proposed Special Site of Scientific Interest (SSSI) at Shui Hau Wan	810359	808989
SR15	Gazetted Bathing Beach at Pui O and Ecologically Important Stream at Pui O	816037	810722

Remarks (1): Fine adjustment of water quality monitoring stations at SR4, SR9 and SR12 was proposed as per EP Condition 3.1, and baseline monitoring was conducted at corresponding fine adjusted locations.

MONITORING DATE, TIME, FREQUENCY AND DURATION

4.2.10 Water quality monitoring had been commenced on 12 April 2022 the designated monitoring stations three days per week with respect to marine-based construction works commenced on 19 April 2022. HDD casing works commenced on 30 May 2022.

4.2.11 To support water quality monitoring, the silt curtain deployment plan has minor updates to include an additional brand of geosynthetic material as alternative for selection and adopt underwater robot for inspecting condition of silt curtain.

4.2.12 The levels of dissolved oxygen (DO), temperature, turbidity and salinity were measured in situ while suspended solids (SS) is determined by laboratory analysis at all the monitoring stations in **Table 4.4** three times a week. Impact monitoring schedule can be referred to [Appendix 4.2](#).

4.2.13 In association with the water quality parameters, other relevant data shall also be recorded, such as monitoring location / position, time, water temperature, DO saturation, weather



conditions, and any special phenomena underway near the monitoring station.

- 4.2.14 Impact Monitoring shall be carried out three days per week, at mid-flood and mid-ebb tides (within  $\pm 1.75$  hour of the predicted time). The interval between two sets of monitoring shall not be less than 36 hours. The monitoring period should avoid concurrent marine project in the vicinity.
- 4.2.15 The sampling frequency of at least three days per week should be undertaken. Upon completion of the construction works, the monitoring exercise at the designated monitoring locations should be continued for four weeks in the same manner as the impact monitoring. In case exceedance of Action/Limit Level is recorded, the frequency shall be increased as per the Event and Action Plan.
- 4.2.16 To ensure the robustness of in-situ measurement, parameters shall be measured in duplicate. In case the difference between duplicates is larger than 25%, a third set of measurement shall be carried out.

**MONITORING RESULTS**

- 4.2.17 Marine water quality monitoring results measured in this reporting period are reviewed and summarized. Details of marine water quality monitoring results and graphical presentation can be referred in [Appendix 4.4](#)
- 4.2.18 [Water quality monitoring is evaluated against Action and Limit Levels. The derived Action and Limit Level proposed in Baseline Monitoring Report Rev. 9.2 was agreed by EPD on 2 September 2022. Action and Limit Levels of marine water quality monitoring have been set with reference to the derived criteria as shown in Table 4.5 below for reference.](#)

**Table 4.5 Action and Limit Levels of Water Quality**

Parameters	Action Level	Limit Level
<i>Construction Phase Marine Water Monitoring - derived criteria</i>		
DO in mg/L <sup>B</sup>	Surface and Middle: 5.8 mg/L Bottom: 5.9 mg/L	Surface and Middle: 4 mg/L Bottom: 2 mg/L
Turbidity in NTU (Depth-averaged A) <sup>C</sup>	14.4 NTU <u>and</u> 20% exceedance of value at any impact station compared with corresponding data from control station <sup>D</sup>	23.5 NTU <u>and</u> 30% exceedance of value at any impact station compared with corresponding data from control station <sup>D</sup>
SS in mg/L (Depth-averaged A) <sup>C</sup>	13.1 mg/L <u>and</u> 20% exceedance of value at any impact station compared with corresponding data from control station <sup>D</sup>	30.4 mg/L <u>and</u> 30% exceedance of value at any impact station compared with corresponding data from control station <sup>D</sup>

Notes (with proposed amendments in AL/LL in underlined text):

- A. "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.
- B. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- C. For SS and turbidity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
- D. Action Level and Limit Level with 95%-ile / 99%-ile derived from baseline data "and" 20% / 30% exceedance of control station proposed in Baseline Monitoring Report.

- 4.2.19 Number of exceedances recorded during the reporting month are summarized in **Table 4.6**.

**Table 4.6 Summary of Marine Water Quality Exceedances**

Station	Parameter	DO (S&M)		DO (Bottom)		Turbidity		SS		Exceedance count	
		Level exceeded	Mid Ebb	Mid Flood	Mid Ebb	Mid Flood	Mid Ebb	Mid Flood	Mid Ebb	Mid Flood	Mid Ebb
SR4	Action	/	/	/	/	/	/	/	/	0	0
	Limit	/	/	/	/	/	/	/	/	0	0
SR5	Action	/	/	/	/	/	/	/	/	0	0
	Limit	/	/	/	/	/	/	/	/	0	0
SR6	Action	/	/	/	/	/	/	/	/	0	0
	Limit	/	/	/	/	/	/	/	/	0	0
SR9	Action	/	/	/	/	/	/	/	/	0	0
	Limit	/	/	/	/	/	/	/	/	0	0
SR10	Action	/	/	/	/	/	/	/	/	0	0
	Limit	/	/	/	/	/	/	/	/	0	0
SR12	Action	/	/	/	/	/	/	/	/	0	0
	Limit	/	/	/	/	/	/	/	/	0	0
SR15	Action	/	/	/	/	/	/	/	/	0	0
	Limit	/	/	/	/	/	/	/	/	0	0
Total	Action	0	0	0	0	0	0	0	0	0	0
	Limit	0	0	0	0	0	0	0	0	0	0

4.2.20 Water quality monitoring on 8 (mid-ebb), 22 (mid-ebb and mid-flood) January 2024 were cancelled due to Strong Monsoon Signal. Water quality monitoring on 24 January 2024 (mid-ebb and mid-flood) was cancelled due to sea condition taking personnel safety into consideration. No substitution would be arranged for such cancellation since it is impossible to maintain the monitoring frequency as three times a week for the event of marine water quality monitoring cancellation in between time with respect to the fact that not less than 36 hours interval shall be followed for two monitoring days as required by the EM&A Manual Clause 5.1.6 (b) for the project.

4.2.21 In accordance with the action level and limit level in Baseline Monitoring Report Rev. 9.2 agreed by EPD on 2 September 2022, no action level and limit level exceedances were recorded in the reporting month.

### 4.3 Ecology

#### MONITORING METHODOLOGY

4.3.1 The weekly site audit to be carried out by the ET should include checking whether good site practices are being properly implemented by the Contractor.

4.3.2 Impact monitoring of the transplanted *Aquilaris sinensis* at holding nursery and one retain tree of *Aquilaris sinensis* in SSWSTW Project Site, establishment and after-establishment caring measures of the compensatory mixed woodland to ensure the affected tree would not be affected by any unacceptable construction works. The trees would be treated with establishment works immediately after transplanting.

#### PARAMETERS MONITORED

4.3.3 The extent of the work site boundaries should be checked by the ET during the weekly site

audit. Any disturbance by the Contractor outside the works area especially any damage to the vegetation and surrounding habitats outside the Project area shall be reported to ER and IEC.

- 4.3.4 To identify any unacceptable construction works for the trees of *Aquilaris sinensis* during transplanting, establishment and after-establishment caring measures of the compensatory mixed woodland.

MONITORING LOCATION

- 4.3.5 As per latest version of PTP, four tree found (1 no. of *Aquilaria sinensis* and 3 nos. of *Gmelina chinensis*) within the site of SSWSTW ([Figure 2.5](#)) which are considered to be the plant species with conservative importance for temporarily transplanted to the nursery ([Figure 2.6](#)) at Kam Tin and eventually be transplanted to Pui O Pumping Station.

MONITORING DATE, TIME, FREQUENCY AND DURATION

- 4.3.6 The recommended good site practices to be audited once every week as part of the site audit programme. The weekly site audit to be carried out by the ET includes checking whether good site practices are being properly implemented by the Contractor. Results are recorded in Weekly Environmental Site Audit Checklist.
- 4.3.7 Monitoring programme for post-transplantation was conducted on [26 January 2024](#) once per month.

MONITORING RESULTS

- 4.3.8 The weekly site audit was carried out by ET include checking whether good site practices are being properly implemented by the Contractor.
- 4.3.9 The extent of the work site boundaries was checked by the ET during the weekly site audit.
- 4.3.10 Results and findings of site audit in this reporting month are listed in [Table 3.3](#).

**4.4 Waste Management**

- 4.4.1 The quantities of waste for disposal in the Reporting Period are summarized in [Table 4.7](#). The Monthly Summary Waste Flow Table is shown in [Appendix 4.5](#).

**Table 4.7 Summary of Quantities of Waste Material**

Waste Type	Quantity this month	Quantity (the end of last month)	Cumulative Quantity-to-Date
Hard Rock and Large Broken Concrete (Inert)	0	0	0



Waste Type	Quantity this month	Quantity (the end of last month)	Cumulative Quantity-to-Date
(in '000m <sup>3</sup> )			
Reused in this Contract (Inert) (in '000m <sup>3</sup> )	0	0	0
Reused in other Projects (Inert) (in '000m <sup>3</sup> )	0	0	0
Disposal as Public Fill (Inert) (in '000m <sup>3</sup> )	1.68286	0.42857	16.62581
Metals (in '000kg)	0	0.00930	7.52830
Paper / Cardboard Packing (in '000kg)	0	0.06700	0.58868
Plastics (in '000kg)	0	0.00890	0.06726
Chemical Wastes (in '000kg)	0	0	0
General Refuses (in '000kg)	8.63	13.65	569.51
Marine Sediment (Type 1 – Open Sea Disposal) , m3	0	60.2	60.2

**5 Complaints, Notification of Summons and Prosecution**

5.1.1 No environmental complaint was recorded in the reporting month.

5.1.2 No notification of summons and successful prosecution regarding construction works were recorded in the reporting month.

5.1.3 Cumulative statistic on complaints, summary of complaints and successful prosecutions are summarized in **Table 5.1**, **Table 5.2** and **Table 5.3** respectively.

**Table 5.1 Cumulative Statistics on Complaints**

Reporting Period	No. of Complaints
January 2024	0
Project commencement to the end of last reporting month	2
<b>Total</b>	<b>2</b>

**Table 5.2 Summary of Complaints**

Date of Notification from EPD	Date of Complaint	Description of Complaint	Validity of Complaint	Close-Out Date / Status
26 May 2022	22 May 2022	A complaint is regarding noise nuisance from marine site of San Shek Wan, Lantau Island.	Based on the investigation, the works activities of marine works did not result in any noise nuisance to Noise Sensitive Receivers (NSRs), noise nuisance from the Project is unlikely to be valid.	The interim report was submitted to EPD in June 2022. EPD replied no further comments on the final investigation report on 13 July 2022.
23 Dec 2022	21 Dec 2022	A complaint is regarding to the water quality for Pui O Beach, Lantau Island.	Based on the investigation, the works activities at POPS did not result in any water quality impacts to the Pui O Beach.	The interim report was submitted to EPD on 4 Jan 2023.



**Table 5.3 Cumulative Statistics on Successful Prosecutions**

<b>Environmental Parameters</b>	<b>Cumulative No. Brought Forward</b>	<b>No. of Successful Prosecutions this month (Offence Date)</b>	<b>Cumulative No. Project-to-Date</b>
Air	-	0	0
Noise	-	0	0
Water	-	0	0
Waste	-	0	0
Other	-	0	0
<b>Total</b>	<b>-</b>	<b>0</b>	<b>0</b>

## 6 Future Key Issues

6.1.1 In coming reporting 3 months, the scheduled construction activities are listed as follows:

- Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Pui O Beach
- HDD works at marine and SSWSTW
- Dredging at marine
- Site formation works
- Drilling works
- Excavation works
- ELS works
- Superstructure RC Works
- Removal works of ELS

6.1.2 The scheduled construction activities and the recommended mitigation measures for the coming 3 months are listed in **Table 6.1**. The major construction activities for the next 3 months are summarized in Three Months Rolling Programme – [February 2024 to April 2024](#) in [Appendix 6.1](#).

**Table 6.1 Construction Activities and Recommended Mitigation Measures in Coming Reporting 3 Months**

Key Construction Works	Recommended Mitigation Measures
<ul style="list-style-type: none"> <li>• Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Pui O Beach</li> <li>• HDD works at marine and SSWSTW</li> <li>• Dredging at marine</li> <li>• Site formation works</li> <li>• Drilling works</li> <li>• Excavation works</li> <li>• ELS works</li> <li>• Superstructure RC Works</li> <li>• Removal works of ELS</li> </ul>	<ul style="list-style-type: none"> <li>• Implementation of noise pollution control in accordance with Construction Noise Mitigation Plan;</li> <li>• Dust control during dust generating works;</li> <li>• Silt curtain should be maintained in good condition;</li> <li>• Adopt surface drainage and sediment control facilities for sewage installation in village and public roads;</li> <li>• Adopt temporary drainage and sediment control facilities on Site;</li> <li>• Vehicle wheel-washing and body washing facilities should be provided at the site entrance;</li> <li>• Regular water spraying on excavation works for dust control; and</li> <li>• Proper waste handling, recycling and storage.</li> </ul>

## 7 Conclusion

### 7.1 Noise Monitoring

- 7.1.1 No school examination was taken place at N17 – Bui O Public School in the reporting period
- 7.1.2 No action or limit level exceedance was recorded in construction noise level in this reporting period.

### 7.2 Water Quality Monitoring

- 7.2.1 Marine-based construction works commenced on 19 April 2022, HDD casing works commenced on 30 May 2022.
- 7.2.2 Water quality monitoring on 8 (mid-ebb), 22 (mid-ebb and mid-flood) January 2024 were cancelled due to Strong Monsoon Signal. Water quality monitoring on 24 January 2024 (mid-ebb and mid-flood) was cancelled due to sea condition taking personnel safety into consideration. No substitution would be arranged for such cancellation since it is impossible to maintain the monitoring frequency as three times a week for the event of marine water quality monitoring cancellation in between time with respect to the fact that not less than 36 hours interval shall be followed for two monitoring days as required by the EM&A Manual Clause 5.1.6 (b) for the project.
- 7.2.3 In accordance with the action level and limit level in Baseline Monitoring Report Rev. 9.2 agreed by EPD on 2 September 2022, no action level and limit level exceedances were recorded in the reporting month.

### 7.3 Ecological Impact Monitoring

- 7.3.1 Transplanting of the trees of *Aquilaris sinensis* was completed on 26 April 2022. Maintenance works for trees in holding nursery have commenced.
- 7.3.2 As per latest version of PTP, four tree found (1 no. of *Aquilaria sinensis* and 3 nos. of *Gmelina chinensis*) within the site of SSWSTW which are considered to be the plant species with conservative importance for temporarily transplanted to the nursery at Kam Tin and eventually be transplanted to Pui O Pumping Station.
- 7.3.3 The weekly site audit was carried out by ET include checking whether good site practices are being properly implemented by the Contractor.
- 7.3.4 The extent of the work site boundaries was checked by the ET during the weekly site audit.
- 7.3.5 Within this reporting period, holding nursery visit for transplanted trees on 26 January 2024.
- 7.3.6 No non-compliance was found during the site inspection while reminders on environmental measures were recommended. Results and findings of these inspections in this reporting period are listed below in **Table 7.1**.



**Table 7.1 Summary of Ecological Impact Monitoring**

Inspection Date	Reminder and Recommendations	Close-out Date / Status
15 December 2023.	<p style="text-align: center;"><u>Transplanted trees in holding nursery at Kam Tin</u></p> <p><u>Remainder:</u></p> <ol style="list-style-type: none"> <li>1. <u>Leave shedding of <i>Celtis sinensis</i> (T114) was observed, but this condition did not occur in the same species temporarily transplanted to the holding nursery (T113). The Contractor was reminded to keep in view of the health condition of <i>Celtis sinensis</i> (T114).</u></li> <li>2. <u>The Contractor was reminded to provide watering to all tree species temporarily transplanted in the holding nursery on a frequent basis during dry season.</u></li> </ol>	Will be rectified in early February 2024

**7.4 Review of the Reasons for and the Implications of Non-compliance**

7.4.1 No environmental non-compliance was recorded in the reporting month.

**7.5 Summary of action taken in the event of and follow-up on non-compliance**

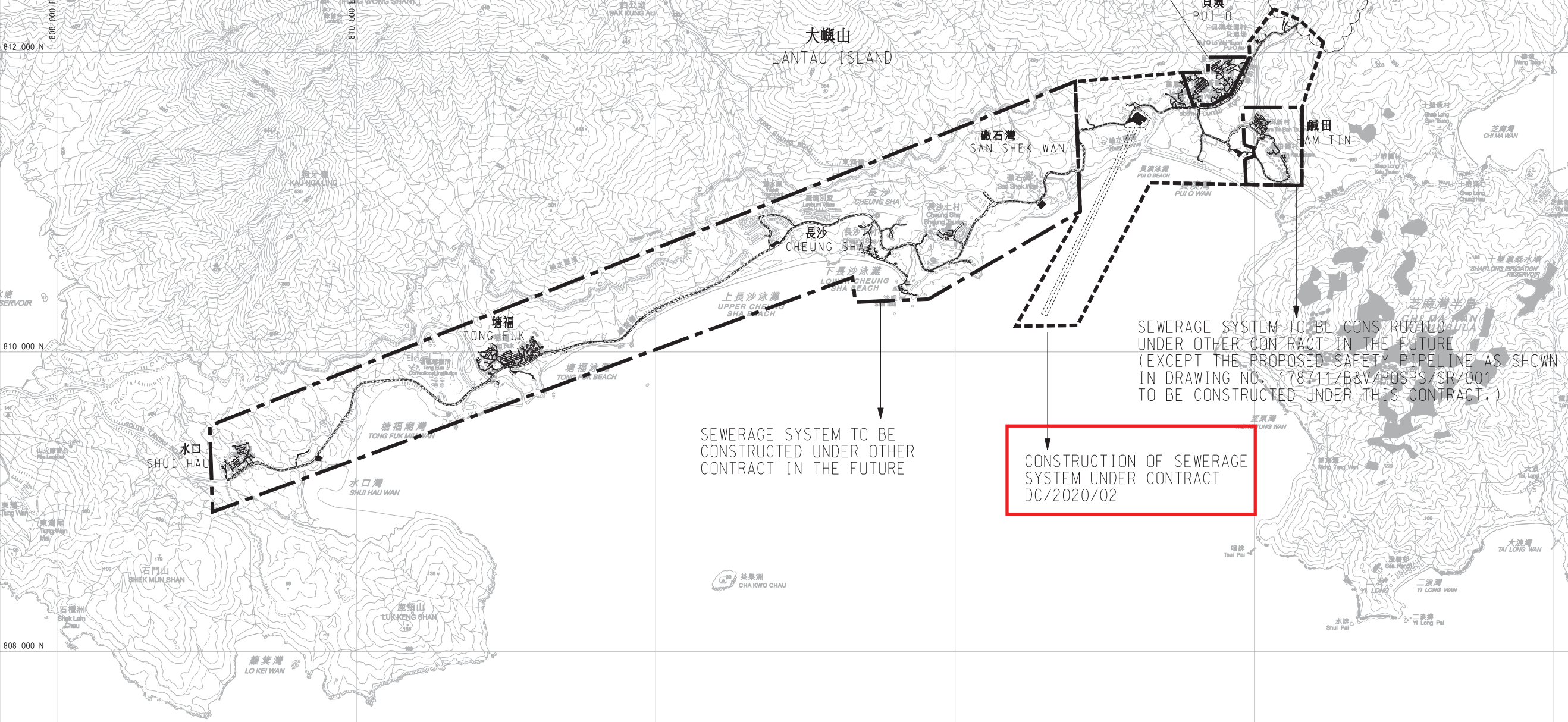
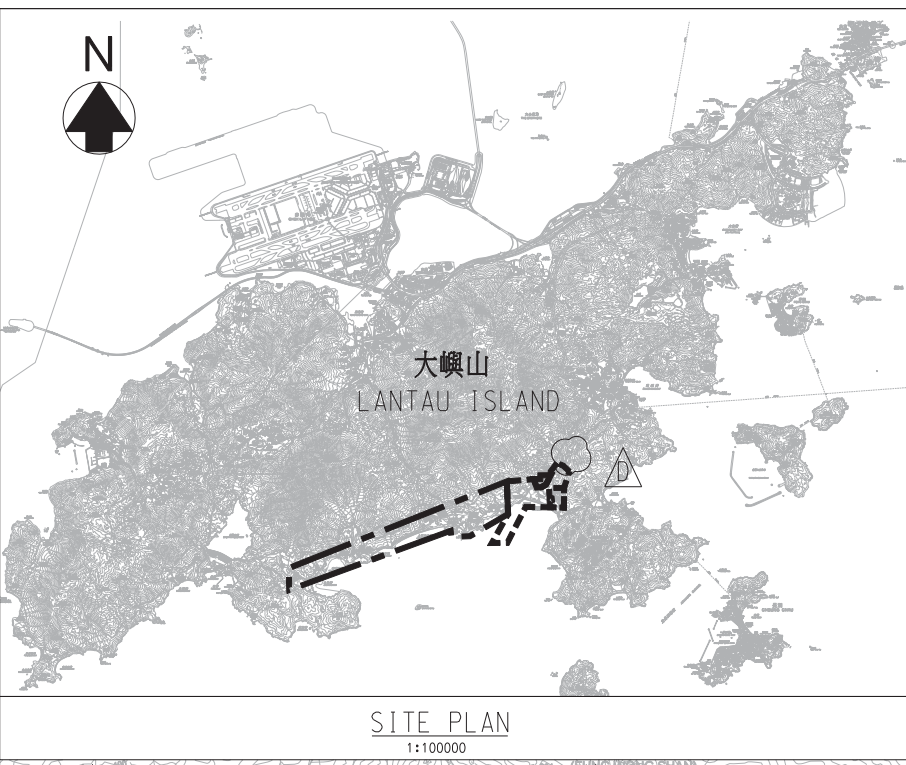
7.5.1 There was no particular action taken since no non-compliance was recorded in the reporting period.



***Figure 2.1***

***Master Layout Plan***





Revision	Date	Description	Initial
D	11/20	TENDER ADDENDUM NO.6	BL
C	11/20	TENDER ADDENDUM NO.5	BL
B	11/20	TENDER ADDENDUM NO.4	BL
A	09/20	TENDER ADDENDUM NO.2	TFL
Designed	Checked	Drawn	Checked
Initial	TFL	BL	SZ
Date	04/20	04/20	04/20

Approved  
*Christina*

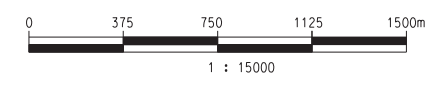
Contract no. DC/2020/02

Contract title  
CONSTRUCTION OF SAN SHEK WAN SEWAGE TREATMENT WORKS, ASSOCIATED SUBMARINE OUTFALL AND PUI O SEWERAGE WORKS

Drawing title  
SOUTH LANTAU SEWERAGE WORKS - MASTER LAYOUT PLAN

Drawing no.	Revision
178711/B&V/GN/001	D

Scale 1 : 15000



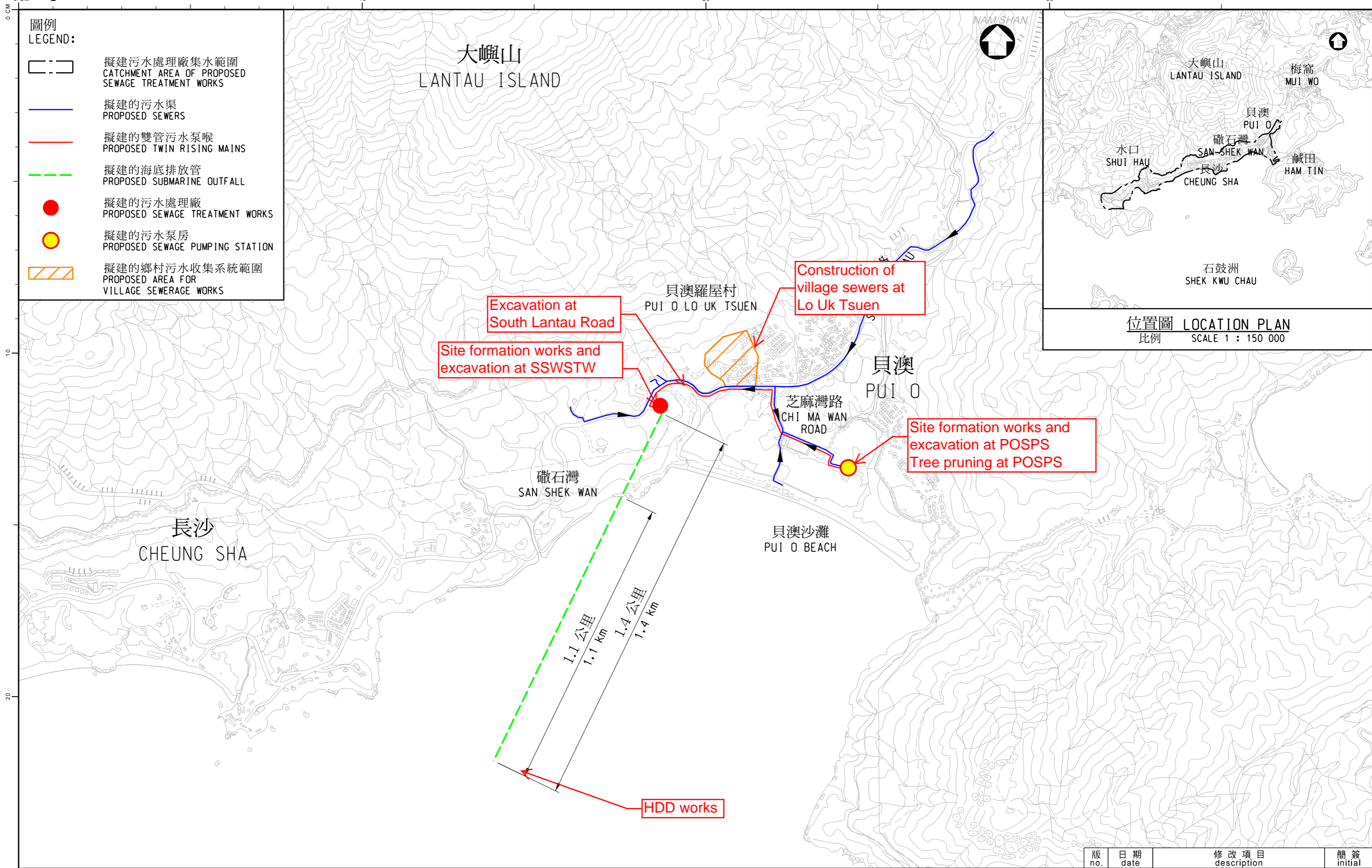





***Figure 2.2***

***Contract Layout Plan***

Figure 2.2



圖則名稱 drawing title  
 工務工程計劃編號331DS - 離島污水收集系統第2階段  
 - 南大嶼山污水收集系統工程  
 PWP ITEM NO.331DS - OUTLYING ISLANDS SEWERAGE, STAGE 2  
 - SOUTH LANTAU SEWERAGE WORKS

繪畫 drawn	<i>SIGNED</i> W. H. CHAN	日期 date	27 APR 2020	修改項目 description	簡簽 initial
核對 checked	<i>SIGNED</i> Ir K. S. CHAN	日期 date	27 APR 2020	圖則編號 drawing no.	比例 scale
批核 approved	<i>SIGNED</i> Ir L. CHEN	日期 date	27 APR 2020	DVD/2020/001	1:12 500
部門 office	特別職務部 SPECIAL DUTY DIVISION	保留版權 COPYRIGHT RESERVED			
				 香港特別行政區政府渠務署 DRAINAGE SERVICES DEPARTMENT GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION	










***Figure 2.3***




***Locations of Noise Monitoring Station***



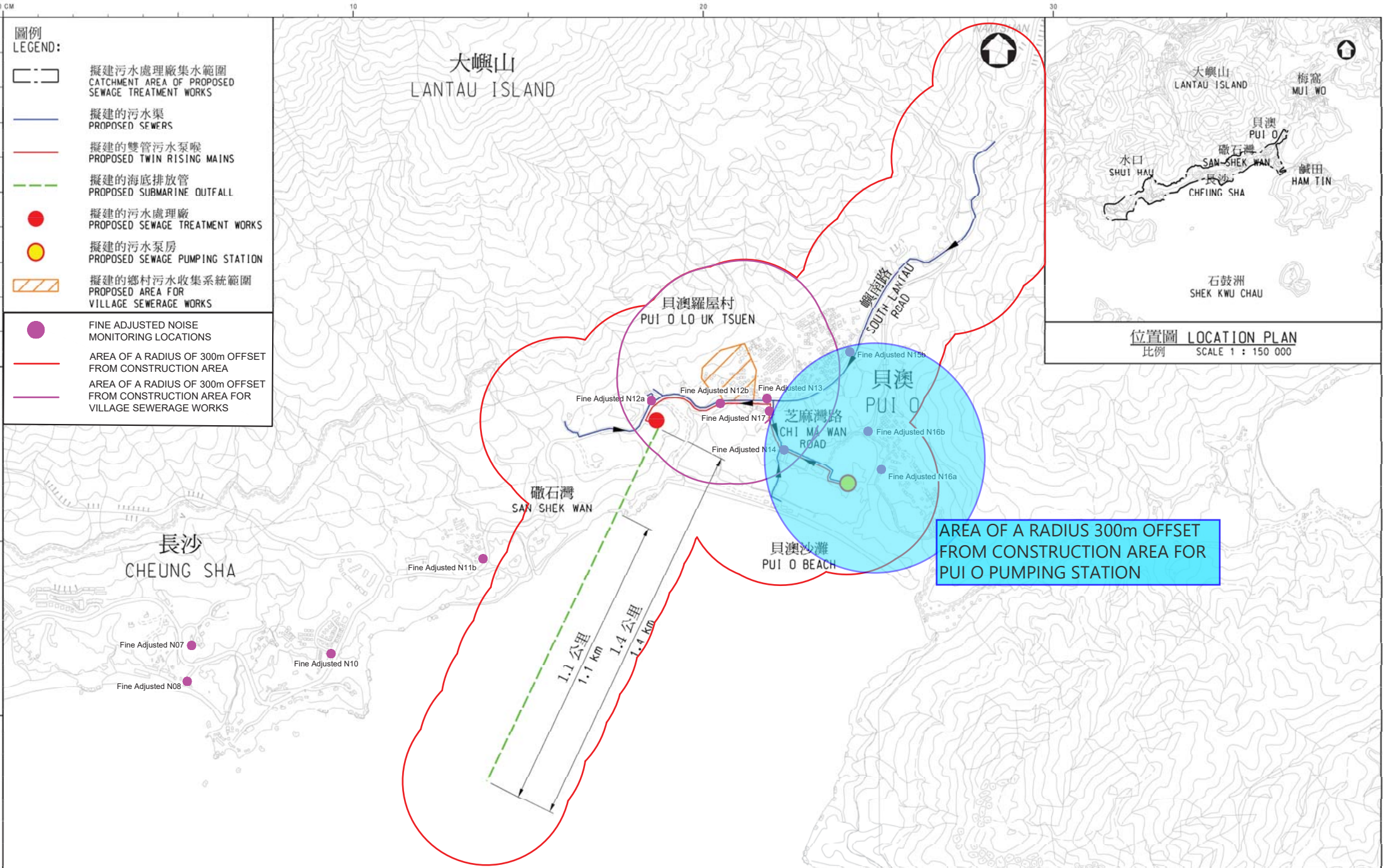
**圖例 LEGEND:**

-  擬建污水處理廠集水範圍  
CATCHMENT AREA OF PROPOSED SEWAGE TREATMENT WORKS
-  擬建的污水渠  
PROPOSED SEWERS
-  擬建的雙管污水泵喉  
PROPOSED TWIN RISING MAINS
-  擬建的海底排放管  
PROPOSED SUBMARINE OUTFALL
-  擬建的污水處理廠  
PROPOSED SEWAGE TREATMENT WORKS
-  擬建的污水泵房  
PROPOSED SEWAGE PUMPING STATION
-  擬建的鄉村污水收集系統範圍  
PROPOSED AREA FOR VILLAGE SEWERAGE WORKS

-  FINE ADJUSTED NOISE MONITORING LOCATIONS
-  AREA OF A RADIUS OF 300m OFFSET FROM CONSTRUCTION AREA
-  AREA OF A RADIUS OF 300m OFFSET FROM CONSTRUCTION AREA FOR VILLAGE SEWERAGE WORKS

