



**CONTRACT NO: SD 6/2020**

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

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

**QUARTERLY ENVIRONMENTAL MONITORING & AUDIT SUMMARY REPORT**

**FEBRUARY TO APRIL 2022**  
**REVISION 2**

**CLIENTS:**

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**PREPARED BY:**

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**CERTIFIED BY:**

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Environmental Team Leader

Derek Lo

**DATE:**

29 July 2022



Member of the Surbana Jurong Group

local people  
global experience

Our ref: 7076811/L28886/AW/KL/TK/rw

29 July 2022

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By Email and Post  
(kschan04@dsd.gov.hk)

Attention: 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 Quarterly EM&A Summary Report (February 2022 – April 2022)**

With reference to the Quarterly EM&A Summary Report (February 2022 – April 2022) Revision 2 certified by the ET Leader on 29<sup>th</sup> July 2022, please note that we have no adverse comments on the captioned. We herewith verify the captioned in accordance with Section 12.3 of the EM&A Manual (AEIAR-210/2017).

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

cc	Binnies	-	Mr Clarence CHAK	by email
	Lam	-	Ms Derek LO / Mr Raymond DAI	by email
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**EXECUTIVE SUMMARY**

i. This is the Quarterly Environmental Monitoring and Audit (EM&A) Summary Report – **February to April 2022** of 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**. The Quarterly EM&A Summary Report presents the environmental monitoring findings and information recorded during the period of **01 February to 30 April 2022**. The cut-off date of reporting is at the end of each month within the reporting period.

ii. In the reporting period, the principal work activities conducted are as follow:

February 2022	March 2022	April 2022
<ul style="list-style-type: none"> <li>• Tree pruning, removal, digging recipient site preparation and transplanting works at San Shek Wan Sewage Treatment Works (SSWSTW) and Pui O Sewage Pumping Station (POSPS)</li> <li>• Excavation and site formation works at SSWSTW</li> <li>• Village sewer (excavation, sewer laying, construction of manhole) at Pui O Lo Uk Tsuen</li> </ul>	<ul style="list-style-type: none"> <li>• Tree pruning, removal, digging recipient site preparation and transplanting works at POSPS</li> <li>• Maintenance works for tree in holding nursery and site</li> <li>• Excavation and site formation works at SSWSTW</li> <li>• Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen</li> <li>• Site formation works for POSPS</li> <li>• Pre-drilling work at Pui O beach road</li> </ul>	<ul style="list-style-type: none"> <li>• Maintenance works for tree in holding nursery and site</li> <li>• Excavation and site formation works at SSWSTW and POSPS</li> <li>• Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen</li> <li>• Excavation of trial pit at Chi Ma Wan Road and South Lantau Road</li> <li>• Pre-drilling work at Pui O beach road</li> <li>• Preparation of HDD works</li> <li>• Installation of silt curtain and construction of temporary marine platform</li> </ul>

Exceedances of Action/Limit Levels

Noise Monitoring

- iii. Noise monitoring was conducted at **five (5)** noise monitoring stations N12a, N12b, N13, N14 and N17 once per week in the reporting period.
- iv. **No action and limit level exceedances were recorded in construction noise level in the reporting period.**

Water Quality Monitoring

- v. Marine-based construction works commenced on 19 April 2022. Water quality monitoring was conducted at **nine (9)** monitoring stations (seven impact & two control stations) three days per



- week in the reporting period starting from 12 April 2022. 66 action level exceedances on dissolved oxygen (DO), 4 action level and 81 limit level exceedances on turbidity, 2 action level and 49 limit level exceedances on SS were recorded in the reporting period.
- vi. Out of 66 action level exceedances on DO, 61 of these exceedances were due to background contribution as recorded at the control stations on 14, 16, 18, 20, 22 and 29 April 2022 whereas action level exceedance on DO recorded at SR9 and SR10 on 27 April 2022 were reviewed with no exceedance recorded at nearby upstream stations SR5 and SR6 from the location of marine-based construction works and concluded as non-project related.
  - vii. Out of the 4 action level and 81 limit level exceedances on turbidity, 2 action level and 49 limit level exceedances on SS were recorded in the reporting month, 4 action level exceedances on SS were concluded after removing those false alarm exceedance using the “and” approach proposed in the baseline report. Action level exceedance on SS recorded on 27 April 2022 was reviewed with no exceedance recorded at nearby upstream stations SR5 and SR6 from the location of marine-based construction works and concluded as non-project related.
  - viii. All action and limit level exceedances were concluded as non-project related upon investigation.

#### Ecological Impact Monitoring

- ix. Transplanting works for plant species, *Aquilaris sinensis*, was completed on 26 April 2022.
- x. Monitoring of maintenance works for the transplanted plant species was conducted at the holding nursery while in the reporting period.
- xi. Monitoring of the *in-situ* preserved plant species was conducted on site in the event of site inspections carried out in the reporting period.

#### Complaint log

- xii. No environmental complaint regarding the construction works was recorded in present quarter.

#### Notifications of Any Summons and Successful Prosecutions

- xiii. No environmental notification of any summons and successful prosecution regarding the construction works was recorded in present quarter.



## 1 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 Outlying Islands Sewerage Stage 2 - South Lantau Sewerage Works (Register No.: AEIAR-210/2017).

1.1.2. The Quarterly EM&A Summary Report was prepared according to Section 12.3 of the Project EM&A Manual.

### 1.2 Structure of the Report

**Section 1**     **Introduction** – details the scope and structure of the report

**Section 2**     **Basic Project Information** – a synopsis of project organization, programme contacts of key management, and a synopsis of work undertaken in the reporting period.

**Section 3**     **A Brief Summary of EM&A requirements** – including monitoring parameters, environmental quality performance limits (Action and Limit levels); and environmental mitigation measure, as recommended in the EIA Report.

**Section 4**     **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 5**     **Monitoring Results Analysis** – the trends of the monitoring parameters in present quarter; advice on the solid and liquid waste management status.

**Section 6**     **Summary of Non-Compliance (exceedances) of the environmental quality performance limits, Complaints, Notification of Summons and Successful Prosecutions**

A brief review of the reasons for and the implications of non-compliance and a summary description of the actions taken and any follow-up procedures related to earlier non-compliance.

A summary record of all complaints received (written or verbal) for each media,



liaison and consultation undertaken, actions and follow-up procedures taken;

A 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 and results.

**Section 7**      ***Comments and Recommendations*** – such as effectiveness and efficiency of the mitigation measures, improvement in the EM&A programme, if any.

**Section 8**      ***Conclusion and Project Proponent's contacts and hotline telephone number for the public to make enquiries***

## 2. Basic Project Information

### 2.1 Project Organization and Key Contact Personnel

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 summarised in [Figure 2.1](#) and [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. Clarence Chak	6428 5532	-
Kwan Lee – Chun Wo Joint Venture	Contractor	Site Agent	Mr. Charles Tse	9270 3384	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)	Ms. Melody Cheng*	2882 3939	2882 3331

Notes: \*Environmental Team Leader (ETL) change from Ms. Melody Cheng to Mr. Derek Lo start from July 2022

### 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 2.2](#).



- 2.2.3 The major components of the Project under Environmental Permit (EP) (EP No. EP-538/2017) comprises: (i) construction of sewage treatment works at San Shek Wan (SSWSTW) and associated submarine outfall; (ii) construction of sewage pumping station at Pui O (POSPS); (iii) village sewage works at Pui O; and (iv) trunk sewers and rising mains on carriageways.

### 3. A Brief Summary of EM&A Requirements

#### 3.1 Monitoring Parameters

##### Noise Monitoring

- 3.1.1 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  $L_{10}$  and  $L_{90}$  shall also be obtained for reference.
- 3.1.2 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.

##### Water Quality Monitoring

- 3.1.3 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.

##### Ecological Impact Monitoring

- 3.1.4 Monitoring in the form of regular site inspections should be carried out to ensure ecological measures in the form of tree transplantation and establishment are being implemented and effective for plant species of conservation importance (e.g. *Aquilaria sinensis*).

#### 3.2 Environmental Quality Performance Limits

##### Noise Monitoring

- 3.2.1 No action and limit level exceedances were recorded in construction noise level in the reporting period.

##### Water Quality Monitoring

- 3.2.2 Marine-based construction works had been commenced since 19 April 2022, marine water quality monitoring was initialised since 12 April 2022. 66 action level exceedances on DO; four (4) action level and 81 limit level exceedances on turbidity; and two (2) action level and 49 limit level exceedances on SS were recorded in the reporting period.
- 3.2.3 Out of 66 action level exceedances on DO, 61 of these exceedances were due to background contribution as recorded at the control stations on 14, 16, 18, 20 and 29 April 2022 whereas action level exceedances on DO recorded at SR9 and SR10 on 27 April 2022 were reviewed with no exceedances recorded at nearby upstream stations SR5 and SR6 from the location of marine-based construction works and concluded as non-project related.
- 3.2.4 Out of the four (4) action level and 81 limit level exceedances on turbidity; and two (2) action level and 49 limit level exceedances on SS were recorded in the reporting period, four (4) action



level exceedances on SS were concluded after removing those false alarm exceedances using the “and” approach proposed in the Baseline Monitoring Report. Action level exceedance on SS on 27 April 2022 was reviewed with no exceedances recorded at nearby upstream stations SR5 and SR6 from the location of marine-based construction works and concluded as non-project related.

3.2.5 Water quality monitoring is evaluated against Action and Limit Levels. Note that derived Action and Limit Level was proposed in Baseline Monitoring Report for approval. Action and Limit Levels of marine water quality monitoring have been set with reference to the EM&A Manual criteria and derived criteria as shown in **Table 3.1** below.

**Table 3.1 Action and Limit Levels of Water Quality**

Parameters	Action Level	Limit Level
<i>Construction Phase Marine Water Monitoring - EM&amp;A Manual criteria</i>		
DO in mg/L	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 <sup>A</sup> ) <sup>C</sup>	14.4 NTU, <b>or</b> 20% exceedance of value at any impact station compared with corresponding data from control station	23.5 NTU, <b>or</b> 30% exceedance of value at any impact station compared with corresponding data from control station
SS in mg/L (Depth-averaged <sup>A</sup> ) <sup>C</sup>	13.1 mg/L, <b>or</b> 20% exceedance of value at any impact station compared with corresponding data from control station	30.4 mg/L, <b>or</b> 30% exceedance of value at any impact station compared with corresponding data from control station
<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 <sup>A</sup> ) <sup>C</sup>	14.4 NTU <b>and</b> 20% exceedance of value at any impact station compared with corresponding data from control station <sup>D</sup>	23.5 NTU <b>and</b> 30% exceedance of value at any impact station compared with corresponding data from control station <sup>D</sup>
SS in mg/L (Depth-averaged <sup>A</sup> ) <sup>C</sup>	13.1 mg/L <b>and</b> 20% exceedance of value at any impact station compared with corresponding data from control station <sup>D</sup>	30.4 mg/L <b>and</b> 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.

Ecological monitoring

3.2.6 Monitoring of maintenance works for the transplanted plant species was conducted at the holding nursery while in the reporting period.

Monitoring of the in-situ preserved plant species was conducted on site in the event of site inspections carried out in the reporting period.



#### 4. Implementation Status

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

4.1.1 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.

##### 4.2 Environmental Mitigation Measures

4.2.1 Environmental mitigation measures mentioned the EIA Report were weekly reviewed and recorded in Weekly Environmental Site Audit Checklist. Also, a summary of the submission status of the reporting quarter on submissions and measures mentioned in Environmental Permit (EP-538/2017) are shown in **Table 4.1**.

**Table 4.1 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)	4 April 2022 #
Condition 2.11	Preservation and/or Transplantation Plan for Plant Species of Conservation Importance (Rev. 4)	25 June 2021 ^
Condition 2.12	Compensatory Woodland Planting Plan (Rev. 5)	2 July 2021 ^
Condition 2.13	Silt Curtain Deployment Plan (Rev. 11)	29 April 2022 ^
Condition 2.14	Landscape Mitigation Plan	To be confirmed
Condition 2.15	Construction Noise Mitigation Plan (Rev. 14)	8 April 2022 ^

##### 4.3 Environmental monitoring requirements and contractual requirements

4.3.1 A summary of the submission status for the reporting period on licences and/or permits on environmental protection pertinent to the Project is shown in **Table 4.2**.