**位置圖 LOCATION PLAN**  
比例 SCALE 1 : 150 000



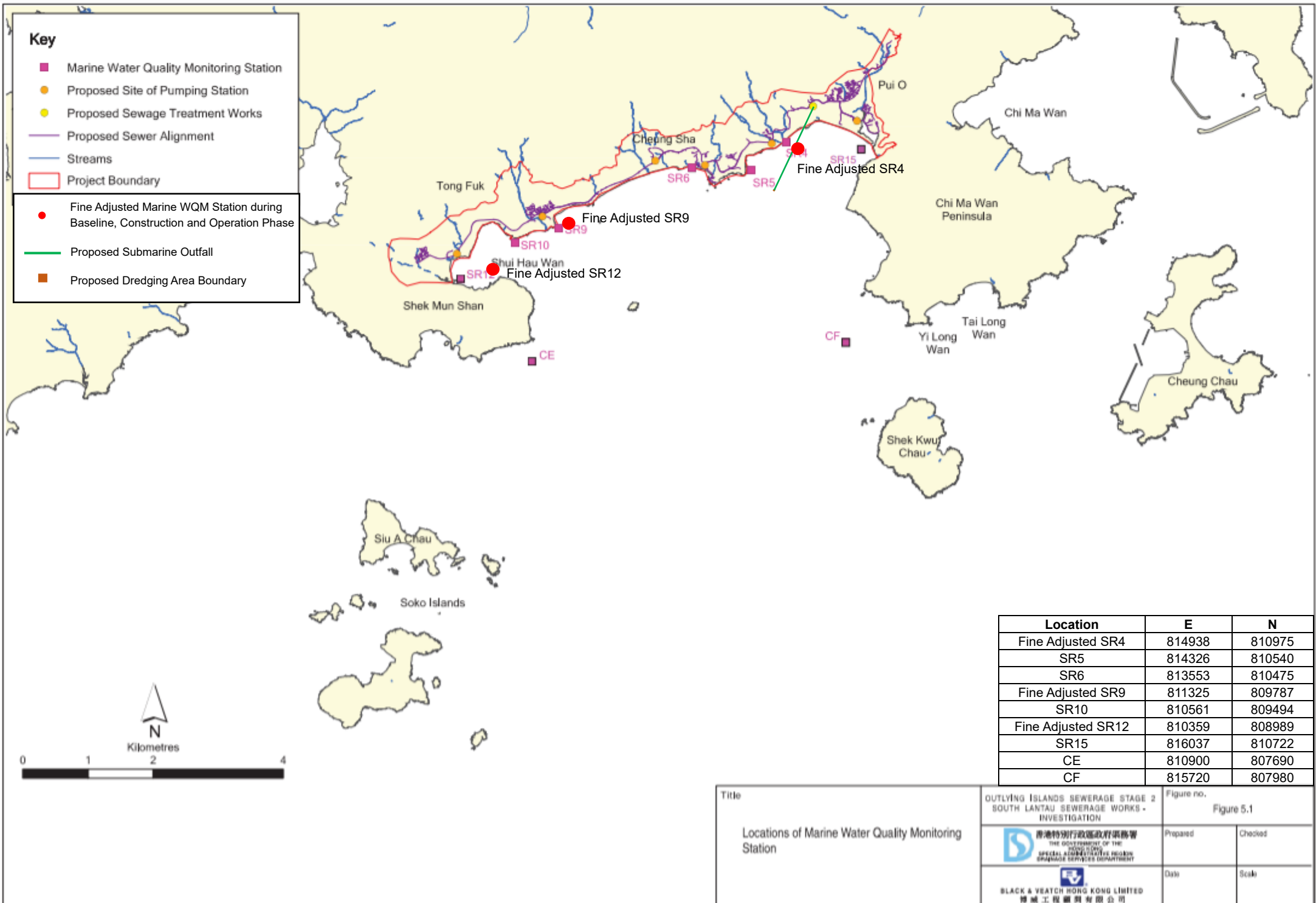
AREA OF A RADIUS 300m OFFSET FROM CONSTRUCTION AREA FOR PUI O PUMPING STATION



***Figure 2.4***

***Locations of Water Quality Monitoring Stations***





Location	E	N
Fine Adjusted SR4	814938	810975
SR5	814326	810540
SR6	813553	810475
Fine Adjusted SR9	811325	809787
SR10	810561	809494
Fine Adjusted SR12	810359	808989
SR15	816037	810722
CE	810900	807690
CF	815720	807980

Title  Locations of Marine Water Quality Monitoring Station	OUTLYING ISLANDS SEWERAGE STAGE 2 SOUTH LANTAU SEWERAGE WORKS - INVESTIGATION		Figure no. Figure 5.1	
			Prepared	Checked
			Date	Scale

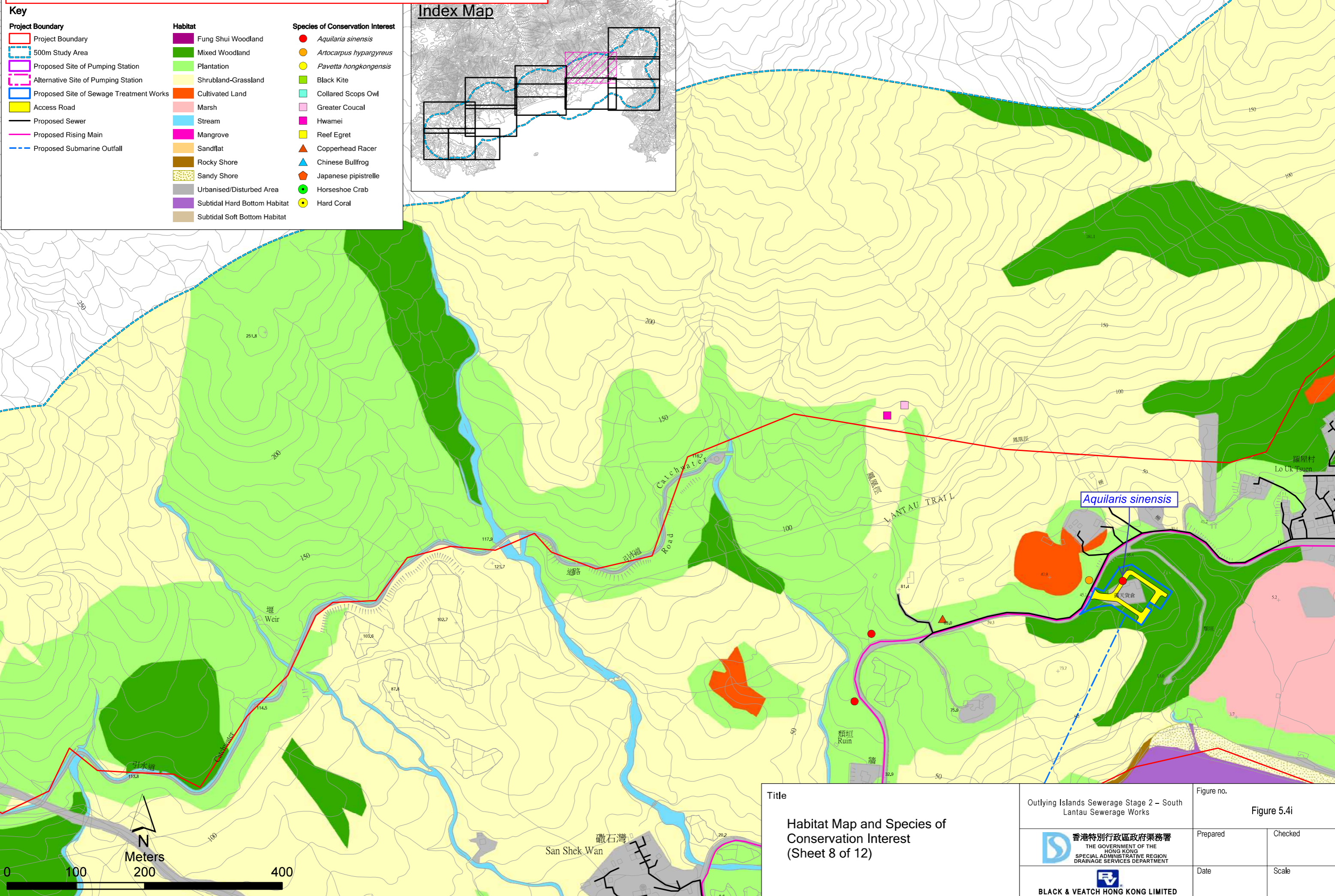


***Figure 2.5***

***Mark up Figure 5.4i extracted from approved EIA Report (AEIAR-210/2017)***



Figure 2.5 - Mark up Figure 5.4i extracted from approved EIA Report (AEIAR-210/2017)



<b>Title</b> Habitat Map and Species of Conservation Interest (Sheet 8 of 12)	Outlying Islands Sewerage Stage 2 – South Lantau Sewerage Works		Figure no. <b>Figure 5.4i</b>	
	 香港特別行政區政府渠務署 THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION DRAINAGE SERVICES DEPARTMENT		Prepared	Checked
	 BLACK & VEATCH HONG KONG LIMITED		Date	Scale



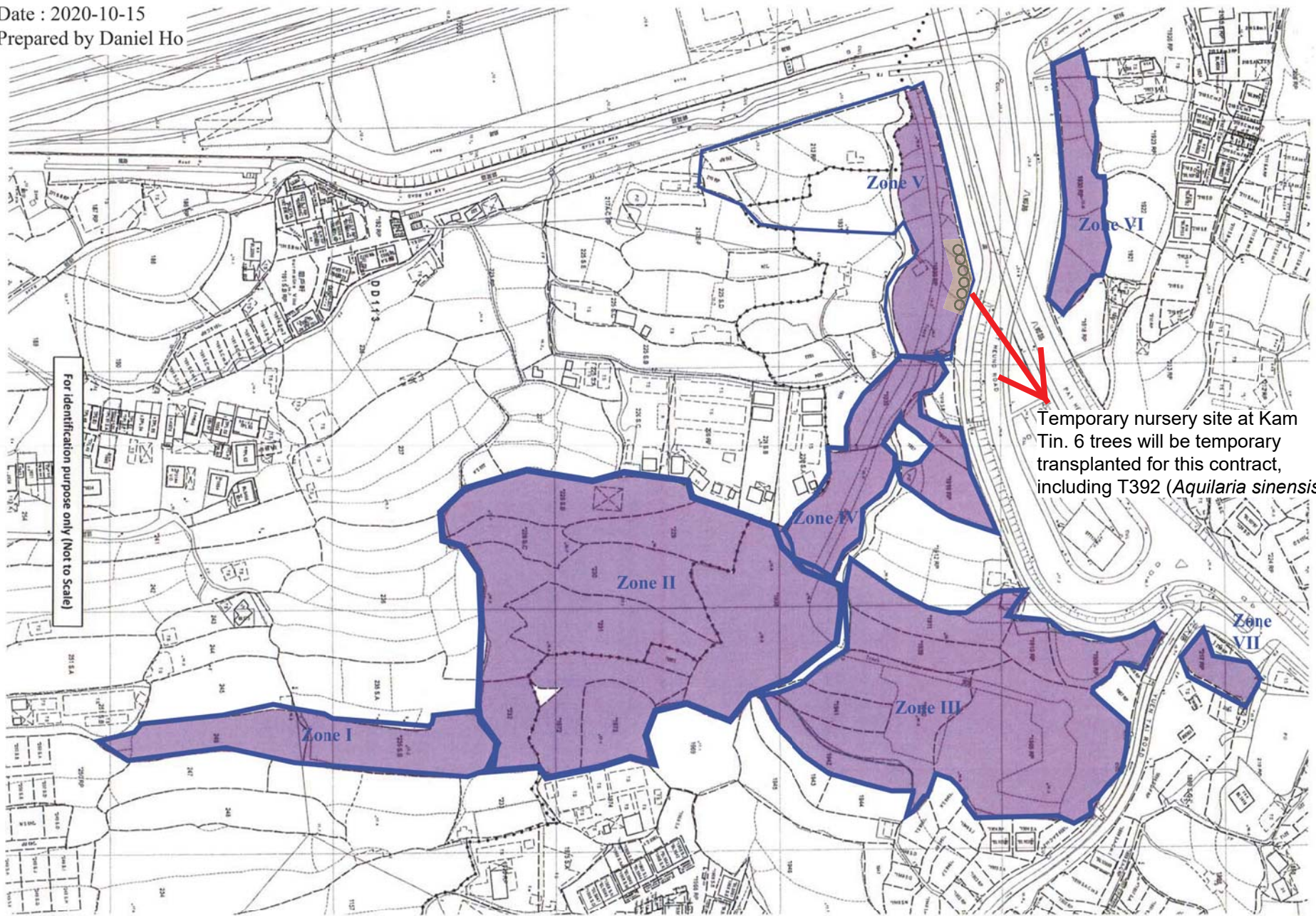
***Figure 2.6***

***Location Plan for Temporary Holding Nursery***




Figure 2.6

Date : 2020-10-15  
Prepared by Daniel Ho



COPY RIGHT®

Project : Contract No.: DC/2020/02  
Construction of San Shek Wan Sewage Treatment Works,  
Associated Submarine Outfall and Pui O Sewerage Works

 **Toyo Greenland Co., Ltd.**

Drawing Title : Location Plan for 6 nos. Trees on Kam Tin Nursery

Check : Ho Tat Pui, Daniel

Scale : N.T.S.

Rev.

Ref: C3109/22/TGD0164

Date : 10 January 2022

00



***Appendix 4.1***

***Copies of Calibration Certificates***





## CERTIFICATE OF CALIBRATION

Certificate No.: 23CA0508 02-04

Page 1 of 2

## Item tested

Description:	Sound Level Meter (Class 1)	Microphone	Preamp
Manufacturer:	Larson Davis	PCB	PCB
Type/Model No.:	LxT1	377B02	PRMLxT1L
Serial/Equipment No.:	0005062	173734	042836
Adaptors used:	-	-	-

## Item submitted by

Customer Name:	Lam Environmental Services Limited
Address of Customer:	-
Request No.:	-
Date of receipt:	08-May-2023

Date of test: 11-May-2023

## Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Multi function sound calibrator	B&K 4226	2288444	23-Aug-2023	CIGISMEC
Signal generator	DS 360	61227	08-Jun-2023	CEPREI

## Ambient conditions

Temperature:	22 ± 1 °C
Relative humidity:	55 ± 10 %
Air pressure:	1005 ± 5 hPa

## Test specifications

- 1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- 2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.
- 3, The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responses of the Sound Level Meter.

## Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory:

  
Feng Junqi

Date: 13-May-2023

Company Chop:



Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument. The results apply to the item as received.



## CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 23CA0508 02-04 Page 2 of 2

### 1, Electrical Tests

The electrical tests were performed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

Test:	Subtest:	Status:	Expanded Uncertainty (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
	C	Pass	0.8	2.1
	Lin	Pass	1.6	2.2
Linearity range for Leq	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
	A	Pass	0.3	
	C	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 <sup>3</sup> at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/10 <sup>4</sup> at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

### 2, Acoustic tests

The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

Test:	Subtest	Status	Expanded Uncertainty (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
	Weighting A at 8000 Hz	Pass	0.5	

### 3, Response to associated sound calibrator

N/A

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

Calibrated by:

Date:

Fung Chi Yip  
11-May-2023

- End -

Checked by:

Date:

Chan Yuk Yiu  
13-May-2023

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.





Test Data for Sound Level Meter

Page 1 of 5

Sound level meter type:	LxT1	Serial No.	0005062	Date	11-May-2023
Microphone type:	377B02	Serial No.	173734		
Preamp type:	PRMLxT1L	Serial No.	042836	Report:	23CA0508 02-04

### SELF GENERATED NOISE TEST

The noise test is performed in the most sensitive range of the SLM with the microphone replaced by an equivalent impedance.

Noise level in A weighting	8.5	dB
Noise level in C weighting	12.5	dB
Noise level in Lin	19.5	dB

### LINEARITY TEST

The linearity is tested relative to the reference sound pressure level using a continuous sinusoidal signal of frequency 4 kHz. The measurement is made on the reference range for indications at 5 dB intervals starting from the 94 dB reference sound pressure level. And until within 5 dB of the upper and lower limits of the reference range, the measurements shall be made at 1 dB intervals. (SLM set to LEQ/SPL)

Reference/Expected level	Actual level		Tolerance	Deviation	
	non-integrated	integrated		non-integrated	integrated
dB	dB	dB	+/- dB	dB	dB
94.0	94.0	94.0	0.7	0.0	0.0
99.0	99.0	99.0	0.7	0.0	0.0
104.0	104.0	104.0	0.7	0.0	0.0
109.0	109.0	109.0	0.7	0.0	0.0
114.0	114.0	114.0	0.7	0.0	0.0
115.0	115.0	115.0	0.7	0.0	0.0
116.0	116.0	116.0	0.7	0.0	0.0
117.0	117.0	117.0	0.7	0.0	0.0
118.0	118.0	118.0	0.7	0.0	0.0
119.0	118.9	118.9	0.7	-0.1	-0.1
120.0	120.0	120.0	0.7	0.0	0.0
89.0	89.0	89.0	0.7	0.0	0.0
84.0	84.0	84.0	0.7	0.0	0.0
79.0	79.0	79.0	0.7	0.0	0.0
74.0	74.0	74.0	0.7	0.0	0.0
69.0	69.0	69.0	0.7	0.0	0.0
64.0	64.0	64.0	0.7	0.0	0.0
59.0	59.0	59.0	0.7	0.0	0.0
54.0	54.0	54.0	0.7	0.0	0.0
49.0	49.0	49.0	0.7	0.0	0.0
44.0	44.0	44.0	0.7	0.0	0.0
39.0	38.9	38.9	0.7	-0.1	-0.1
34.0	33.9	33.9	0.7	-0.1	-0.1
33.0	32.9	32.9	0.7	-0.1	-0.1



Test Data for Sound Level Meter

Page 2 of 5

Sound level meter type: LxT1 Serial No. 0005062 Date 11-May-2023  
Microphone type: 377B02 Serial No. 173734  
Preamp type: PRMLxT1L Serial No. 042836 Report: 23CA0508 02-04

32.0	31.9	31.9	0.7	-0.1	-0.1
31.0	30.9	30.9	0.7	-0.1	-0.1
30.0	29.8	29.9	0.7	-0.2	-0.1

Measurements for an indication of the reference SPL on all other ranges which include it

Other ranges	Expected level	Actual level	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
20-120	94.0	94.0	0.7	0.0

Measurements on all level ranges for indications 2 dB below the upper limit and 2 dB above the lower limit

Ranges	Reference/Expected level	Actual level	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
20-120	30.0	29.9	0.7	-0.1
	118.0	118.0	0.7	0.0

## FREQUENCY WEIGHTING TEST

The frequency response of the weighting networks are tested at octave intervals over the frequency ranges 31.5 Hz to 12500 Hz. The signal level at 1000 Hz is set to give an indication of the reference SPL.

Frequency weighting A:

Frequency	Ref. level	Expected level	Actual level	Tolerance(dB)		Deviation
				+	-	
Hz	dB	dB	dB			dB
1000.0	94.0	94.0	94.0	0.0	0.0	0.0
31.6	94.0	54.6	54.6	1.5	1.5	0.0
63.1	94.0	67.8	67.8	1.5	1.5	0.0
125.9	94.0	77.9	77.9	1.0	1.0	0.0
251.2	94.0	85.4	85.4	1.0	1.0	0.0
501.2	94.0	90.8	90.7	1.0	1.0	-0.1
1995.0	94.0	95.2	95.2	1.0	1.0	0.0
3981.0	94.0	95.0	95.0	1.0	1.0	0.0
7943.0	94.0	92.9	92.9	1.5	3.0	0.0
12590.0	94.0	89.7	89.7	3.0	6.0	0.0

Frequency weighting C:

Frequency	Ref. level	Expected level	Actual level	Tolerance(dB)		Deviation
				+	-	
Hz	dB	dB	dB			dB
1000.0	94.0	94.0	94.0	0.0	0.0	0.0
31.6	94.0	91.0	91.0	1.5	1.5	0.0
63.1	94.0	93.2	93.1	1.5	1.5	-0.1
125.9	94.0	93.8	93.8	1.0	1.0	0.0
251.2	94.0	94.0	94.0	1.0	1.0	0.0
501.2	94.0	94.0	94.0	1.0	1.0	0.0





Test Data for Sound Level Meter

Page 3 of 5

Sound level meter type: LXT1 Serial No. 0005062 Date 11-May-2023  
Microphone type: 377B02 Serial No. 173734  
Preamp type: PRMLxT1L Serial No. 042836 Report: 23CA0508 02-04

1995.0	94.0	93.8	93.8	1.0	1.0	0.0
3981.0	94.0	93.2	93.2	1.0	1.0	0.0
7943.0	94.0	91.0	91.0	1.5	3.0	0.0
12590.0	94.0	87.8	87.7	3.0	6.0	-0.1

Frequency weighting Lin:

Frequency Hz	Ref. level dB	Expected level dB	Actual level dB	Tolerance(dB)		Deviation dB
				+	-	
1000.0	94.0	94.0	94.0	0.0	0.0	0.0
31.6	94.0	94.0	94.0	1.5	1.5	0.0
63.1	94.0	94.0	93.9	1.5	1.5	-0.1
125.9	94.0	94.0	94.0	1.0	1.0	0.0
251.2	94.0	94.0	94.0	1.0	1.0	0.0
501.2	94.0	94.0	94.0	1.0	1.0	0.0
1995.0	94.0	94.0	94.0	1.0	1.0	0.0
3981.0	94.0	94.0	94.0	1.0	1.0	0.0
7943.0	94.0	94.0	94.0	1.5	3.0	0.0
12590.0	94.0	94.0	94.0	3.0	6.0	0.0

TIME WEIGHTING FAST TEST

Time weighting F is tested on the reference range with a single sinusoidal burst of duration 200 ms at a frequency 2000 Hz and an amplitude which produces an indication 4 dB below the upper limit of the primary indicator range when the signal is continuous. (Weight A, Maximum hold)

Ref. level dB	Expected level dB	Actual level dB	Tolerance(dB)		Deviation dB
			+	-	
116.0	115.0	115.0	1.0	1.0	0.0

TIME WEIGHTING SLOW TEST

Time weighting S is tested on the reference range with a single sinusoidal burst of duration 500 ms at a frequency 2000 Hz and an amplitude which produces an indication 4 dB below the upper limit of the primary indicator range when the signal is continuous. (Weight A, Maximum hold)

Ref. level dB	Expected level dB	Actual level dB	Tolerance(dB)		Deviation dB
			+	-	
116.0	111.9	111.8	1.0	1.0	-0.1

PEAK RESPONSE TEST

The onset time of the peak detector is tested on the reference range by comparing the response to a 100 us rectangular test pulse with the response to a 10 ms reference pulse of the same amplitude. The amplitude of the 10 ms reference pulse is such as to produce an indication 1 dB below the upper limit of the primary indicator range. Positive polarities: (Weighting Z, set the generator signal to single, Lzpeak)

Ref. level dB	Response to 10 ms dB	Response to 100 us dB	Tolerance +/- dB	Deviation dB



Test Data for Sound Level Meter

Page 4 of 5

Sound level meter type: LxT1 Serial No. 0005062 Date 11-May-2023  
Microphone type: 377B02 Serial No. 173734  
Preamp type: PRMLxT1L Serial No. 042836 Report: 23CA0508 02-04

Negative polarities:

Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
119.0	119.0	119.4	2.0	0.4

RMS ACCURACY TEST

The RMS detector accuracy is tested on the reference range for a crest factor of 3.

Test frequency: 2000 Hz  
Amplitude: 2 dB below the upper limit of the primary indicator range.  
Burst repetition frequency: 40 Hz  
Tone burst signal: 11 cycles of a sine wave of frequency 2000 Hz. (Set to INT)

Time weighting	Ref. Level	Expected level	Tone burst signal	Tolerance	Deviation
	dB	dB	indication(dB)	+/- dB	dB
Slow	114.0+6.6	114.0	113.8	0.5	-0.2

TIME WEIGHTING IMPULSE TEST

Time weighting I is tested on the reference range (Set the SLM to LAImax)

Test frequency: 2000 Hz  
Amplitude: The upper limit of the primary indicator range.

Single sinusoidal burst of duration 5 ms:

Ref. Level	Single burst indication		Tolerance	Deviation
	Expected (dB)	Actual (dB)	+/- dB	dB
120.0	111.2	111.1	2.0	-0.1

Repeated at 100 Hz

Ref. Level	Repeated burst indication		Tolerance	Deviation
	Expected (dB)	Actual (dB)	+/- dB	dB
120.0	117.3	117.1	1.0	-0.2

TIME AVERAGING TEST

This test compares the SLM reading for continuous sine signals with readings obtained from a sine tone burst sequence having the same RMS level. The test level is 30 dB below the upper limit of the linearity range and repeated for Type 1 SLM with 40 dB below the upper limit of the linearity.

Frequency of tone burst: 4000 Hz

Duration of tone burst: 1 ms

Repetition Time	Level of tone burst	Expected Leq	Actual Leq	Tolerance	Deviation	Remarks
msec	dB	dB	dB	+/- dB	dB	
1000	90.0	90.0	89.8	1.0	-0.2	60s integ.
10000	80.0	80.0	79.8	1.0	-0.2	6min. integ.

PULSE RANGE AND SOUND EXPOSURE LEVEL TEST

The test tone burst signal is superimposed on a baseline signal corresponding to the lower limit of reference range

Test frequency: 4000 Hz

Integration time: 10 sec





Test Data for Sound Level Meter

Page 5 of 5

Sound level meter type: LxT1 Serial No. 0005062 Date 11-May-2023  
Microphone type: 377B02 Serial No. 173734  
Preamp type: PRMLxT1L Serial No. 042836 Report: 23CA0508 02-04

The integrating sound level meter set to Leq:

Duration	Rms level of	Expected	Actual	Tolerance	Deviation
msec	tone burst (dB)	dB	dB	+/- dB	dB
10	90.0	60.0	60.0	1.7	0.0

The integrating sound level meter set to SEL:

Duration	Rms level of	Expected	Actual	Tolerance	Deviation
msec	tone burst (dB)	dB	dB	+/- dB	dB
10.0	90.0	70.0	70.0	1.7	0.0

OVERLOAD INDICATION TEST

For SLM capable of operating in a non-integrating mode.

Test frequency: 2000 Hz  
Amplitude: 2 dB below the upper limit of the primary indicator range.  
Burst repetition frequency: 40 Hz  
Tone burst signal: 11 cycles of a sine wave of frequency 2000 Hz.

Level	Level reduced by	Further reduced	Difference	Tolerance	Deviation
at overload (dB)	1 dB	3 dB	dB	dB	dB
113.3	112.3	109.3	3.0	1.0	0.0

For integrating SLM, with the instrument indicating Leq.

For integrating SLM, with the instrument indicating Leq and set to the reference range. The test signal as following:  
The test tone burst signal is superimposed on a baseline signal corresponding to the lower limit of reference range  
Test frequency: 4000 Hz  
Integration time: 10 sec  
Single burst duration: 1 msec

Rms level	Level reduced by	Expected level	Actual level	Tolerance	Deviation
at overload (dB)	1 dB	dB	dB	dB	dB
120.0	119.0	79.0	79.0	2.2	0.0

ACOUSTIC TEST

The acoustic test of the complete SLM is tested at the frequency 125 Hz and 8000 Hz using a B&K type 4226 Multifunction Acoustic Calibrator. The test is performed in A weighting.

Frequency	Expected level	Actual level	Tolerance (dB)		Deviation
Hz	dB	Measured (dB)	+	-	dB
1000	94.0	94.0	0.0	0.0	0.0
125	77.9	77.9	1.0	1.0	0.0
8000	92.9	90.8	1.5	3.0	-2.1

-----END-----



## CERTIFICATE OF CALIBRATION

Certificate No.: 23CA0317 02-04

Page: 1 of 2

### Item tested

Description: Acoustical Calibrator (Class 1)  
Manufacturer: Larson Davis  
Type/Model No.: CAL200  
Serial/Equipment No.: 13098  
Adaptors used: -

### Item submitted by

Customer: Lam Environmental Services Limited.  
Address of Customer: -  
Request No.: -  
Date of receipt: 17-Mar-2023

Date of test: 20-Mar-2023

### Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2412857	23-May-2023	SCL
Preamplifier	B&K 2673	2743150	28-Jun-2023	CEPREI
Measuring amplifier	B&K 2610	2346941	30-Jun-2023	CEPREI
Signal generator	DS 360	61227	08-Jun-2023	CEPREI
Digital multi-meter	34401A	US36087050	30-May-2023	CEPREI
Audio analyzer	8903B	GB41300350	06-Jul-2023	CEPREI
Universal counter	53132A	MY40003662	13-Jun-2023	CEPREI

### Ambient conditions

Temperature:  $22 \pm 1$  °C  
Relative humidity:  $55 \pm 10$  %  
Air pressure:  $1010 \pm 5$  hPa

### Test specifications

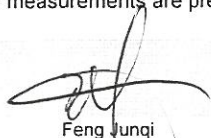
- The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.
- The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

### Test results

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942: 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

Details of the performed measurements are presented on page 2 of this certificate.

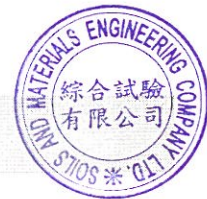
Approved Signatory:



Feng Junqi

Date: 21-Mar-2023

Company Chop:



Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument. The results apply to the item as received.





## CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 23CA0317 02-04

Page: 2 of 2

### 1, Measured Sound Pressure Level

The output Sound Pressure Level in the calibrator head was measured at the setting and frequency shown using a calibrated laboratory standard microphone and insert voltage technique. The results are given in below with the estimated uncertainties.

(Output level in dB re 20  $\mu$ Pa)

Frequency Shown Hz	Output Sound Pressure Level Setting dB	Measured Output Sound Pressure Level dB	Estimated Expanded Uncertainty dB
1000	94.00	93.82	0.10

### 2, Sound Pressure Level Stability - Short Term Fluctuations

The Short Term Fluctuations was determined by measuring the maximum and minimum of the fast weighted DC output of the B&K 2610 measuring amplifier over a 20 second time interval as required in the standard. The Short Term Fluctuation was found to be:

At 1000 Hz STF = 0.011 dB

Estimated expanded uncertainty 0.005 dB

### 3, Actual Output Frequency

The determination of actual output frequency was made using a B&K 4180 microphone together with a B&K 2673 preamplifier connected to a B&K 2610 measuring amplifier. The AC output of the B&K 2610 was taken to an universal counter which was used to determine the frequency averaged over 20 second of operation as required by the standard. The actual output frequency at 1 KHz was:

At 1000 Hz Actual Frequency = 999.9 Hz

Estimated expanded uncertainty 0.1 Hz Coverage factor k = 2.2

### 4, Total Noise and Distortion

For the Total Noise and Distortion measurement, the unfiltered AC output of the B&K 2610 measuring amplifier was connected to an Agilent Type 8903 B distortion analyser. The TND result at 1 KHz was:

At 1000 Hz TND = 0.7 %

Estimated expanded uncertainty 0.7 %

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

Calibrated by:

Fung Chi Yip  
Date: 20-Mar-2023

- End -

Checked by:

Chan Yuk Yiu  
Date: 21-Mar-2023

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.



## REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

**CONTACT:** DEREK LO  
**CLIENT:** LAM ENVIRONMENTAL SERVICES LTD  
**ADDRESS:** 19/F, REMEX CENTRE,  
42 WONG CHUK HANG ROAD,  
HONG KONG

**WORK ORDER:** HK2344817  
**SUB-BATCH:** 0  
**LABORATORY:** HONG KONG  
**DATE RECEIVED:** 08-Nov-2023  
**DATE OF ISSUE:** 17-Nov-2023

### GENERAL COMMENTS

The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principle as practised by the laboratory or quoted from relevant international standards.

The validity of equipment/ meter performance only applies to the result(s) stated in the report.

This report superseded any previous report(s) with same work order number.

### EQUIPMENT INFORMATION

Equipment information (Brand name, Model No., Serial No. and Equipment No.) is provided by client.

Equipment Type: Multifunctional Meter

Service Nature: Performance Check

Scope: Dissolved Oxygen, pH Value, Salinity and Temperature

Brand Name/ Model No.: [YSI]/ [Professional Plus]

Serial No./ Equipment No.: [16J104708/17F100236]/ [N/A]

Date of Calibration: 16-November-2023

Ms. Lin Wai Yu, Iris  
Assistant Manager - Inorganics

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# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



**WORK ORDER:** HK2344817  
**SUB-BATCH:** 0  
**DATE OF ISSUE:** 17-Nov-2023  
**CLIENT:** LAM ENVIRONMENTAL SERVICES LTD

Equipment Type: Multifunctional Meter  
Brand Name/ Model No.: [YSI]/ [Professional Plus]  
Serial No./ Equipment No.: [16J104708/17F100236]/ [N/A]  
Date of Calibration: 16-November-2023 Date of Next Calibration: 16-February-2024

## PARAMETERS:

### Dissolved Oxygen

Method Ref: APHA (23rd edition), 4500O: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.29	2.22	-0.07
4.19	4.21	+0.02
6.37	6.43	+0.06
	Tolerance Limit (mg/L)	±0.20

### pH Value

Method Ref: APHA (23rd edition), 4500H: B

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)
4.0	3.90	-0.10
7.0	7.07	+0.07
10.0	9.98	-0.02
	Tolerance Limit (pH unit)	±0.20

### Salinity

Method Ref: APHA (23rd edition), 2520B

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.00	--
10	9.90	-1.0
20	19.02	-4.9
30	27.99	-6.7
	Tolerance Limit (%)	±10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ms. Lin Wai Yu, Iris  
Assistant Manager - Inorganics

# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



**WORK ORDER:** HK2344817  
**SUB-BATCH:** 0  
**DATE OF ISSUE:** 17-Nov-2023  
**CLIENT:** LAM ENVIRONMENTAL SERVICES LTD

Equipment Type: Multifunctional Meter  
Brand Name/ Model No.: [YSI]/ [Professional Plus]  
Serial No./ Equipment No.: [16J104708/17F100236]/ [N/A]  
Date of Calibration: 16-November-2023 Date of Next Calibration: 16-February-2024

## PARAMETERS:

### Temperature

**Method Ref: Section 6 of International Accreditation New Zealand Technical Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.**

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
4.5	5.0	+0.5
22.0	21.9	-0.1
45.0	45.3	+0.3
	Tolerance Limit (°C)	±2.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ms. Lin Wai Yu, Iris  
Assistant Manager - Inorganics



# Calibration Report

**Calibration No.** : 52508051- L22D2803

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**Laboratory** : FT LaboratoriesLtd.

**Address** : Lot No. DD77 Section 1552 S.Ass IRP, Ng Chow South Road, Ping Che, Fanling, New Territories

**Telephone** : (852) 2758 4861

**Facsimile** : (852) 2758 8962

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**Customer** : **Lam Environmental Services Limited**

**Address** : **19/F., Remex Centre, 42 Wong Chuk Hang Road, Hong Kong**

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**Item Calibrated** : Name/Description: Turbidimeter  
Manufacturer: Shanghai Xinrui Instruments & Meters co.,Ltd  
Model no: WGZ-3B  
Equipment no.: 2209074

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**Reference Standard / Major Measurement** : C23/01 under NCRM reference material number GBW(E) 120125.  
Standard Solution of Formazine Turbidity

## Equipment

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**Calibration Method** : In-house calibration method according to Ref: APHA22nd ed 213 OB

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**Date of item received** : 22 Nov.,2023

**Date of Calibration** : 04 Dec.,2023

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**Location of Calibration** : Chemical Laboratory of FT LaboratoriesLtd.

## Calibration Conditions

Temperature :  $20 \pm 3$  °C

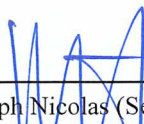
Relative Humidity : 30% to 80%

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**Test Results** : The test results are detailed in the subsequent page(s).

---

**Certified by :**

  
 CHAN Joseph Nicolas (Senior Technical Engineer)

Date of Issue: **- 6 DEC 2023**

- 
- Notes:
- (1) The above equipment has been calibrated against standards which are traceable to internationally recognized standards.
  - (2) This certificate shall not be reproduced, except in full, without the written approval of FT LaboratoriesLtd.



# Calibration Report

Calibration No. : 52508051- L22D2803

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## Results

Turbidity of standard solution used (NTU)	Measured value (NTU)	Error (%)
0	0	---
4	4.02	0.50%
10	10.00	0.00%
40	40.02	0.05%
100	100.02	0.02%
400	400.2	0.05%
1000	1000.6	0.06%

## Remarks:

- (A) Each reported result is the mean of three measurements on UUT (unit-under-test).
- (B) The values given in this Calibration Report only relate to the unit-under-test and the values measured at the time of the test. Any uncertainties quoted will not include allowances for the environmental changes, variation and shock during transportation, or the capability of any other laboratory to repeat the measurement.
- (C) Before calibration, UUT and reference equipment was placed in the laboratory for at least one hour.

< End of Report >

Calibrated by: CH Cheung  
Date: 04 Dec.,2023

Checked by: Joseph Chan  
Date: - 6 DEC 2023



***Appendix 4.2***

***Impact Monitoring Schedule for Reporting Month and Next Month***



**CONTRACT NO: SD 15/2022**  
**OUTLYING ISLAND SEWERAGE STAGE 2 – SOUTH LANTAU SEWAGE WORKS –**  
**ENVIRONMENTAL TEAM SERVICES (2023 – 2024)**  
**Impact Environmental Monitoring Schedule**  
**Jan 2024**

Note:

\*Mid-tide time during daylight period of the ebb/flood tide is scheduled in consideration of navigation safety and to capture major marine works operation.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
31 Dec	01 Jan	02 Jan	03 Jan	04 Jan	05 Jan	06 Jan
				Noise Monitoring		
		Mid-Ebb 16:39* Mid-Flood 11:26		Mid-Ebb 18:49* Mid-Flood 12:37		Mid-Ebb 7:26 Mid-Flood 13:42
07 Jan	08 Jan	09 Jan	10 Jan	11 Jan	12 Jan	13 Jan
	WQM for Mid-Ebb was cancelled due to adverse weather			Noise Monitoring		
	Mid-Ebb 9:59 Mid-Flood 14:53		Mid-Ebb 11:37 Mid-Flood 16:16		Mid-Ebb 13:16 Mid-Flood 8:07	
14 Jan	15 Jan	16 Jan	17 Jan	18 Jan	19 Jan	20 Jan
			Noise Monitoring			
	Mid-Ebb 15:41* Mid-Flood 10:07		Mid-Ebb 17:29 Mid-Flood 11:29		Mid-Ebb 6:55* Mid-Flood 12:52	
21 Jan	22 Jan	23 Jan	24 Jan	25 Jan	26 Jan	27 Jan
	WQM for Mid-Flood and Mid -Ebb was cancelled due to adverse weather		WQM for Mid-Flood and Mid -Ebb was cancelled due to adverse weather		Noise Monitoring	
	Mid-Ebb 11:00* Mid-Flood 15:00*		Mid-Ebb 12:00* Mid-Flood 16:30*		Mid-Ebb 13:08 Mid-Flood 7:30	
28 Jan	29 Jan	30 Jan	31 Jan	01 Feb	02 Feb	03 Feb
	Mid-Ebb 14:33* Mid-Flood 9:08		Mid-Ebb 15:40 Mid-Flood 9:55		Mid-Ebb 17:26 Mid-Flood 10:59	



**CONTRACT NO: SD 15/2022**  
**OUTLYING ISLAND SEWERAGE STAGE 2 – SOUTH LANTAU SEWAGE WORKS –**  
**ENVIRONMENTAL TEAM SERVICES (2023 – 2024)**  
**Tentative Impact Marine Water Quality Monitoring Schedule (Rev. 2)**  
**Feb 2024**

Note:

\*Mid-tide time during daylight period of the ebb/flood tide is scheduled in consideration of navigation safety and to capture major marine works operation.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28 Jan	29 Jan	30 Jan	31 Jan	01 Feb	02 Feb	03 Feb
	Mid-Ebb 14:33* Mid-Flood 9:08		Mid-Ebb 15:40 Mid-Flood 9:55		Mid-Ebb 17:26 Mid-Flood 10:59	
04 Feb	05 Feb	06 Feb	07 Feb	08 Feb	09 Feb	10 Feb
	Mid-Ebb 18:45* Mid-Flood 13:30		Mid-Ebb 11:00* Mid-Flood 14:30		Mid-Ebb 12:25 Mid-Flood 7:09	
11 Feb	12 Feb	13 Feb	14 Feb	15 Feb	16 Feb	17 Feb
	WQM will be cancelled due to no marine works will be carried out during CNY Holiday  Mid-Ebb 14:28 Mid-Flood 8:44		Mid-Ebb 15:52 Mid-Flood 9:47		Mid-Ebb 17:55 Mid-Flood 10:56	
18 Feb	19 Feb	20 Feb	21 Feb	22 Feb	23 Feb	24 Feb
	Mid-Ebb 18:45* Mid-Flood 9:32			Mid-Ebb 11:55 Mid-Flood 16:00		Mid-Ebb 12:49 Mid-Flood 7:23
25 Feb	26 Feb	27 Feb	28 Feb	29 Feb	01 Mar	02 Mar
	Mid-Ebb 13:31 Mid-Flood 7:52		Mid-Ebb 14:29 Mid-Flood 8:32		Mid-Ebb 15:38 Mid-Flood 9:16	



***Appendix 4.3***

***Noise Monitoring Results and Graphical Presentations***







**Noise Monitoring Result**

**Day Time (0700 - 1900hrs on normal weekdays)**

Location: N12a - Light Pole in front of 47 Lo Uk Tsuen

Date	Weather	Wind Speed	Calibration Check	Time	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Major Construction Noise Source(s)*	Other Noise Source(s)
					Leq	L10	L90						
					Unit: dB(A), (5-min)								
4 Jan 2024	Sunny	0.0	94.1	14:15	64.8	68.6	53.6	66.6	73.3	<Baseline Level	75	N/A	Traffic
				14:20	64.9	68.7	53.5						
				14:25	66.4	70.2	53.1						
				14:30	65.2	69.0	54.2						
				14:35	68.4	72.2	57.4						
				14:40	68.3	72.1	55.7						
11 Jan 2024	Sunny	0.0	94.1	14:15	63.9	67.3	55.0	64.6	73.3	<Baseline Level	75	N/A	Traffic
				14:20	63.7	67.1	54.7						
				14:25	64.6	68.0	54.6						
				14:30	63.9	67.3	55.2						
				14:35	65.5	68.9	56.7						
				14:40	65.4	68.8	55.8						
17 Jan 2024	Sunny	0.0	94.1	14:15	64.6	68.2	55.5	64.8	73.3	<Baseline Level	75	N/A	Traffic
				14:20	63.8	67.4	54.9						
				14:25	64.9	68.5	54.9						
				14:30	64.2	67.8	55.6						
				14:35	65.6	69.2	56.8						
				14:40	65.4	69.0	56.0						
26 Jan 2024	Sunny	0.0	94.1	15:56	65.6	69.3	54.9	66.0	73.3	<Baseline Level	75	N/A	Traffic
				16:01	66.7	70.4	56.2						
				16:06	67.2	70.9	55.4						
				16:11	64.8	68.5	55.3						
				16:16	65.4	69.1	55.8						
				16:21	65.7	69.4	55.3						

\* N/A refers to no major construction noise observed during noise monitoring



**Noise Monitoring Result**

**Day Time (0700 - 1900hrs on normal weekdays)**

Location: N12b - 11B Lo Uk Tsuen

Date	Weather	Wind Speed	Calibration Check	Time	Measurement Noise Level			Average Noise Level Leq	Baseline Level Leq	Construction Noise Level Leq	Action Level Leq	Major Construction Noise Source(s)*	Other Noise Source(s)
					Leq	L10	L90						
					Unit: dB(A), (5-min)								
4 Jan 2024	Sunny	0.0	94.1	13:40	68.3	69.9	51.7	66.5	76.8	<Baseline Level	75	N/A	Traffic
				13:45	63.5	65.1	54.9						
				13:50	66.6	68.2	57.6						
				13:55	65.6	67.2	53.4						
				14:00	68.1	69.7	53.2						
11 Jan 2024	Sunny	0.0	94.1	13:40	63.8	66.9	48.8	63.4	76.8	<Baseline Level	75	N/A	Traffic
				13:45	61.6	65.3	51.6						
				13:50	64.8	67.5	57.8						
				13:55	61.0	64.7	50.3						
				14:00	65.7	68.8	50.5						
17 Jan 2024	Sunny	0.0	94.1	13:40	65.5	67.1	54.4	64.0	76.8	<Baseline Level	75	N/A	Traffic
				13:45	64.5	66.1	53.3						
				13:50	61.8	63.4	53.3						
				13:55	63.9	65.5	51.1						
				14:00	63.0	64.6	52.5						
26 Jan 2024	Sunny	0.0	94.1	14:05	64.1	65.7	58.1	63.1	76.8	<Baseline Level	75	N/A	Traffic
				15:10	63.9	65.4	55.9						
				15:15	64.3	65.8	53.7						
				15:20	61.4	62.9	53.6						
				15:25	63.6	65.1	53.7						
				15:30	60.5	62.0	53.7						
				15:35	63.5	65.0	58.7						

\* N/A refers to no major construction noise observed during noise monitoring



**Noise Monitoring Result**

**Day Time (0700 - 1900hrs on normal weekdays)**

Location: N13 - 74 Pui O San Wai Tsuen

Date	Weather	Wind Speed	Calibration Check	Time	Measurement Noise Level			Average Noise Level Leq	Baseline Level Leq	Construction Noise Level Leq	Action Level Leq	Major Construction Noise Source(s)*	Other Noise Source(s)
					Leq	L10	L90						
					Unit: dB(A), (5-min)								
4 Jan 2024	Sunny	0.0	94.1	11:30	69.2	70.8	60.0	66.3	73.6	<Baseline Level	75	N/A	Traffic
				11:35	65.6	67.2	59.2						
				11:40	64.7	66.3	59.4						
				11:45	64.1	65.7	59.7						
				11:50	65.6	67.2	58.7						
				11:55	66.8	68.4	58.8						
11 Jan 2024	Sunny	0.0	94.1	11:30	64.8	68.1	54.6	61.9	73.6	<Baseline Level	75	N/A	Traffic
				11:35	60.0	63.6	53.1						
				11:40	58.7	60.4	53.6						
				11:45	61.4	64.7	53.0						
				11:50	61.9	65.3	53.2						
				11:55	61.8	65.0	52.7						
17 Jan 2024	Sunny	0.0	94.1	11:30	65.4	67.0	59.0	63.7	73.6	<Baseline Level	75	N/A	Traffic
				11:35	64.0	65.6	57.9						
				11:40	63.0	64.6	57.3						
				11:45	64.9	66.5	55.9						
				11:50	61.6	63.2	53.3						
				11:55	61.6	63.2	53.7						
26 Jan 2024	Sunny	0.0	94.1	9:38	62.3	63.8	58.7	62.4	73.6	<Baseline Level	75	N/A	Traffic
				9:43	63.6	65.1	57.6						
				9:48	62.4	63.9	56.3						
				9:53	64.6	66.1	57.6						
				9:58	59.6	61.1	53.8						
				10:03	59.5	61.0	54.2						

\* N/A refers to no major construction noise observed during noise monitoring



**Noise Monitoring Result**

**Day Time (0700 - 1900hrs on normal weekdays)**

Location: N14 - South Lantau Community Centre

Date	Weather	Wind Speed	Calibration Check	Time	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Major Construction Noise	Other Noise Source(s)
					Leq	L10	L90	Leq	Leq	Leq	Leq		
					Unit: dB(A), (5-min)			Unit: dB(A), (30-min)					
4 Jan 2024	Sunny	0.0	94.1	10:55	57.3	58.9	45.1	58.3	62.2	<Baseline Level	75	N/A	Traffic
				11:00	55.1	56.7	45.9						
				11:05	59.8	61.4	47.5						
				11:10	61.4	63.0	47.1						
				11:15	56.1	57.7	47.2						
				11:20	56.2	57.8	47.5						
11 Jan 2024	Sunny	0.0	94.1	10:55	55.1	58.6	45.5	54.6	62.2	<Baseline Level	75	N/A	Traffic
				11:00	49.2	51.4	45.7						
				11:05	57.9	56.8	46.1						
				11:10	56.5	59.6	45.8						
				11:15	48.8	51.3	46.2						
				11:20	52.3	55.5	46.1						
17 Jan 2024	Sunny	0.0	94.1	10:55	57.3	58.9	47.7	56.8	62.2	<Baseline Level	75	N/A	Traffic
				11:00	56.1	57.7	47.3						
				11:05	56.7	58.3	47.3						
				11:10	59.0	59.6	45.6						
				11:15	55.9	57.5	46.6						
				11:20	56.5	58.1	47.0						
26 Jan 2024	Sunny	0.0	94.1	10:20	57.8	59.3	48.6	55.3	62.2	<Baseline Level	75	N/A	Traffic
				10:25	54.4	55.9	47.7						
				10:30	54.6	56.1	47.6						
				10:35	54.1	55.6	46.0						
				10:40	53.1	54.6	47.8						
				10:45	56.0	57.5	48.2						

\* N/A refers to no major construction noise observed during noise monitoring





**Noise Monitoring Result**

**Day Time (0700 - 1900hrs on normal weekdays)**

Location: N15b - Pole in front of 7A Pui O Lo Wai Tsuen

Date	Weather	Wind Speed	Calibration Check	Time	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Limit Level	Major Construction Noise Source(s)*	Other Noise Source(s)
					Leq	L10	L90						
					Unit: dB(A), (5-min)								
4 Jan 2024	Sunny	0.0	94.1	15:00	64.5	68.3	61.1	64.8	70.7	<Baseline Level	75	N/A	Traffic
				15:05	63.1	66.9	58.2						
				15:10	67.4	71.2	61.4						
				15:15	66.2	70.0	62.6						
				15:20	62.4	66.2	58.9						
15:25	62.3	66.1	58.5										
11 Jan 2024	Sunny	0.0	94.1	15:00	64.0	67.4	59.1	63.9	70.7	<Baseline Level	75	N/A	Traffic, Beverage Factory
				15:05	62.9	66.3	56.7						
				15:10	65.4	68.8	58.7						
				15:15	64.5	67.9	59.4						
				15:20	63.0	66.4	57.8						
15:25	62.8	66.2	57.6										
17 Jan 2024	Sunny	0.0	94.1	15:00	65.2	68.8	60.4	64.8	70.7	<Baseline Level	75	N/A	Traffic
				15:05	63.4	67.0	56.2						
				15:10	66.4	70.0	59.0						
				15:15	65.0	68.6	59.9						
				15:20	64.2	67.8	58.8						
15:25	63.6	67.2	58.4										
26 Jan 2024	Sunny	0.0	94.1	8:55	66.9	70.6	62.2	65.6	70.7	<Baseline Level	75	N/A	Traffic
				9:00	64.1	67.8	58.4						
				9:05	66.6	69.3	59.6						
				9:10	65.7	69.4	60.3						
				9:15	64.8	68.5	58.7						
9:20	65.7	69.4	59.4										

\* N/A refers to no major construction noise observed during noise monitoring



**Noise Monitoring Result**

**Day Time (0700 - 1900hrs on normal weekdays)**

Location: N16a - Light pole in front of House E, Southern Comfort, Ham Tin

Date	Weather	Wind Speed	Calibration Check	Time	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Major Construction Noise Source(s)*	Other Noise Source(s)
					Leq	L10	L90						
					Unit: dB(A), (5-min)								
4 Jan 2024	Sunny	0.0	94.1	9:45	61.3	62.9	45.8	61.4	68.1	<Baseline Level	75	Crane	Traffic
				9:50	63.6	65.2	46.8						
				9:55	60.0	61.6	47.6						
				10:00	60.9	62.5	47.8						
				10:05	61.3	62.9	46.7						
				10:10	60.6	62.2	45.8						
11 Jan 2024	Sunny	0.0	94.1	9:45	61.8	62.3	46.3	60.2	68.1	<Baseline Level	75	N/A	Traffic
				9:50	62.6	53.8	45.2						
				9:55	55.1	57.3	45.7						
				10:00	56.8	58.9	46.2						
				10:05	58.9	61.0	45.5						
				10:10	61.2	63.2	45.6						
17 Jan 2024	Sunny	0.0	94.1	9:45	57.6	59.2	48.1	57.2	68.1	<Baseline Level	75	N/A	Traffic
				9:50	56.4	58.0	46.2						
				9:55	58.2	59.8	45.8						
				10:00	58.2	59.8	47.1						
				10:05	56.2	57.8	45.8						
				10:10	55.7	57.3	46.6						
26 Jan 2024	Sunny	0.0	94.1	11:29	59.6	61.1	48.8	57.6	68.1	<Baseline Level	75	N/A	Traffic
				11:34	56.1	57.6	46.2						
				11:39	56.5	58.0	46.2						
				11:44	58.6	60.1	48.3						
				11:49	57.7	59.2	46.9						
				11:54	55.4	56.9	48.0						

\* N/A refers to no major construction noise observed during noise monitoring



**Noise Monitoring Result**

**Day Time (0700 - 1900hrs on normal weekdays)**

Location: N16b - Fence in front of 7E Ham Tin San Tsuen, Ham Tin

Date	Weather	Wind Speed	Calibration Check	Time	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Major Construction Noise	Other Noise Source(s)
					Leq	L10	L90						
					Unit: dB(A), (5-min)								
4 Jan 2024	Sunny	0.0	94.1	10:20	53.7	55.3	42.0	54.8	68.5	<Baseline Level	75	N/A	Traffic
				10:25	53.5	55.1	42.9						
				10:30	51.1	52.7	42.5						
				10:35	53.9	55.5	43.4						
				10:40	54.9	56.5	44.6						
				10:45	58.2	59.8	45.2						
11 Jan 2024	Sunny	0.0	94.1	10:20	53.5	53.3	40.8	52.9	68.5	<Baseline Level	75	N/A	Traffic
				10:25	52.3	53.8	41.6						
				10:30	47.2	50.1	40.2						
				10:35	48.9	50.4	40.1						
				10:40	52.1	53.6	42.3						
				10:45	56.8	58.3	42.6						
17 Jan 2024	Sunny	0.0	94.1	10:20	51.7	53.3	43.5	52.9	68.5	<Baseline Level	75	N/A	Traffic
				10:25	51.8	53.4	44.9						
				10:30	53.4	55.0	45.2						
				10:35	54.4	56.0	42.5						
				10:40	53.1	54.7	42.6						
				10:45	52.1	53.7	41.4						
26 Jan 2024	Sunny	0.0	94.1	10:52	50.3	51.8	43.9	52.3	68.5	<Baseline Level	75	N/A	Traffic
				10:57	52.1	53.6	45.6						
				11:02	54.7	56.2	45.7						
				11:07	53.7	55.2	44.5						
				11:12	50.9	52.4	44.1						
				11:17	49.6	51.1	43.0						

\* N/A refers to no major construction noise observed during noise monitoring



**Noise Monitoring Result**

**Day Time (0700 - 1900hrs on normal weekdays)**

Location: N17 - Bui O Public School

Date	Weather	Wind Speed	Calibration Check	Time	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Limit Level	Major Construction Noise Source(s)*	Other Noise Source(s)
					Leq	L10	L90						
					Unit: dB(A), (5-min)								
4 Jan 2024	Sunny	0.0	94.1	13:00	55.2	57.8	49.4	53.6	62.3	<Baseline Level	70	N/A	Traffic
				13:05	54.1	56.7	48.2						
				13:10	52.5	55.1	47.0						
				13:15	52.4	55.1	47.6						
				13:20	53.5	56.1	48.5						
11 Jan 2024	Sunny	0.0	94.1	13:00	52.7	54.5	49.5	52.5	62.3	<Baseline Level	70	N/A	Traffic
				13:05	53.5	56.0	48.6						
				13:10	51.4	55.1	46.7						
				13:15	51.0	53.2	47.8						
				13:20	52.2	54.5	49.2						
17 Jan 2024	Sunny	0.0	94.1	13:00	58.3	60.7	48.2	57.0	62.3	<Baseline Level	70	N/A	Traffic
				13:05	57.3	59.7	47.9						
				13:10	56.5	58.9	47.5						
				13:15	56.4	58.8	48.1						
				13:20	57.4	59.8	47.8						
26 Jan 2024	Sunny	0.0	94.1	13:25	55.3	57.7	47.2	54.5	62.3	<Baseline Level	70	N/A	Traffic
				14:25	57.3	59.9	48.2						
				14:30	54.2	57.1	46.7						
				14:35	53.1	56.2	46.2						
				14:40	53.4	56.6	46.2						
				14:45	54.5	57.5	46.6						
				14:50	52.6	55.1	47.7						

\* N/A refers to no major construction noise observed during noise monitoring



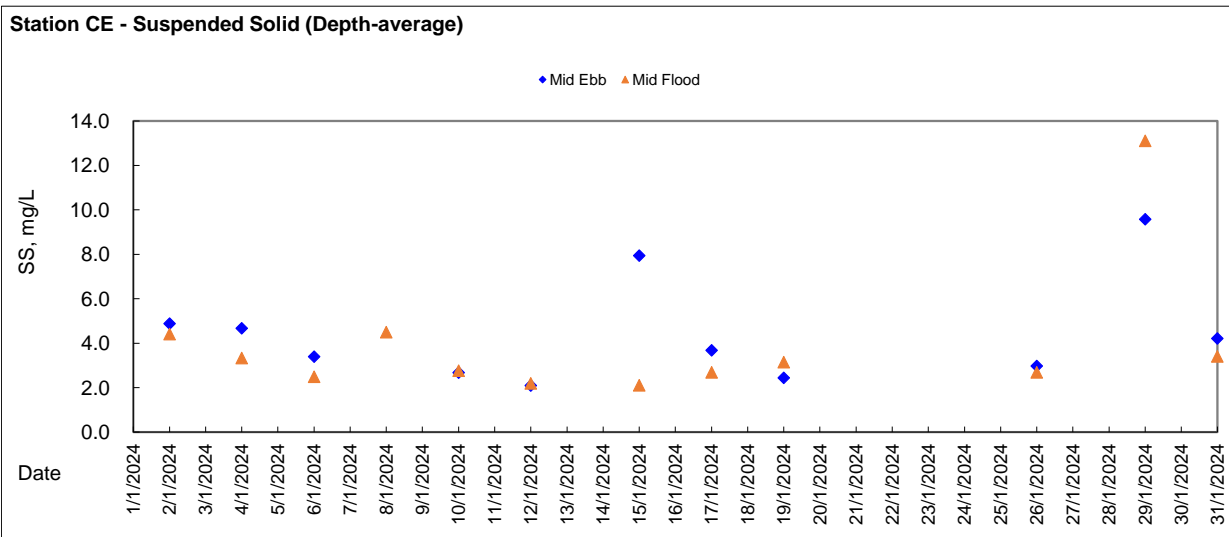
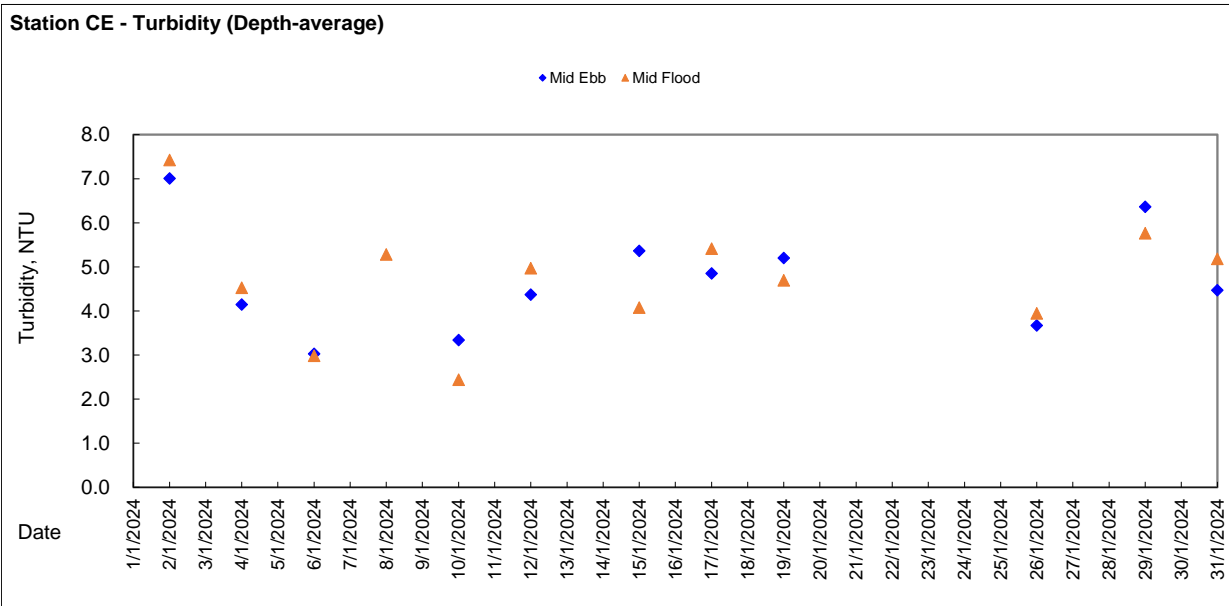
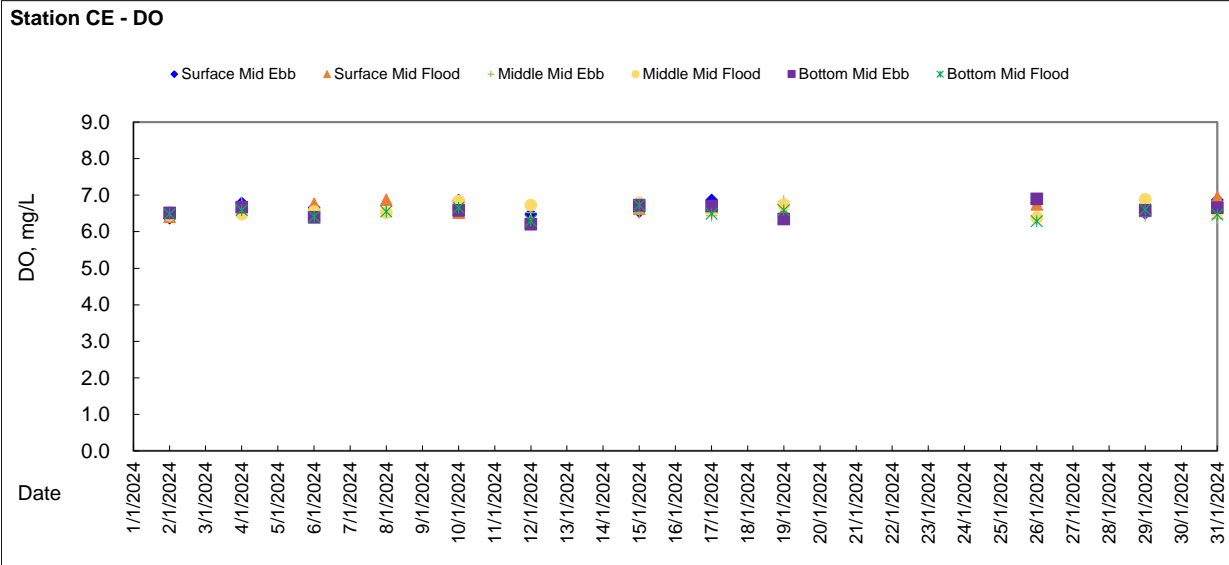
***Appendix 4.4***

***Marine Water Quality Monitoring Results and Graphical Presentations***



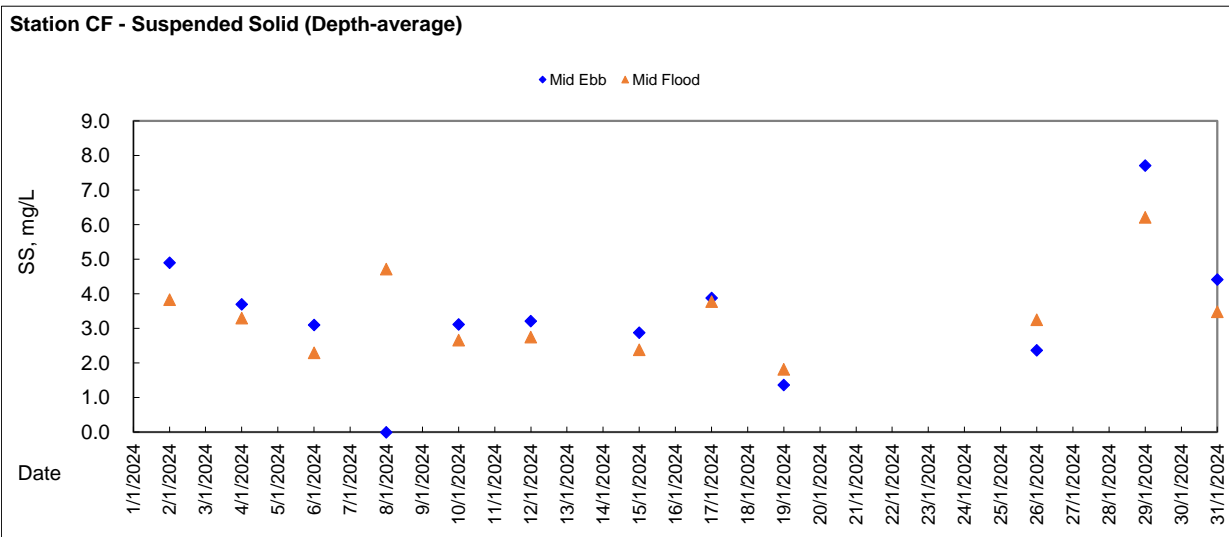
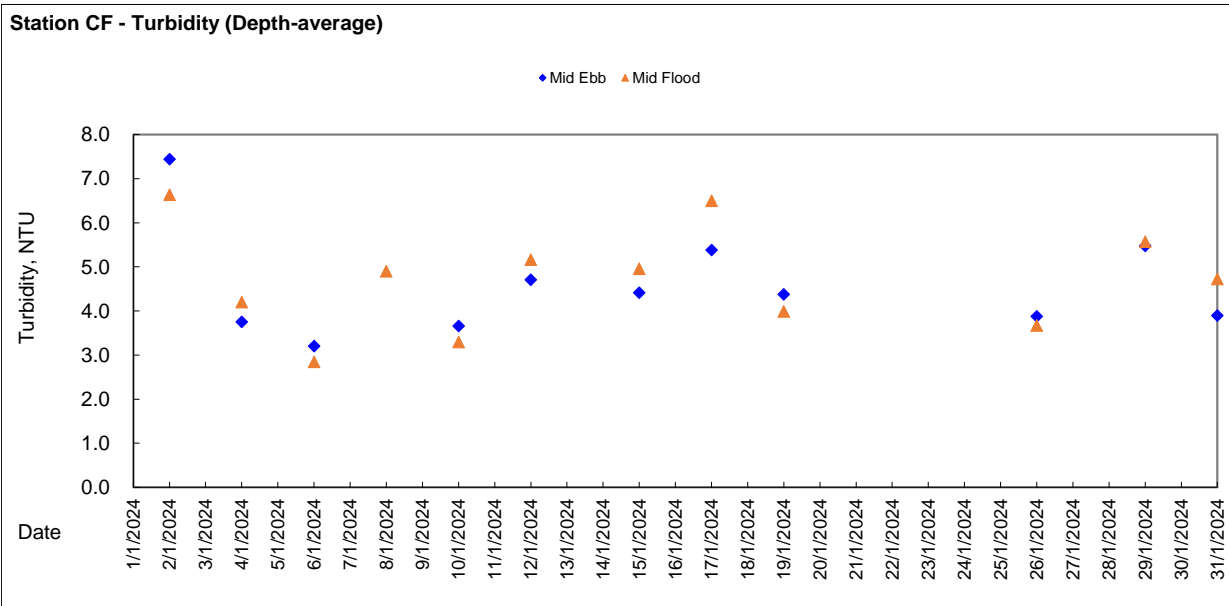
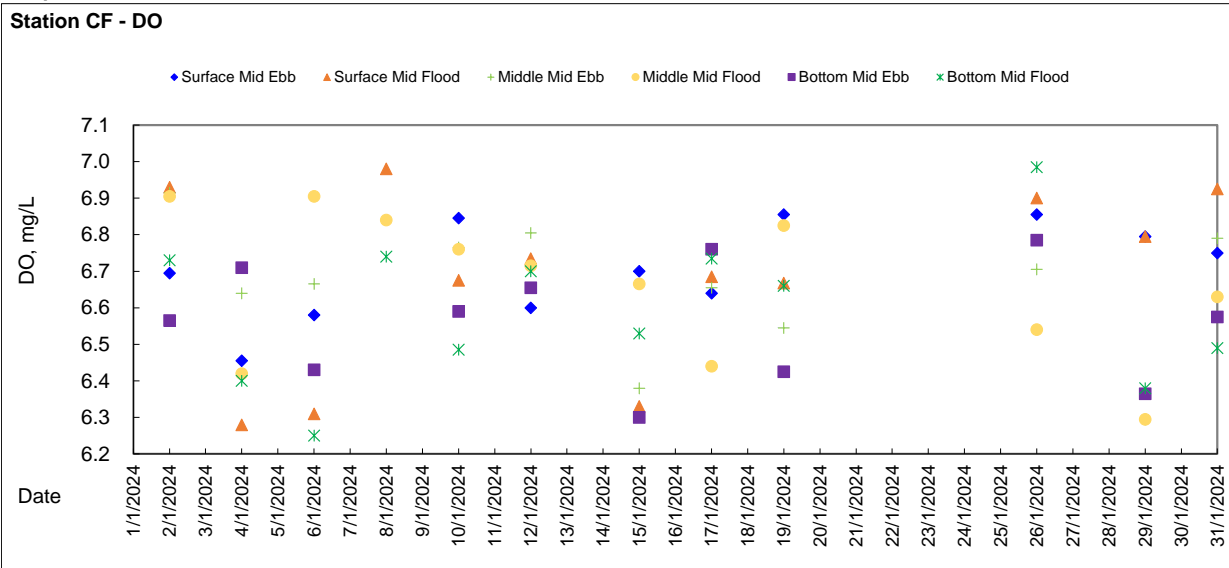