**Table 4.2 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 (dd-mm-yyyy to dd-mm-yyyy)	Status
Notification Pursuant to Section 3(1) of Air Pollution Control (Construction Dust) Regulation	466408	14 Apr 2021	N/A	Valid



<b>Permits and/or Licences</b>	<b>Permit. No. / Account No.</b>	<b>Issued Date</b>	<b>Valid Period &amp; Expiry Date</b> (dd-mm-yyyy to dd-mm-yyyy)	<b>Status</b>
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
Billing Account under <i>Waste Disposal (Charges for Disposal of Construction Waste) Regulation</i>	Account No.: 7040411	05 May 2021	N/A	Valid
Registration as Chemical Waste Producer under <i>Waste Disposal (Chemical Waste) (General) Regulation</i>	WPN 0000-931-K3428-01	13 May 2021	N/A	Valid
Construction Noise Permit under <i>Noise Control Ordinance</i>	GW-RS0921-21	26 Nov 2021	29-11-2021 to 28-05-2022	Valid

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

## 5. Monitoring Results Analysis

### 5.1 Noise Monitoring

- 5.1.1 Noise monitoring was conducted at **five (5)** noise monitoring stations N12a, N12b, N13, N14 and N17 once per week in the reporting period.
- 5.1.2 Noise monitoring location plans with sensitive receivers are shown in [Figure 5.1](#).
- 5.1.3 Noise monitoring results measured in the reporting period were reviewed and summarised. Noise monitoring graphical presentation can be referred to [Appendix 5.1](#).
- 5.1.4 No action and limit level exceedances were recorded in construction noise level in the reporting period.

### 5.2 Marine Water Quality Monitoring

- 5.2.1 Marine Water quality monitoring involves **nine (9)** monitoring stations (seven impact & two control stations) three days per week in the reporting period **starting from 12 April 2022**.
- 5.2.2 Marine Water monitoring location plans with sensitive receivers are shown in [Figure 5.2](#).
- 5.2.3 Marine Water quality monitoring results measured in the reporting period were reviewed and summarised. Marine water quality monitoring graphical presentation and the summary of exceedance of action and /limit levels of WQM based on “OR” criteria (criteria according to EM&A Manual), but no exceedance if it is based on the “AND” criteria proposed in Baseline Monitoring Report can be referred to [Appendix 5.2](#).

### 5.3 Ecological Impact Monitoring

- 5.3.1 Transplanting of the trees of *Aquilaris sinensis* was completed on 26 April 2022. Maintenance works for trees in holding nursery have commenced.
- 5.3.2 Preservation of retain tree of *Aquilaris sinensis* on Project Site.

### 5.4 Waste Management

- 5.4.1 The quantities of waste for disposal in present quarter are summarized in **Table 5.1**. The Quarterly Summary Waste Flow Table is shown in [Appendix 5.3](#).

**Table 5.1 Summary of Quantities of Waste Material (February 2022 to April 2022)**



Waste Type	Quantity for reporting quarter	Cumulative Quantity-to-Date
Hard Rock and Large Broken Concrete (Inert) (in '000m <sup>3</sup> )	0	0
Reused in this Contract (Inert) (in '000m <sup>3</sup> )	0	0
Reused in other Projects (Inert) (in '000m <sup>3</sup> )	0	0
Disposal as Public Fill (Inert) (in '000m <sup>3</sup> )	5.50608	6.37295
Metals (in '000kg)	1.55450	1.56170
Paper / Cardboard Packing (in '000kg)	0.04600	0.07048
Plastics (in '000kg)	0.00350	0.01046
Chemical Wastes (in '000kg)	0	0
General Refuses (in '000kg)	97.16	276.11

\*: Further breakdown into sub-group if considered applicable;

\*: Please also provide daily dumping report for our records.

\*: Delete as appropriate



## 6. Complaints, Notification of Summons and Prosecution

- 6.1.1 No environmental complaint, notification of summons and successful prosecution regarding construction works was recorded in present quarter.
- 6.1.2 Cumulative statistic on complaints and successful prosecutions are summarized in **Table 6.1** and **Table 6.2** respectively.

**Table 6.1 Cumulative Statistics on Complaints**

Reporting Period	No. of Complaints
February 2022 - April 2022	0
Project commencement to the end of last reporting month	-
<b>Total</b>	<b>0</b>

**Table 6.2 Cumulative Statistics on Successful Prosecutions**

Environmental Parameters	Cumulative No. Brought Forward	No. of Successful Prosecutions this month (Offence Date)	Cumulative No. Project-to-Date
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>



**7. Comments and Recommendations**

7.1.1 In the reporting months, the principal work activities conducted are as follow.

**Table 7.1 Construction Activities in Past 3 Months**

February 2022	March 2022	April 2022
<ul style="list-style-type: none"> <li>Tree pruning, removal, digging recipient site preparation and transplanting works at San Shek Wan Sewage Treatment Works (SSWSTW) and Pui O Sewage Pumping Station (POSPS)</li> <li>Excavation and site formation works at SSWSTW</li> <li>Village sewer (excavation, sewer laying, construction of manhole) at Pui O Lo Uk Tsuen</li> </ul>	<ul style="list-style-type: none"> <li>Tree pruning, removal, digging recipient site preparation and transplanting works at POSPS</li> <li>Maintenance works for tree in holding nursery and site</li> <li>Excavation and site formation works at SSWSTW</li> <li>Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen</li> <li>Site formation works for POSPS</li> <li>Pre-drilling work at Pui O beach road</li> </ul>	<ul style="list-style-type: none"> <li>Maintenance works for tree in holding nursery and site</li> <li>Excavation and site formation works at SSWSTW and POSPS</li> <li>Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen</li> <li>Excavation of trial pit at Chi Ma Wan Road and South Lantau Road</li> <li>Pre-drilling work at Pui O beach road</li> <li>Preparation of HDD works</li> <li>Installation of silt curtain and construction of temporary marine platform</li> </ul>

7.1.2 The recommended mitigation measures for the past 3 months are listed below:

- Ensure the transplanting of the trees including *Aquilaris sinensis* and their establishment are not affected by any unacceptable construction works;
- Implementation of proper noise pollution control;
- Dust control during dust generating works;
- Adopt surface drainage and sediment control facilities for sewage installation in village and public roads;
- Regular water spraying on exposed area;
- Proper waste handling, recycling and storage.
- Provide caring measures for the health, form and structural conditions for transplant trees including *Aquilaris sinensis* in holding nursery;
- Fully implement tree preservation works on site and holding nursery to ensure compliance of relevant legislation and guidelines stated in EM&A Manual.
- Implementation of proper noise pollution control including use of QPME;



- Dust control during dust generating works;
- Adopt surface drainage and sediment control facilities for sewage installation in village and public roads;
- Vehicle wheel-washing and body washing facilities should be provided at the site entrance;
- Silt curtains should be installed to surround the marine dredging area and HDD pilot hole exist area
- Implementation of noise pollution control in accordance with Construction Noise Mitigation Plan;
- Dust control during dust generating works;
- Adopt surface drainage and sediment control facilities for sewage installation in village and public roads;
- Adopt temporary drainage and sediment control facilities on Site;
- Silt curtains should be installed to surround the marine dredging area in accordance with Silt Curtain Deployment Plan.

The implemented mitigation measures are considered effective.



## **8. Conclusion**

### **8.1 Noise Monitoring.**

8.1.1 No action or limit level exceedance was recorded in construction noise level in this present quarter.

### **8.2 Water Quality Monitoring**

8.2.1 Marine-based construction works commenced on 19 April 2022, water quality monitoring was commenced on 12 April 2022. 66 action level exceedances on DO, 4 action level and 81 limit level exceedances on turbidity, 2 action level and 49 limit level exceedances on SS were recorded in the reporting period.

8.2.2 Out of 66 action level exceedances on DO, 61 of these exceedances were due to background contribution as recorded at the control stations on 14, 16, 18, 20, 22 and 29 April 2022 whereas action level exceedance on DO recorded at SR9 and SR10 on 27 April 2022 were reviewed with no exceedance recorded at nearby upstream stations SR5 and SR6 from the location of marine-based construction works and concluded as non-project related.

8.2.3 Out of the 4 action level and 81 limit level exceedances on turbidity, 2 action level and 49 limit level exceedances on SS were recorded in the reporting period, 4 action level exceedances on SS were concluded after removing those false alarm exceedance using the “and” approach proposed in the baseline report. Action level exceedance on SS recorded on 27 April 2022 was reviewed with no exceedance recorded at nearby upstream stations SR5 and SR6 from the location of marine-based construction works and concluded as non-project related.

### **8.3 Ecological Impact Monitoring**

8.3.1 Maintenance works for transplanted *Aquilaris sinensis* have commenced, preservation and protection of retain tree *Aquilaris sinensis* at SSWSTW.

### **8.4 Review of the Reasons for and the Implications of Non-compliance**

8.4.1 No environmental non-compliance was recorded in present quarter.

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

8.5.1 There was no particular action taken since no non-compliance was recorded in present quarter.

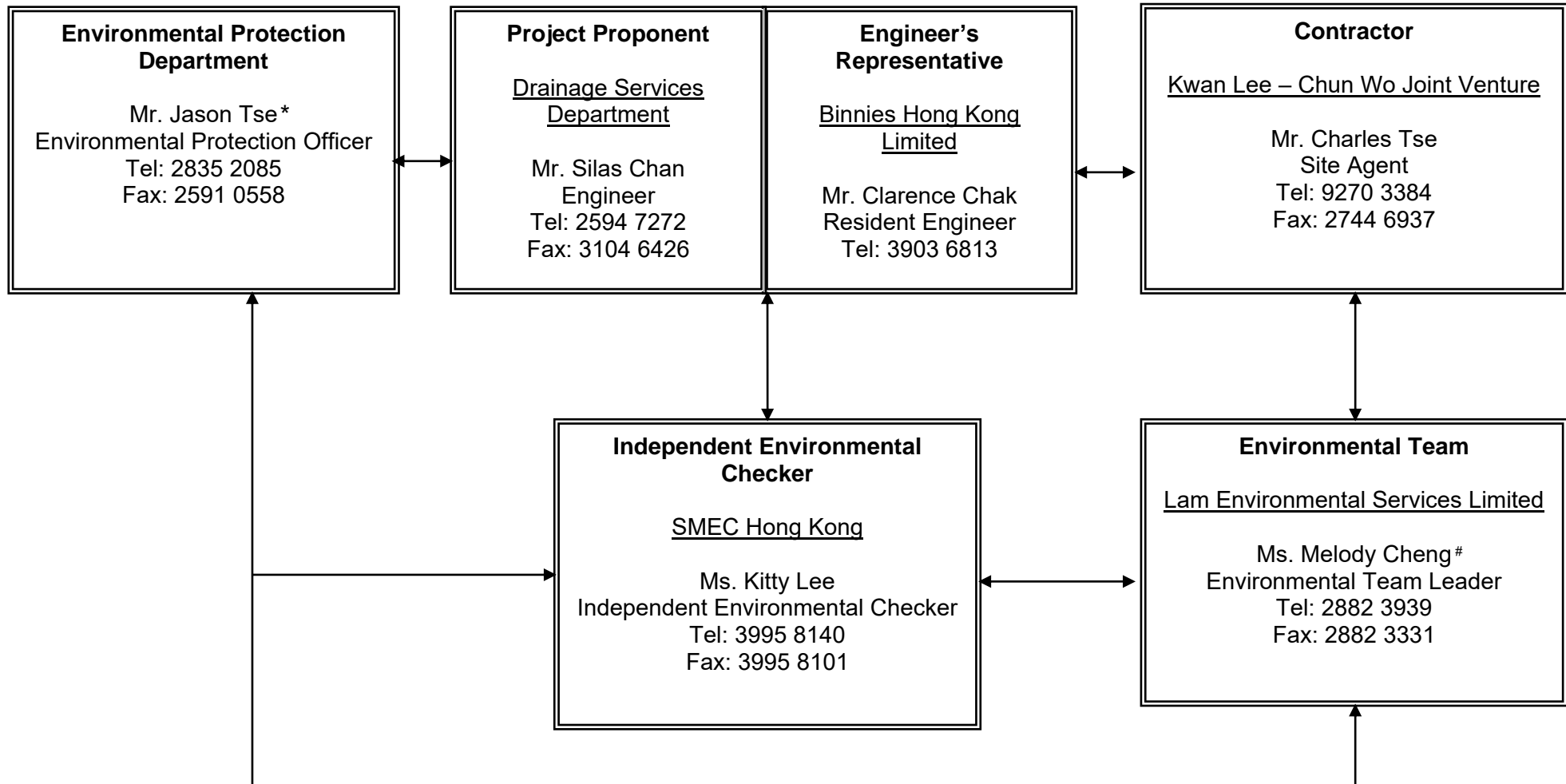




**Figure 2.1**  
**Project Organisation Chart**



### Project Organization Chart



\* Environmental Protection Officer change from Mr. Jason Tse to Ms. Louisa Cheung start from June 2022

# Environmental Team Leader change from Ms. Melody Cheng to Mr. Derek Lo start from July 2022

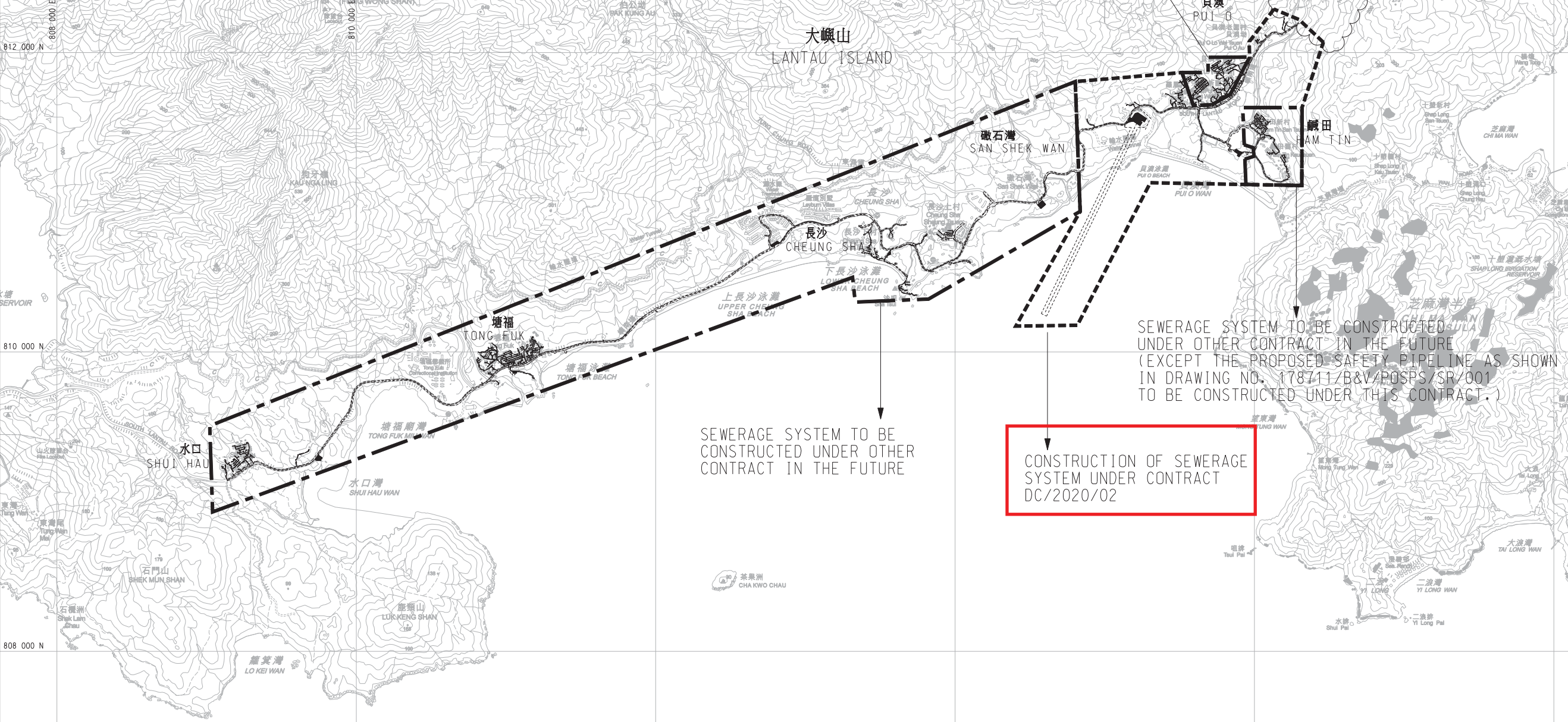
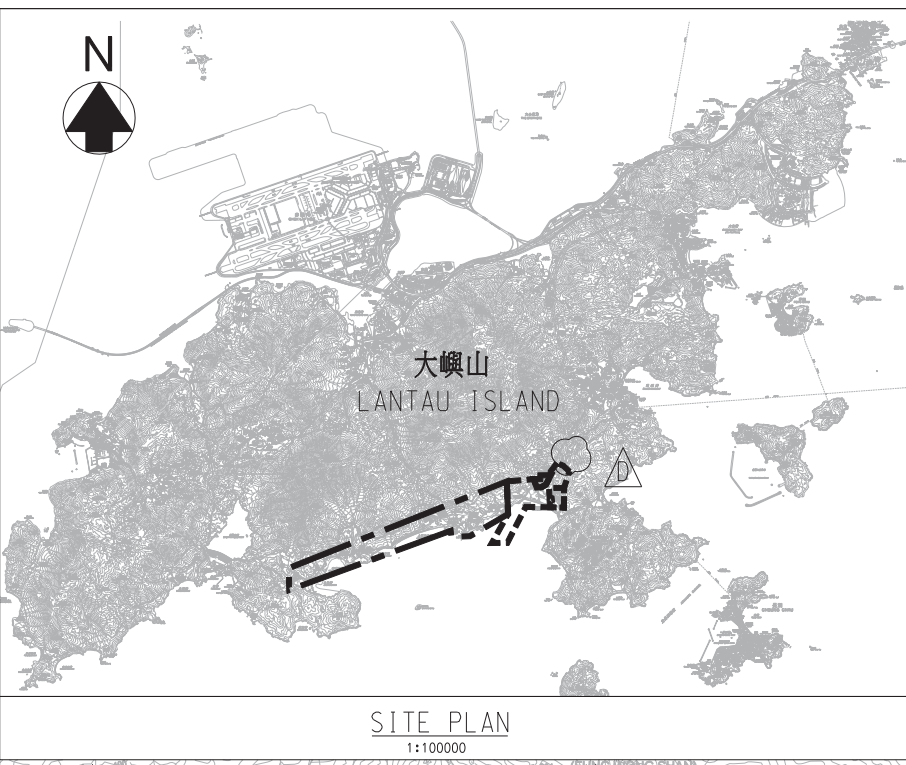
Figure 2.1



***Figure 2.2***

***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
Initial	Designed	Checked	Drawn
	TFL	BL	SZ
Date	04/20	04/20	04/20