Graphic Presentation of WQM Result



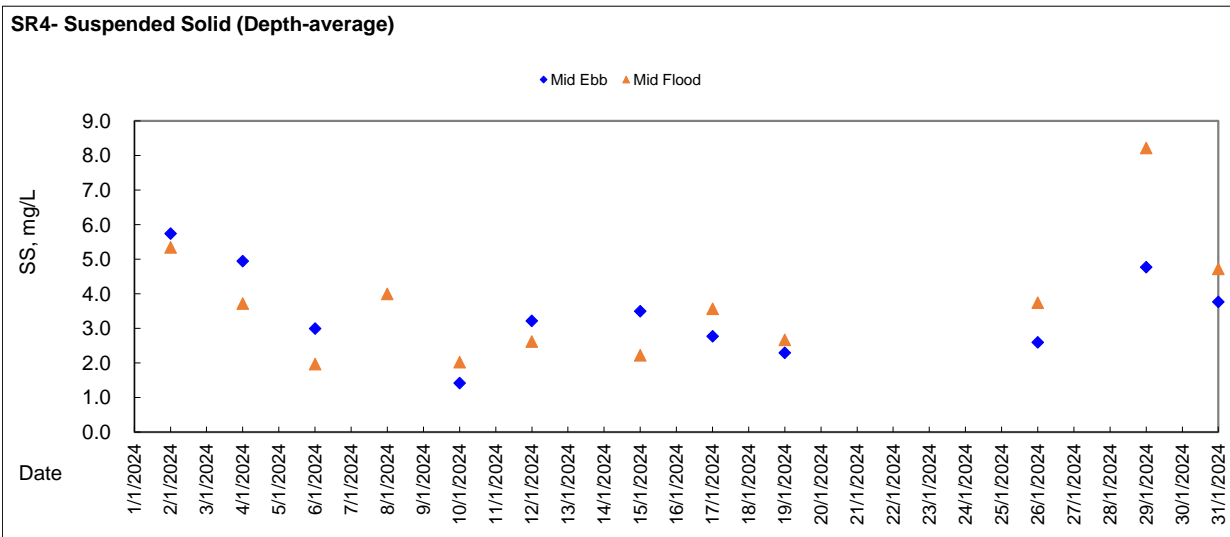
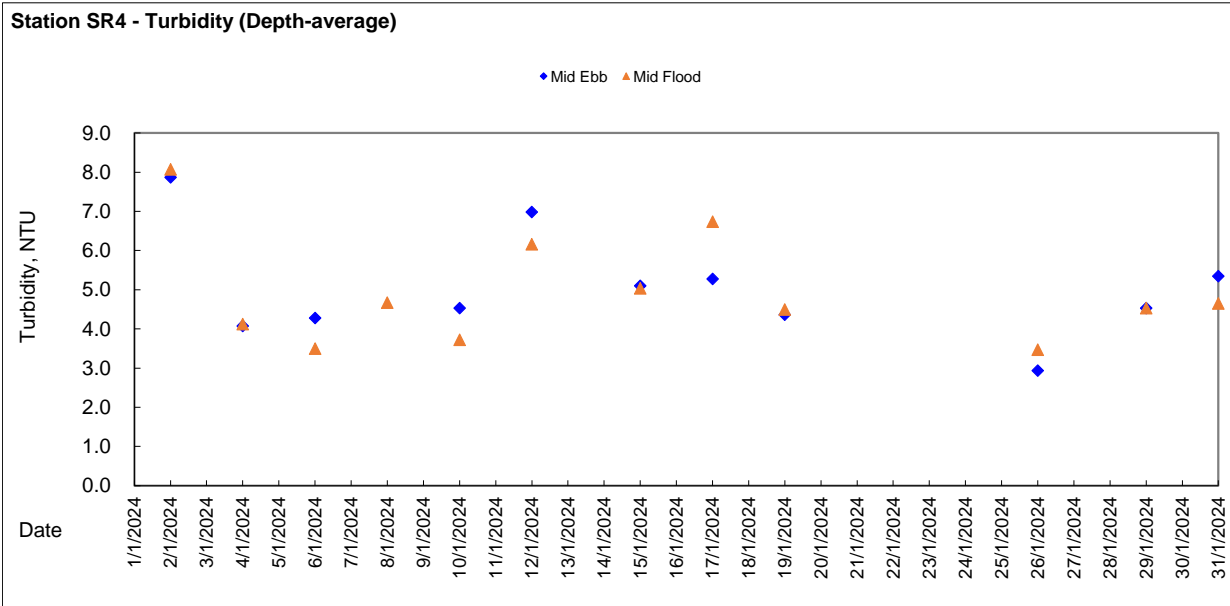
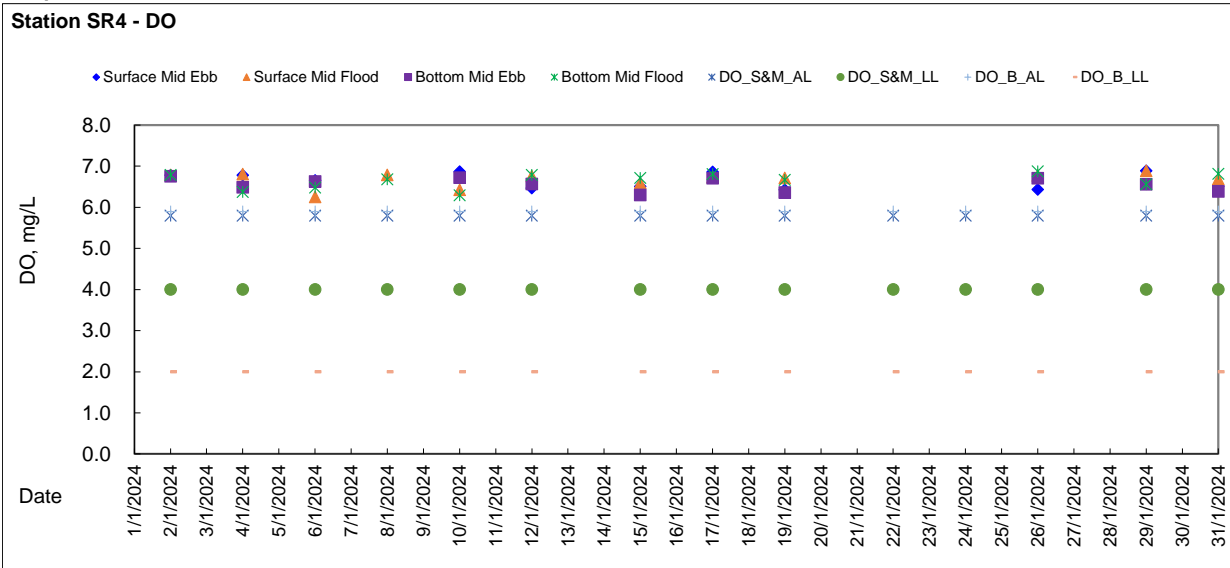


Graphic Presentation of WQM Result



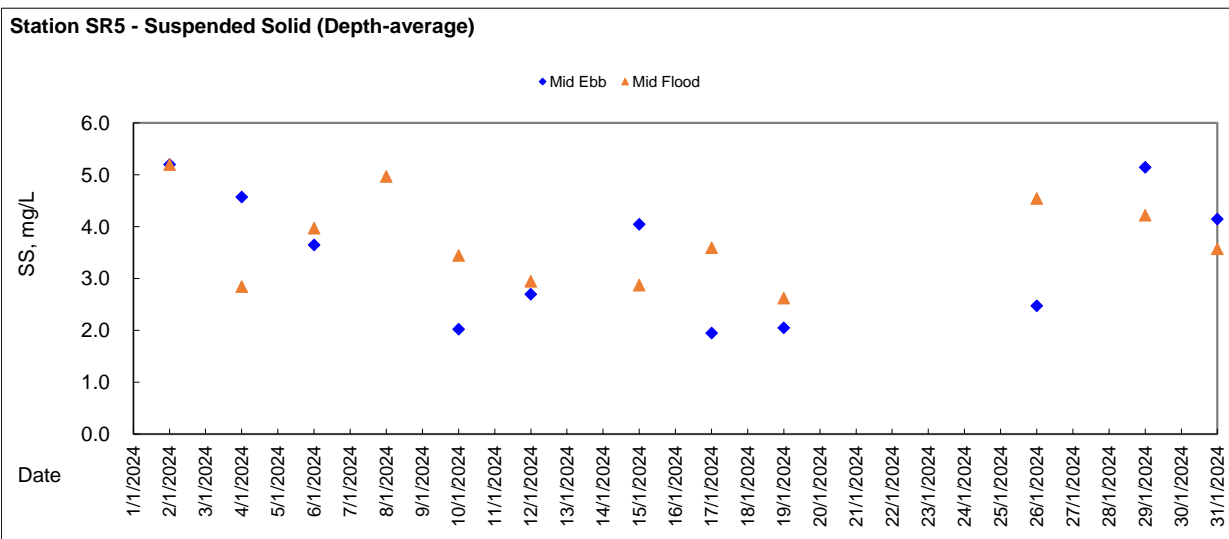
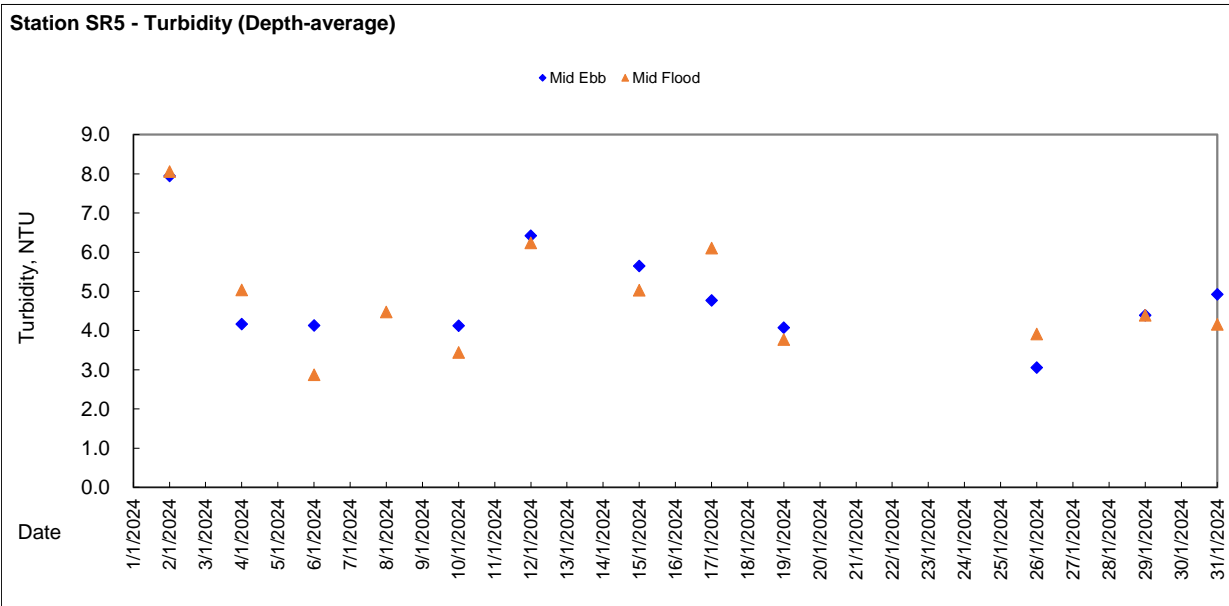
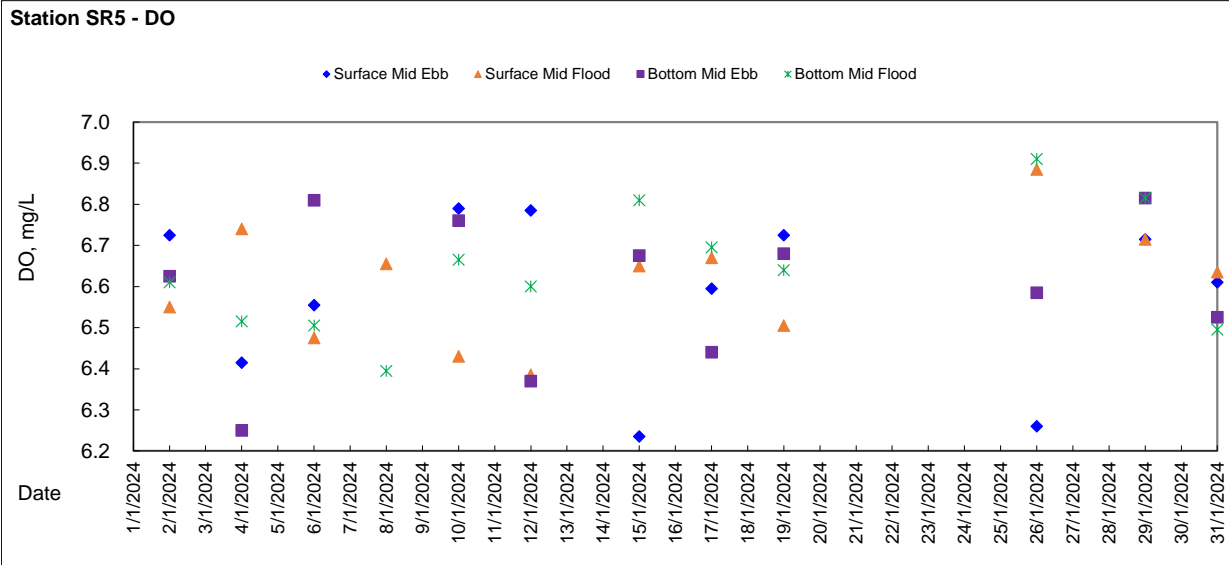


Graphic Presentation of WQM Result





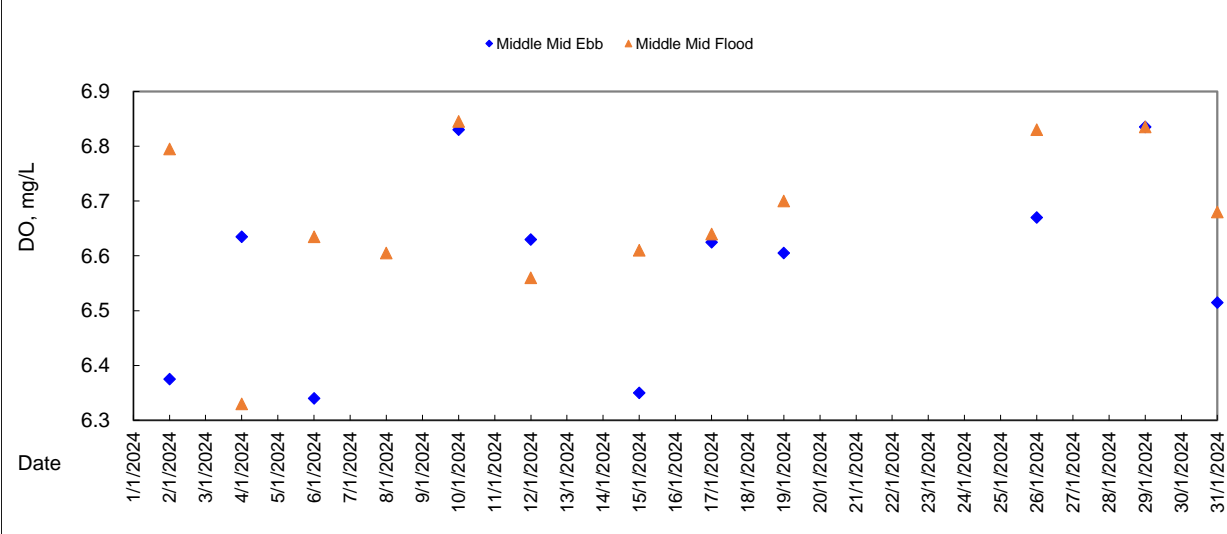
Graphic Presentation of WQM Result



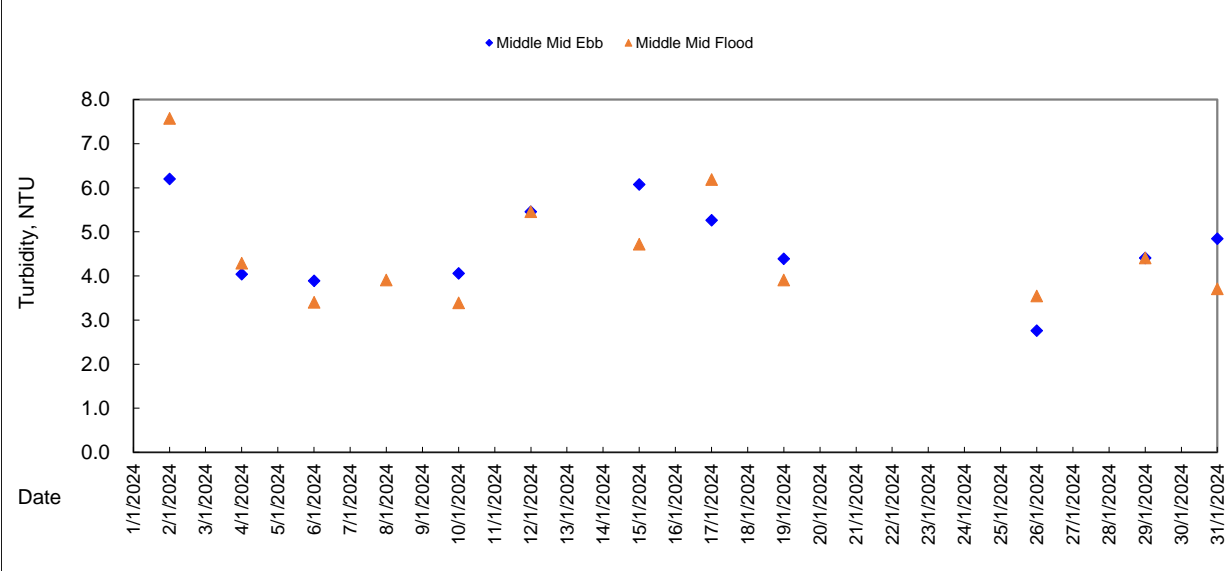


Graphic Presentation of WQM Result

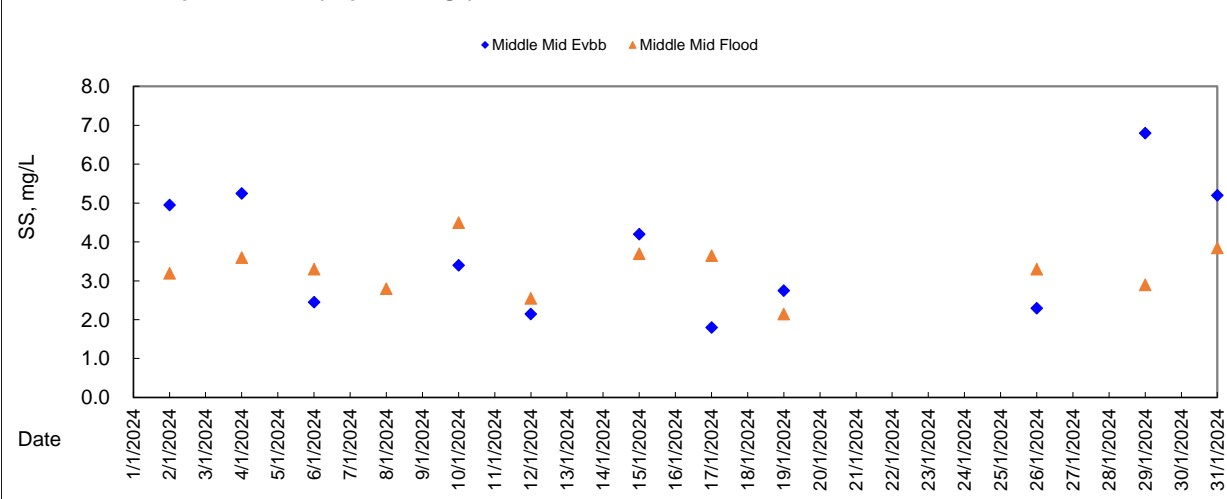
Station SR6 - DO



Station SR6 - Turbidity (Depth-average)



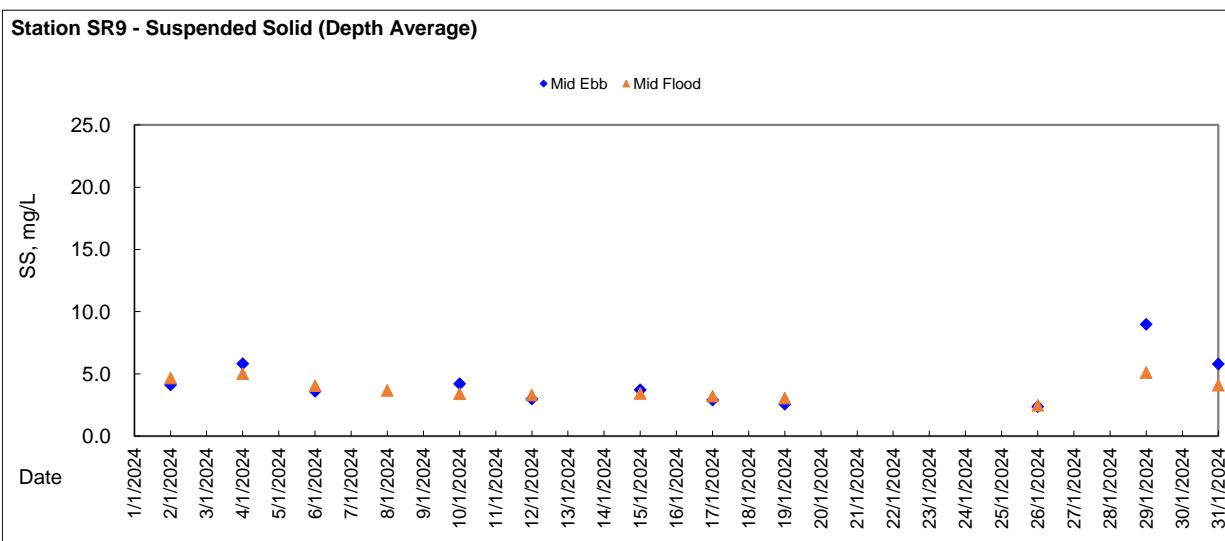
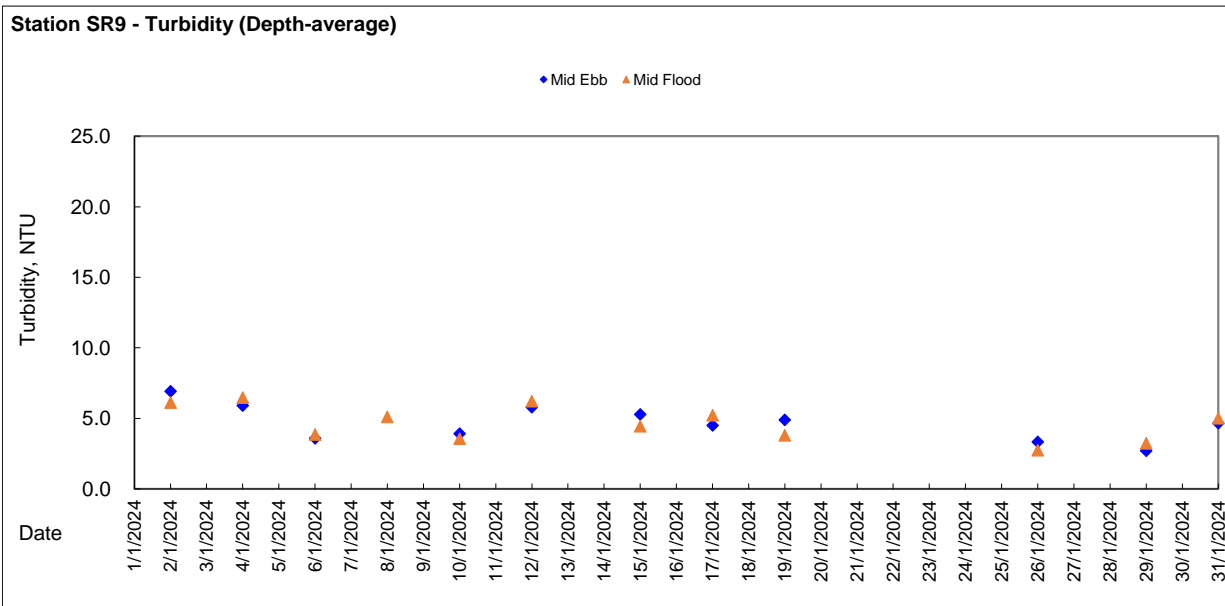
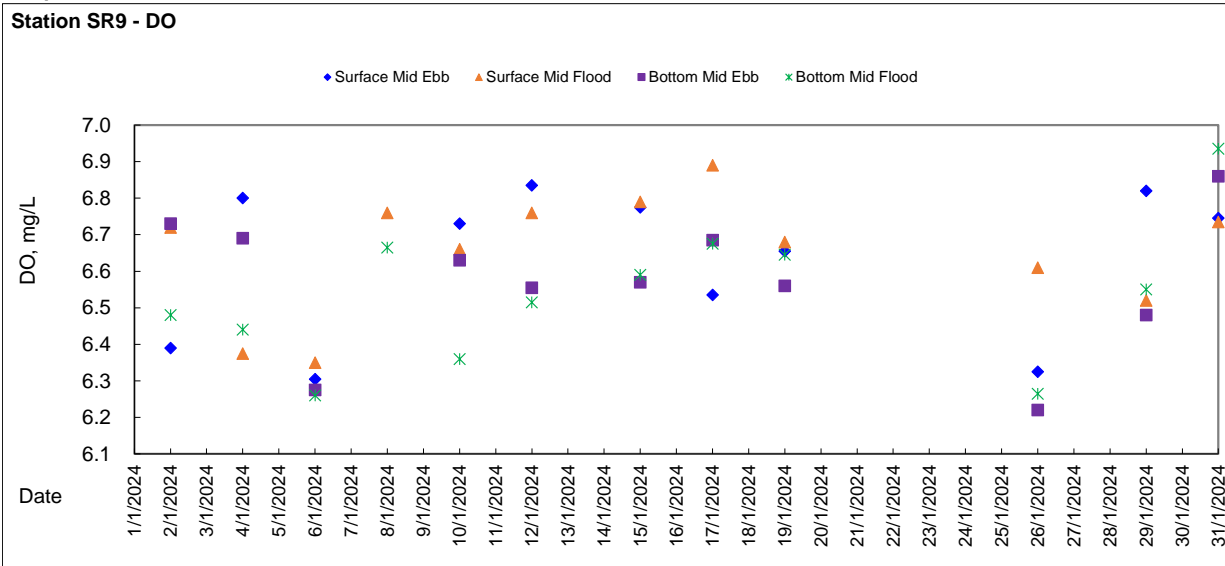
Station SR6 - Suspended Solid (Depth-average)





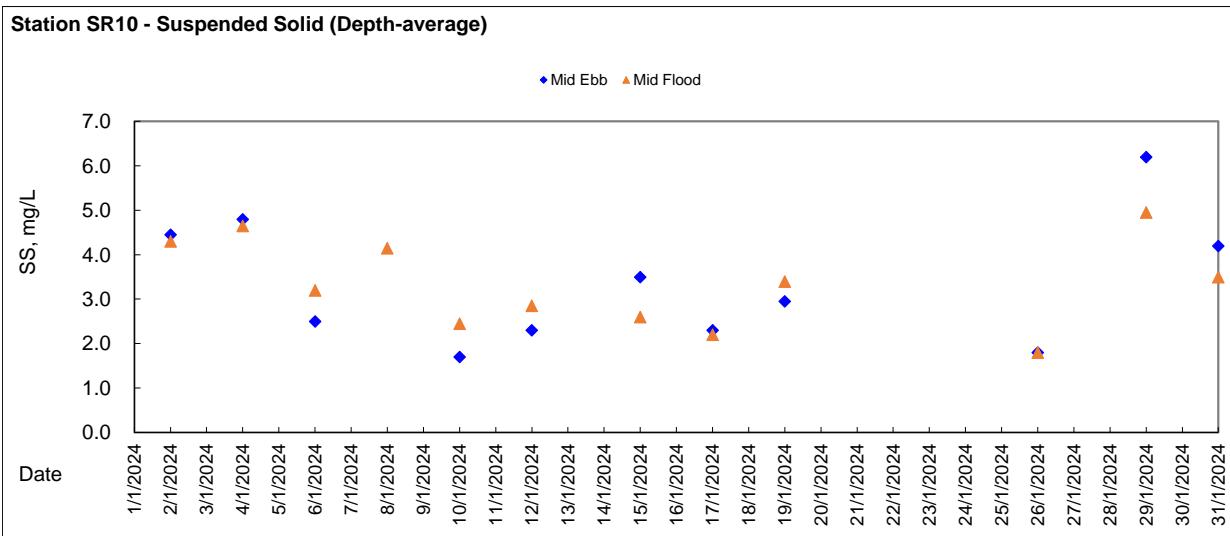
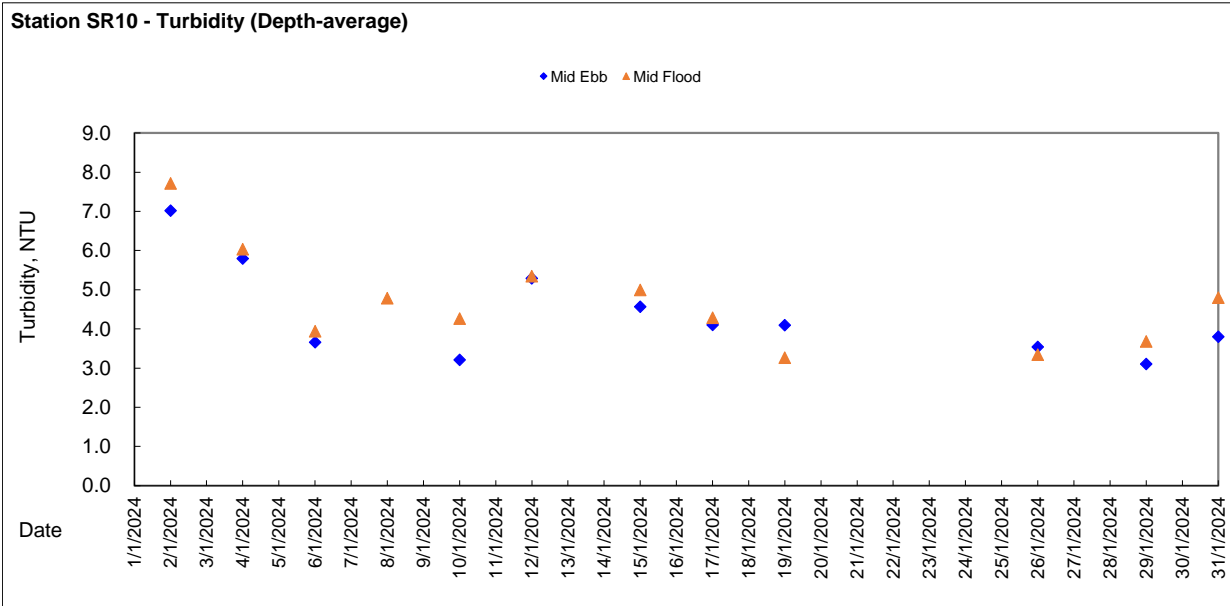
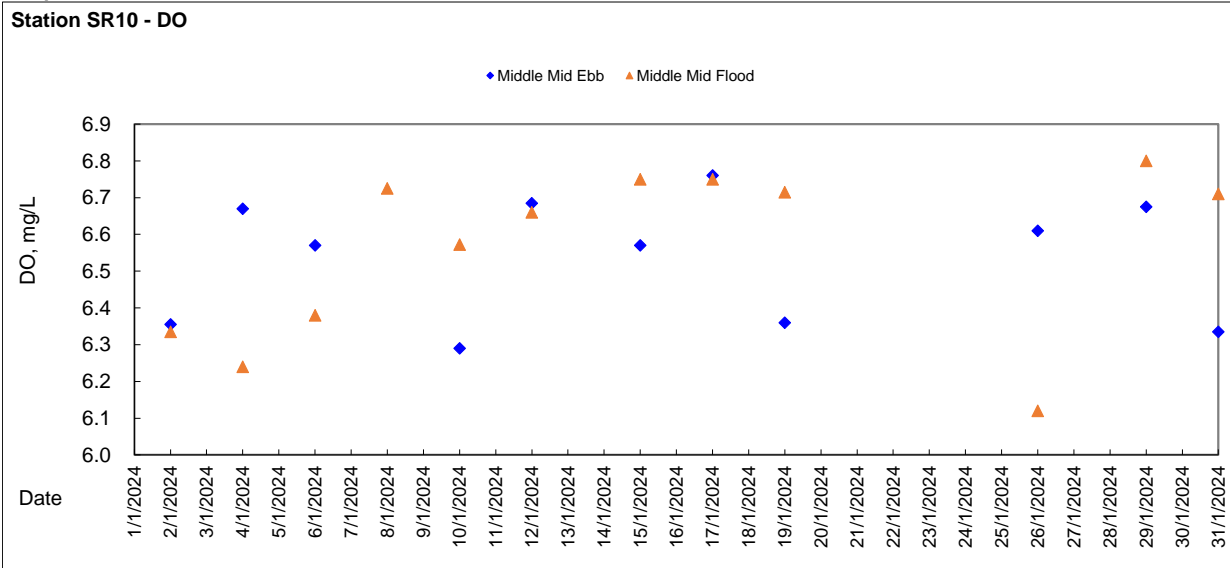