Approved: *Christina*

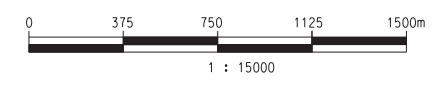
Contract no. DC/2020/02

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

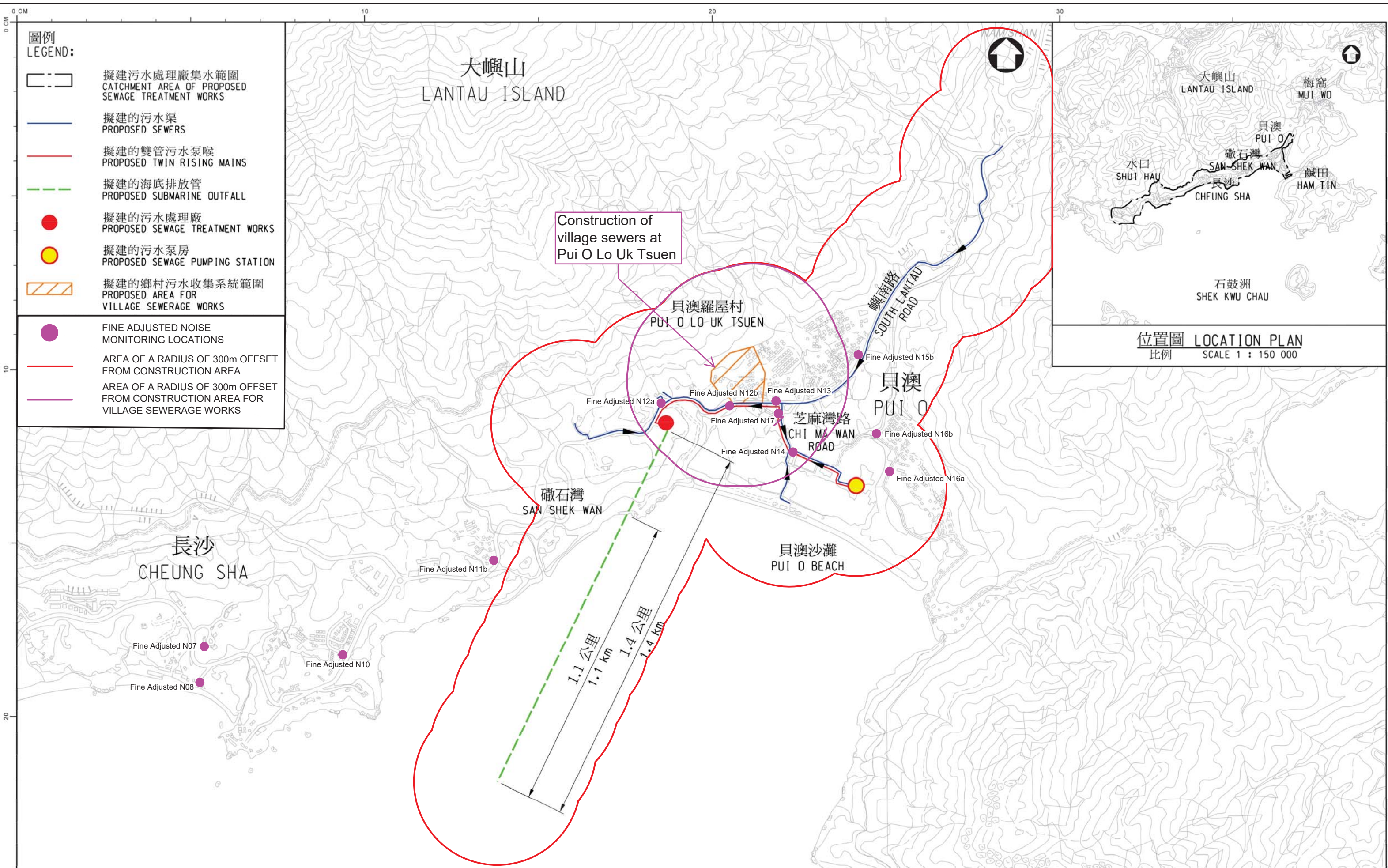




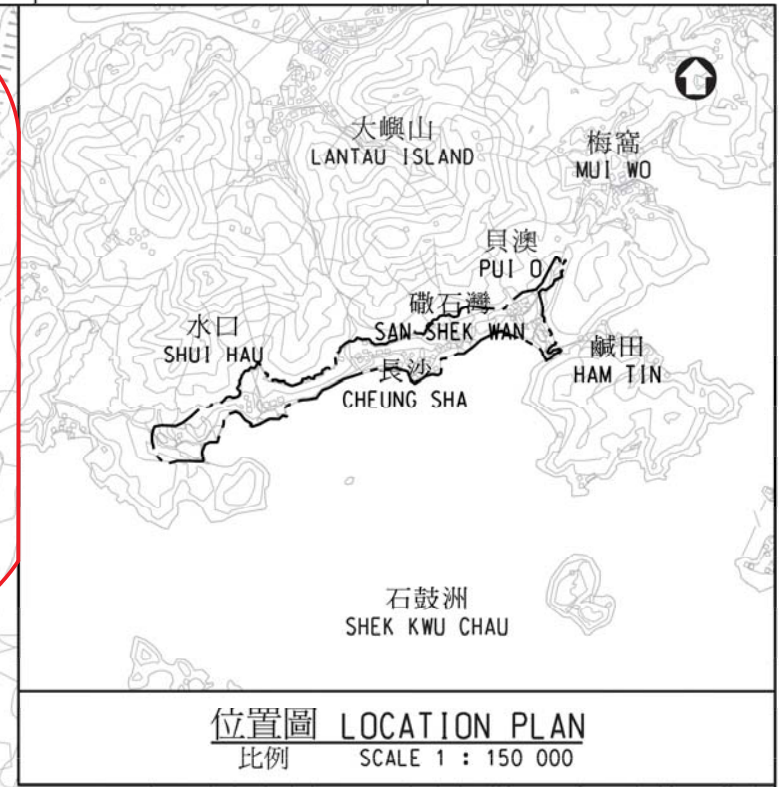


***Figure 5.1***

***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



Construction of village sewers at Pui O Lo Uk Tsuen

1.1 公里  
1.1 km

1.4 公里  
1.4 km

1.4 公里  
1.4 km

長沙  
CHEUNG SHA

礮石灣  
SAN SHEK WAN

貝澳沙灘  
PUI O BEACH

芝麻灣路  
CHI MA WAN ROAD

貝澳  
PUI O

貝澳羅屋村  
PUI O LO UK TSUEN

大嶼山  
LANTAU ISLAND

大嶼山  
LANTAU ISLAND

梅窩  
MUI WO

貝澳  
PUI O

礮石灣  
SAN SHEK WAN

鹹田  
HAM TIN

水口  
SHUI HAU

長沙  
CHEUNG SHA

石鼓洲  
SHEK KWU CHAU

Fine Adjusted N07

Fine Adjusted N08

Fine Adjusted N10

Fine Adjusted N11b

Fine Adjusted N12a

Fine Adjusted N12b

Fine Adjusted N13

Fine Adjusted N17

Fine Adjusted N14

Fine Adjusted N15b

Fine Adjusted N16b

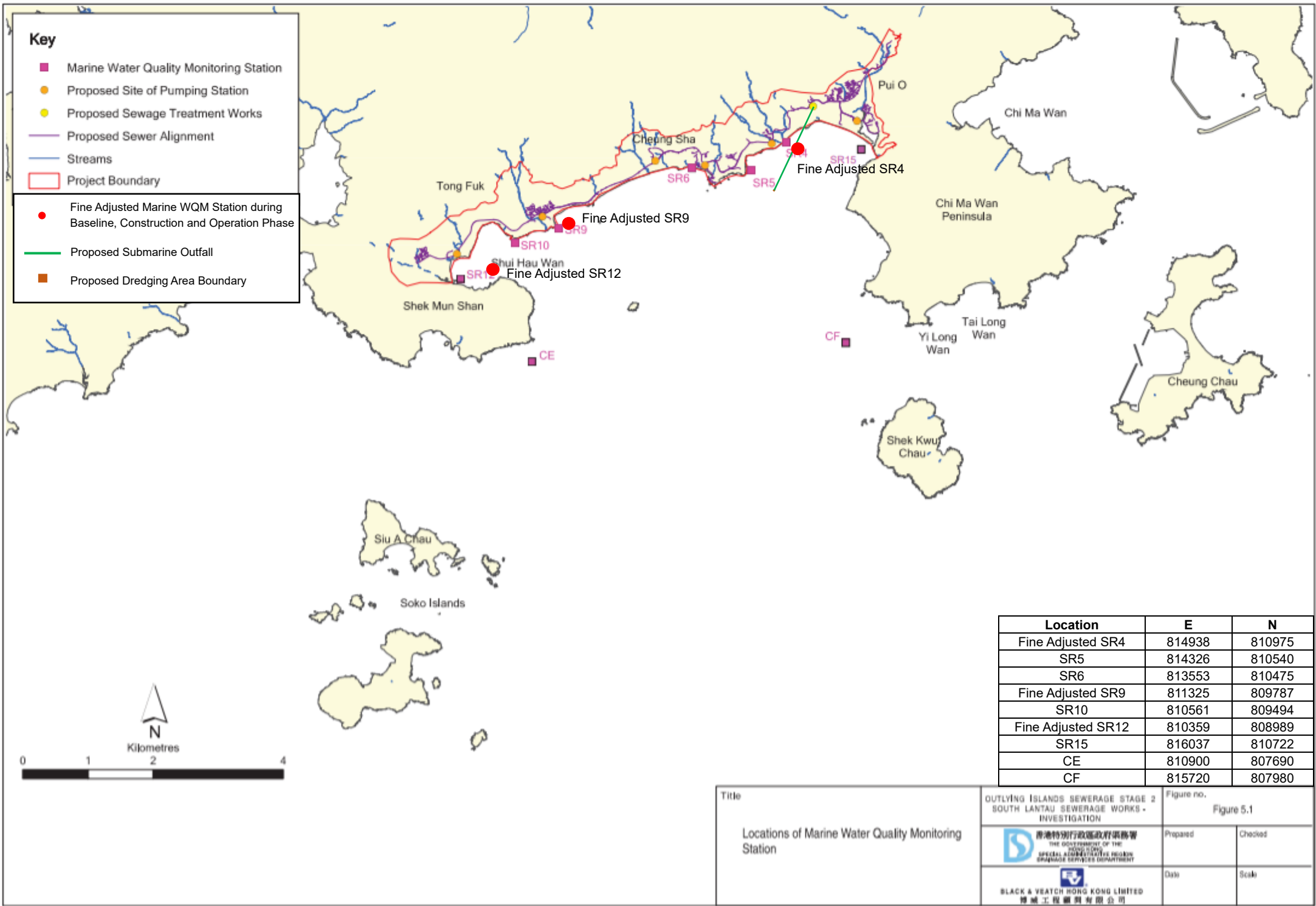
Fine Adjusted N16a



***Figure 5.2***

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





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
	 BLACK & VEATCH HONG KONG LIMITED 博誠工程顧問有限公司		Date	Scale





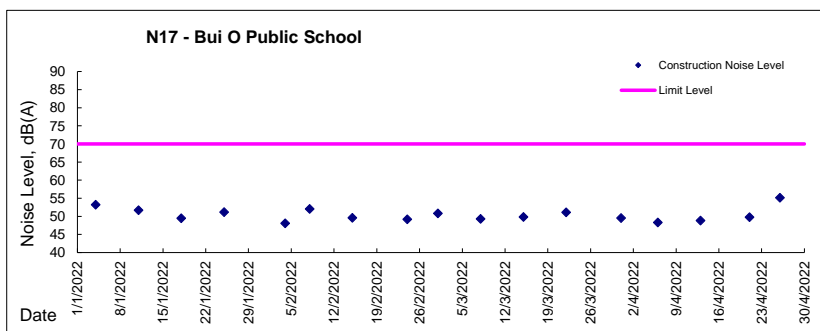
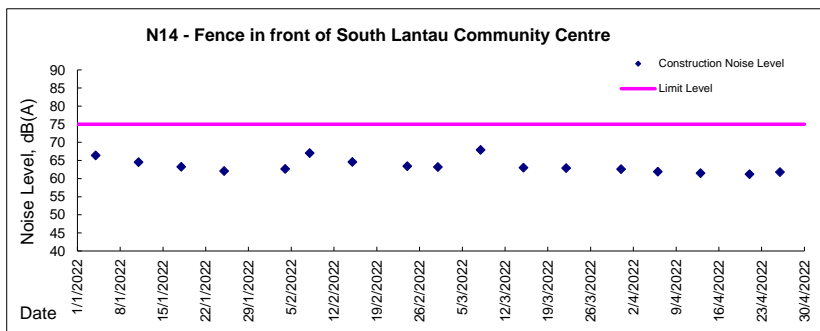
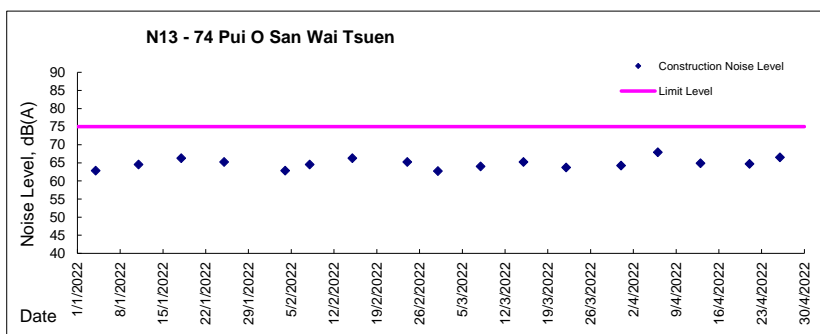
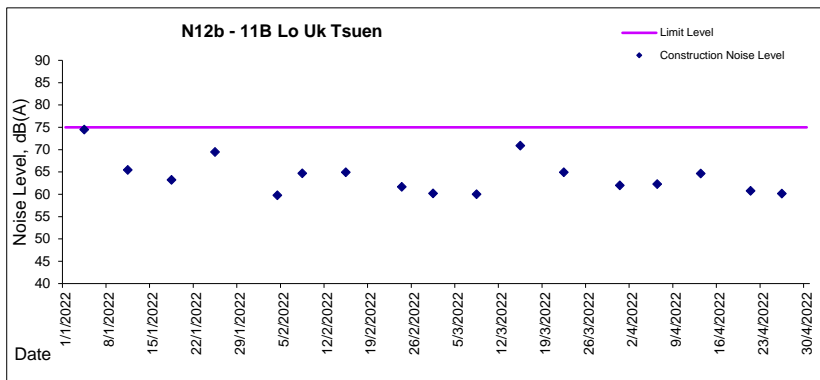
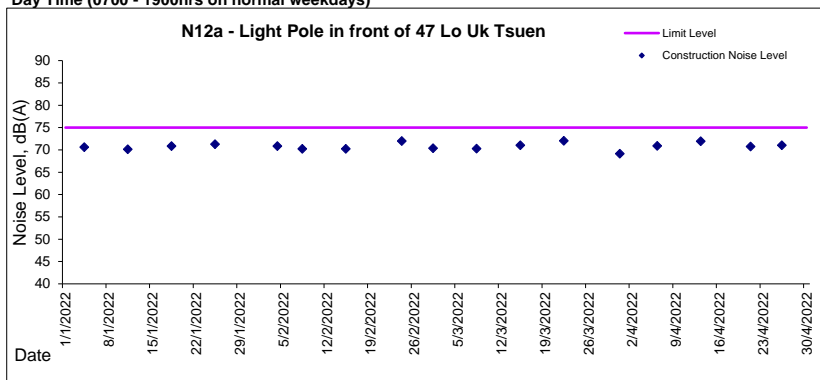
***Appendix 5.1***

***Noise Monitoring Graphical Presentations***



Graphic Presentation of Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)





**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	Limit Level	Major Construction Noise Source(s)	Other Noise Source(s)
					Leq	L10	L90						
					Unit: dB(A), (5-min)								
4 Feb 2022	Cloudy	3.9	93.9	11:31	70.0	73.0	46.8	70.8	73.3	<Baseline Level	75	Nil	Traffic, wildlife
				11:36	72.5	76.6	48.9						
				11:41	72.4	76.6	48.3						
				11:46	70.6	75.4	47.7						
				11:51	66.1	70.0	44.0						
				11:56	70.8	75.5	40.6						
8 Feb 2022	Cloudy	3.1	94.0	10:36	71.9	75.4	48.5	70.3	73.3	<Baseline Level	75	Nil	Traffic
				10:41	70.8	75.7	46.4						
				10:46	69.4	73.4	45.0						
				10:51	68.8	71.6	43.3						
				10:56	71.6	75.8	51.4						
				11:01	67.3	71.1	52.0						
15 Feb 2022	Sunny	2.8	94.0	10:41	70.5	75.1	51.7	70.2	73.3	<Baseline Level	75	Nil	Traffic
				10:46	68.4	72.2	46.6						
				10:51	71.4	74.9	51.3						
				10:56	69.8	72.9	47.5						
				11:01	67.5	71.3	53.3						
				11:06	72.1	76.2	56.1						
24 Feb 2022	Sunny	1.5	94.0	10:41	72.6	77.2	50.8	72.0	73.3	<Baseline Level	75	Site clearance (excavation, dump trunk)	Traffic
				10:46	71.0	75.4	50.2						
				10:51	71.0	74.8	48.6						
				10:56	71.4	74.4	50.7						
				11:01	72.4	76.0	49.8						
				11:06	73.0	76.8	47.5						



**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	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 Feb 2022	Cloudy	3.9	93.9	10:51	58.1	62.1	41.5	59.8	76.8	<Baseline Level	75	Nil	Traffic
				10:56	55.9	59.5	40.5						
				11:01	60.6	63.8	41.4						
				11:06	59.8	63.6	44.3						
				11:11	62.8	64.5	41.2						
8 Feb 2022	Cloudy	3.1	94.0	10:11	58.2	62.7	40.8	64.7	76.8	<Baseline Level	75	Grinding, hammering,	Traffic
				10:16	63.9	65.0	55.0						
				10:21	64.0	66.7	55.0						
				10:26	65.3	69.1	54.8						
				10:31	62.4	66.0	53.8						
15 Feb 2022	Sunny	2.5	94.0	10:36	62.8	64.7	53.7	64.9	76.8	<Baseline Level	75	hand held breaker, generator x2, concrete lorry mixer.	Traffic
				11:11	67.5	73.1	44.2						
				14:16	66.3	67.0	57.7						
				14:21	65.4	67.8	59.0						
				14:26	64.5	66.0	58.9						
24 Feb 2022	Sunny	1.6	94.0	14:31	65.3	65.3	58.4	61.7	76.8	<Baseline Level	75	hand held breaker, dump trunk	Traffic
				14:36	63.8	66.6	59.0						
				14:41	63.5	64.5	58.3						
				11:21	64.3	61.6	46.2						
				11:26	61.7	63.2	44.7						
				11:31	64.5	66.3	41.6						
				11:36	56.8	60.6	41.6						
				11:41	59.5	61.7	42.5						
				11:46	56.5	58.8	40.6						



**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	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 Feb 2022	Cloudy	3.3	93.9	10:16	61.1	64.7	46.2	61.5	73.6	<Baseline Level	75	Nil	Traffic
				10:21	60.8	64.9	44.5						
				10:26	60.9	66.1	44.1						
				10:31	60.9	64.7	46.4						
				10:36	61.6	65.1	45.3						
				10:41	63.3	66.5	48.2						
8 Feb 2022	Cloudy	3.3	94.0	14:21	63.0	66.8	55.5	62.5	73.6	<Baseline Level	75	nil	Traffic, music, restaurant
				14:26	63.8	66.8	56.0						
				14:31	61.3	65.0	54.1						
				14:36	63.0	66.3	54.5						
				14:41	62.0	67.8	53.8						
				14:46	61.4	65.0	52.3						
15 Feb 2022	Sunny	2.5	94.0	13:41	64.3	67.6	54.8	63.6	73.6	<Baseline Level	75	nil	Traffic
				13:46	62.7	65.2	52.5						
				13:51	66.0	68.7	53.3						
				13:56	62.5	66.7	54.2						
				14:01	63.0	67.0	53.0						
				14:06	61.6	66.1	53.3						
24 Feb 2022	Sunny	2.2	94.0	14:06	65.5	67.1	53.9	63.6	73.6	<Baseline Level	75	Dump trunk	Traffic, wildlife
				14:11	65.1	69.1	53.4						
				14:16	63.5	67.5	51.8						
				14:21	62.1	64.8	50.6						
				14:26	62.1	65.6	49.2						
				14:31	62.1	66.9	49.6						



**Noise Monitoring Result**

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

Location: N14 - Fence in front of South Lantau Community Centre

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)			Unit: dB(A), (30-min)					
4 Feb 2022	Cloudy	3.3	94.0	9:41	63.1	64.7	48.2	62.7	62.2	53	75	Nil	Traffic, hammering
				9:46	65.0	64.1	42.3						
				9:51	59.4	61.8	43.8						
				9:56	58.8	62.0	41.1						
				10:01	66.0	69.0	46.6						
				10:06	55.1	58.3	43.6						
8 Feb 2022	Cloudy	3.1	94.0	13:01	63.4	61.9	47.2	67.1	62.2	65	75	Nil	Renovation works, traffic
				13:06	55.7	60.1	44.8						
				13:11	69.5	69.7	47.5						
				13:16	68.6	71.5	46.8						
				13:21	70.3	67.7	50.3						
				13:26	60.3	63.6	46.3						
15 Feb 2022	Sunny	3.3	94.0	13:01	61.7	63.7	45.1	64.6	62.2	61	75	Nil	Traffic, wildlife
				13:06	66.6	69.9	44.2						
				13:11	64.2	68.2	48.8						
				13:16	61.8	64.1	46.7						
				13:21	66.0	62.3	43.9						
				13:26	64.8	65.4	45.4						
24 Feb 2022	Sunny	1.3	93.9	14:46	54.0	54.0	42.0	63.4	62.2	57	75	Nil	Renovation works, traffic
				14:51	63.7	64.8	43.3						
				14:56	57.6	60.0	42.2						
				15:01	64.2	64.1	43.3						
				15:06	65.9	65.7	46.0						
				15:11	65.5	64.7	47.2						



**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 Feb 2022	Cloudy	3.3	93.9	9:01	47.8	51.5	39.2	48.0	62.3	<Baseline Level	70	Nil	Traffic
				9:06	46.7	49.9	39.9						
				9:11	45.4	48.0	39.0						
				9:16	49.1	52.3	42.5						
				9:21	46.7	50.1	40.1						
				9:26	50.5	51.9	43.4						
8 Feb 2022	Cloudy	4.7	94.0	13:41	50.5	54.2	43.7	52.0	62.3	<Baseline Level	70	Grindling	Traffic
				13:46	52.5	56.5	44.2						
				13:51	51.2	54.0	43.4						
				13:56	50.4	55.1	45.3						
				14:01	50.8	53.2	44.6						
				14:06	54.8	57.4	44.3						
15 Feb 2022	Sunny	2.8	94.0	11:21	48.7	50.0	42.2	49.6	62.3	<Baseline Level	70	Lo Uk Tsuen: Grindling, rock breaking SSWSTW: Excavation, dump truck	Traffic
				11:26	48.7	51.5	43.7						
				11:31	49.1	52.0	43.0						
				11:36	50.3	52.2	43.6						
				11:41	49.7	53.3	44.4						
				11:46	50.7	53.0	42.5						
24 Feb 2022	Sunny	1.7	94.0	13:31	48.3	51.3	43.1	49.2	62.3	<Baseline Level	70	Dump truck operation	Traffic
				13:36	50.7	52.9	43.1						
				13:41	50.4	53.2	42.8						
				13:46	48.4	51.1	41.5						
				13:51	48.3	51.4	42.0						
				13:56	48.1	50.8	42.1						



**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	Limit Level	Major Construction Noise Source(s)	Other Noise Source(s)
					Leq	L10	L90						
					Unit: dB(A), (5-min)								
1 Mar 2022	Sunny	1.6	94.4	13:01	71.3	75.7	46.5	70.4	73.3	<Baseline Level	75	Rock breaking at SSWSTW	Traffic, wildlife
				13:06	68.4	72.6	45.7						
				13:11	70.5	74.6	48.5						
				13:16	71.6	75.1	51.6						
				13:21	68.0	72.6	48.6						
				13:26	71.1	74.9	51.4						
8 Mar 2022	Sunny	1.5	93.2	10:36	71.9	75.5	50.8	70.3	73.3	<Baseline Level	75	Rock breaking at SSWSTW	Traffic
				10:41	69.7	71.3	46.2						
				10:46	71.2	75.4	48.3						
				10:51	68.8	71.6	43.3						
				10:56	70.0	73.0	58.0						
				11:01	69.4	73.0	51.1						
15 Mar 2022	Sunny	1.0	93.3	10:26	71.1	74.3	49.1	71.0	73.3	<Baseline Level	75	Nil	Traffic
				10:31	72.5	74.2	48.5						
				10:36	69.7	74.1	54.1						
				10:41	71.1	74.3	50.3						
				10:46	71.7	74.7	47.5						
				10:51	69.1	73.6	49.6						
22 Mar 2022	Sunny	1.3	93.5	9:36	71.5	75.1	55.6	72.0	73.3	<Baseline Level	75	Excavation	Traffic
				9:41	70.8	75.2	47.8						
				9:46	74.1	77.6	47.8						
				9:51	71.2	74.4	50.1						
				9:56	71.3	75.0	47.7						
				10:01	72.4	76.9	50.9						
31 Mar 2022	Sunny	3.7	93.5	13:36	67.8	72.0	51.5	69.2	73.3	<Baseline Level	75	Excavation	Traffic
				13:41	69.8	73.6	50.5						
				13:46	70.4	74.6	50.9						
				13:51	68.1	70.8	49.1						
				13:56	70.5	74.2	50.6						
				14:01	67.2	72.1	50.1						





**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	Baseline Level	Construction Noise Level	Limit Level	Major Construction Noise Source(s)	Other Noise Source(s)
					Leq	L10	L90						
					Unit: dB(A), (5-min)			Unit: dB(A), (30-min)					
1 Mar 2022	Sunny	1.5	94.4	13:41	61.9	62.5	57.4	60.2	76.8	<Baseline Level	75	Generator, grinding	Traffic
				13:46	59.2	61.2	57.0						
				13:51	59.2	61.3	57.1						
				13:56	61.9	62.4	57.1						
				14:01	59.3	61.3	56.5						
				14:06	58.3	59.9	53.2						
8 Mar 2022	Sunny	1.6	93.2	11:11	58.3	61.2	46.6	60.0	76.8	<Baseline Level	75	Trial pit excavation	Traffic
				11:16	64.0	62.8	47.0						
				11:21	57.5	59.8	44.1						
				11:26	57.7	61.4	43.5						
				11:31	55.7	57.8	42.7						
				11:36	61.1	61.5	39.9						
15 Mar 2022	Sunny	1.0	93.3	9:51	70.7	73.2	63.0	70.9	76.8	<Baseline Level	75	Excavation	Traffic
				9:56	68.0	70.9	61.1						
				10:01	71.5	72.5	61.8						
				10:06	73.2	72.4	61.0						
				10:11	72.5	73.1	60.1						
				10:16	63.5	67.7	51.2						
22 Mar 2022	Sunny	1.0	93.5	10:11	61.6	65.1	53.1	64.9	76.8	<Baseline Level	75	Excavation, concrete breaking	Traffic, mobile crane
				10:16	65.1	68.4	55.4						
				10:21	67.3	71.0	55.8						
				10:26	64.2	65.8	56.7						
				10:31	64.6	66.7	61.2						
				10:36	64.5	66.8	61.9						
31 Mar 2022	Sunny	1.5	93.5	10:51	62.7	64.9	52.0	62.0	76.8	<Baseline Level	75	Excavation, concrete breaking	Traffic, mobile crane
				10:56	63.7	65.6	60.5						
				11:01	62.5	65.9	48.4						
				11:06	61.4	65.4	48.2						
				11:11	60.8	62.6	47.2						
				11:16	59.5	63.0	46.8						



**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	Baseline Level	Construction Noise Level	Limit Level	Major Construction Noise Source(s)	Other Noise Source(s)
					Leq	L10	L90						
					Unit: dB(A), (5-min)			Unit: dB(A), (30-min)					
1 Mar 2022	Sunny	1.4	94.4	11:16	61.3	64.4	53.3	62.7	73.6	<Baseline Level	75	Nil	Traffic
				11:21	61.4	65.5	52.6						
				11:26	61.1	64.6	52.4						
				11:31	61.2	63.8	52.2						
				11:36	66.8	70.2	56.3						
				11:41	59.9	62.7	52.7						
8 Mar 2022	Sunny	3.2	93.2	13:46	64.6	68.1	56.3	64.0	73.6	<Baseline Level	75	nil	Traffic, non-project related concrete breaking
				13:51	63.9	66.3	56.1						
				13:56	62.8	65.1	55.1						
				14:01	61.8	65.4	56.3						
				14:06	63.5	65.9	56.2						
				14:11	66.0	68.7	60.5						
15 Mar 2022	Sunny	1.0	93.3	13:16	62.9	65.5	55.1	65.2	73.6	<Baseline Level	75	nil	Traffic
				13:21	63.7	66.9	55.4						
				13:26	67.6	69.9	55.6						
				13:31	67.1	70.0	56.1						
				13:36	64.3	67.7	56.5						
				13:41	63.3	67.3	55.5						
22 Mar 2022	Sunny	0.6	93.5	10:41	65.5	70.0	57.0	63.7	73.6	<Baseline Level	75	Concrete breaking	Traffic, wildlife
				10:46	63.2	65.7	56.2						
				10:51	60.5	63.0	54.2						
				10:56	61.8	66.0	53.8						
				11:01	65.6	67.6	55.2						
				11:06	63.2	66.6	55.6						
31 Mar 2022	Sunny	2.2	93.5	11:26	65.2	68.7	57.2	64.2	73.6	<Baseline Level	75	Nil	Traffic
				11:31	63.5	66.6	55.6						
				11:36	63.3	67.4	56.1						
				11:41	65.3	68.6	56.7						
				11:46	60.8	64.0	54.1						
				11:51	65.4	66.4	55.8						



**Noise Monitoring Result**

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

Location: N14 - Fence in front of South Lantau Community Centre

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)			Unit: dB(A), (30-min)					
1 Mar 2022	Sunny	0.4	94.4	10:06	61.4	64.7	47.9	63.2	62.2	57	75	Trial pit concrete breaking	Traffic, non-project related grinding
				10:11	66.8	68.1	46.5						
				10:16	61.1	62.2	44.9						
				10:21	59.3	60.9	44.5						
				10:26	56.7	58.6	47.2						
				10:31	65.9	69.0	47.0						
8 Mar 2022	Sunny	1.5	93.2	14:26	72.2	60.1	46.9	67.9	62.2	67	75	Nil	Traffic
				14:31	64.1	63.7	46.6						
				14:36	53.3	56.5	46.6						
				14:41	72.0	68.9	46.7						
				14:46	60.3	63.1	46.0						
				14:51	58.0	58.3	44.2						
15 Mar 2022	Sunny	1.7	93.3	11:06	66.2	67.0	48.2	63.0	62.2	55	75	Nil	Traffic
				11:11	61.8	64.3	48.4						
				11:16	64.1	67.8	47.6						
				11:21	60.2	63.8	45.4						
				11:26	58.9	60.5	45.2						
				11:31	63.0	65.7	46.8						
22 Mar 2022	Sunny	1.3	93.5	13:01	65.1	65.6	43.7	62.9	62.2	55	75	Nil	Traffic
				13:06	64.4	66.6	45.5						
				13:11	64.6	66.1	46.6						
				13:16	60.2	61.8	45.9						
				13:21	54.8	57.9	44.2						
				13:26	61.8	65.5	45.1						
31 Mar 2022	Sunny	1.3	93.5	9:36	66.0	67.0	57.3	62.6	62.2	52	75	Trial pit	Traffic
				9:41	61.2	64.5	53.0						
				9:46	57.7	61.4	48.0						
				9:51	64.4	64.6	47.4						
				9:56	60.4	62.9	47.3						
				10:01	60.3	64.1	48.8						



**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)								
1 Mar 2022	Sunny	1.4	94.4	10:46	49.6	52.6	43.7	50.8	62.3	<Baseline Level	70	Trial pit concrete breaking	Traffic
				10:51	51.0	52.8	45.5						
				10:56	50.8	52.3	42.7						
				11:01	48.8	51.2	43.1						
				11:06	51.9	50.7	41.3						
				11:11	51.9	53.2	43.8						
8 Mar 2022	Sunny	1.6	93.2	13:06	49.3	51.9	43.1	49.3	62.3	<Baseline Level	70	Nil	Non-project related concrete breaking, grinding
				13:11	50.4	53.4	44.7						
				13:16	48.8	50.9	44.2						
				13:21	48.5	50.7	44.2						
				13:26	49.5	51.7	44.5						
				13:31	49.3	52.5	43.7						
15 Mar 2022	Sunny	2.0	93.3	13:56	49.7	53.0	43.3	49.8	62.3	<Baseline Level	70	Nil	Traffic
				14:01	49.4	52.2	44.1						
				14:06	49.5	52.6	42.9						
				14:11	49.5	52.7	43.7						
				14:16	51.2	52.0	44.1						
				14:21	49.4	51.7	43.4						
22 Mar 2022	Sunny	2.5	93.5	11:16	51.1	53.3	46.9	51.1	62.3	<Baseline Level	70	Grinding	Traffic
				11:21	50.0	52.0	46.4						
				11:26	50.1	52.9	45.8						
				11:31	50.2	53.1	45.4						
				11:36	53.5	54.9	46.5						
				11:41	50.3	52.8	46.1						
31 Mar 2022	Sunny	1.9	93.5	10:16	49.5	49.9	43.7	49.5	62.3	<Baseline Level	75	Nil	Traffic
				10:21	49.8	52.0	45.3						
				10:26	49.0	51.7	45.0						
				10:31	49.0	51.9	44.0						
				10:36	49.1	51.7	44.8						
				10:41	50.4	51.9	45.3						