Graphic Presentation of WQM Result



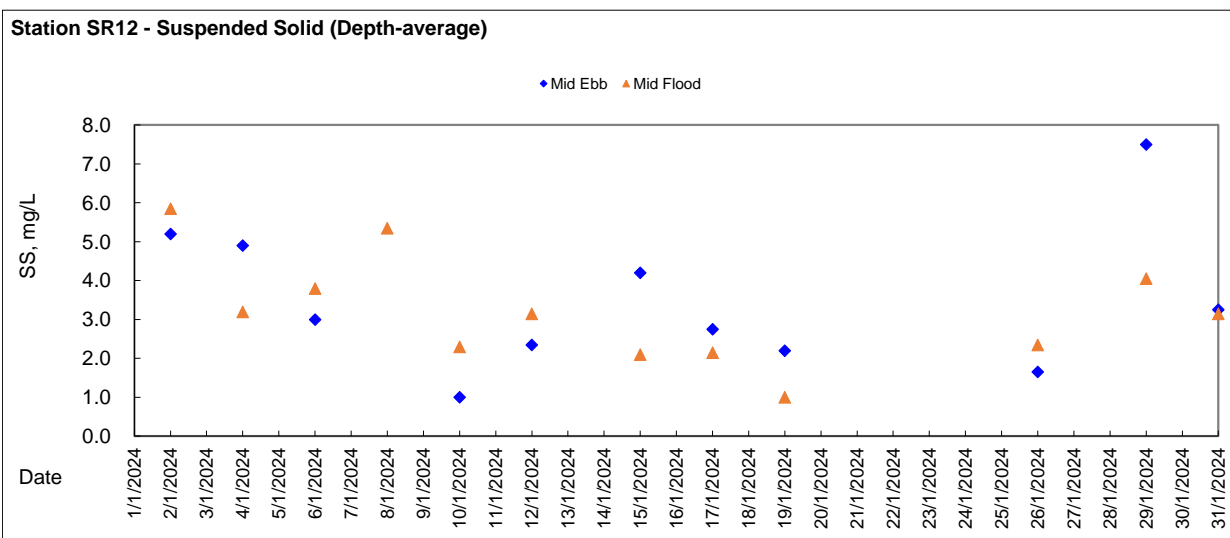
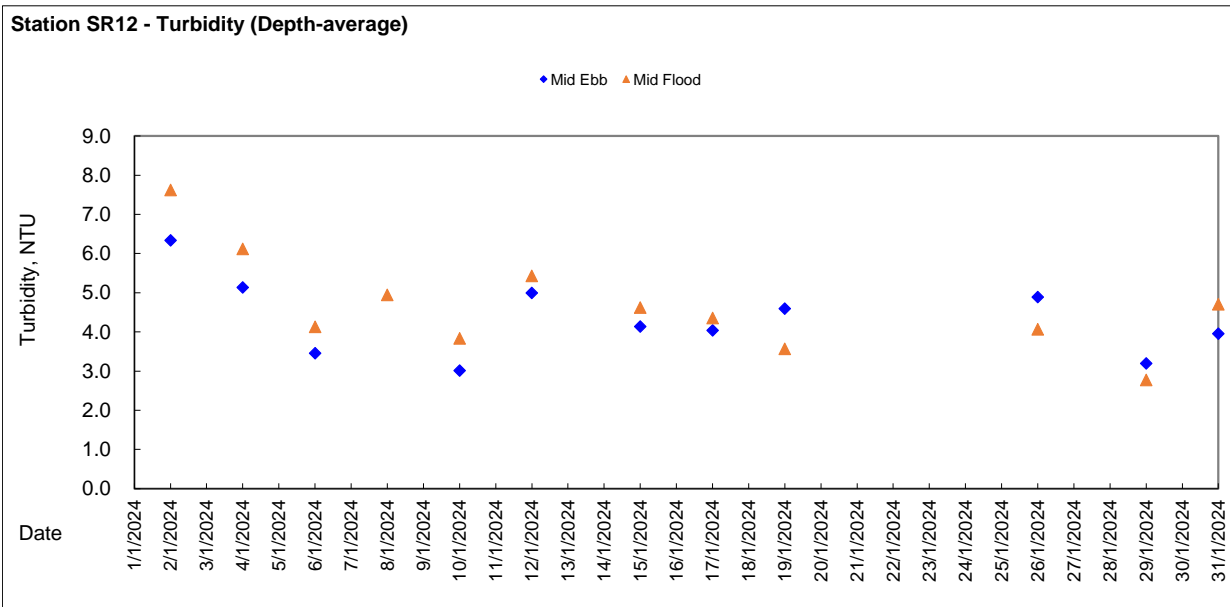
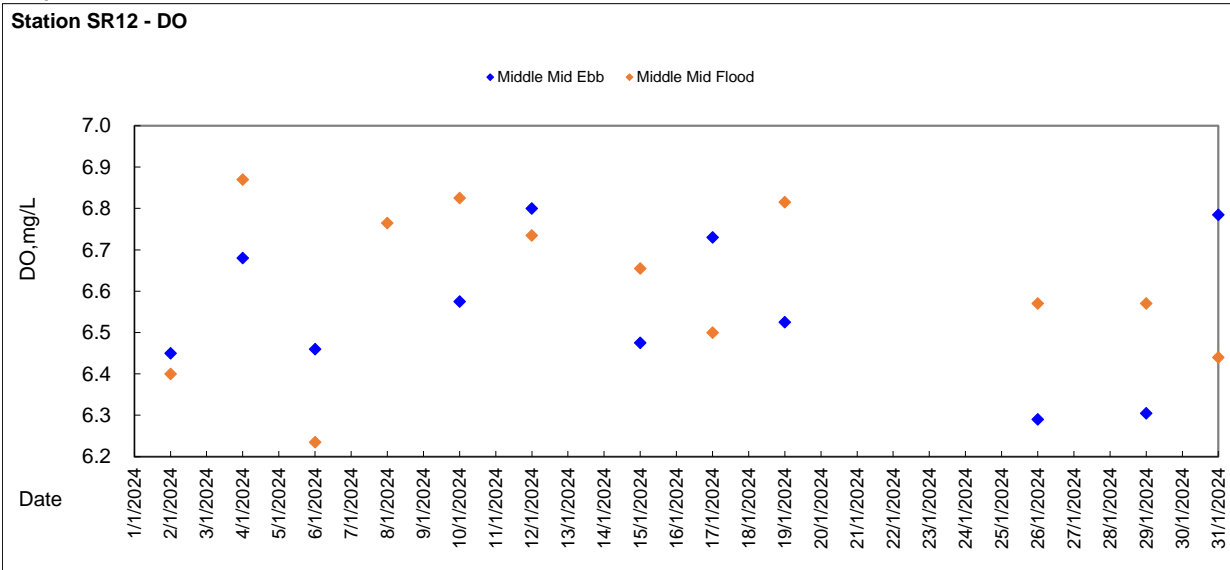


Graphic Presentation of WQM Result





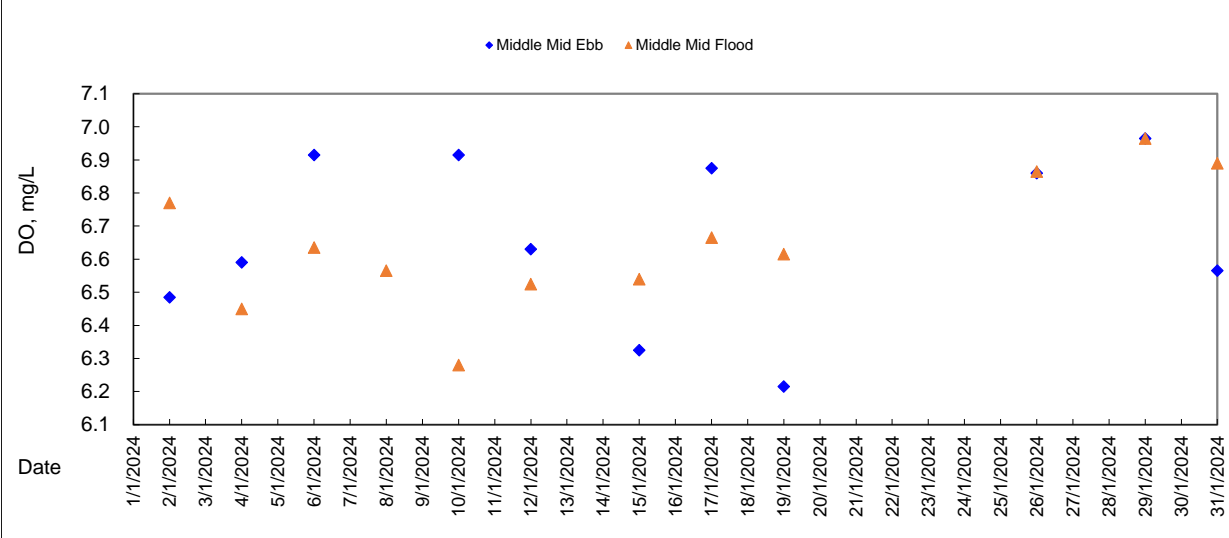
Graphic Presentation of WQM Result



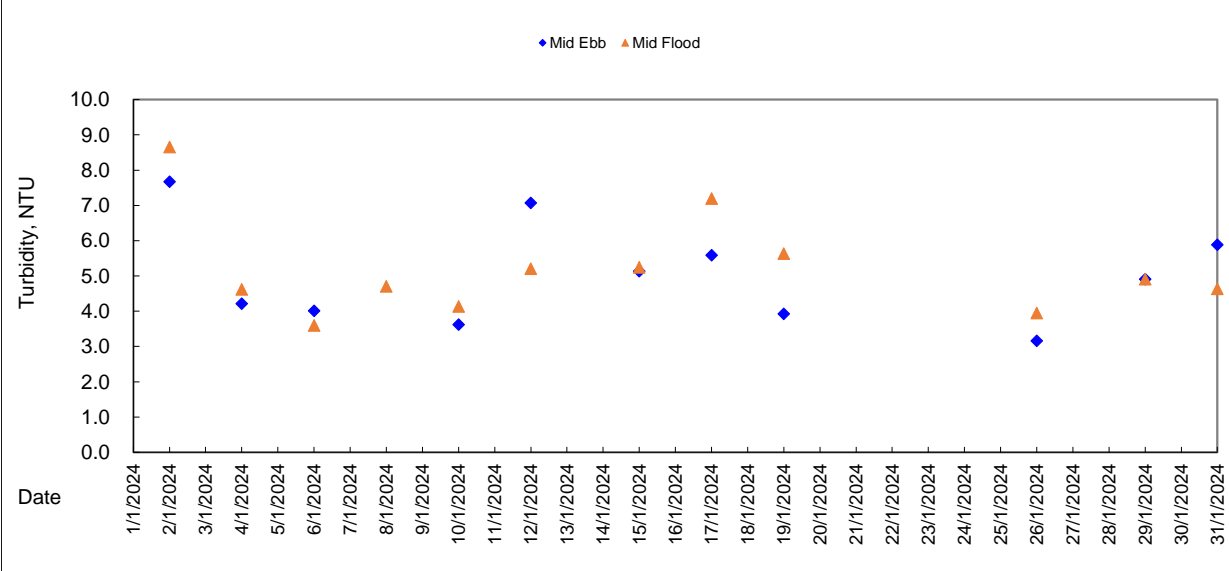


Graphic Presentation of WQM Result

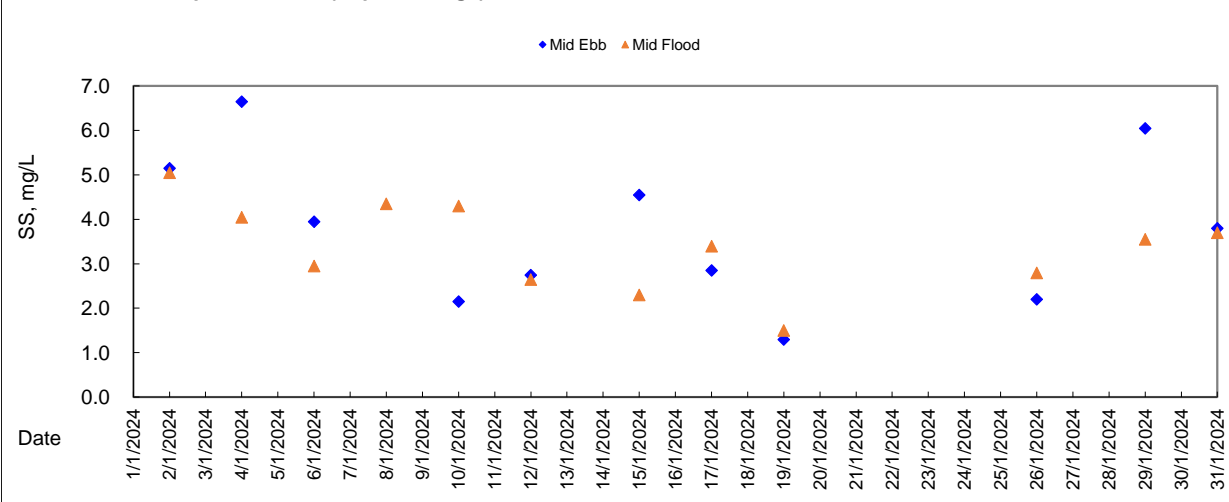
Station SR15 - DO



Station SR15 - Turbidity (Depth-average)



Station SR15 - Suspended Solid (Depth-average)





## Impact Water Quality Monitoring at Station SR4 (surface) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
						WQM was cancelled due to adverse weather															
SR4	2/1/2024	Fine	16:19	3.6	1.0	20.51		7.90	7.93	31.54	31.61	88.40	89.40	6.75	6.78	8.58	8.45	6.6	6.4		
			16:20	3.6	1.0	20.38		7.95		31.68		90.40		6.81		8.32		6.2			
	4/1/2024	Fine	18:40	3.7	1.0	20.37	20.42	8.06	8.06	31.19	31.22	87.00	86.05	6.87	6.78	4.31	4.16	4.9	4.8		
			18:41	3.7	1.0	20.47		8.05		31.25		85.10		6.69		4.01		4.6			
	6/1/2024	Fine	7:28	3.3	1.0	20.58	20.64	7.81	7.85	30.67	30.78	87.90	88.45	6.60	6.66	4.41	4.46	2.6	2.4		
			7:29	3.3	1.0	20.70		7.88		30.88		89.00		6.71		4.51		2.2			
	8/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	10/1/2024	Fine	10:54	3.2	1.0	21.25	21.20	7.25	7.28	31.35	31.31	92.40	93.15	6.84	6.87	4.79	4.69	1.3	1.2		
			10:55	3.2	1.0	21.14		7.31		31.26		93.90		6.89		4.58		1.0			
			12:55	3.5	1.0	20.59	20.56	9.69	9.64	31.50	31.44	84.40	84.65	6.45	6.47	7.59	7.67	3.7	3.6		
	12/1/2024	Fine	12:56	3.5	1.0	20.52		9.58		31.37		84.90		6.48		7.74		3.5			
			15:43	3.8	1.0	20.76	20.74	8.39	8.42	31.04	31.15	85.60	85.55	6.51	6.51	4.99	5.05	1.8	3.1		
	15/1/2024	Fine	15:44	3.8	1.0	20.71		8.45		31.25		85.50		6.50		5.11		4.3			
			17:29	3.6	1.0	20.43	20.41	9.76	9.77	31.06	31.09	90.50	90.55	6.86	6.86	5.10	5.06	2.6	2.4		
	17/1/2024	Cloudy	17:30	3.6	1.0	20.39		9.78		31.12		90.60		6.86		5.02		2.2			
			7:04	3.3	1.0	21.42	21.40	9.14	9.16	30.39	30.41	85.80	85.55	6.44	6.43	4.56	4.62	2.4	2.5		
	19/1/2024	Cloudy	7:05	3.3	1.0	21.37		9.18		30.43		85.30		6.41		4.67		2.5			
	22/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	24/1/2024	Strong wind	WQM was cancelled due to adverse weather																		
	26/1/2024	Cloudy	13:00	3.7	1.0	17.34	17.25	8.00	7.95	30.79	30.74	80.60	79.50	6.56	6.43	2.99	2.85	2.1	2.2		
13:01			3.7	1.0	17.15		7.89		30.68		78.40		6.30		2.70		2.3				
29/1/2024	Cloudy	15:31	3.7	1.0	17.67	17.69	7.92	7.94	31.84	31.82	86.90	87.15	6.87	6.89	4.89	4.80	4.0	4.3			
		15:32	3.7	1.0	17.70		7.95		31.79		87.40		6.91		4.71		4.5				
31/1/2024	Cloudy	15:34	3.4	1.0	19.32	19.31	7.72	7.71	31.59	31.57	84.90	85.55	6.48	6.52	5.37	5.47	4.2	4.3			
		15:35	3.4	1.0	19.30		7.70		31.55		86.20		6.55		5.57		4.4				

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.



## Impact Water Quality Monitoring at Station SR4 (surface) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
						WQM was cancelled due to adverse weather															
SR4	2/1/2024	Fine	11:19	3.3	1.0	20.47	20.49	7.93	7.94	31.66	31.71	91.10	90.00	6.83	6.79	7.72	7.67	4.5	4.6		
			11:20	3.3	1.0	20.50		7.95		31.75		88.90		6.74		7.62		4.4			
	4/1/2024	Fine	11:54	3.3	1.0	20.33	20.36	8.34	8.37	31.12	31.30	89.50	89.55	6.80	6.81	3.88	3.84	3.9	3.8		
			11:55	3.3	1.0	20.39		8.40		31.47		89.60		6.82		3.79		3.7			
	6/1/2024	Fine	13:46	3.5	1.0	20.50	20.53	7.60	7.63	31.48	31.50	82.50	81.95	6.28	6.25	3.57	3.48	2.5	2.4		
			13:47	3.5	1.0	20.55		7.65		31.52		81.40		6.22		3.38		2.2			
	8/1/2024	Cloudy	14:48	3.4	1.0	20.57	20.66	8.79	8.79	31.27	31.14	91.80	91.75	6.80	6.79	4.45	4.35	3.2	3.4		
			14:49	3.4	1.0	20.74		8.78		31.01		91.70		6.78		4.25		3.5			
	10/1/2024	Fine	16:09	3.4	1.0	20.70	20.64	8.24	8.30	31.55	31.51	85.20	85.05	6.44	6.43	3.84	3.79	1.6	1.6		
			16:10	3.4	1.0	20.57		8.36		31.46		84.90		6.41		3.73		1.6			
	12/1/2024	Fine	7:41	3.3	1.0	20.54	20.53	8.64	8.61	31.50	31.40	87.90	89.15	6.65	6.76	5.98	6.01	2.4	2.3		
			7:42	3.3	1.0	20.52		8.58		31.30		90.40		6.87		6.04		2.1			
	15/1/2024	Fine	9:27	3.2	1.0	20.51	20.49	9.74	9.69	31.09	31.07	85.00	86.50	6.48	6.60	5.34	5.25	1.9	1.9		
			9:28	3.2	1.0	20.46		9.64		31.05		88.00		6.71		5.15		1.5			
	17/1/2024	Cloudy	10:57	3.3	1.0	20.47	20.52	9.72	9.77	30.92	30.89	89.60	88.50	6.62	6.74	7.08	7.16	4.1	3.9		
			10:58	3.3	1.0	20.57		9.82		30.85		87.40		6.65		7.24		3.7			
	19/1/2024	Cloudy	12:46	3.5	1.0	21.30	21.31	10.10	10.12	30.96	30.98	87.50	89.25	6.59	6.72	4.52	4.49	2.2	2.4		
			12:47	3.5	1.0	21.31		10.13		30.99		91.00		6.84		4.46		2.5			
	22/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	24/1/2024	Strong wind	WQM was cancelled due to adverse weather																		
26/1/2024	Cloudy	7:22	3.3	1.0	16.89	16.83	7.92	7.91	31.67	31.62	84.60	84.70	6.76	6.78	3.18	3.43	3.3	3.5			
		7:23	3.3	1.0	16.76		7.90		31.56		84.80		6.79		3.67		3.6				
29/1/2024	Cloudy	15:22	3.7	1.0	17.67	17.69	7.92	7.94	31.84	31.82	86.90	87.15	6.87	6.89	4.89	4.80	9.1	9.2			
		15:23	3.7	1.0	17.70		7.85		31.79		87.40		6.81		4.71		9.3				
31/1/2024	Cloudy	9:14	3.2	1.0	19.75	19.71	7.90	7.89	32.54	32.51	85.10	88.60	6.61	6.69	4.51	4.43	4.4	4.3			
		9:15	3.2	1.0	19.66		7.88		32.47		89.10		6.77		4.34		4.1				

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.





## Impact Water Quality Monitoring at Station SR4 (Bottom) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
						WQM was cancelled due to adverse weather															
SR4	2/1/2024	Fine	16:21	3.6	2.6	20.57		7.90	7.92	31.78	31.89	88.40	89.25	6.74	6.76	7.17	7.28	5.2	5.1		
			16:22	3.6	2.6	20.55		7.93		31.99		90.10		6.77		7.39		5.0			
	4/1/2024	Fine	18:42	3.7	2.7	20.31	20.40	8.37	8.31	31.40	31.39	82.30	82.45	6.47	6.49	3.95	3.99	5.1	5.2		
			18:43	3.7	2.7	20.49		8.25		31.37		82.60		6.50		4.02		5.2			
	6/1/2024	Fine	7:30	3.3	2.3	20.63	20.61	7.86	7.84	31.27	31.29	89.40	88.20	6.69	6.63	4.05	4.10	3.8	3.6		
			7:31	3.3	2.3	20.59		7.82		31.31		87.00		6.57		4.14		3.4			
	8/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	10/1/2024	Fine	10:56	3.2	2.2	21.04	21.14	7.37	7.33	31.29	31.30	89.40	90.15	6.67	6.72	4.26	4.37	1.6	1.7		
			10:57	3.2	2.2	21.24		7.29		31.30		90.90		6.77		4.47		1.8			
	12/1/2024	Fine	12:57	3.5	2.5	20.59	20.66	9.73	9.68	31.51	31.59	86.00	86.35	6.54	6.57	6.37	6.29	2.7	2.9		
			12:58	3.5	2.5	20.72		9.63		31.67		86.70		6.59		6.21		3.0			
	15/1/2024	Fine	15:45	3.6	2.8	20.75	20.82	8.38	8.37	31.11	31.20	81.70	82.20	6.26	6.30	5.24	5.15	4.7	4.0		
			15:46	3.8	2.8	20.89		8.36		31.29		82.70		6.34		5.05		3.2			
	17/1/2024	Cloudy	17:31	3.6	2.6	20.29	20.35	9.62	9.70	30.88	30.80	86.10	87.65	6.62	6.71	5.48	5.49	3.0	3.2		
			17:32	3.6	2.6	20.40		9.78		30.72		89.20		6.90		5.50		3.3			
	19/1/2024	Cloudy	7:06	3.3	2.3	21.30	21.23	9.34	9.35	30.82	30.90	88.00	84.55	6.39	6.36	4.09	4.11	2.1	2.2		
			7:07	3.3	2.3	21.16		9.36		30.97		84.10		6.33		4.12		2.2			
	22/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	24/1/2024	Strong wind	WQM was cancelled due to adverse weather																		
	26/1/2024	Cloudy	13:02	3.7	2.7	17.25	17.21	7.78	7.78	31.67	31.77	79.80	82.00	6.55	6.71	2.96	3.02	3.2	3.0		
			13:03	3.7	2.7	17.16		7.77		31.87		84.20		6.87		3.07		2.8			
	29/1/2024	Cloudy	15:33	3.7	2.7	17.70	17.72	7.99	7.95	30.19	30.15	83.80	82.60	6.65	6.56	4.14	4.26	5.2	5.3		
			15:34	3.7	2.7	17.74		7.90		30.10		81.40		6.47		4.37		5.4			
	31/1/2024	Cloudy	15:36	3.4	2.4	19.42	19.39	7.80	7.75	32.08	32.11	82.00	81.50	6.42	6.39	5.17	5.22	3.1	3.3		
15:37			3.4	2.4	19.35		7.70		32.14		81.00		6.35		5.27		3.4				

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.



## Impact Water Quality Monitoring at Station SR4 (Bottom) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
						WQM was cancelled due to adverse weather															
SR4	2/1/2024	Fine	11:21	3.3	2.3	20.50	20.51	7.99	7.97	31.69	31.64	90.80	89.35	6.86	6.79	8.37	8.47	6.4	6.1		
			11:22	3.3	2.3	20.52		7.95		31.58		87.90		6.71		8.57		5.8			
	4/1/2024	Fine	11:56	3.3	2.3	20.27	20.33	8.15	8.20	31.19	31.23	84.70	82.45	6.48	6.38	4.47	4.41	3.7	3.7		
			11:57	3.3	2.3	20.39		8.25		31.27		80.20		6.27		4.35		3.6			
	6/1/2024	Fine	13:48	3.5	2.5	20.54	20.57	7.27	7.29	31.36	31.30	84.90	84.40	6.51	6.48	3.65	3.52	1.7	1.6		
			13:49	3.5	2.5	20.60		7.30		31.24		83.90		6.45		3.39		1.5			
	8/1/2024	Cloudy	14:50	3.4	2.4	20.61	20.67	8.62	8.69	31.59	31.68	88.00	88.20	6.67	6.68	4.88	4.99	4.5	4.7		
			14:51	3.4	2.4	20.73		8.76		31.77		88.40		6.69		5.09		4.8			
	10/1/2024	Fine	16:11	3.4	2.4	20.39	20.58	8.42	8.36	31.67	31.58	83.30	82.90	6.32	6.30	3.73	3.66	2.3	2.5		
			16:12	3.4	2.4	20.76		8.30		31.46		82.50		6.27		3.59		2.6			
	12/1/2024	Fine	7:43	3.3	2.3	20.63	20.72	8.69	8.72	31.23	31.21	91.10	90.00	6.53	6.79	6.34	6.31	3.2	3.0		
			7:44	3.3	2.3	20.81		8.74		31.19		88.90		6.74		6.27		2.8			
	15/1/2024	Fine	9:29	3.2	2.2	20.38	20.41	9.73	9.70	31.37	31.32	89.40	87.55	6.86	6.72	4.70	4.83	2.5	2.6		
			9:30	3.2	2.2	20.43		9.67		31.26		85.70		6.57		4.95		2.7			
	17/1/2024	Cloudy	10:59	3.3	2.3	20.53	20.51	9.83	9.82	31.23	31.27	87.50	89.25	6.69	6.81	6.33	6.31	3.4	3.3		
			11:00	3.3	2.3	20.49		9.80		31.31		91.00		6.92		6.29		3.1			
	19/1/2024	Cloudy	12:48	3.5	2.5	21.44	21.42	10.25	10.21	31.34	31.27	87.20	89.05	6.55	6.67	4.57	4.50	3.2	3.0		
			12:49	3.5	2.5	21.39		10.16		31.20		90.90		6.79		4.42		2.8			
	22/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	24/1/2024	Strong wind	WQM was cancelled due to adverse weather																		
	26/1/2024	Cloudy	7:24	3.3	2.3	16.90	16.84	7.80	7.83	31.85	31.82	86.60	86.00	6.91	6.88	3.62	3.52	4.2	4.1		
			7:25	3.3	2.3	16.77		7.85		31.79		86.40		6.94		3.41		3.8			
	29/1/2024	Cloudy	15:24	3.7	2.7	17.70	17.72	7.99	7.95	30.19	30.15	83.90	82.60	6.65	6.56	4.14	4.26	7.4	7.3		
			15:25	3.7	2.7	17.74		7.90		30.10		81.40		6.47		4.37		7.1			
31/1/2024	Cloudy	9:16	3.2	2.2	19.72	19.70	7.82	7.84	32.50	32.34	90.20	90.50	6.80	6.82	4.81	4.88	5.0	5.2			
		9:17	3.2	2.2	19.67		7.86		32.18		90.80		6.83		4.94		5.4				

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.



## Impact Water Quality Monitoring at Station SR5 (surface) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
						WQM was cancelled due to adverse weather															
SR5	2/1/2024	Fine	16:10	4.1	1.0	20.37															
			16:11	4.1	1.0	20.50	20.44	7.98	7.97	31.85	31.84	87.00	88.65	6.65	6.73	8.15	8.08	4.6	4.5		
	4/1/2024	Fine	18:32	4.2	1.0	20.18															
			18:33	4.2	1.0	20.37	20.28	8.44	8.45	31.45	31.53	81.10	81.85	6.38	6.42	4.25	4.21	3.4	3.7		
	6/1/2024	Fine	7:37	4.1	1.0	20.49															
			7:38	4.1	1.0	20.59	20.54	7.57	7.55	31.29	31.32	85.10	86.60	6.48	6.56	3.74	3.80	3.5	3.3		
	8/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	10/1/2024	Fine	11:02	3.5	1.0	21.36															
			11:03	3.5	1.0	21.05	21.21	7.34	7.38	31.29	31.27	89.60	90.55	6.72	6.79	4.25	4.08	2.2	2.4		
	12/1/2024	Fine	12:46	4.1	1.0	20.53															
			12:47	4.1	1.0	20.42	20.48	9.73	9.70	31.32	31.29	95.70	96.20	6.72	6.79	6.58	6.64	3.0	3.2		
	15/1/2024	Fine	15:35	4.3	1.0	20.63															
			15:36	4.2	1.0	20.49	20.56	8.44	8.42	31.32	31.41	81.80	82.25	6.19	6.24	5.80	5.77	3.6	3.5		
	17/1/2024	Cloudy	17:20	4.3	1.0	20.30															
			17:21	4.3	1.0	20.27	20.29	9.83	9.81	30.70	30.63	84.20	86.00	6.47	6.60	4.73	4.79	1.6	1.7		
	19/1/2024	Cloudy	7:13	3.9	1.0	21.14															
			7:14	3.9	1.0	21.19	21.17	9.09	9.12	30.59	30.69	88.30	88.15	6.74	6.73	4.19	4.25	1.6	1.6		
	22/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	24/1/2024	Strong wind	WQM was cancelled due to adverse weather																		
	26/1/2024	Cloudy	12:52	4.1	1.0	17.08															
			12:53	4.1	1.0	17.10	17.09	7.84	7.81	32.19	32.11	75.80	76.40	6.12	6.26	2.84	2.81	2.9	2.8		
	29/1/2024	Cloudy	15:22	4.1	1.0	17.71															
			15:23	4.1	1.0	17.68	17.70	7.92	7.90	31.63	31.72	81.70	83.25	6.58	6.72	4.86	4.80	4.2	4.1		
	31/1/2024	Cloudy	15:25	4.0	1.0	19.28															
15:26			4.0	1.0	19.30	19.29	7.75	7.72	32.58	32.68	85.80	85.95	6.60	6.61	5.28	5.24	4.0	3.8			

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.



## Impact Water Quality Monitoring at Station SR5 (surface) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
						WQM was cancelled due to adverse weather															
SR5	2/1/2024	Fine	11:27	3.8	1.0	20.44															
			11:28	3.8	1.0	20.27	20.36	7.83	7.81	31.94	31.91	84.90	86.35	6.45	6.55	7.62	7.66	3.8	3.9		
	4/1/2024	Fine	12:03	3.9	1.0	20.33															
			12:04	3.9	1.0	20.47	20.40	8.22	8.26	31.04	31.14	88.40	87.90	6.78	6.74	5.01	4.95	3.3	3.1		
	6/1/2024	Fine	13:38	4.2	1.0	20.34															
			13:39	4.2	1.0	20.19	20.27	7.65	7.62	31.19	31.22	84.30	84.00	6.53	6.48	2.83	2.69	3.5	3.6		
	8/1/2024	Cloudy	14:40	4.0	1.0	20.81															
			14:41	4.0	1.0	20.79	20.80	8.66	8.62	31.98	31.89	88.60	88.20	6.72	6.66	4.31	4.41	3.3	3.6		
	10/1/2024	Fine	16:01	3.8	1.0	20.66															
			16:02	3.8	1.0	20.64	20.65	8.24	8.30	31.39	31.44	84.10	83.95	6.44	6.43	3.42	3.53	3.0	3.2		
	12/1/2024	Fine	7:50	3.8	1.0	20.63															
			7:51	3.8	1.0	20.59	20.61	8.82	8.76	31.42	31.35	83.30	84.25	6.33	6.39	6.01	6.11	2.7	2.5		
	15/1/2024	Fine	9:36	3.7	1.0	20.24															
			9:37	3.7	1.0	20.37	20.31	9.65	9.67	31.15	31.24	85.20	86.95	6.53	6.65	5.03	4.98	2.5	2.5		
	17/1/2024	Cloudy	11:06	3.9	1.0	20.23															
			11:07	3.9	1.0	20.23	20.23	9.56	9.66	31.20	31.14	85.90	87.45	6.54	6.67	6.27	6.18	3.0	3.2		
	19/1/2024	Cloudy	12:36	4.0	1.0	21.39															
			12:37	4.0	1.0	21.41	21.40	10.01	10.04	31.28	31.19	84.60	86.50	6.37	6.51	3.84	3.69	2.5	2.4		
	22/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	24/1/2024	Strong wind	WQM was cancelled due to adverse weather																		
	26/1/2024	Cloudy	7:32	3.7	1.0	16.84															
			7:33	3.7	1.0	16.70	16.77	7.84	7.82	32.25	32.34	86.40	85.90	6.92	6.89	4.01	3.91	4.7	4.9		
	29/1/2024	Cloudy	15:22	4.1	1.0	17.71															
			15:23	4.1	1.0	17.68	17.70	7.92	7.90	31.63	31.72	81.70	83.25	6.58	6.72	4.86	4.80	4.5	4.5		
31/1/2024	Cloudy	9:23	3.7	1.0	19.62																
		9:24	3.7	1.0	19.60	19.61	7.88	7.85	32.24	32.16	86.40	87.10	6.59	6.64	3.93	3.99	3.7	3.9			

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.



## Impact Water Quality Monitoring at Station SR5 (Bottom) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
						WQM was cancelled due to adverse weather															
SR5	2/1/2024	Fine	16:13	4.1	3.1	20.62		7.97	7.94	31.56	31.57	89.00	6.78	6.63	7.92	7.80	5.7	5.9			
			16:14	4.1	3.1	20.59	20.61	7.91		31.57		85.40	87.20	6.49		7.68		6.1			
	4/1/2024	Fine	18:35	4.2	3.2	20.27		8.12	8.15	31.19	31.23	79.10	6.21	6.25	4.07	4.12	5.8	5.5			
			18:36	4.2	3.2	20.30		8.17		31.27		80.30	79.70	6.29	6.25	4.17	4.12	5.2			
	6/1/2024	Fine	7:40	4.1	3.1	20.24	20.34	7.40	7.43	31.51	31.48	88.70	6.78	6.81	4.37	4.46	4.2	4.0			
			7:41	4.1	3.1	20.43		7.46		31.45		92.40	90.55	6.84	6.81	4.55	4.46	3.8			
	8/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	10/1/2024	Fine	11:04	3.5	2.5	21.28	21.20	7.77	7.71	31.47	31.49	89.40	6.70	6.76	4.06	4.17	1.7	1.7			
			11:05	3.5	2.5	21.11		7.65		31.51		91.70	90.55	6.82	6.76	4.27	4.17	1.6			
	12/1/2024	Fine	12:49	4.1	3.1	20.39	20.46	9.78	9.77	31.50	31.48	90.60	6.43	6.37	6.17	6.20	2.4	2.3			
			12:50	4.1	3.2	20.52		9.76		31.45		88.70	89.65	6.31	6.37	6.22	6.20	2.1			
	15/1/2024	Fine	15:38	4.3	3.2	20.47	20.53	8.58	8.58	31.02	30.94	86.30	6.64	6.68	5.46	5.53	4.8	4.7			
			15:39	4.2	3.2	20.59		8.57		30.86		87.00	86.65	6.71	6.68	5.59	5.53	4.5			
	17/1/2024	Cloudy	17:22	4.3	3.3	20.45	20.43	9.57	9.63	30.67	30.74	85.80	6.57	6.44	4.68	4.75	2.0	2.2			
			17:23	4.3	3.3	20.41		9.68		30.90		82.00	83.90	6.31	6.44	4.62	4.75	2.4			
	19/1/2024	Cloudy	7:15	3.9	2.9	21.11	21.18	9.11	9.14	30.78	30.89	88.00	6.70	6.70	3.95	3.90	2.6	2.5			
			7:16	3.9	2.9	21.25		9.17		30.99		87.50	87.75	6.66	6.68	3.84	3.90	2.4			
	22/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	24/1/2024	Strong wind	WQM was cancelled due to adverse weather																		
	26/1/2024	Cloudy	12:55	4.1	3.1	16.80	16.89	7.69	7.73	31.59	31.66	84.60	6.59	6.59	3.23	3.30	2.3	2.2			
			12:56	4.1	3.1	16.97		7.76		31.72		84.50	84.55	6.58	6.59	3.36	3.30	2.1			
	29/1/2024	Cloudy	15:25	4.1	3.1	17.63	17.66	8.01	7.99	32.25	32.21	86.50	6.83	6.82	4.02	3.98	6.4	6.3			
			15:26	4.1	3.1	17.69		7.97		32.16		86.10	86.30	6.80	6.82	3.94	3.98	6.1			
	31/1/2024	Cloudy	15:28	4.0	3.0	19.40	19.33	7.81	7.73	32.68	32.67	83.10	6.49	6.53	4.64	4.61	4.7	4.5			
15:29			4.0	3.0	19.26		7.85		32.65		84.50	83.80	6.56	6.53	4.57	4.61	4.3				

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.