**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	Limit Level	Major Construction Noise Source(s)	Other Noise Source(s)
					Leq	L10	L90						
					Unit: dB(A), (5-min)								
6 Apr 2022	Sunny	1.4	93.6	10:51	72.5	76.5	51.1	70.9	73.3	<Baseline Level	75	Excavation	Traffic
				10:56	70.6	74.0	48.5						
				11:01	68.6	71.6	49.2						
				11:06	70.1	74.2	48.7						
				11:11	71.7	75.2	48.8						
				11:16	70.8	75.7	47.3						
13 Apr 2022	Cloudy	1.5	93.6	10:11	72.0	76.0	51.3	71.9	73.3	<Baseline Level	75	Rock breaking at SSWSTW	Traffic
				10:16	71.4	75.9	51.3						
				10:21	68.3	72.2	48.8						
				10:26	73.6	77.0	51.4						
				10:31	73.5	76.2	55.2						
				10:36	70.8	74.8	54.4						
21 Apr 2022	Sunny	1.0	93.5	12:56	70.5	74.6	48.2	70.8	73.3	<Baseline Level	75	Concreting	Traffic
				13:01	72.7	72.6	47.7						
				13:06	71.9	75.3	47.9						
				13:11	67.9	72.3	46.5						
				13:16	70.9	73.6	47.3						
				13:21	69.0	72.9	47.6						
26 Apr 2022	Sunny	1.1	93.7	10:51	71.2	73.9	49.1	71.0	73.3	<Baseline Level	75	Nil	Traffic
				10:56	70.7	74.6	50.5						
				11:01	68.9	72.4	49.5						
				11:06	71.6	74.8	48.4						
				11:11	71.7	77.1	49.8						
				11:16	71.5	71.9	46.8						



**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	Baseline Level	Construction Noise Level	Limit Level	Major Construction Noise Source(s)	Other Noise Source(s)
					Leq	L10	L90						
					Unit: dB(A), (5-min)								
6 Apr 2022	Sunny	1.0	93.6	11:26	62.3	65.9	48.1	62.3	76.8	<Baseline Level	75	Excavation	Traffic
				11:31	61.5	64.3	44.5						
				11:36	64.5	65.7	47.8						
				11:41	64.6	67.0	47.6						
				11:46	58.9	63.7	42.6						
				11:51	57.4	62.9	43.0						
13 Apr 2022	Cloudy	1.0	93.6	10:46	63.9	68.0	49.9	64.6	76.8	<Baseline Level	75	Village sewer works	Traffic
				10:51	67.0	69.4	59.9						
				10:56	67.7	70.1	57.3						
				11:01	58.9	62.9	49.2						
				11:06	61.2	64.5	47.7						
				11:11	63.0	65.3	48.5						
21 Apr 2022	Sunny	1.4	93.5	11:21	57.8	62.3	47.5	60.7	76.8	<Baseline Level	75	Village sewer works	Traffic
				11:26	59.1	63.5	45.3						
				11:31	58.9	62.9	43.4						
				11:36	65.2	70.3	44.4						
				11:41	57.3	62.4	42.6						
				11:46	60.3	66.3	43.7						
26 Apr 2022	Sunny	0.8	93.7	11:26	61.1	64.8	48.7	60.1	76.8	<Baseline Level	75	Nil	Traffic
				11:31	60.2	59.7	45.3						
				11:36	60.7	62.6	45.0						
				11:41	61.6	65.9	45.2						
				11:46	58.0	61.5	44.2						
				11:51	57.9	60.5	46.1						



**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	Baseline Level	Construction Noise Level	Limit Level	Major Construction Noise Source(s)	Other Noise Source(s)
					Leq	L10	L90						
					Unit: dB(A), (5-min)								
6 Apr 2022	Sunny	1.4	93.6	13:11	67.6	70.1	60.5	67.9	73.6	<Baseline Level	75	Excavation, grinding	Traffic
				13:16	65.2	67.8	57.5						
				13:21	65.4	68.1	56.7						
				13:26	68.8	69.8	61.3						
				13:31	70.4	74.4	60.7						
				13:36	67.7	70.1	61.5						
13 Apr 2022	Cloudy	1.1	93.6	11:21	62.8	66.2	52.5	64.9	73.6	<Baseline Level	75	Trial pit	Traffic
				11:26	62.4	65.0	51.6						
				11:31	63.7	67.4	53.1						
				11:36	68.3	70.6	52.9						
				11:41	65.4	68.3	55.0						
				11:46	63.5	67.2	53.5						
21 Apr 2022	Sunny	1.3	93.5	10:51	62.1	65.7	56.4	64.7	73.6	<Baseline Level	75	Trial pit excavation	Traffic
				10:56	62.8	65.7	55.5						
				11:01	65.0	67.4	55.7						
				11:06	66.6	69.7	58.1						
				11:11	66.1	69.7	57.4						
				11:16	63.6	67.5	55.1						
26 Apr 2022	Sunny	1.4	93.7	14:16	67.4	71.2	62.2	66.5	73.6	<Baseline Level	75	Nil	Traffic
				14:21	67.6	68.9	61.9						
				14:26	67.9	68.9	61.8						
				14:31	63.7	65.3	62.0						
				14:36	65.6	68.5	62.2						
				14:41	65.1	67.3	62.1						



**Noise Monitoring Result**

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

Location: N14 - Fence in front of South Lantau Community Centre

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)			Unit: dB(A), (30-min)					
6 Apr 2022	Sunny	1.7	93.6	12:36	59.0	61.2	44.4	61.9	62.2	<Baseline Level	75	Trial pit	Traffic
				12:41	59.0	58.4	44.8						
				12:46	63.9	65.7	46.5						
				12:51	63.5	64.8	47.9						
				12:56	59.8	61.7	48.1						
				13:01	63.3	65.5	49.4						
13 Apr 2022	Cloudy	1.5	93.6	12:56	57.7	60.0	42.5	61.5	62.2	<Baseline Level	75	Nil	Traffic
				13:01	57.9	61.1	40.8						
				13:06	62.9	64.2	42.2						
				13:11	63.3	67.0	44.4						
				13:16	63.1	62.2	43.9						
				13:21	60.6	61.4	42.5						
21 Apr 2022	Sunny	1.4	93.5	9:41	59.5	62.7	49.1	61.2	62.2	<Baseline Level	75	Nil	Traffic
				9:46	62.7	65.1	49.8						
				9:51	62.7	66.2	51.8						
				9:56	62.2	64.6	52.6						
				10:01	59.7	61.6	54.0						
				10:06	58.8	61.7	47.7						
26 Apr 2022	Sunny	1.6	93.7	13:41	63.7	66.7	46.7	61.8	62.2	<Baseline Level	75	Nil	Traffic, sports
				13:46	63.6	61.9	46.6						
				13:51	60.4	62.7	47.6						
				13:56	62.4	63.9	50.3						
				14:01	61.4	63.1	47.8						
				14:06	53.6	56.5	42.9						





**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)								
6 Apr 2022	Sunny	2.8	93.6	12:06	49.7	51.6	44.0	48.3	62.3	<Baseline Level	70	Nil	Traffic
				12:11	46.1	48.3	42.6						
				12:16	48.9	51.4	44.3						
				12:21	48.2	51.2	43.2						
				12:26	47.9	50.3	42.4						
				12:31	48.1	50.3	43.1						
13 Apr 2022	Cloudy	2.2	93.6	13:31	49.1	52.1	42.7	48.8	62.3	<Baseline Level	70	Nil	Non-project related concrete breaking, grinding
				13:36	48.7	52.1	43.4						
				13:41	49.8	53.5	42.4						
				13:46	48.4	51.4	43.1						
				13:51	49.3	49.9	43.1						
				13:56	47.3	50.0	42.0						
21 Apr 2022	Sunny	2.0	93.5	10:16	50.0	52.5	46.5	49.7	62.3	<Baseline Level	70	Nil	Traffic
				10:21	49.7	51.5	47.3						
				10:26	49.8	52.0	46.6						
				10:31	49.1	50.9	46.8						
				10:36	48.2	50.4	44.1						
				10:41	51.1	53.3	47.9						
26 Apr 2022	Sunny	3.6	93.7	13:01	59.1	62.6	50.4	55.1	62.3	<Baseline Level	70	Nil	Traffic, school activities
				13:06	54.6	57.6	49.8						
				13:11	51.6	53.8	48.6						
				13:16	55.3	58.5	49.4						
				13:21	53.8	56.2	49.0						
				13:26	50.6	52.3	48.1						

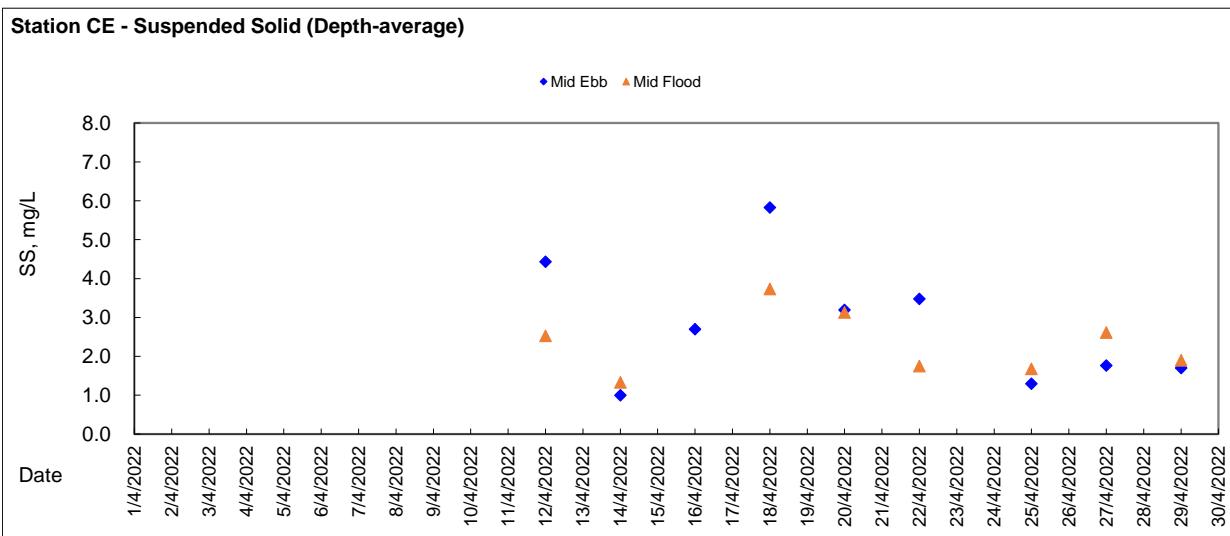
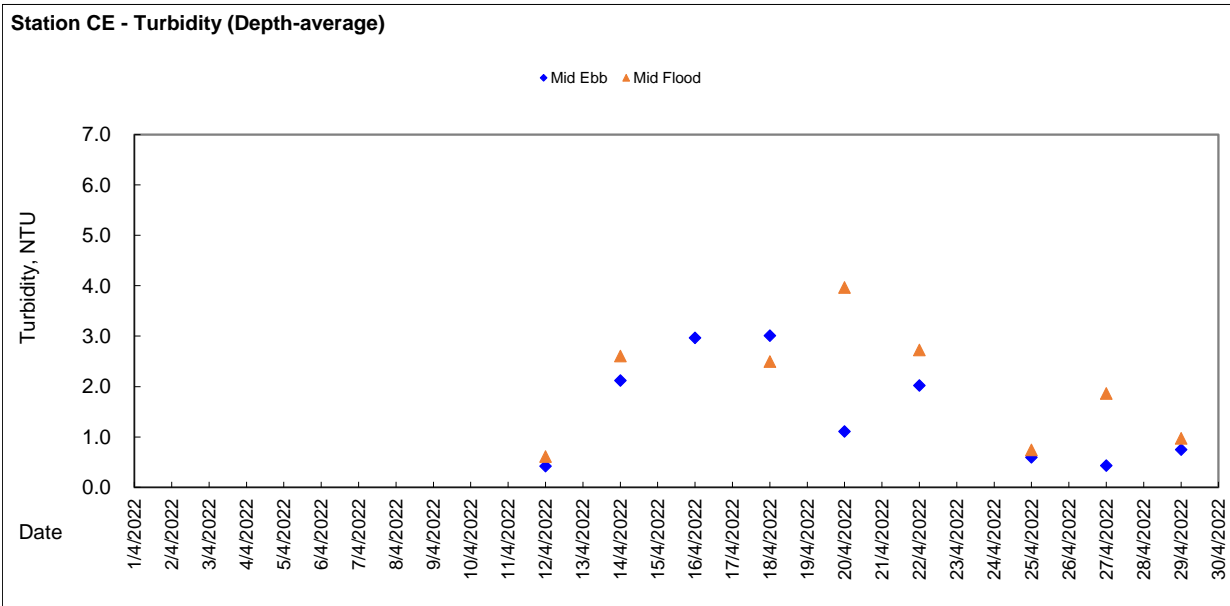
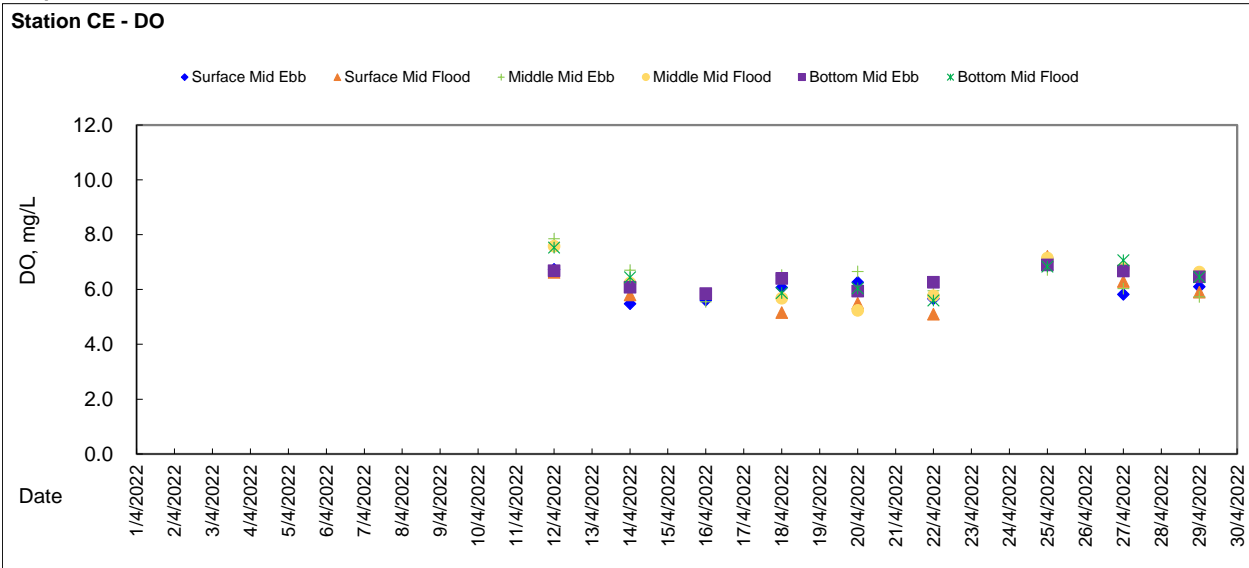


***Appendix 5.2***

***Marine Water Quality Monitoring Graphical and Summary of Exceedance Presentations***

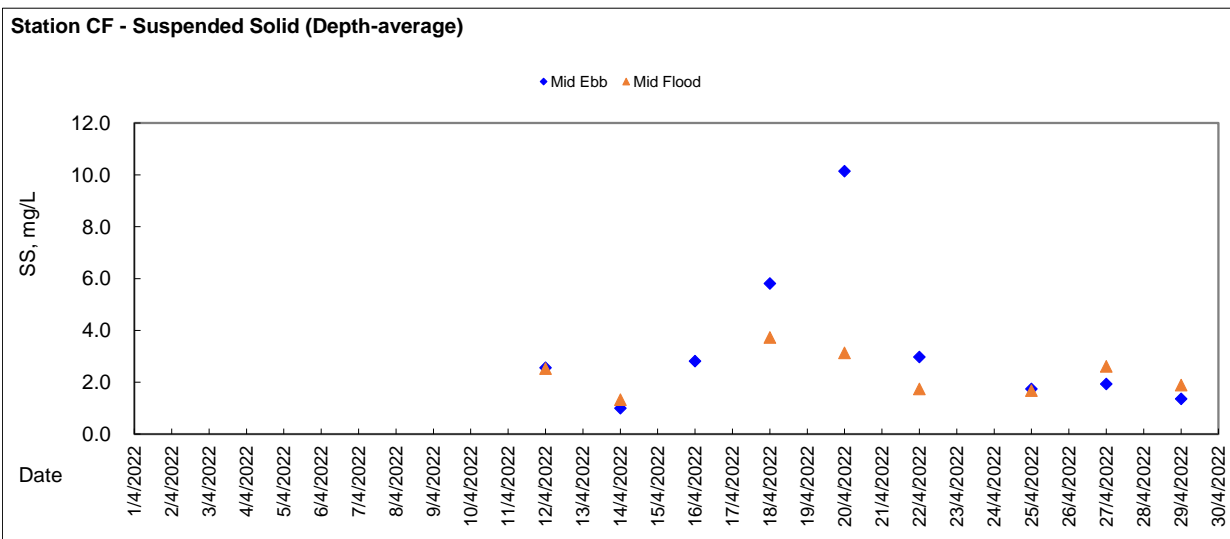
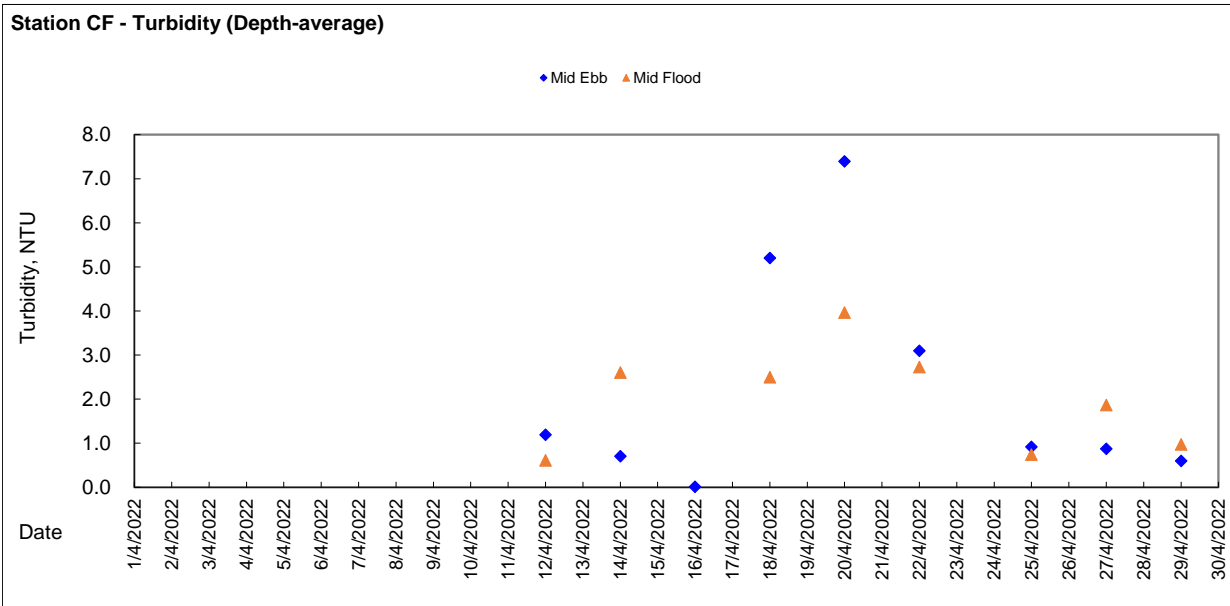
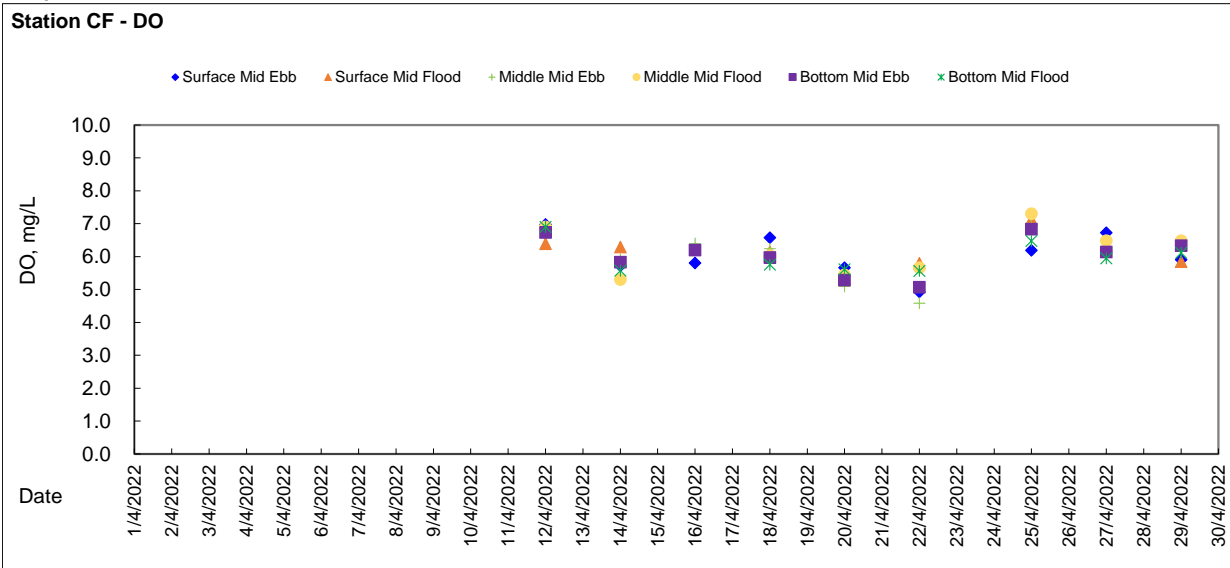