## Impact Water Quality Monitoring at Station SR5 (Bottom) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
						WQM was cancelled due to adverse weather															
SR5	2/1/2024	Fine	11:29	3.8	2.8	20.45	20.37	7.97	7.97	31.67	31.63	85.10	6.47	6.51	8.57	8.46	6.2	6.5			
			11:30	3.8	2.8	20.29		7.96		31.59		88.60	86.85	6.75	6.51	8.34	8.46	6.8			
	4/1/2024	Fine	12:05	3.9	2.9	20.37	20.32	8.26	8.27	31.67	31.77	84.50	6.53	6.52	5.06	5.12	2.7	2.6			
			12:06	3.9	2.9	20.27		8.27		31.87		84.00	84.25	6.50	6.52	5.17	5.12	2.5			
	6/1/2024	Fine	13:41	4.2	3.2	20.52	20.50	7.81	7.81	31.42	31.41	84.90	6.50	6.51	2.71	2.86	4.6	4.4			
			13:42	4.2	3.2	20.48		7.80		31.40		85.10	85.00	6.51	6.51	3.01	3.01	4.1			
	8/1/2024	Cloudy	14:43	4.0	3.0	20.74	20.80	8.62	8.64	31.62	31.61	84.70	6.36	6.40	4.43	4.54	6.2	6.4			
			14:44	4.0	3.0	20.86		8.66		31.59		85.40	85.05	6.43	6.40	4.64	4.54	6.6			
	10/1/2024	Fine	16:03	3.8	2.8	20.73	20.69	8.30	8.29	31.58	31.54	87.90	6.73	6.67	3.47	3.35	3.8	3.7			
			16:04	3.8	2.8	20.64		8.27		31.50		86.80	87.35	6.60	6.67	3.23	3.35	3.6			
	12/1/2024	Fine	7:52	3.9	2.9	20.55	20.63	8.67	8.69	31.17	31.22	87.50	6.66	6.60	6.43	6.36	3.5	3.4			
			7:53	3.8	2.8	20.71		8.71		31.27		85.60	86.55	6.54	6.60	6.29	6.36	3.3			
	15/1/2024	Fine	9:38	3.7	2.7	20.27	20.30	9.52	9.62	31.48	31.51	91.00	6.93	6.81	5.02	5.08	3.5	3.3			
			9:39	3.7	2.7	20.33		9.72		31.54		88.70	89.85	6.69	6.81	5.13	5.08	3.1			
	17/1/2024	Cloudy	11:08	3.9	2.9	20.59	20.63	9.58	9.66	31.27	31.23	89.00	6.72	6.70	6.09	6.04	3.8	4.0			
			11:09	3.9	2.9	20.67		9.74		31.19		86.80	87.90	6.67	6.70	5.98	6.04	4.2			
	19/1/2024	Cloudy	12:39	4.0	3.0	21.28	21.27	10.19	10.15	31.20	31.17	87.50	6.55	6.64	3.98	3.86	2.8	2.9			
			12:40	4.0	3.0	21.25		10.10		31.14		90.10	88.80	6.73	6.64	3.74	3.86	3.0			
	22/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	24/1/2024	Strong wind	WQM was cancelled due to adverse weather																		
	26/1/2024	Cloudy	7:34	3.7	2.7	16.74	16.67	7.95	7.91	31.70	31.65	86.70	6.94	6.91	3.86	3.91	4.3	4.3			
			7:35	3.7	2.7	16.59		7.96		31.59		86.90	86.80	6.98	6.91	3.96	3.91	4.2			
	29/1/2024	Cloudy	15:25	4.1	3.1	17.62	17.66	8.01	7.99	32.25	32.21	86.50	6.83	6.82	4.02	3.98	6.4	6.3			
			15:26	4.1	3.1	17.69		7.97		32.16		86.10	86.30	6.80	6.82	3.94	3.98	3.8			
31/1/2024	Cloudy	9:25	3.7	2.7	19.58	19.51	7.86	7.87	32.73	32.64	83.60	6.48	6.48	4.37	4.33	3.2	3.3				
		9:26	3.7	2.7	19.43		7.87		32.54		84.40	84.00	6.51	6.50	4.29	4.33	3.4				

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.



## Impact Water Quality Monitoring at Station SR6 (Middle) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
						WQM was cancelled due to adverse weather															
SR6	2/1/2024	Fine	16:01	2.8	1.4	20.29		7.97		31.98		81.80		6.26		6.12		5.1		5.0	
			16:02	2.8	1.4	20.50	20.40	8.00	7.99	31.81	31.90	85.50	83.65	6.49	6.38	6.20	4.5				
	4/1/2024	Fine	18:23	2.7	1.4	20.18		8.46		31.56		82.20		6.49		4.00		5.4		5.3	
			18:24	2.7	1.4	20.09	20.14	8.41	8.44	31.47	31.52	85.90	84.05	6.78	6.64	3.99	4.04	5.1			
	6/1/2024	Fine	7:46	2.6	1.3	20.50		7.62		31.46		83.30		6.36		3.91		2.5		2.5	
			7:47	2.6	1.3	20.37	20.44	7.58	7.60	31.50	31.48	82.70	83.00	6.32	6.34	3.87	3.89	2.4			
	8/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	10/1/2024	Fine	11:11	2.4	1.2	21.41		7.46		31.42		92.00		6.91		4.13		3.2		3.4	
			11:12	2.4	1.2	21.30	21.36	7.39	7.43	31.39	31.41	90.10	91.05	6.75	6.83	3.98	4.06	3.6			
	12/1/2024	Fine	12:38	2.7	1.4	20.37		9.58		31.62		93.30		6.64		5.69		2.1		2.2	
			12:39	2.7	1.4	20.32	20.35	9.79	9.69	31.40	31.51	93.00	93.15	6.62	6.63	5.22	5.46	2.2			
	15/1/2024	Fine	15:26	2.8	1.4	20.53		8.57		31.08		84.70		6.44		6.02		4.3		4.2	
			15:27	2.8	1.4	20.50	20.52	8.48	8.53	31.17	31.13	81.90	83.30	6.26	6.35	6.12	6.07	4.1			
	17/1/2024	Cloudy	17:10	2.8	1.4	20.47		9.80		30.72		84.90		6.49		5.16		1.8		1.8	
			17:11	2.8	1.4	20.36	20.42	9.77	9.79	30.76	30.74	86.30	86.60	6.76	6.63	5.34	5.26	1.8			
	19/1/2024	Cloudy	7:22	2.4	1.2	21.27		9.57		30.80		90.80		6.62		4.09		2.6		2.6	
			7:23	2.4	1.2	21.49	21.38	9.55	9.56	30.79	30.80	88.10	89.45	6.59	6.61	4.69	4.39	2.9			
	22/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	24/1/2024	Strong wind	WQM was cancelled due to adverse weather																		
	26/1/2024	Cloudy	12:42	2.6	1.3	16.79		7.75		32.49		84.00		6.77		2.84		2.2		2.3	
			12:43	2.6	1.3	16.90	16.85	7.79	7.77	32.60	32.55	82.20	83.10	6.57	6.67	2.67	2.76	2.4			
	29/1/2024	Cloudy	15:15	2.7	1.4	17.66		7.93		32.68		87.10		6.90		4.47		6.8		6.8	
			15:16	2.7	1.4	17.70	17.68	8.04	7.99	32.79	32.74	85.80	86.45	6.77	6.84	4.34	4.41	6.8			
	31/1/2024	Cloudy	15:15	2.6	1.3	19.36		7.79		31.94		83.40		6.54		4.73		5.4		5.2	
			15:16	2.6	1.3	19.20	19.28	7.80	7.80	31.86	31.90	82.80	83.10	6.49	6.52	4.96	4.85	5.0			

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.



## Impact Water Quality Monitoring at Station SR6 (Middle) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
						WQM was cancelled due to adverse weather															
SR6	2/1/2024	Fine	11:37	2.5	1.3	20.67		7.99		31.87		87.30		6.64		7.52		3.2		3.2	
			11:38	2.5	1.3	20.51	20.59	7.98	7.99	31.94	31.91	91.30	89.30	6.95	6.80	7.62	7.57	3.2			
	4/1/2024	Fine	12:12	2.4	1.2	20.19		9.60		31.37		81.60		6.37		4.33		3.8		3.6	
			12:13	2.4	1.2	20.20	20.20	9.59	9.60	31.26	31.32	80.80	81.20	6.29	6.33	4.25	4.29	3.4			
	6/1/2024	Fine	13:28	2.7	1.4	20.41		7.71		31.41		85.70		6.65		3.23		3.1		3.3	
			13:29	2.7	1.4	20.39	20.40	7.67	7.69	31.30	31.36	85.30	85.50	6.62	6.64	3.57	3.40	3.5			
	8/1/2024	Cloudy	14:31	2.6	1.3	20.87		8.79		31.43		86.90		6.55		3.84		2.6		2.8	
			14:32	2.6	1.3	20.96	20.92	8.81	8.80	31.50	31.47	88.10	87.50	6.66	6.61	3.97	3.91	3.0			
	10/1/2024	Fine	15:52	2.5	1.3	20.87		8.27		31.27		89.10		6.80		3.27		4.6		4.5	
			15:53	2.5	1.3	20.95	20.91	8.36	8.32	31.13	31.20	90.80	89.95	6.99	6.85	3.39	3.39	4.4			
	12/1/2024	Fine	8:00	2.5	1.3	20.52		8.45		31.36		83.90		6.49		5.37		2.5		2.6	
			8:01	2.5	1.3	20.49	20.51	8.50	8.48	31.10	31.23	86.90	85.40	6.63	6.56	5.54	5.46	2.6			
	15/1/2024	Fine	9:44	2.4	1.2	20.42		9.47		31.59		85.10		6.48		4.83		3.9		3.7	
			9:45	2.4	1.2	20.30	20.36	9.53	9.50	31.64	31.62	88.40	86.75	6.74	6.61	4.61	4.72	3.5			
	17/1/2024	Cloudy	11:15	2.5	1.3	20.34		9.78		31.19		88.20		6.75		6.04		3.8		3.7	
			11:16	2.5	1.3	20.30	20.32	9.87	9.83	31.06	31.13	84.50	86.35	6.53	6.64	6.33	6.19	3.5			
	19/1/2024	Cloudy	12:27	2.6	1.3	21.30		10.21		31.24		88.70		6.65		3.98		2.1		2.2	
			12:28	2.6	1.3	21.34	21.32	10.19	10.20	31.03	31.14	91.90	90.30	6.75	6.70	3.83	3.91	2.2			
	22/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	24/1/2024	Strong wind	WQM was cancelled due to adverse weather																		
	26/1/2024	Cloudy	7:41	2.3	1.2	16.50		7.80		32.80		85.10		6.92		3.62		3.4		3.3	
			7:42	2.3	1.2	16.77	16.64	7.82	7.86	32.76	32.78	86.40	85.25	6.94	6.83	3.47	3.55	3.2			
	29/1/2024	Cloudy	15:15	3.7	1.9	17.66		7.93		32.68		87.10		6.90		4.47		2.5		2.9	
			15:16	3.7	1.9	17.70	17.68	8.04	7.99	32.79	32.74	85.80	86.45	6.77	6.84	4.34	4.41	3.0			
	31/1/2024	Cloudy	9:32	2.4	1.2	19.56		7.90		32.65		85.40		6.74		3.76		3.7		3.9	
			9:33	2.4	1.2	19.66	19.61	7.80	7.85	32.54	32.60	83.50	84.45	6.62	6.68	3.65	3.71	4.0			

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.



## Impact Water Quality Monitoring at Station SR9 (surface) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
SR9	2/1/2024	Fine	15:47	4.2	1.0	20.57		7.84		31.57	31.62	86.10	86.25	6.45	6.39	7.28	7.37	4.5	4.5		
			15:48	4.2	1.0	20.68	20.63	7.76	7.80	31.67	31.62	86.40	86.25	6.33	6.39	7.46	7.37	4.4	4.4		
	4/1/2024	Fine	18:07	4.3	1.0	20.19		8.35		31.17	31.21	88.00	86.70	6.91	6.80	5.64	5.81	6.2	6.4		
			18:08	4.3	1.0	20.02	20.11	8.25	8.30	31.24	31.21	85.40	86.70	6.69	6.80	5.98	5.81	6.5	6.4		
	6/1/2024	Fine	8:02	3.9	1.0	20.18		7.47		31.30	31.32	83.40	83.00	6.34	6.31	3.02	3.10	3.2	3.1		
			8:03	3.9	1.0	20.35	20.27	7.57	7.52	31.34	31.32	82.60	83.00	6.27	6.31	3.18	3.10	3.0	3.0		
	8/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	10/1/2024	Fine	11:26	3.7	1.0	20.69		7.36		31.09	31.04	90.80	88.70	6.86	6.73	3.99	3.94	5.4	5.6		
			11:27	3.7	1.0	20.70	20.70	7.25	7.31	30.98	31.04	86.60	88.70	6.60	6.73	3.88	3.94	5.8	5.6		
	12/1/2024	Fine	12:37	4.1	1.0	20.31		9.57		31.09	31.13	88.00	86.40	6.91	6.84	5.76	5.60	3.2	3.3		
			12:38	4.1	1.0	20.91	20.61	9.62	9.60	31.17	31.13	84.80	86.40	6.76	6.84	5.43	5.60	3.4	3.3		
	15/1/2024	Fine	15:12	4.3	1.0	20.48		8.59		31.17	31.10	88.30	89.40	6.71	6.78	5.73	5.68	3.2	3.0		
			15:13	4.3	1.0	20.37	20.43	8.61	8.60	31.02	31.10	90.50	89.40	6.84	6.78	5.63	5.68	2.8	2.8		
	17/1/2024	Cloudy	16:56	4.3	1.0	20.37		9.63		30.92	30.87	83.70	84.95	6.41	6.54	4.83	4.76	3.5	3.3		
			16:57	4.3	1.0	20.30	20.34	9.74	9.69	30.81	30.87	86.20	84.95	6.66	6.54	4.68	4.76	3.1	3.3		
	19/1/2024	Cloudy	7:38	3.8	1.0	21.27		9.25		31.27	31.22	88.10	87.65	6.68	6.66	4.73	4.79	3.2	3.4		
			7:39	3.8	1.0	21.16	21.22	9.16	9.21	31.17	31.22	87.20	87.65	6.63	6.66	4.84	4.79	3.5	3.4		
	22/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	24/1/2024	Strong wind	WQM was cancelled due to adverse weather																		
	26/1/2024	Cloudy	12:27	4.3	1.0	17.38		7.84		31.68	31.77	80.10	79.70	6.36	6.33	2.80	2.73	2.1	2.2		
12:28			4.3	1.0	17.43	17.41	7.72	7.78	31.85	31.77	79.30	79.70	6.29	6.33	2.66	2.73	2.2	2.2			
29/1/2024	Cloudy	15:01	4.3	1.0	17.56		7.93		32.40	32.35	84.40	85.55	6.69	6.82	2.27	2.15	9.6	9.8			
		15:02	4.3	1.0	17.59	17.58	7.98	7.96	32.29	32.35	86.70	85.55	6.95	6.82	2.02	2.15	10.0	9.8			
31/1/2024	Cloudy	15:01	4.1	1.0	19.40		8.01		32.20	32.19	84.60	85.25	6.67	6.75	4.17	4.13	6.4	6.2			
		15:02	4.1	1.0	19.32	19.36	7.90	7.96	32.18	32.19	85.90	85.25	6.82	6.75	4.08	4.13	6.0	6.2			

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.



## Impact Water Quality Monitoring at Station SR9 (surface) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
SR9	2/1/2024	Fine	11:52	3.9	1.0	20.74		7.81		31.69	31.75	87.50	89.00	6.66	6.72	5.61	5.70	4.2	4.1		
			11:53	3.9	1.0	20.65	20.70	7.90	7.86	31.81	31.75	90.50	89.00	6.78	6.72	5.78	5.70	3.9	4.1		
	4/1/2024	Fine	12:27	4.0	1.0	19.95		8.37		31.24	31.28	82.80	83.20	6.34	6.38	6.73	6.80	4.7	4.6		
			12:28	4.0	1.0	19.98	19.97	8.35	8.36	31.32	31.28	83.60	83.20	6.41	6.38	6.86	6.80	4.4	4.6		
	6/1/2024	Fine	13:14	4.1	1.0	20.19		7.74		31.36	31.40	82.90	83.20	6.32	6.35	3.65	3.76	3.2	3.3		
			13:15	4.1	1.0	20.40	20.30	7.78	7.76	31.44	31.40	83.50	83.20	6.38	6.35	3.86	3.76	3.4	3.3		
	8/1/2024	Cloudy	14:16	4.1	1.0	21.29		8.80		31.89	31.91	89.30	90.90	6.64	6.76	5.67	5.56	2.8	2.7		
			14:17	4.1	1.0	21.40	21.35	8.76	8.78	31.93	31.91	92.50	90.90	6.88	6.76	5.45	5.56	2.6	2.7		
	10/1/2024	Fine	15:38	3.9	1.0	21.07		8.33		31.37	31.30	86.70	88.20	6.54	6.66	3.57	3.43	3.0	3.0		
			15:39	3.9	1.0	20.95	21.01	8.40	8.37	31.23	31.30	89.70	88.20	6.78	6.66	3.29	3.43	3.0	3.0		
	12/1/2024	Fine	8:15	3.8	1.0	20.57		8.48		31.22	31.22	90.70	90.05	6.79	6.76	6.07	6.10	3.5	3.7		
			8:16	3.8	1.0	20.46	20.52	8.55	8.52	31.21	31.22	89.40	90.05	6.73	6.76	6.13	6.10	3.5	3.7		
	15/1/2024	Fine	9:59	3.8	1.0	20.21		9.49		31.40	31.39	87.50	88.85	6.69	6.79	4.37	4.30	3.0	2.9		
			10:00	3.8	1.0	20.14	20.18	9.63	9.56	31.38	31.39	90.20	88.85	6.89	6.79	4.22	4.30	2.8	2.9		
	17/1/2024	Cloudy	11:30	4.0	1.0	20.50		9.54		31.12	31.07	90.30	90.85	6.87	6.89	5.24	5.31	3.4	3.6		
			11:31	4.0	1.0	20.52	20.51	9.63	9.59	31.01	31.07	91.40	90.85	6.91	6.89	5.37	5.31	3.8	3.6		
	19/1/2024	Cloudy	12:12	4.0	1.0	21.34		10.25		30.84	30.80	88.40	89.80	6.66	6.68	4.23	4.13	2.9	2.8		
			12:13	4.0	1.0	21.23	21.29	10.17	10.21	30.76	30.80	91.20	89.80	6.70	6.68	4.03	4.13	2.7	2.8		
	22/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	24/1/2024	Strong wind	WQM was cancelled due to adverse weather																		
26/1/2024	Cloudy	7:57	3.9	1.0	17.32		7.85		31.80	31.86	82.10	81.65	6.64	6.61	2.92	2.88	2.9	2.8			
		7:58	3.9	1.0	17.29	17.31	7.75	7.80	31.92	31.86	81.20	81.65	6.58	6.61	2.83	2.88	2.6	2.8			
29/1/2024	Cloudy	9:00	3.9	1.0	17.56		7.80		32.59	32.60	81.30	81.85	6.49	6.52	2.99	2.94	6.6	6.4			
		9:01	3.9	1.0	17.65	17.61	7.95	7.88	32.61	32.60	82.40	81.85	6.55	6.52	2.89	2.94	6.1	6.4			
31/1/2024	Cloudy	9:47	3.8	1.0	19.67		7.80		32.74	32.70	88.40	88.65	6.71	6.74	5.02	5.00	3.6	3.8			
		9:48	3.8	1.0	19.50	19.59	7.77	7.79	32.66	32.70	88.90	88.65	6.76	6.74	4.97	5.00	4.0	3.8			

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.





## Impact Water Quality Monitoring at Station SR9 (Bottom) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
SR9	2/1/2024	Fine	15:50	4.2	3.2	20.65		7.88	7.87	31.89	31.85	88.80	89.85	6.70	6.73	6.57	6.48	3.6	3.8		
			15:51	4.2	3.2	20.60	20.63	7.86		31.80		90.90		6.76		6.38		3.9			
	4/1/2024	Fine	18:10	4.3	3.3	20.19	20.23	8.17	8.20	31.36	31.31	85.90	84.85	6.78	6.69	6.02	6.00	5.5	5.3		
			18:11	4.3	3.3	20.27		8.22		31.25		83.80		6.60		5.97		5.1			
	6/1/2024	Fine	8:04	3.9	2.9	20.37	20.34	7.72	7.70	31.63	31.60	81.90	82.35	6.24	6.28	4.10	4.06	4.4	4.2		
			8:05	3.9	2.9	20.30		7.68		31.56		82.80		6.31		4.02		3.9			
	8/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	10/1/2024	Fine	11:28	3.7	2.7	20.88	20.83	7.20	7.19	31.09	31.17	86.60	88.10	6.54	6.63	3.85	3.91	2.7	2.9		
			11:29	3.7	2.7	20.78		7.17		31.24		89.60		6.72		3.97		3.0			
	12/1/2024	Fine	12:40	4.1	3.1	20.39	20.39	9.57	9.62	31.29	31.27	85.40	82.90	6.69	6.56	5.89	5.99	2.8	2.7		
			12:41	4.1	3.3	20.38		9.67		31.24		80.40		6.42		6.09		2.6			
	15/1/2024	Fine	15:15	4.3	3.3	20.41	20.35	8.38	8.38	31.40	31.33	83.60	85.25	6.38	6.57	4.81	4.87	4.6	4.5		
			15:16	4.3	3.3	20.29		8.37		31.25		86.90		6.76		4.93		4.3			
	17/1/2024	Cloudy	16:58	4.3	3.3	20.21	20.25	9.70	9.72	30.90	30.95	86.10	87.55	6.59	6.69	4.18	4.24	2.4	2.5		
			16:59	4.3	3.3	20.28		9.73		30.99		89.00		6.78		4.30		2.6			
	19/1/2024	Cloudy	7:40	3.8	2.8	21.07	21.13	9.17	9.11	30.84	30.93	85.40	86.15	6.51	6.56	4.99	5.01	1.7	1.8		
			7:41	3.8	2.8	21.19		9.05		31.01		86.90		6.61		5.02		1.9			
	22/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	24/1/2024	Strong wind	WQM was cancelled due to adverse weather																		
	26/1/2024	Cloudy	12:30	4.3	3.3	17.32	17.29	7.70	7.83	31.43	31.41	78.20	78.45	6.20	6.22	3.88	3.92	2.5	2.6		
12:31			4.3	3.3	17.25		7.95		31.39		78.70		6.24		3.95		2.7				
29/1/2024	Cloudy	15:04	4.3	3.3	17.71	17.65	7.95	7.93	32.30	32.30	82.30	81.60	6.54	6.48	3.24	3.27	8.4	8.2			
		15:05	4.3	3.3	17.59		7.90		32.29		80.90		6.42		3.29		8.0				
31/1/2024	Cloudy	15:04	4.1	3.1	19.42	19.40	7.82	7.84	32.25	32.21	86.70	87.00	6.85	6.86	5.13	5.20	6.0	5.4			
		15:05	4.1	3.1	19.37		7.86		32.17		87.30		6.87		5.27		4.8				

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.



## Impact Water Quality Monitoring at Station SR9 (Bottom) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
SR9	2/1/2024	Fine	11:54	3.9	2.9	20.60	20.56	7.94	7.95	31.34	31.44	83.30	85.10	6.33	6.48	6.66	6.55	5.2	5.3		
			11:55	3.9	2.9	20.51		7.95		31.53		86.90		6.63		6.43		5.4			
	4/1/2024	Fine	12:30	4.0	3.0	19.99	20.01	8.57	8.59	30.87	30.90	83.80	82.90	6.49	6.44	6.22	6.16	5.3	5.5		
			12:31	4.0	3.0	20.02		8.60		30.93		82.00		6.39		6.09		5.7			
	6/1/2024	Fine	13:17	4.1	3.1	20.51	20.44	7.85	7.85	31.69	31.72	82.80	81.65	6.34	6.26	3.87	3.94	5.0	4.8		
			13:18	4.1	3.1	20.36		7.85		31.74		80.50		6.18		4.00		4.6			
	8/1/2024	Cloudy	14:19	4.1	3.1	21.18	21.19	8.86	8.86	31.96	31.93	87.90	88.25	6.61	6.67	4.58	4.66	4.8	4.7		
			14:20	4.1	3.1	21.20		8.85		31.90		88.60		6.72		4.74		4.5			
	10/1/2024	Fine	15:40	3.9	2.9	20.79	20.82	8.32	8.34	31.37	31.39	85.00	83.65	6.49	6.36	3.56	3.68	4.0	3.9		
			15:41	3.9	2.9	20.84		8.35		31.40		82.30		6.23		3.80		3.7			
	12/1/2024	Fine	8:17	3.8	2.8	20.49	20.50	8.64	8.61	31.43	31.48	90.20	89.70	6.64	6.52	6.19	6.34	3.1	3.0		
			8:18	3.8	2.8	20.50		8.57		31.52		89.20		6.59		6.48		2.8			
	15/1/2024	Fine	10:01	3.8	2.8	20.27	20.31	9.70	9.71	31.19	31.26	88.00	86.05	6.72	6.59	4.53	4.60	4.2	4.0		
			10:02	3.8	2.8	20.34		9.72		31.32		84.10		6.46		4.67		3.8			
	17/1/2024	Cloudy	11:32	4.0	3.0	20.50	20.49	9.69	9.58	31.03	31.06	89.00	87.45	6.77	6.68	5.18	5.14	2.7	2.9		
			11:33	4.0	3.0	20.47		9.47		31.09		85.90		6.58		5.09		3.0			
	19/1/2024	Cloudy	12:15	4.0	3.0	21.15	21.18	10.21	10.24	30.90	30.84	86.30	88.10	6.58	6.65	3.37	3.47	3.5	3.4		
			12:16	4.0	3.0	21.21		10.27		30.78		89.90		6.71		3.56		3.2			
	22/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	24/1/2024	Strong wind	WQM was cancelled due to adverse weather																		
26/1/2024	Cloudy	7:59	3.9	2.9	17.28	17.31	7.78	7.81	32.42	32.40	77.00	77.85	6.17	6.27	2.55	2.60	2.4	2.3			
		8:00	3.9	2.9	17.34		7.84		32.38		78.70		6.36		2.64		2.1				
29/1/2024	Cloudy	9:02	3.9	2.9	17.66	17.67	7.90	7.93	32.60	32.62	82.70	82.15	6.52	6.55	3.42	3.54	4.0	3.9			
		9:03	3.9	2.9	17.67		7.95		32.63		81.60		6.52		3.65		3.8				
31/1/2024	Cloudy	9:49	3.8	2.8	19.62	19.56	7.76	7.75	32.37	32.44	91.60	90.85	6.99	6.94	4.98	5.04	4.3	4.4			
		9:50	3.8	2.8	19.49		7.74		32.51		90.10		6.88		5.09		4.5				

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.



## Impact Water Quality Monitoring at Station SR10 (Middle) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
						WQM was cancelled due to adverse weather															
SR10	2/1/2024	Fine	15:38	2.6	1.3	20.38		7.57	7.54	31.27	31.29	81.50	6.20	6.98	7.02	4.6	4.5				
			15:39	2.6	1.3	20.54	20.46	7.50	7.50	31.30		85.40	83.45	6.51	6.36	7.05	4.3				
			17:57	2.8	1.4	20.37	20.33	8.29	8.29	31.09	31.15	82.20	84.95	6.49	6.67	5.86	5.80	4.6	4.8		
	4/1/2024	Fine	17:58	2.8	1.4	20.28		8.28		31.21		87.70		6.85		5.73		5.0			
			8:10	2.5	1.3	20.41	20.34	7.55	7.58	31.04	31.16	84.70	84.95	6.55	6.57	3.56	3.66	2.4	2.5		
	6/1/2024	Fine	8:11	2.5	1.3	20.26		7.61		31.27		85.20		6.59		3.76		2.6			
			8/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																
	10/1/2024	Fine	11:34	2.4	1.2	20.81		7.65	7.64	31.10	31.11	81.60	82.40	6.25	6.29	3.27	3.21	1.6	1.7		
			11:35	2.4	1.2	20.68	20.75	7.63	7.63	31.11		83.20		6.33		3.15		1.8			
	12/1/2024	Fine	12:28	2.7	1.4	20.57		9.58	9.53	31.81	31.77	83.90	84.05	6.60	6.69	5.21	5.29	2.4	2.3		
			12:29	2.7	1.4	20.61	20.59	9.47	9.47	31.72		84.20		6.77		5.36		2.2			
	15/1/2024	Fine	15:03	2.8	1.4	20.67		8.47	8.42	31.27	31.21	83.70	85.50	6.37	6.57	4.66	4.57	3.6	3.5		
			15:04	2.7	1.4	20.53	20.60	8.36	8.36	31.14		87.30		6.77		4.47		3.4			
	17/1/2024	Cloudy	16:48	2.8	1.4	20.23		9.62	9.60	30.73	30.71	89.50	87.90	6.90	6.76	4.08	4.10	2.4	2.3		
			16:49	2.8	1.4	20.18	20.21	9.57	9.57	30.68		86.30		6.82		4.12		2.2			
	19/1/2024	Cloudy	7:48	2.5	1.3	21.37		9.18	9.22	31.04	30.98	84.10	83.90	6.37	6.36	4.18	4.10	2.8	3.0		
			7:49	2.5	1.3	21.22	21.29	9.26	9.26	30.91		83.70		6.35		4.01		3.1			
	22/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	24/1/2024	Strong wind	WQM was cancelled due to adverse weather																		
	26/1/2024	Cloudy	12:18	2.7	1.4	17.24		7.73	7.70	31.89	31.82	83.50	82.80	6.66	6.61	3.59	3.54	1.9	1.8		
12:19			2.7	1.4	17.05	17.15	7.67	7.67	31.74		82.10		6.56		3.48		1.7				
29/1/2024	Cloudy	14:53	2.6	1.3	17.52		7.96	7.95	32.17	32.27	82.90	83.70	6.62	6.68	3.17	3.11	6.1	6.2			
		14:54	2.6	1.3	17.46	17.49	7.93	7.93	32.36		84.50		6.73		3.04		6.3				
31/1/2024	Cloudy	14:52	2.7	1.4	19.56		7.81	7.80	32.24	32.32	79.60	79.50	6.34	6.34	3.84	3.80	4.4	4.2			
		14:53	2.7	1.4	19.68	19.62	7.79	7.79	32.40		79.40		6.33		3.76		4.0				

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.



## Impact Water Quality Monitoring at Station SR10 (Middle) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
						WQM was cancelled due to adverse weather															
SR10	2/1/2024	Fine	12:00	2.4	1.2	20.73		7.81	7.79	31.52	31.61	82.20	83.70	6.23	6.34	7.80	7.71	4.5	4.3		
			12:01	2.4	1.2	20.59	20.66	7.76	7.76	31.70		85.20		6.44		7.62		4.1			
	4/1/2024	Fine	12:35	2.5	1.3	20.21		8.33	8.35	31.31	31.31	80.50	82.05	6.18	6.24	5.97	6.03	4.8	4.7		
			12:36	2.5	1.3	20.00	20.11	8.36	8.36	31.30		83.60		6.30		6.09		4.5			
	6/1/2024	Fine	13:05	2.7	1.4	20.37		7.67	7.71	31.24	31.18	82.80	83.20	6.34	6.38	3.89	3.94	3.4	3.2		
			13:06	2.7	1.4	20.26	20.32	7.74	7.74	31.11		83.60		6.42		3.99		3.0			
	8/1/2024	Cloudy	14:07	2.5	1.3	21.18		8.68	8.69	31.40	31.47	89.10	90.50	6.66	6.73	4.85	4.78	4.0	4.2		
			14:08	2.5	1.3	21.08	21.13	8.70	8.70	31.54		91.90		6.79		4.71		4.3			
	10/1/2024	Fine	15:28	2.5	1.3	20.99		8.48	8.45	31.40	31.39	86.80	86.70	6.55	6.57	4.37	4.26	2.4	2.5		
			15:29	2.5	1.3	21.11	21.05	8.42	8.42	31.37		86.60		6.60		4.15		2.5			
	12/1/2024	Fine	8:23	2.5	1.3	20.37		8.67	8.69	31.73	31.66	87.60	88.35	6.57	6.66	5.47	5.34	2.7	2.9		
			8:24	2.5	1.3	20.44	20.41	8.70	8.70	31.58		89.10		6.75		5.21		3.0			
	15/1/2024	Fine	10:07	2.4	1.2	20.35		9.64	9.61	31.50	31.56	87.00	88.60	6.65	6.75	5.09	5.00	2.8	2.6		
			10:08	2.4	1.2	20.30	20.33	9.57	9.57	31.61		90.20		6.85		4.90		2.4			
	17/1/2024	Cloudy	11:38	2.6	1.3	20.49		9.60	9.59	30.63	30.58	89.10	88.75	6.78	6.75	4.37	4.28	2.1	2.2		
			11:39	2.6	1.3	20.45	20.47	9.57	9.57	30.52		88.40		6.72		4.19		2.3			
	19/1/2024	Cloudy	12:03	2.6	1.3	21.36		10.19	10.11	31.12	31.20	89.30	90.25	6.68	6.72	3.37	3.27	3.3	3.4		
			12:04	2.6	1.3	21.20	21.28	10.02	10.02	31.27		91.20		6.75		3.16		3.5			
	22/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	24/1/2024	Strong wind	WQM was cancelled due to adverse weather																		
26/1/2024	Cloudy	8:05	2.4	1.2	17.38		7.79	7.75	31.25	31.30	75.00	76.15	6.02	6.12	3.55	3.34	1.7	1.8			
		8:06	2.4	1.2	17.27	17.33	7.71	7.71	31.36		77.20		6.22		3.13		1.9				
29/1/2024	Cloudy	9:08	2.4	1.2	17.62		7.91	7.94	31.89	31.88	86.60	86.00	6.86	6.80	3.74	3.68	5.2	5.0			
		9:09	2.4	1.2	17.57	17.60	7.96	7.96	31.87		85.40		6.74		3.62		4.7				
31/1/2024	Cloudy	9:56	2.4	1.2	19.40		7.74	7.72	32.40	32.32	88.70	88.20	6.75	6.71	4.73	4.80	3.4	3.5			
		9:57	2.4	1.2	19.46	19.43	7.70	7.70	32.23		87.70		6.67		4.86		3.6				

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.



## Impact Water Quality Monitoring at Station SR12 (Middle) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
SR12	2/1/2024	Fine	15:33	2.7	1.4	20.29				7.48	7.51	31.80	31.77	82.90	84.70	6.33	6.45	6.49	6.33	5.0	5.2
			15:34	2.7	1.4	20.31	20.30	7.53		31.74		86.50		6.57		6.17		6.33		5.4	
	4/1/2024	Fine	17:51	2.8	1.4	20.45	20.56	8.47	8.49	31.25	31.31	83.90	84.75	6.61	6.68	5.09	5.13	5.0	5.0	4.9	4.9
			17:52	2.8	1.4	20.67		8.50		31.37		85.70		6.75		5.17		4.5			
	6/1/2024	Fine	8:15	2.6	1.3	20.17	20.19	7.77	7.81	31.11	31.21	83.30	84.00	6.42	6.46	3.32	3.46	2.8	2.8	3.0	3.0
			8:16	2.6	1.3	20.21		7.84		31.31		84.70		6.50		3.59		3.2			
	8/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	10/1/2024	Fine	11:39	2.5	1.3	20.82	20.78	7.23	7.31	31.29	31.32	85.00	86.80	6.43	6.58	2.94	3.01	<1.0	<1.0	1.0	1.0
			11:40	2.5	1.3	20.74		7.38		31.34		88.60		6.72		3.08		<1.0			
	12/1/2024	Fine	12:21	2.7	1.4	20.57	20.49	9.67	9.74	31.65	31.61	87.10	86.40	6.85	6.80	5.09	4.99	2.4	2.4	2.4	2.4
			12:22	2.7	1.3	20.40		9.80		31.56		85.70		6.75		4.89		2.3			
	15/1/2024	Fine	14:58	2.7	1.3	20.42	20.37	8.68	8.70	31.55	31.62	86.70	85.40	6.57	6.48	4.28	4.14	4.3	4.3	4.2	4.2
			14:59	2.6	1.3	20.32		8.72		31.69		84.10		6.38		3.99		4.1			
	17/1/2024	Cloudy	16:44	2.7	1.4	20.32	20.37	9.39	9.44	30.42	30.50	86.10	88.20	6.59	6.73	4.08	4.04	2.9	2.9	2.8	2.8
			7:52	2.4	1.2	21.40	21.40	9.48		30.57		90.30		6.97		3.99		2.5			
	19/1/2024	Cloudy	7:52	2.4	1.2	21.40	21.40	9.09		31.14		86.20		6.50		4.56		2.3	2.3	2.2	2.2
			7:53	2.4	1.2	21.39	21.40	9.13	9.11	31.25	31.20	87.00	86.60	6.55	6.53	4.62	4.59	2.1	2.1	2.2	2.2
	22/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	24/1/2024	Strong wind	WQM was cancelled due to adverse weather																		
	26/1/2024	Cloudy	12:12	2.6	1.3	17.28	17.18	7.59	7.53	32.17	32.10	77.20	78.45	6.20	6.29	4.78	4.89	1.6	1.6	1.7	1.7
			12:13	2.6	1.3	17.08		7.47		32.02		79.70		6.38		4.99		1.7			
	29/1/2024	Cloudy	14:47	2.7	1.4	17.50	17.56	7.97	7.94	32.34	32.30	79.80	78.95	6.40	6.31	3.15	3.20	7.7	7.7	7.5	7.5
			14:48	2.7	1.4	17.62		7.91		32.26		78.10		6.21		3.24		7.3			
	31/1/2024	Cloudy	14:46	2.6	1.3	19.47	19.54	7.84	7.82	32.33	32.39	85.80	86.55	6.70	6.79	4.01	3.96	3.1	3.1	3.3	3.3
14:47			2.6	1.3	19.60		7.80		32.45		87.30		6.87		3.90		3.4				

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.



## Impact Water Quality Monitoring at Station SR12 (Middle) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
SR12	2/1/2024	Fine	12:06	2.5	1.3	20.50	20.46	7.90	7.93	31.93	31.86	86.20	84.30	6.55	6.40	7.57	7.62	6.0	6.0	5.9	5.9
			12:07	2.5	1.3	20.42		7.95		31.79		82.40		6.25		6.40		5.7			
	4/1/2024	Fine	12:41	2.6	1.3	19.98	19.95	8.67	8.66	31.33	31.31	91.80	89.35	6.97	6.87	6.16	6.12	3.0	3.0	3.2	3.2
			12:42	2.6	1.3	19.91		8.65		31.29		86.90		6.77		6.07		3.4			
	6/1/2024	Fine	12:59	2.7	1.4	20.31	20.25	7.85	7.88	31.36	31.42	80.50	82.15	6.18	6.24	4.25	4.13	4.0	4.0	3.8	3.8
			13:00	2.7	1.4	20.19		7.90		31.48		83.80		6.29		4.01		3.6			
	8/1/2024	Cloudy	14:02	2.6	1.3	21.09	21.04	7.91	7.95	31.79	31.89	91.80	91.15	6.81	6.77	4.91	4.95	5.3	5.3	5.4	5.4
			14:03	2.6	1.3	20.99		7.99		31.99		90.50		6.72		4.98		5.4			
	10/1/2024	Fine	15:22	2.6	1.3	20.97	20.91	8.43	8.47	31.47	31.52	89.60	90.10	6.79	6.83	3.77	3.83	2.4	2.4	2.3	2.3
			15:23	2.6	1.3	20.84		8.50		31.56		90.60		6.96		3.89		2.2			
	12/1/2024	Fine	8:29	2.6	1.3	20.37	20.32	8.80	8.81	31.56	31.52	90.20	88.70	6.82	6.74	5.47	5.43	3.0	3.0	3.2	3.2
			8:30	2.6	1.3	20.27		8.82		31.47		87.20		6.65		5.39		3.3			
	15/1/2024	Fine	10:12	2.3	1.2	20.19	20.24	9.57	9.64	31.34	31.29	85.60	86.60	6.54	6.66	4.52	4.62	2.0	2.0	2.1	2.1
			10:13	2.3	1.2	20.28		9.70		31.24		87.60		6.77		4.72		2.2			
	17/1/2024	Cloudy	11:42	2.5	1.3	20.32	20.26	9.42	9.47	30.47	30.43	83.70	84.90	6.41	6.50	4.42	4.35	2.2	2.2	2.2	2.2
			11:43	2.5	1.3	20.20		9.51		30.39		86.10		6.59		4.28		2.1			
	19/1/2024	Cloudy	11:57	2.6	1.3	21.19	21.20	10.21	10.16	31.10	31.10	89.30	90.25	6.74	6.82	3.49	3.57	<1.0	<1.0	1.0	1.0
			11:58	2.6	1.3	21.20		10.11		31.09		91.20		6.89		3.64		<1.0			
	22/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	24/1/2024	Strong wind	WQM was cancelled due to adverse weather																		
	26/1/2024	Cloudy	8:12	2.3	1.2	17.19	17.20	7.77	7.78	32.39	32.29	81.50	81.15	6.60	6.57	4.01	4.07	2.4	2.4	2.4	2.4
			8:13	2.3	1.2	17.20		7.79		32.18		80.80		6.54		4.12		2.3			
	29/1/2024	Cloudy	9:13	2.5	1.3	17.62	17.60	7.97	7.93	32.57	32.52	83.70	82.95	6.62	6.57	2.70	2.78	4.2	4.2	4.1	4.1
			9:14	2.5	1.3	17.58		7.98		32.47		82.20		6.52		2.85		3.9			
31/1/2024	Cloudy	10:01	2.4	1.2	19.57	19.51	7.80	7.81	32.14	32.10	80.90	81.75	6.42	6.44	4.61	4.71	3.3	3.3	3.2	3.2	
		10:02	2.4	1.2	19.44		7.81		32.06		82.60		6.46		4.80		3.0				

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.



## Impact Water Quality Monitoring at Station SR15 (Middle) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG		
SR15	2/1/2024	Fine	16:26	2.7	1.4	20.31															
			16:27	2.7	1.4	20.48	20.40	7.80	7.82	31.37	31.31	83.90	84.15	6.47	6.49	7.57	7.67	5.0	5.2		
			18:47	2.8	1.4	20.29	20.23	8.09	8.07	31.34	31.31	83.70	83.55	6.61	6.59	4.17	4.21	6.8	6.7		
	4/1/2024	Fine	18:48	2.8	1.4	20.17															
			7:20	2.5	1.3	20.92	20.80	8.09	8.09	30.92	30.90	93.00	92.15	6.96	6.92	4.05	4.01	3.8	4.0		
			7:21	2.5	1.3	20.67		8.08		30.87		91.30		6.87		3.97		4.1			
	8/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	10/1/2024	Fine	10:48	2.3	1.2	21.35	21.39	7.36	7.40	31.17	31.13	94.10	93.15	6.96	6.92	3.67	3.62	2.1	2.2		
			10:49	2.3	1.2	21.42		7.44		31.08		92.20		6.87		3.56		2.2			
			13:01	2.7	1.4	20.59	20.52	9.38	9.49	31.37	31.31	83.70	84.40	6.57	6.63	7.02	7.07	2.7	2.8		
	12/1/2024	Fine	13:02	2.7	1.4	20.44															
			15:50	2.7	1.4	20.45	20.53	8.25	8.29	31.17	31.09	82.10	82.35	6.30	6.33	5.08	5.14	4.7	4.6		
			15:51	2.7	1.4	20.60		8.33		31.00		82.60		6.35		5.19		4.4			
	17/1/2024	Cloudy	17:37	2.8	1.4	20.19	20.27	9.52	9.61	30.78	30.85	91.40	90.05	6.97	6.88	5.42	5.59	2.7	2.9		
			17:38	2.8	1.4	20.35		9.69		30.92		88.70		6.78		5.75		3.0			
			6:56	2.3	1.2	21.18	21.14	9.03	9.05	30.47	30.54	89.30	81.95	6.12	6.22	3.87	3.93	1.4	1.3		
	19/1/2024	Cloudy	6:57	2.3	1.2	21.10															
			13:06	2.5	1.3	17.08	17.04	8.02	7.97	32.18	32.21	86.20	84.80	6.99	6.86	3.24	3.16	2.1	2.2		
			0:00	2.5	1.3	16.99		7.92		32.23		83.40		6.73		3.08		2.3			
	29/1/2024	Cloudy	15:37	2.8	1.4	17.80	17.77	8.03	8.01	31.48	31.50	88.50	88.20	6.99	6.97	4.95	4.91	5.9	6.1		
			15:38	2.8	1.4	17.73		7.99		31.51		87.90		6.94		4.87		6.2			
			15:42	2.6	1.3	19.39	19.32	7.73	7.76	31.62	31.59	84.00	83.85	6.59	6.57	5.94	5.89	3.6	3.8		
	31/1/2024	Cloudy	15:43	2.6	1.3	19.24															

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.



## Impact Water Quality Monitoring at Station SR15 (Middle) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG		
SR15	2/1/2024	Fine	11:11	2.5	1.3	20.38	20.44	7.74	7.78	31.27	31.29	86.70	88.55	6.87	6.77	8.57	8.65	4.9	5.1		
			11:12	2.5	1.3	20.49		7.81		31.31		90.40		6.87		8.73		5.2			
			11:47	2.4	1.2	20.51	20.50	8.45	8.42	31.25	31.18	87.70	87.10	6.49	6.45	4.67	4.62	3.9	4.1		
	4/1/2024	Fine	11:48	2.4	1.2	20.48															
			13:53	2.7	1.4	20.54	20.59	7.66	7.62	31.05	31.15	89.20	87.50	6.74	6.64	3.67	3.60	3.1	3.0		
			13:54	2.7	1.4	20.64		7.58		31.24		85.80		6.53		3.52		2.8			
	6/1/2024	Fine	14:56	2.5	1.3	20.30	20.28	8.50	8.60	31.50	31.52	85.50	87.05	6.43	6.57	4.73	4.71	4.5	4.4		
			14:57	2.5	1.3	20.26		8.69		31.54		88.60		6.70		4.68		4.2			
			16:17	2.5	1.3	20.84	20.79	8.27	8.22	31.48	31.52	82.90	82.50	6.31	6.28	4.01	4.13	4.4	4.3		
	10/1/2024	Fine	16:18	2.5	1.3	20.74															
			7:34	2.5	1.3	20.59	20.60	8.37	8.44	31.42	31.47	85.10	86.00	6.47	6.53	5.27	5.20	2.5	2.7		
			7:35	2.5	1.3	20.61		8.50		31.52		86.90		6.58		5.13		2.8			
	15/1/2024	Fine	9:19	2.3	1.2	20.18	25.27	9.37	9.46	31.52	31.49	87.20	86.55	6.60	6.54	5.37	5.25	2.4	2.3		
			9:20	2.3	1.2	30.35		9.54		31.46		85.90		6.48		5.12		2.2			
			10:49	2.5	1.3	20.35	20.38	9.59	9.68	31.27	31.23	86.10	87.35	6.59	6.67	7.09	7.19	3.2	3.4		
	17/1/2024	Cloudy	10:50	2.5	1.3	20.40															
			12:53	2.5	1.3	21.35	21.31	10.05	10.12	31.42	31.38	90.10	88.25	6.73	6.62	5.57	5.63	1.6	1.5		
			12:54	2.5	1.3	21.26		10.19		31.34		86.40		6.50		5.69		1.4			
	22/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	24/1/2024	Strong wind	WQM was cancelled due to adverse weather																		
	26/1/2024	Cloudy	7:15	2.2	1.1	17.00	16.89	7.95	7.93	32.11	32.06	85.40	85.70	6.84	6.87	3.99	3.95	2.8	2.8		
			7:16	2.2	1.1	16.78		7.90		32.01		86.00		6.89		3.90		2.8			
			15:37	2.8	1.4	17.80	17.77	8.03	8.01	31.48	31.50	88.50	88.20	6.99	6.97	4.95	4.91	3.7	3.6		
	29/1/2024	Cloudy	15:38	2.8	1.4	17.73															
9:07			2.3	1.2	19.79	19.81	7.84	7.79	32.40	32.39	90.40	91.05	6.81	6.89	4.59	4.63	3.8	3.7			
9:08			2.3	1.2	19.82		7.73		32.37		91.70		6.97		4.67		3.6				

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.



## Impact Water Quality Monitoring at Station CE (surface) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
						WGM was cancelled due to adverse weather															
CE	2/1/2024	Fine	15:20	8.7	1.0	20.37	20.30	7.81	7.86	32.00	32.01	85.00	83.20	6.48	6.37	7.60	7.60	5.4	5.6		
			15:21	8.7	1.0	20.22	20.30	7.90	7.90	32.00	32.00	81.40	83.20	6.26	6.37	7.59	7.60	5.7	5.6		
			17:40	8.8	1.0	20.18	20.28	8.41	8.43	31.46	31.52	87.60	86.50	6.88	6.79	4.57	4.47	5.2	5.2		
	4/1/2024	Fine	17:41	8.8	1.0	20.37	20.28	8.44	8.43	31.57	31.52	85.40	86.50	6.69	6.79	4.36	4.47	5.1	5.2		
			8:26	8.5	1.0	20.46	20.54	7.54	7.55	31.37	31.32	88.50	87.90	6.70	6.66	3.18	3.19	3.2	3.0		
	6/1/2024	Fine	8:27	8.5	1.0	20.61	20.54	7.56	7.55	31.27	31.32	87.30	87.90	6.62	6.66	3.20	3.19	2.8	2.8		
			WGM was cancelled due to adverse weather																		
	8/1/2024	Strong monsoon	WGM was cancelled due to adverse weather																		
	10/1/2024	Fine	11:50	8.4	1.0	20.94	20.90	7.54	7.59	31.35	31.33	89.00	90.45	6.78	6.86	3.37	3.30	2.3	2.3		
			11:51	8.4	1.0	20.85	20.90	7.63	7.63	31.31	31.33	91.90	90.45	6.94	6.86	3.22	3.30	2.2	2.3		
			12:10	8.6	1.0	20.49	20.48	9.37	9.40	31.74	31.82	81.50	81.90	6.46	6.49	4.56	4.65	2.4	2.3		
	12/1/2024	Fine	12:11	8.6	1.0	20.47	20.48	9.42	9.40	31.89	31.82	82.30	81.90	6.51	6.49	4.73	4.65	2.2	2.3		
			14:45	8.8	1.0	19.93	20.01	8.28	8.31	31.53	31.48	83.70	84.50	6.50	6.56	4.87	4.94	7.3	7.2		
	15/1/2024	Fine	14:46	8.8	1.0	20.09	20.01	8.33	8.31	31.42	31.42	85.30	84.50	6.81	6.56	5.01	5.01	7.0	7.0		
			16:30	8.7	1.0	20.50	20.54	9.99	9.60	30.52	30.47	88.40	89.85	6.90	6.87	5.08	5.12	4.2	4.4		
	17/1/2024	Cloudy	16:31	8.7	1.0	20.58	20.54	9.61	9.60	30.41	30.47	91.30	89.85	6.94	6.87	5.15	5.12	4.6	4.4		
			8:03	8.3	1.0	21.60	21.44	9.18	9.15	30.41	30.24	88.20	87.10	6.78	6.75	5.09	5.18	2.3	2.2		
	19/1/2024	Cloudy	8:04	8.3	1.0	21.27	21.44	9.12	9.15	30.06	30.24	86.00	87.10	6.71	6.75	5.27	5.18	2.1	2.2		
			WGM was cancelled due to adverse weather																		
	22/1/2024	Strong monsoon	WGM was cancelled due to adverse weather																		
	24/1/2024	Strong wind	WGM was cancelled due to adverse weather																		
	26/1/2024	Cloudy	12:00	8.7	1.0	17.89	17.86	7.70	7.70	32.25	32.20	82.90	84.50	6.66	6.80	3.37	3.39	2.5	2.4		
			12:01	8.7	1.0	17.82	17.86	7.69	7.69	32.14	32.20	86.10	84.50	6.93	6.80	3.41	3.39	2.2	2.4		
	29/1/2024	Cloudy	14:35	8.8	1.0	18.73	18.78	8.04	8.02	32.37	32.41	81.40	82.05	6.47	6.51	5.87	5.95	11.2	10.1		
			14:36	8.8	1.0	18.82	18.78	8.00	8.02	32.45	32.41	82.70	82.05	6.55	6.51	6.02	6.17	8.9	10.1		
	31/1/2024	Cloudy	14:35	8.7	1.0	19.80	19.80	7.90	7.93	32.01	32.13	87.00	86.15	6.93	6.87	4.62	4.56	5.2	5.4		
			14:36	8.7	1.0	19.79	19.80	7.95	7.93	32.24	32.13	85.30	86.15	6.80	6.87	4.50	4.56	5.5	5.4		

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.



## Impact Water Quality Monitoring at Station CE (surface) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
						WGM was cancelled due to adverse weather															
CE	2/1/2024	Fine	12:08	8.5	1.0	20.17	20.26	7.71	7.72	31.74	31.79	81.60	83.75	6.26	6.41	7.43	7.33	3.8	3.6		
			12:09	8.5	1.0	20.35	20.26	7.73	7.73	31.84	31.79	85.90	83.75	6.96	6.41	7.23	7.33	3.4	3.6		
			12:52	8.5	1.0	20.20	20.26	8.45	8.42	31.10	31.18	86.70	86.00	6.74	6.70	4.92	4.82	2.4	2.5		
	4/1/2024	Fine	12:53	8.5	1.0	20.31	20.26	8.39	8.42	31.25	31.18	85.30	86.00	6.66	6.70	4.72	4.82	2.6	2.5		
			12:48	8.7	1.0	20.41	20.38	7.47	7.49	31.39	31.35	88.10	88.85	6.70	6.76	3.17	3.09	3.0	2.9		
	6/1/2024	Fine	12:49	8.7	1.0	20.35	20.38	7.51	7.49	31.30	31.35	89.60	88.85	6.82	6.76	3.00	3.09	2.7	2.9		
			13:50	8.5	1.0	19.60	19.72	7.85	7.80	31.55	31.52	89.10	88.60	6.88	6.88	5.50	5.56	5.1	5.0		
	8/1/2024	Cloudy	13:51	8.5	1.0	19.84	19.72	7.75	7.80	31.48	31.52	88.10	88.60	6.87	6.88	5.61	5.56	4.9	5.0		
			15:10	8.6	1.0	21.08	21.02	8.37	8.35	31.50	31.50	85.70	86.50	6.45	6.53	2.50	2.44	3.1	3.4		
	10/1/2024	Fine	15:11	8.6	1.0	20.95	21.02	8.33	8.35	31.49	31.50	87.30	86.50	6.60	6.53	2.38	2.44	3.6	3.4		
			8:41	8.4	1.0	20.27	20.31	8.42	8.45	31.69	31.66	85.20	84.40	6.40	6.32	5.09	5.21	2.7	2.8		
	12/1/2024	Fine	8:42	8.4	1.0	20.34	20.31	8.48	8.45	31.62	31.66	83.60	84.40	6.24	6.32	5.33	5.21	2.9	2.8		
			10:24	8.4	1.0	20.41	20.36	9.56	9.62	31.21	31.14	85.10	86.70	6.50	6.63	4.11	4.13	2.8	2.7		
	15/1/2024	Fine	10:25	8.4	1.0	20.30	20.36	9.67	9.61	31.07	31.07	88.30	86.70	6.75	6.75	4.15	4.15	2.5	2.5		
			11:54	8.5	1.0	20.30	20.36	9.61	9.56	30.98	30.93	88.80	87.20	6.78	6.67	5.42	5.51	2.9	3.1		
	17/1/2024	Cloudy	11:55	8.5	1.0	20.41	20.36	9.50	9.50	30.97	30.93	85.60	86.60	6.59	6.67	5.59	5.59	3.3	3.3		
			11:45	8.4	1.0	21.19	21.15	10.37	10.41	31.00	31.00	86.20	86.10	6.57	6.56	4.51	4.44	2.6	2.5		
	19/1/2024	Cloudy	11:46	8.4	1.0	21.10	21.15	10.44	10.44	30.99	31.00	86.00	86.10	6.55	6.56	4.37	4.44	2.4	2.5		
			WGM was cancelled due to adverse weather																		
	22/1/2024	Strong monsoon	WGM was cancelled due to adverse weather																		
	24/1/2024	Strong wind	WGM was cancelled due to adverse weather																		
	26/1/2024	Cloudy	8:24	8.3	1.0	17.60	17.57	7.68	7.77	33.12	33.10	82.00	84.20	6.55	6.75	3.64	3.69	3.1	3.1		
			8:25	8.3	1.0	17.53	17.57	7.85	7.85	33.08	33.10	86.40	84.20	6.94	6.75	3.74	3.69	3.0	3.1		
	29/1/2024	Cloudy	9:24	8.5	1.0	18.27	18.33	8.17	8.11	32.24	32.27	83.50	82.95	6.62	6.57	6.09	6.17	8.8	12.6		
			9:25	8.5	1.0	18.38	18.33	8.05	8.11	32.30	32.27	82.40	82.95	6.51	6.57	6.24	6.17	16.4	12.6		
	31/1/2024	Cloudy	10:13	8.4	1.0	19.64	19.61	7.85	7.91	31.98	31.99	88.20	87.85	6.97	6.95	5.41	5.35	3.7	3.9		
			10:14	8.4	1.0	19.57	19.61	7.95	7.91	31.99	31.99	87.50	87.85	6.93	6.95	5.28	5.35	4.0	3.9		

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.



## Impact Water Quality Monitoring at Station CE (Middle) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
						WGM was cancelled due to adverse weather															
CE	2/1/2024	Fine	15:24	8.7	4.4	20.96	20.56	7.94	8.96	31.57	31.52	87.10	85.40	6.67	6.54	7.37	7.28	5.0	4.8		
			15:25	8.7	4.4	20.18		7.94	8.96	31.57	31.52	83.70	85.40	6.41	6.54	7.18	7.28	4.6	4.8		
	4/1/2024	Fine	17:44	8.8	4.4	20.21	20.15	8.59	8.62	31.26	31.42	87.20	87.40	6.71	6.80	4.08	4.11	4.6	4.7		
			17:45	8.8	4.4	20.09		8.65	8.65	31.47	31.42	87.60	87.40	6.58	6.80	4.14	4.11	4.5	4.7		
	6/1/2024	Fine	8:30	8.5	4.3	20.54	20.57	7.74	7.75	31.45	31.52	86.20	85.85	6.56	6.53	2.82	2.75	3.2	3.3		
			8:31	8.5	4.3	20.60		7.75	7.75	31.59	31.52	85.50	85.85	6.49	6.53	2.67	2.75	3.4	3.3		
	8/1/2024	Strong monsoon	WGM was cancelled due to adverse weather																		
	10/1/2024	Fine	11:54	8.4	4.2	20.77	20.81	7.33	7.35	31.48	31.52	87.30	88.45	6.61	6.70	3.64	3.73	2.6	2.7		
			11:55	8.4	4.2	20.84		7.37	7.35	31.56	31.52	89.60	88.45	6.79	6.70	3.82	3.73	2.7	2.7		
	12/1/2024	Fine	12:14	8.6	4.3	20.59	20.63	9.62	9.64	31.74	31.72	82.60	83.15	6.49	6.52	4.37	4.32	2.1	2.2		
			12:15	8.6	4.3	20.67		9.65	9.64	31.70	31.72	83.70	83.15	6.55	6.52	4.27	4.32	2.2	2.2		
	15/1/2024	Fine	14:49	8.8	4.4	20.27	20.18	8.30	8.34	31.27	31.35	84.30	83.85	6.56	6.51	5.12	5.18	7.8	7.9		
			14:50	8.8	4.4	20.09		8.37	8.34	31.43	31.35	83.40	83.85	6.46	6.51	5.24	5.18	8.0	8.0		
	17/1/2024	Cloudy	16:32	8.7	4.4	20.60	20.57	9.69	9.71	30.72	30.64	82.70	84.25	6.32	6.44	4.67	4.76	3.5	3.7		
			16:33	8.7	4.4	20.53		9.73	9.73	30.55	30.64	85.80	84.25	6.56	6.44	4.85	4.76	3.6	3.7		
	19/1/2024	Cloudy	8:07	8.3	4.2	21.12	21.11	9.26	9.24	31.18	31.14	89.10	89.25	6.82	6.84	4.52	4.96	2.5	2.4		
			8:08	8.3	4.2	21.08		9.22	9.24	31.09	31.14	89.40	89.25	6.85	6.84	5.39	4.96	2.3	2.4		
	22/1/2024	Strong monsoon	WGM was cancelled due to adverse weather																		
	24/1/2024	Strong wind	WGM was cancelled due to adverse weather																		
	26/1/2024	Cloudy	12:04	8.7	4.4	17.73	17.68	7.53	7.57	31.89	31.94	77.60	79.00	6.27	6.43	3.54	3.49	2.6	2.8		
			12:05	8.7	4.4	17.59		7.60	7.57	31.99	31.94	80.40	79.00	6.59	6.43	3.44	3.49	3.0	3.0		
	29/1/2024	Cloudy	14:39	8.8	4.4	18.75	18.69	7.90	7.86	32.46	32.49	78.40	78.90	6.39	6.42	5.89	5.87	10.0	9.9		
			14:40	8.8	4.4	18.62		7.82	7.86	32.52	32.49	79.40	78.90	6.45	6.42	5.85	5.87	9.7	9.9		
	31/1/2024	Cloudy	14:39	8.7	4.4	19.84	19.85	7.99	7.97	32.37	32.31	79.80	80.30	6.34	6.37	4.53	4.45	4.0	3.9		
			14:40	8.7	4.4	19.85		7.95	7.95	32.24	32.31	80.80	80.30	6.40	6.37	4.37	4.45	3.8	3.8		

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.



## Impact Water Quality Monitoring at Station CE (Middle) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
						WGM was cancelled due to adverse weather															
CE	2/1/2024	Fine	12:12	8.5	4.3	20.28	20.35	7.90	7.93	31.70	31.69	82.80	83.35	6.42	6.46	7.69	7.81	4.6	4.5		
			12:13	8.5	4.3	20.41		7.95	7.93	31.68	31.69	83.90	83.35	6.49	6.46	7.93	7.81	4.3	4.5		
	4/1/2024	Fine	12:56	8.5	4.3	20.27	20.22	8.57	8.54	31.17	31.11	82.90	84.30	6.32	6.49	4.65	4.75	3.4	3.6		
			12:57	8.5	4.3	20.16		8.51	8.54	31.05	31.11	86.70	84.30	6.65	6.49	4.84	4.75	3.7	3.6		
	6/1/2024	Fine	12:52	8.7	4.4	20.20	20.25	7.65	7.64	31.47	31.49	86.40	86.55	6.57	6.56	2.67	2.77	2.4	2.5		
			12:53	8.7	4.4	20.29		7.62	7.64	31.51	31.49	86.70	86.55	6.54	6.56	2.86	2.77	2.6	2.5		
	8/1/2024	Cloudy	13:54	8.5	4.3	19.40	19.37	7.98	7.96	31.61	31.65	83.40	84.15	6.47	6.52	5.16	5.27	4.7	4.6		
			13:55	8.5	4.3	19.34		7.94	7.96	31.69	31.65	84.90	84.15	6.57	6.52	5.37	5.27	4.4	4.6		
	10/1/2024	Fine	15:14	8.6	4.3	20.87	20.86	8.25	8.25	31.67	31.60	89.70	90.90	6.75	6.84	2.47	2.35	2.8	2.7		
			15:15	8.6	4.3	20.85		8.25	8.25	31.52	31.60	92.10	90.90	6.92	6.84	2.22	2.35	2.6	2.7		
	12/1/2024	Fine	8:45	8.4	4.2	20.42	20.39	8.69	8.70	31.51	31.48	88.00	88.05	6.72	6.73	4.67	4.74	2.3	2.2		
			8:46	8.4	4.2	20.35		8.71	8.70	31.45	31.48	88.10	88.05	6.73	6.73	4.80	4.74	2.0	2.2		
	15/1/2024	Fine	10:28	8.4	4.2	20.33	20.36	9.80	9.77	31.60	31.55	87.50	89.25	6.66	6.79	4.03	4.13	2.1	2.2		
			10:29	8.4	4.2	20.39		9.73	9.77	31.49	31.55	91.00	89.25	6.92	6.79	4.23	4.13	2.2	2.2		
	17/1/2024	Cloudy	11:56	8.5	4.3	20.57	20.49	9.57	9.63	31.09	31.11	85.10	86.65	6.52	6.59	5.01	5.15	2.6	2.7		
			11:57	8.5	4.3	20.40		9.69	9.63	31.12	31.11	88.20	86.65	6.66	6.59	5.29	5.15	2.8	2.7		
	19/1/2024	Cloudy	11:49	8.4	4.2	21.08	21.12	10.42	10.46	31.18	31.10	87.40	89.25	6.66	6.74	4.81	4.75	3.4	3.3		
			11:50	8.4	4.2	21.15		10.50	10.46	31.02	31.10	91.10	89.25	6.82	6.74	4.68	4.75	3.1	3.3		
	22/1/2024	Strong monsoon	WGM was cancelled due to adverse weather																		
	24/1/2024	Strong wind	WGM was cancelled due to adverse weather																		
	26/1/2024	Cloudy	8:28	8.3	4.2	17.65	17.68	7.80	7.81	32.56	32.49	77.50	78.85	6.34	6.39	4.00	3.98	2.8	2.7		
			8:29	8.3	4.2	17.70		7.81	7.81	32.42	32.49	80.20	78.85	6.43	6.39	3.95	3.98	2.6	2.7		
	29/1/2024	Cloudy	9:28	8.5	4.3	18.63	18.61	7.97	8.02	32.89	32.89	84.80	86.25	6.77	6.88	4.85	4.79	17.6	12.6		
			9:29	8.5	4.3	18.59		7.96	8.02	32.88	32.89	87.70	86.25	6.99	6.88	4.73	4.79	7.5	12.6		
	31/1/2024	Cloudy	10:17	8.4	4.2	19.64	19.69	7.89	7.89	32.42	32.38	82.20	82.55	6.52	6.55	5.34	5.27	3.4	3.5		
			10:18	8.4	4.2	19.74		7.88	7.89	32.34	32.38	82.90	82.55	6.58	6.55	5.19	5.27	3.5	3.5		

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.



## Impact Water Quality Monitoring at Station CE (Bottom) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG		
						WGM was cancelled due to adverse weather															
CE	2/1/2024	Fine	15:27	8.7	7.7	20.18	20.49	7.97	7.97	31.79	31.70	84.30	83.85	6.54	6.52	6.03	6.14	4.4	4.3		
			15:28	8.7	7.7	20.81	7.97	7.97	31.79	31.70	84.30	83.85	6.54	6.52	6.03	6.14	4.4	4.3			
	4/1/2024	Fine	17:47	8.8	7.8	20.27	20.32	8.71	8.69	31.24	31.22	82.60	83.70	6.59	6.68	3.98	3.86	4.0	4.2		
			17:48	8.8	7.8	20.36	8.66	8.66	31.19	31.19	84.80	83.70	6.59	6.68	3.98	3.86	4.0	4.2			
	6/1/2024	Fine	8:33	8.5	7.5	20.55	20.46	7.72	7.76	31.49	31.55	83.90	83.30	6.43	6.40	3.25	3.14	4.1	3.9		
			8:34	8.5	7.5	20.37	7.80	7.80	31.60	31.60	82.70	83.30	6.36	6.40	3.02	3.02	3.7	3.7			
	8/1/2024	Strong monsoon	WGM was cancelled due to adverse weather																		
	10/1/2024	Fine	11:57	8.4	7.4	20.64	20.67	7.42	7.41	31.17	31.09	88.70	86.75	6.70	6.69	3.05	2.99	3.0	3.2		
			11:58	8.4	7.4	20.70	7.40	7.40	31.01	31.01	84.80	86.75	6.47	6.69	2.93	2.93	3.3	3.3			
	12/1/2024	Fine	12:17	8.6	7.6	20.81	20.74	9.89	9.81	31.62	31.61	79.10	79.65	6.19	6.21	4.08	4.14	1.7	1.9		
			12:18	8.6	7.6	20.67	9.73	9.73	31.59	31.59	80.20	79.65	6.22	6.21	4.19	4.14	2.0	2.0			
	15/1/2024	Fine	14:52	8.8	7.8	20.15	20.23	8.39	8.42	31.65	31.52	88.20	87.90	6.75	6.73	6.05	5.97	8.6	8.8		
			14:53	8.8	7.8	20.31	8.45	8.45	31.39	31.39	87.60	87.90	6.70	6.73	6.05	5.97	9.0	9.0			
	17/1/2024	Cloudy	16:34	8.7	7.7	20.69	20.63	9.80	9.76	30.78	30.70	84.10	86.60	6.62	6.70	4.77	4.68	2.8	3.0		
			16:35	8.7	7.7	20.57	9.71	9.71	30.61	30.61	89.10	86.60	6.78	6.70	4.59	4.68	3.2	3.2			
	19/1/2024	Cloudy	8:10	8.3	7.3	21.09	21.11	9.37	9.37	31.25	31.31	83.70	83.30	6.38	6.35	5.38	5.46	2.6	2.8		
			8:11	8.3	7.3	21.12	9.44	9.44	31.37	31.37	82.90	83.30	6.32	6.35	5.53	5.46	2.9	2.9			
	22/1/2024	Strong monsoon	WGM was cancelled due to adverse weather																		
	24/1/2024	Strong wind	WGM was cancelled due to adverse weather																		
	26/1/2024	Cloudy	12:07	8.7	7.7	17.59	17.50	7.48	7.54	32.02	32.10	87.10	86.15	6.98	6.90	4.17	4.13	3.6	3.8		
			12:08	8.7	7.7	17.41	7.59	7.59	32.18	32.18	85.20	86.15	6.82	6.90	4.09	4.13	4.0	4.0			
	29/1/2024	Cloudy	14:42	8.8	7.8	18.70	18.70	7.92	7.85	32.16	32.12	82.60	84.20	6.46	6.58	7.43	7.28	9.1	8.9		
			14:43	8.8	7.8	18.69	7.78	7.78	32.08	32.08	85.80	84.20	6.70	6.58	7.12	7.28	8.6	8.6			
	31/1/2024	Cloudy	14:42	8.7	7.7	19.90	19.95	7.98	8.00	32.34	32.41	84.40	83.65	6.69	6.66	4.32	4.39	3.2	3.4		
14:43			8.7	7.7	19.99	8.02	8.02	32.48	32.48	82.90	83.65	6.62	6.66	4.46	4.39	3.6	3.6				

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.



## Impact Water Quality Monitoring at Station CE (Bottom) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG		
						WGM was cancelled due to adverse weather															
CE	2/1/2024	Fine	12:15	8.5	7.5	20.24	20.29	7.91	7.89	31.53	31.48	82.70	84.15	6.43	6.49	7.03	7.12	5.4	5.2		
			12:16	8.5	7.5	20.34	7.87	7.87	31.42	31.42	85.60	84.15	6.54	6.49	7.21	7.12	5.0	5.0			
	4/1/2024	Fine	12:59	8.5	7.5	20.08	20.17	8.55	8.60	31.19	31.11	86.40	84.85	6.77	6.59	4.03	4.02	4.1	4.0		
			13:00	8.5	7.5	20.25	8.65	8.65	31.02	31.11	83.30	84.85	6.41	6.59	4.00	4.02	3.8	4.0			
	6/1/2024	Fine	12:55	8.7	7.7	20.11	20.17	7.77	7.81	31.67	31.62	83.50	83.40	6.41	6.41	3.19	3.11	2.0	2.2		
			12:56	8.7	7.7	20.23	7.84	7.84	31.56	31.62	83.30	83.40	6.40	6.41	3.02	3.11	2.3	2.2			
	8/1/2024	Cloudy	13:57	8.5	7.5	19.28	19.29	7.95	7.96	31.74	31.69	83.70	83.90	6.52	6.55	5.08	5.03	4.2	4.0		
			13:58	8.5	7.5	19.30	7.97	7.97	31.64	31.69	84.10	83.90	6.58	6.55	4.97	5.03	3.7	4.0			
	10/1/2024	Fine	15:17	8.6	7.6	20.95	20.81	8.40	8.38	31.59	31.53	88.80	88.15	6.70	6.66	2.47	2.53	2.1	2.3		
			15:18	8.6	7.6	20.67	8.36	8.36	31.46	31.53	87.50	88.15	6.62	6.66	2.58	2.53	2.4	2.4			
	12/1/2024	Fine	8:48	8.4	7.4	20.30	20.34	8.72	8.77	31.50	31.56	81.60	82.85	6.26	6.30	4.89	4.96	1.8	1.7		
			8:49	8.4	7.4	20.37	8.81	8.81	31.62	31.62	84.10	82.85	6.33	6.30	5.03	4.96	1.5	1.7			
	15/1/2024	Fine	10:31	8.4	7.4	20.41	20.38	9.79	9.80	31.64	31.62	89.60	87.25	6.89	6.73	3.94	3.97	1.6	1.6		
			10:32	8.4	7.4	20.34	9.81	9.81	31.59	31.59	84.90	87.25	6.56	6.73	4.00	3.97	1.5	1.6			
	17/1/2024	Cloudy	11:58	8.5	7.5	20.61	20.53	9.81	9.76	31.07	31.03	83.40	84.90	6.41	6.49	5.49	5.57	2.4	2.3		
			11:59	8.5	7.5	20.45	9.70	9.70	30.99	30.99	86.40	84.90	6.57	6.49	5.65	5.57	2.2	2.3			
	19/1/2024	Cloudy	11:52	8.4	7.4	21.09	21.07	10.48	10.47	31.40	31.38	84.60	86.95	6.44	6.59	4.90	4.89	3.8	3.7		
			11:53	8.4	7.4	21.05	10.45	10.45	31.35	31.35	89.30	86.95	6.74	6.59	4.88	4.89	3.6	3.7			
	22/1/2024	Strong monsoon	WGM was cancelled due to adverse weather																		
	24/1/2024	Strong wind	WGM was cancelled due to adverse weather																		
	26/1/2024	Cloudy	8:31	8.3	7.3	17.81	17.74	7.81	7.75	32.28	32.34	77.00	77.85	6.22	6.29	4.09	4.18	2.3	2.4		
			8:32	8.3	7.3	17.67	7.83	7.83	32.40	32.34	78.70	77.85	6.36	6.29	4.26	4.18	2.4	2.4			
	29/1/2024	Cloudy	9:31	8.5	7.5	18.70	18.72	7.97	8.89	32.96	32.98	81.00	82.65	6.49	6.61	6.24	6.34	14.5	14.2		
			9:32	8.5	7.5	18.73	8.80	8.80	32.99	32.98	84.30	82.65	6.73	6.61	6.43	6.34	13.9	13.9			
31/1/2024	Cloudy	10:20	8.4	7.4	19.70	19.74	7.95	7.90	32.08	32.03	80.70	80.05	6.49	6.47	4.84	4.94	3.2	3.0			
		10:21	8.4	7.4	19.78	7.84	7.84	31.98	31.98	79.40	80.05	6.45	6.47	5.03	4.94	2.7	3.0				

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.





## Impact Water Quality Monitoring at Station CF (surface) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L					
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG		
CF	2/1/2024	Fine	16:44	8.7	1.0	20.31		7.84		31.30		86.89		6.89		7.50		5.4		5.3			
			16:45	8.7	1.0	20.25	20.28	7.83	7.83	31.67	31.69	86.50	86.40	6.70	6.70	7.57	7.57	5.2					
			19:07	8.8	1.0	20.56	20.60	7.67	7.62	31.21	31.14	82.80	84.20	6.38	6.46	4.01	4.05	3.4		3.2			
	4/1/2024	Fine	19:08	8.8	1.0	20.64		7.56		31.07		85.60		6.53		4.08		3.0					
			7:01	8.5	1.0	20.55	20.47	7.64	7.62	30.91	30.89	85.30	85.65	6.55	6.58	2.98	3.06	2.4		2.5			
			7:02	8.5	1.0	20.39		7.60		30.86		86.00		6.61		3.14		2.6					
	8/1/2024	Strong monsoon	WGM was cancelled due to adverse weather																				
	10/1/2024	Fine	10:28	8.3	1.0	21.18	21.24	7.40	7.39	30.93	30.99	89.70	91.15	6.73	6.85	3.47	3.50	2.4		2.5			
			10:29	8.3	1.0	21.29		7.37		31.05		92.60		6.96		3.53		2.6					
			13:20	8.6	1.0	20.99	20.91	9.31	9.23	31.20	31.20	85.90	86.45	6.54	6.60	4.80	4.85	2.4		2.6			
	12/1/2024	Fine	13:21	8.6	1.0	20.83		9.14		31.19		87.00		6.66		4.89		2.7					
			16:08	8.7	1.0	20.68	20.69	8.67	8.74	30.76	30.79	96.60	95.85	6.72	6.70	4.16	4.10	2.6		2.5			
			16:09	8.7	1.0	20.70		8.80		30.81		95.10		6.68		4.04		2.3					
	17/1/2024	Cloudy	17:55	8.7	1.0	20.40	20.38	9.40	9.43	31.39	31.43	88.60	87.10	6.74	6.64	5.97	6.03	3.2		4.0			
			17:56	8.7	1.0	20.35		9.45		31.46		85.60		6.54		6.09		4.1					
			6:38	8.4	1.0	21.80	21.76	9.31	9.42	30.95	30.90	91.00	92.00	6.82	6.86	4.27	4.41	<1.0		1.0			
	22/1/2024	Strong monsoon	WGM was cancelled due to adverse weather																				
			24/1/2024	Strong wind	WGM was cancelled due to adverse weather																		
					26/1/2024	Cloudy	13:25	8.6	1.0	17.60	17.70	7.68	7.69	31.95	31.94	87.20	87.10	6.89	6.86	3.97	4.02	2.7	
	13:26	8.6					1.0	17.80		7.70		31.92		87.00		6.82		4.07		2.5			
	15:52	8.7	1.0	18.73			18.69	8.13	8.09	32.39	32.38	89.10	87.25	6.92	6.80	6.08	5.74	7.0		7.2			
	29/1/2024	Cloudy	15:53	8.7	1.0	18.65		8.04		32.37		85.40		6.67		5.40		7.4					
			16:00	8.6	1.0	19.60	19.65	7.87	7.84	32.78	32.76	86.50	86.10	6.77	6.75	3.67	3.61	4.0		3.9			
			16:01	8.6	1.0	19.70		7.80		32.73		85.70		6.73		3.54		3.7					

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.



## Impact Water Quality Monitoring at Station CF (surface) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L				
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG			
CF	2/1/2024	Fine	9:52	8.5	1.0	20.64	20.55	8.00	7.99	31.41	31.37	92.80	92.00	6.98	6.93	6.99	6.86	5.4		5.2		
			9:53	8.5	1.0	20.45		7.97		31.32		91.20		6.98		6.73		5.0				
			11:28	8.3	1.0	22.26	22.31	8.26	8.22	29.65	29.76	83.20	83.45	6.26	6.28	4.26	4.22	2.9		2.8		
	4/1/2024	Fine	11:29	8.3	1.0	22.35		8.17		29.87		83.70		6.30		4.17		2.7				
			14:11	8.7	1.0	20.76	20.80	7.57	7.61	31.65	31.76	80.20	80.75	6.29	6.31	2.69	2.67	1.8		1.7		
			14:12	8.7	1.0	20.84		7.65		31.87		81.30		6.33		2.74		1.6				
	6/1/2024	Fine	15:15	8.6	1.0	21.31	21.26	8.82	8.81	30.91	30.88	94.20	94.05	6.99	6.98	4.53	4.64	3.9		4.1		
			15:16	8.6	1.0	21.20		8.79		30.84		93.90		6.97		4.74		4.2				
			16:36	8.5	1.0	20.87	20.90	8.27	8.32	31.08	31.12	86.70	88.30	6.57	6.68	3.80	3.39	3.2		3.1		
	10/1/2024	Fine	16:37	8.5	1.0	20.92		8.36		31.15		89.90		6.78		2.98		2.9				
			7:15	8.4	1.0	21.18	21.22	8.86	8.88	29.55	29.58	91.30	90.80	6.77	6.74	5.37	5.46	3.5		3.4		
			7:16	8.4	1.0	21.25		8.90		29.61		90.30		6.70		5.54		3.2				
	12/1/2024	Fine	9:00	8.3	1.0	20.25	20.37	8.72	8.78	30.53	30.49	83.40	82.75	6.36	6.33	5.29	5.19	2.9		3.1		
			8:3	1.0	20.48		8.83		30.45		82.10		6.30		5.08		3.2					
			10:30	8.4	1.0	20.93	20.87	8.95	8.85	31.28	31.34	86.00	87.50	6.99	6.69	6.78	6.84	4.4		4.3		
	17/1/2024	Cloudy	10:31	8.4	1.0	20.81		8.75		31.40		89.00		6.78		6.89		4.2				
			13:11	8.6	1.0	21.45	21.49	9.80	9.90	30.94	30.87	87.60	89.15	6.55	6.67	3.87	3.91	2.0		2.2		
			13:12	8.6	1.0	21.53		9.99		30.80		90.70		6.79		3.94		2.3				
	22/1/2024	Strong monsoon	WGM was cancelled due to adverse weather																			
	24/1/2024	Strong wind	WGM was cancelled due to adverse weather																			
			26/1/2024	Cloudy	6:57	8.1	1.0	17.32	17.36	8.04	8.02	31.93	31.88	88.90	87.95	6.91	6.90	3.75	3.65	3.6		3.8
					6:58	8.1	1.0	17.40		8.00		31.82		87.00		6.89		3.54		3.9		
	15:52	8.7			1.0	18.73	18.69	8.13	8.09	32.39	32.38	89.10	87.25	6.92	6.80	6.08	6.03	7.6		6.6		
	29/1/2024	Cloudy	15:53	8.7	1.0	18.65		8.04		32.37		85.40		6.67		5.97		5.6				
			8:48	8.3	1.0	19.69	19.63	7.90	7.87	32.74	32.70	89.80	89.10	6.97	6.93	5.07	5.11	3.6		3.8		
			8:49	8.3	1.0	19.57		7.83		32.65		88.40		6.88		5.15		4.0				

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.



Impact Water Quality Monitoring at Station CF (Middle) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature		pH		Salinity		DO Saturation		DO		Turbidity		SS			
						°C		-		ppt		%		mg/L		NTU		mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
CF	2/1/2024	Fine	16:48	8.7	4.4	20.47		7.98	7.95	31.78	31.74	88.30	6.88	6.92	7.03	6.99	5.0	4.8			
			16:49	8.7	4.4	20.38	20.43	7.91	7.97	31.76	31.74	88.60	6.97	6.94	6.94	6.94	4.5				
	4/1/2024	Fine	19:11	8.8	4.4	20.74	20.70	7.71	7.73	31.19	31.14	85.60	6.52	6.64	3.72	3.69	3.6	3.7			
			19:12	8.8	4.4	20.66		7.74	7.74	31.08	31.08	88.90	6.76	6.64	3.65	3.65	3.5				
	6/1/2024	Fine	7:05	8.5	4.3	20.50	20.47	7.50	7.55	31.24	31.36	86.60	6.65	6.67	3.53	3.45	3.0	3.2			
			7:06	8.5	4.3	20.43		7.59	7.59	31.48	31.36	87.00	6.68	6.68	3.37	3.37	3.3				
	8/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	10/1/2024	Fine	10:32	8.3	4.2	21.12	21.06	7.36	7.36	31.29	31.24	89.00	6.69	6.77	3.19	3.21	3.3	3.1			
			10:33	8.3	4.2	21.00		7.35	7.35	31.18	31.24	91.20	6.84	6.77	3.22	3.21	2.9				
	12/1/2024	Fine	13:24	8.6	4.3	20.50	20.58	9.28	9.24	31.48	31.51	91.00	6.77	6.81	4.66	4.60	3.0	3.2			
			13:25	8.6	4.3	20.65		9.19	9.19	31.53	31.53	93.70	6.84	6.81	4.53	4.60	3.4				
	15/1/2024	Fine	16:12	8.7	4.4	20.68	20.64	8.78	8.76	31.24	31.28	89.30	6.42	6.38	4.53	4.58	3.1	3.0			
			16:13	8.7	4.4	20.59		8.74	8.74	31.32	31.28	88.90	6.34	6.38	4.63	4.58	2.8				
	17/1/2024	Cloudy	17:57	8.7	4.4	20.18	20.24	9.59	9.48	31.37	31.33	89.00	6.72	6.66	5.07	5.12	0.6	2.5			
			17:58	8.7	4.4	20.30		9.37	9.37	31.28	31.33	86.00	6.59	6.66	5.17	5.12	4.4				
	19/1/2024	Cloudy	6:42	8.4	4.2	21.59	21.67	9.68	9.58	30.58	30.65	86.30	6.58	6.55	4.18	4.24	1.5	1.5			
			6:43	8.4	4.2	21.75		9.47	9.47	30.71	30.65	85.10	6.51	6.55	4.30	4.24	1.4	1.5			
	22/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	24/1/2024	Strong wind	WQM was cancelled due to adverse weather																		
	26/1/2024	Cloudy	13:29	8.6	4.3	17.80	17.83	7.42	7.41	31.58	31.64	84.00	6.60	6.71	4.02	4.12	2.3	2.4			
			13:30	8.6	4.3	17.85		7.39	7.39	31.70	31.64	86.20	6.81	6.81	4.21	4.21	2.4				
	29/1/2024	Cloudy	15:56	8.7	4.4	18.75	18.78	7.99	7.97	32.65	32.69	79.40	6.22	6.30	5.94	5.89	7.8	7.7			
			15:57	8.7	4.4	18.80		7.95	7.95	32.73	32.73	81.80	6.37	6.37	5.83	5.83	7.5				
	31/1/2024	Cloudy	16:04	8.6	4.3	19.72	19.72	7.85	7.84	32.57	32.60	89.00	6.86	6.79	4.12	4.07	4.6	4.4			
16:05			8.6	4.3	19.72		7.82	7.82	32.62	32.60	87.40	6.72	6.72	4.02	4.02	4.2					

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.



Impact Water Quality Monitoring at Station CF (Middle) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature		pH		Salinity		DO Saturation		DO		Turbidity		SS			
						°C		-		ppt		%		mg/L		NTU		mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
CF	2/1/2024	Fine	9:56	8.5	4.3	20.39	20.48	8.17	8.16	31.63	31.61	91.40	6.91	6.91	6.72	6.77	4.5	4.4			
			9:57	8.5	4.3	20.56		8.14	8.14	31.63	31.61	91.30	6.90	6.91	6.82	6.77	4.2				
	4/1/2024	Fine	11:32	8.3	4.2	20.34	20.29	8.54	8.55	30.02	30.06	85.90	6.39	6.42	4.25	4.29	3.0	3.2			
			11:33	8.3	4.2	20.24		8.55	8.55	30.09	30.06	86.60	6.45	6.42	4.32	4.29	3.3				
	6/1/2024	Fine	14:15	8.7	4.4	20.65	20.60	7.80	7.79	31.59	31.50	90.70	6.94	6.91	2.87	2.72	2.5	2.4			
			14:16	8.7	4.4	20.55		7.78	7.79	31.40	31.50	88.40	6.87	6.91	2.57	2.72	2.2				
	8/1/2024	Cloudy	15:19	8.6	4.3	20.93	20.95	9.09	9.12	31.24	31.20	91.20	6.81	6.84	4.95	4.85	4.5	4.7			
			15:20	8.6	4.3	20.97		9.15	9.15	31.16	31.20	92.10	6.87	6.84	4.75	4.85	4.9				
	10/1/2024	Fine	16:40	8.5	4.3	20.86	20.91	8.45	8.42	31.34	31.30	89.20	6.86	6.76	3.17	3.21	2.7	2.6			
			16:41	8.5	4.3	20.95		8.38	8.38	31.25	31.30	88.70	6.66	6.76	3.24	3.21	2.5				
	12/1/2024	Fine	7:19	8.4	4.2	20.83	20.88	8.83	8.82	31.25	31.17	90.20	6.68	6.72	5.48	5.44	2.9	2.8			
			7:20	8.4	4.2	20.92		8.80	8.80	31.09	31.17	90.80	6.75	6.72	5.40	5.44	2.6				
	15/1/2024	Fine	9:04	8.3	4.2	20.35	20.27	8.97	8.98	30.66	30.70	89.60	6.71	6.67	5.10	5.12	2.4	2.4			
			9:05	8.3	4.2	20.19		8.99	8.99	30.74	30.70	87.10	6.62	6.67	5.13	5.12	2.3				
	17/1/2024	Cloudy	10:32	8.4	4.2	20.49	20.54	9.04	9.14	31.41	31.40	85.80	6.56	6.44	6.76	6.64	4.0	3.9			
			10:33	8.4	4.2	20.58		9.24	9.24	31.39	31.40	82.70	6.32	6.44	6.52	6.64	3.7				
	19/1/2024	Cloudy	13:15	8.6	4.3	21.60	21.67	9.78	9.88	30.75	30.80	91.40	6.75	6.83	3.99	3.97	1.7	1.8			
			13:16	8.6	4.3	21.73		9.98	9.98	30.84	30.80	92.90	6.90	6.83	3.94	3.97	1.9				
	22/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	24/1/2024	Strong wind	WQM was cancelled due to adverse weather																		
	26/1/2024	Cloudy	7:01	8.1	4.1	17.39	17.37	8.12	8.07	32.25	32.20	80.60	79.80	6.53	6.54	3.60	3.66	3.4	3.0		
			7:02	8.1	4.1	17.34		8.01	8.01	32.15	32.20	79.00	6.55	6.54	3.72	3.66	2.5				
	29/1/2024	Cloudy	15:56	8.7	4.4	18.75	18.78	7.99	7.97	32.65	32.69	79.40	6.22	6.30	5.94	5.89	4.6	4.8			
			15:57	8.7	4.4	18.80		7.95	7.95	32.73	32.69	81.80	6.37	6.30	5.83	5.89	4.9				
31/1/2024	Cloudy	8:52	8.3	4.2	19.63	19.59	7.85	7.83	32.40	32.32	85.40	6.70	6.63	5.02	5.08	3.6	3.5				
		8:53	8.3	4.2	19.55		7.80	7.80	32.23	32.32	84.10	6.56	6.63	5.13	5.08	3.4					

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.



## Impact Water Quality Monitoring at Station CF (Bottom) - Ebb Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
						°C															
CF	2/1/2024	Fine	16:51	8.7	7.7	20.36	20.39	7.95	7.95	31.21	31.20	87.80	86.55	6.62	6.57	7.85	7.78	4.4	4.6		
			16:52	8.7	7.7	20.41		7.95	31.19	85.30	6.51	7.71	4.5								
	4/1/2024	Fine	19:14	8.8	7.8	20.37	20.46	7.79	7.77	31.00	31.04	87.50	88.30	6.63	6.71	3.47	3.52	4.0	4.2		
			19:15	8.8	7.8	20.54		7.76	31.08	89.10	6.79	3.57	4.4								
	6/1/2024	Fine	7:08	8.5	7.5	20.34	20.26	7.62	7.67	31.41	31.41	84.70	84.30	6.48	6.43	3.04	3.10	3.8	3.7		
			7:09	8.5	7.5	20.18		7.72	31.40	83.90	6.38	3.16	3.5								
	8/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	10/1/2024	Fine	10:35	8.3	7.3	20.97	20.91	7.72	7.63	31.42	31.40	86.30	86.80	6.49	6.59	4.26	4.26	3.9	3.8		
			10:36	8.3	7.3	20.84		7.53	31.37	88.30	6.69	4.25	3.6								
	12/1/2024	Fine	13:27	8.6	7.6	20.60	20.67	9.43	9.40	31.50	31.57	86.70	87.10	6.63	6.66	4.59	4.67	3.7	3.9		
			13:28	8.6	7.6	20.73		9.37	31.63	87.50	6.68	4.75	4.1								
	15/1/2024	Fine	16:15	8.7	7.7	20.78	20.74	8.90	8.93	31.19	31.27	86.60	87.10	6.26	6.30	4.73	4.55	3.3	3.3		
			16:16	8.7	7.7	20.70		8.96	31.34	87.60	6.34	4.37	3.2								
	17/1/2024	Cloudy	17:59	8.7	7.7	20.10	20.12	9.51	9.60	31.56	31.51	89.00	89.65	6.75	6.76	5.09	4.99	5.0	5.2		
			18:00	8.7	7.7	20.14		9.69	31.46	90.30	6.77	4.89	5.1								
	19/1/2024	Cloudy	6:45	8.4	7.4	21.69	21.59	9.66	9.75	30.88	30.92	84.40	83.95	6.46	6.43	4.37	4.47	1.7	1.7		
			6:46	8.4	7.4	21.48		9.84	30.95	83.50	6.39	4.57	1.6								
	22/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	24/1/2024	Strong wind	WQM was cancelled due to adverse weather																		
	26/1/2024	Cloudy	13:32	8.6	7.6	17.69	17.77	7.78	7.72	31.58	31.63	87.30	86.10	6.85	6.79	3.47	3.49	2.2	2.2		
13:33			8.6	7.6	17.85	7.65		31.68	84.90	6.72	3.50	2.1									
29/1/2024	Cloudy	15:59	8.7	7.7	18.73	18.80	7.93	7.92	32.68	32.71	81.70	81.40	6.38	6.37	4.85	4.80	8.2	8.3			
		16:00	8.7	7.7	18.86		7.90	32.74	81.10	6.35	4.74	8.4									
31/1/2024	Cloudy	16:07	8.6	7.6	19.80	19.86	7.76	7.75	32.49	32.51	86.20	86.40	6.55	6.58	4.04	4.01	5.2	5.0			
		16:08	8.6	7.6	19.91		7.73	32.53	86.60	6.60	3.97	4.8									

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.



## Impact Water Quality Monitoring at Station CF (Bottom) - Flood Tide

Station Reference	Sampling Date	Weather	Sampling Time	Water Depth m	Sampling Depth m	Temperature °C		pH		Salinity ppt		DO Saturation %		DO mg/L		Turbidity NTU		SS mg/L			
						Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG		
						°C															
CF	2/1/2024	Fine	9:59	8.5	7.5	20.29	20.37	8.28	8.31	31.32	31.46	88.20	89.50	6.68	6.73	6.35	6.27	3.9	2.0		
			10:00	8.5	7.5	20.44		8.33	31.59	90.80	6.78	6.19	-								
	4/1/2024	Fine	11:35	8.3	7.3	20.87	20.89	8.61	8.59	31.00	31.04	86.00	86.15	6.39	6.40	4.13	4.11	3.8	4.0		
			11:36	8.3	7.3	20.91		8.56	31.07	86.30	6.41	4.08	4.1								
	6/1/2024	Fine	14:18	8.7	7.7	20.54	20.47	7.70	7.72	31.36	31.28	80.20	79.80	6.27	6.25	3.01	3.15	3.0	2.9		
			14:19	8.7	7.7	20.39		7.73	31.20	79.40	6.23	3.29	2.7								
	8/1/2024	Cloudy	15:22	8.6	7.6	20.80	20.83	9.37	9.35	31.16	31.19	89.10	90.00	6.69	6.74	5.28	5.22	5.6	5.4		
			15:23	8.6	7.6	20.85		9.32	31.21	90.90	6.79	5.16	5.2								
	10/1/2024	Fine	16:43	8.5	7.5	20.77	20.83	8.56	8.52	31.27	31.21	86.50	85.80	6.56	6.49	3.31	3.29	2.5	2.4		
			16:44	8.5	7.5	20.88		8.47	31.15	85.10	6.41	3.27	2.2								
	12/1/2024	Fine	7:22	8.4	7.4	20.83	20.79	9.00	9.01	31.31	31.39	89.40	88.80	6.72	6.70	4.53	4.60	2.3	2.2		
			7:23	8.4	7.4	20.74		9.02	31.47	88.20	6.68	4.66	2.0								
	15/1/2024	Fine	9:07	8.3	7.3	20.42	20.37	9.16	9.22	31.12	31.06	84.50	85.55	6.44	6.53	4.68	4.58	1.7	1.8		
			9:08	8.3	7.3	20.31		9.28	31.00	86.60	6.62	4.47	1.8								
	17/1/2024	Cloudy	10:34	8.4	7.4	20.49	20.46	9.36	9.32	31.18	31.10	89.00	88.50	6.72	6.74	5.98	6.03	3.0	3.2		
			10:35	8.4	7.4	20.42		9.27	31.02	88.00	6.75	6.07	3.4								
	19/1/2024	Cloudy	13:18	8.6	7.6	21.59	21.67	9.80	9.81	30.59	30.62	87.50	88.95	6.55	6.66	4.02	4.09	1.4	1.5		
			13:19	8.6	7.6	21.74		9.82	30.64	90.40	6.77	4.15	1.6								
	22/1/2024	Strong monsoon	WQM was cancelled due to adverse weather																		
	24/1/2024	Strong wind	WQM was cancelled due to adverse weather																		
26/1/2024	Cloudy	7:04	8.1	7.1	17.25	17.18	7.82	7.88	32.40	32.37	87.60	87.70	6.98	6.99	3.77	3.70	3.2	3.1			
		7:05	8.1	7.1	17.10		7.84	32.34	87.80	6.99	3.62	2.9									
29/1/2024	Cloudy	15:59	8.7	7.7	18.73	18.80	7.93	7.92	32.68	32.71	81.70	81.90	6.38	6.38	4.85	4.80	6.8	7.3			
		16:00	8.7	7.7	18.86		7.90	32.74	82.10	6.40	4.74	7.5									
31/1/2024	Cloudy	8:55	8.3	7.3	19.46	19.50	7.74	7.72	33.16	33.24	82.40	82.10	6.51	6.49	4.02	3.98	3.1	3.2			
		8:56	8.3	7.3	19.53		7.70	33.31	81.80	6.47	3.94	3.2									

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.



***Appendix 4.5***

***Monthly Summary Waste Flow Table***

**Drainage Services Department**  
**Contract No. DC/2020/02**  
**Construction of San Shek Wan Sewage Treatment Works,**  
**Associated Submarine Outfall and Pui O Sewerage Works**

**Monthly Summary Waste Flow Table for 2024**

Month	Actual Quantities of Inert C&D Material Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated (a) (in '000m <sup>3</sup> )	Hard Rocks and Large Broken Concrete (b) (in '000m <sup>3</sup> )	Reused in the Contract (c) (in '000m <sup>3</sup> )	Reused in other Projects (d) (in '000m <sup>3</sup> )	Disposed as Public Fill (a-b-c-d) (in '000m <sup>3</sup> )	Imported Fill (in '000m <sup>3</sup> )	Metals (in '000kg)	Paper/card-board packaging (in '000kg)	Plastics [see Note 3] (in '000kg)	Chemical waste (in '000kg)	Others. e.g. general refuse (in '000kg)
<b>Jan</b>	1.68	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.00	0.00	8.63
<b>Feb</b>											
<b>Mar</b>											
<b>Apr</b>											
<b>May</b>											
<b>Jun</b>											
<b>Sub-total</b>	1.68	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.00	0.00	8.63
<b>July</b>											
<b>Aug</b>											
<b>Sept</b>											
<b>Oct</b>											
<b>Nov</b>											
<b>Dec</b>											
<b>Total</b>	1.68	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.00	0.00	8.63

- Notes:
- (1) The inert C&D material except slurry and bentonite are disposed at Mui Wo Temporary Public Fill Bank (MW-PFRF) or Tuen Mun Area 38 Fill Bank (TM38-FB)
  - (2) The slurry and bentonite are disposed at Tseung Kwan O Area 137 Fill Bank (TKO137FB)
  - (3) The non-inert waste is disposed at NENT or Outlying Islands Transfer Facilities
  - (4) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
  - (5) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
  - (6) Assume the density of fill material is 2 tonne/m<sup>3</sup>.



***Appendix 6.1***

***Three Months Rolling Programme***

## KL-CW JV

<b>Tentative Three Months Construction Rolling Program</b> <b>Contract No.: DC/2020/02</b> <b>Construction of San Shek Wan Sewage Treatment Works,</b> <b>Associated Submarine Outfall and Pui O Sewerage Works</b>	<b>Reference No. : DC/2020/02</b> <b>Revision No. : -</b>
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### Construction Activities for the reporting period

<b>Item</b>	<b>Construction Activities</b>
1	Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Pui O Beach
2	Excavation and site formation at SSWSTW and POSPS
3	HDD works at marine and SSWSTW
4	Removal works of ELS
5	ELS works
6	Superstructure RC Works



## KL-CW JV

<b>Tentative Three Months Construction Rolling Program</b> <b>Contract No.: DC/2020/02</b> <b>Construction of San Shek Wan Sewage Treatment Works,</b> <b>Associated Submarine Outfall and Pui O Sewerage Works</b>	<b>Reference No. : DC/2020/02</b> <b>Revision No. : -</b>
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### Tentative Three Months (February, March and April 2024) Construction Rolling Program

<b>Item</b>	<b>Construction Activities</b>
1	Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Pui O Beach
2	HDD works at marine and SSWSTW
3	Dredging at marine
4	Site formation works
5	Drilling works
6	Excavation works
7	ELS works
8	Superstructure RC Works
9	Removal works of ELS