**Graphic Presentation of WQM Result**



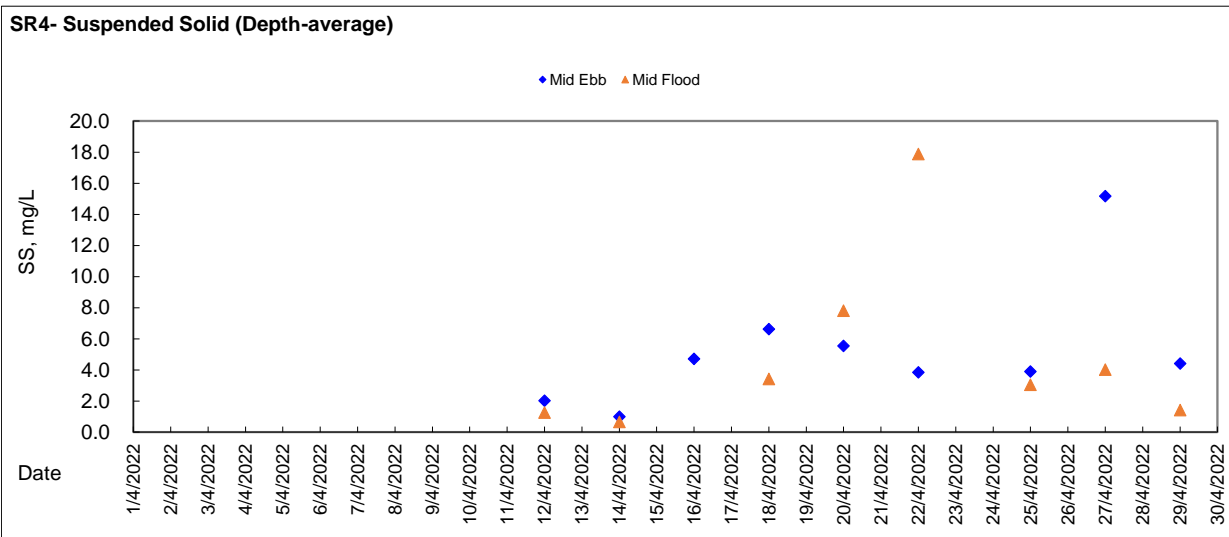
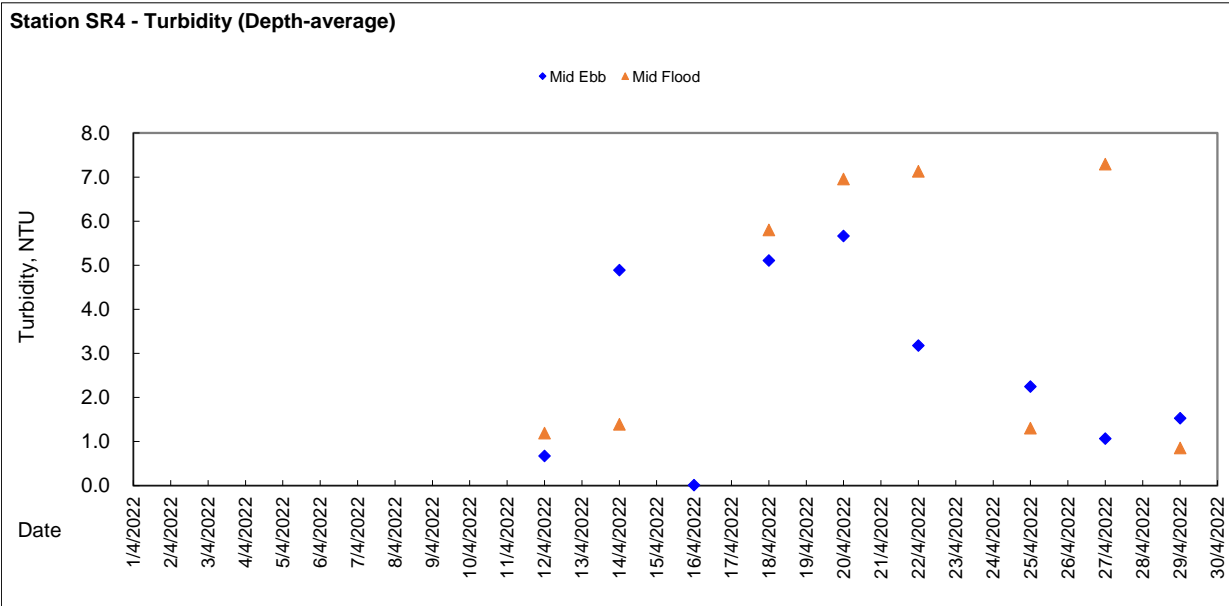
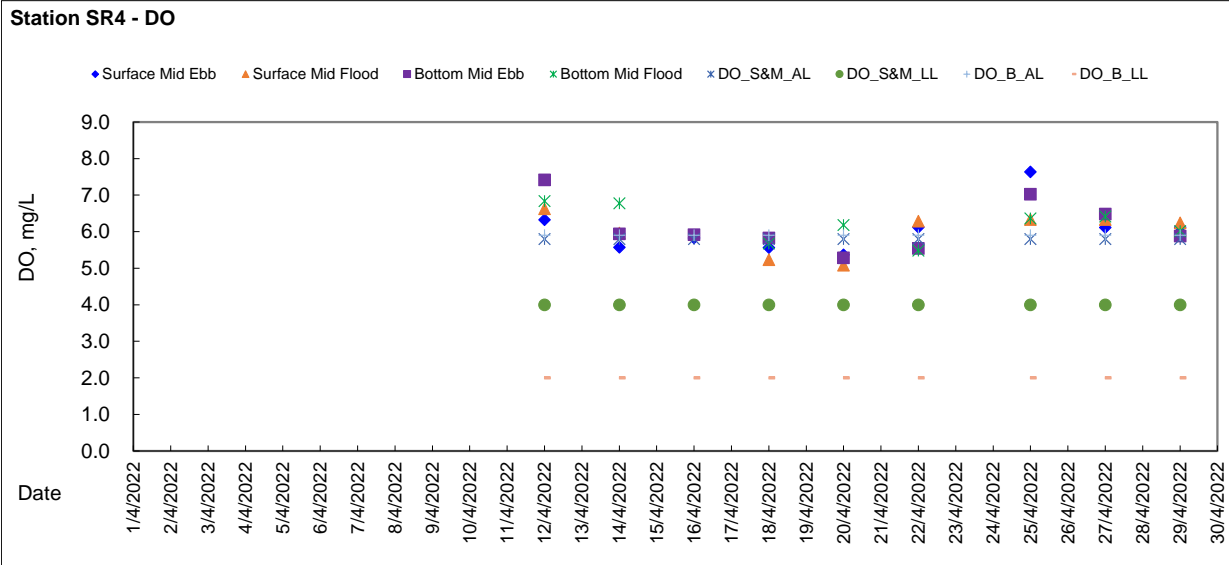


Graphic Presentation of WQM Result



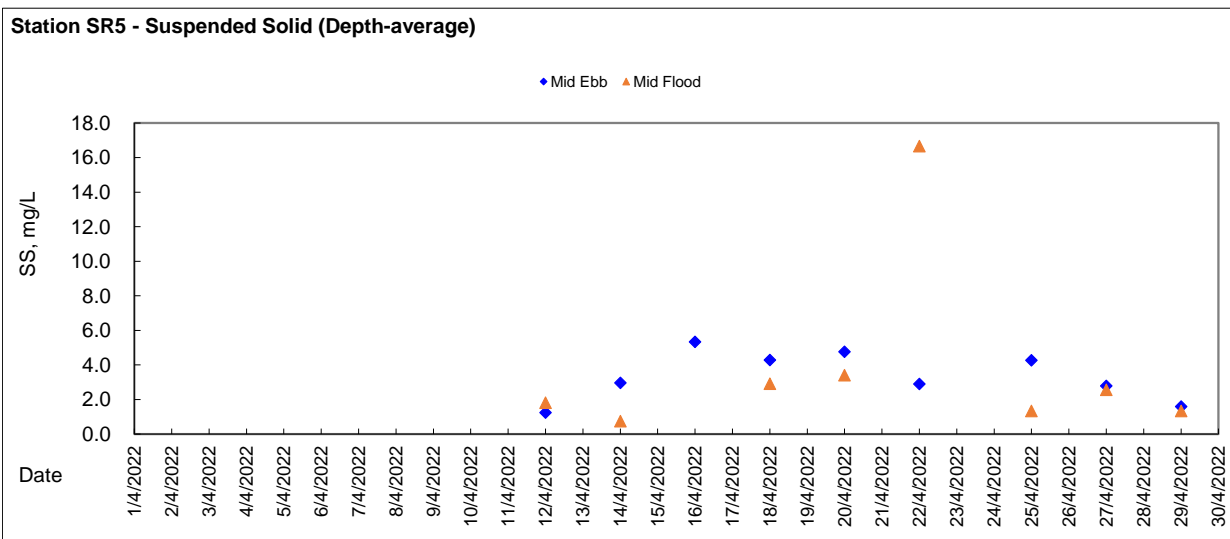
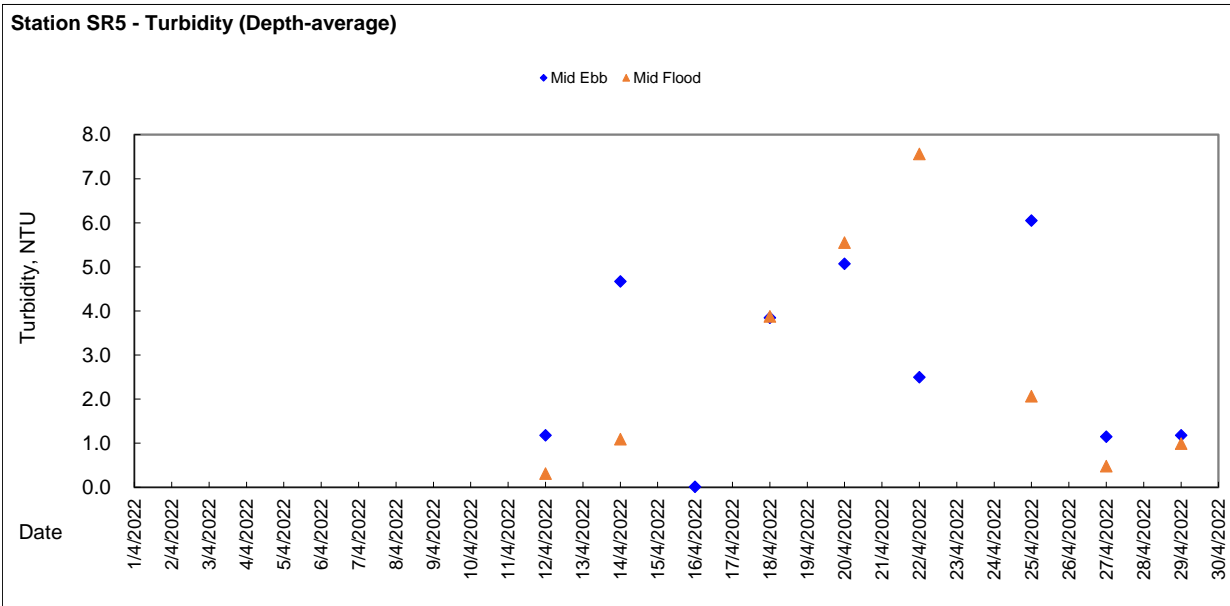
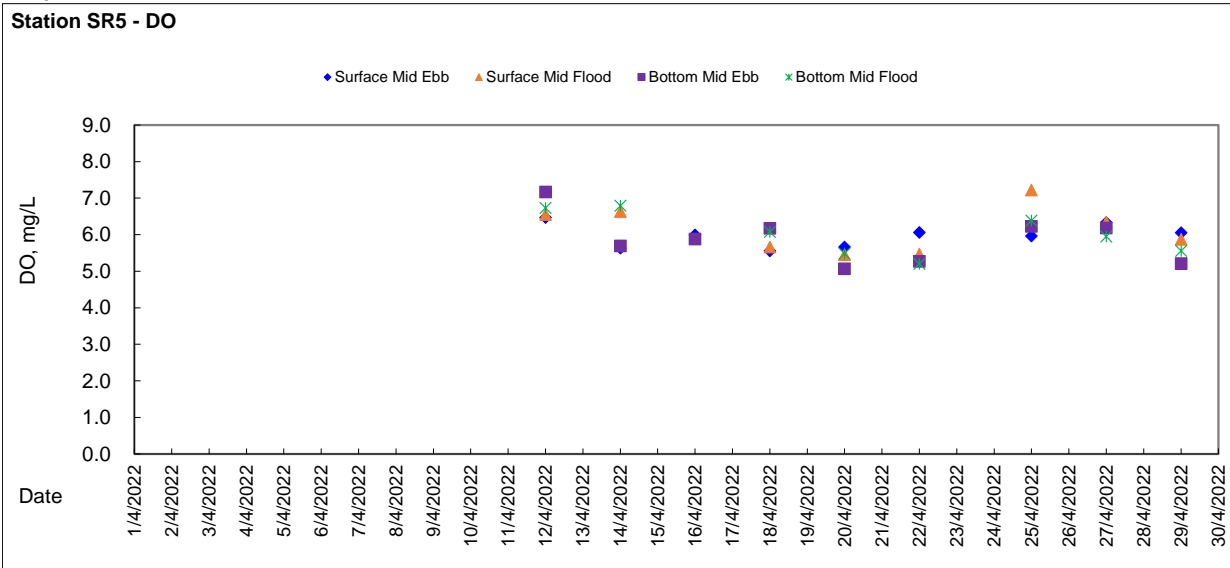


**Graphic Presentation of WQM Result**



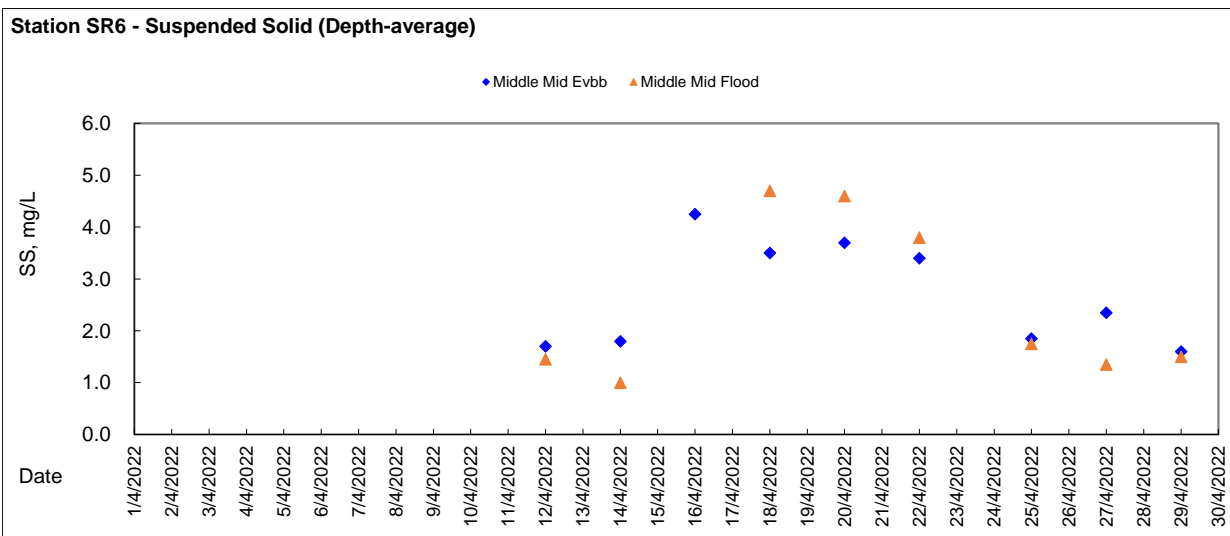
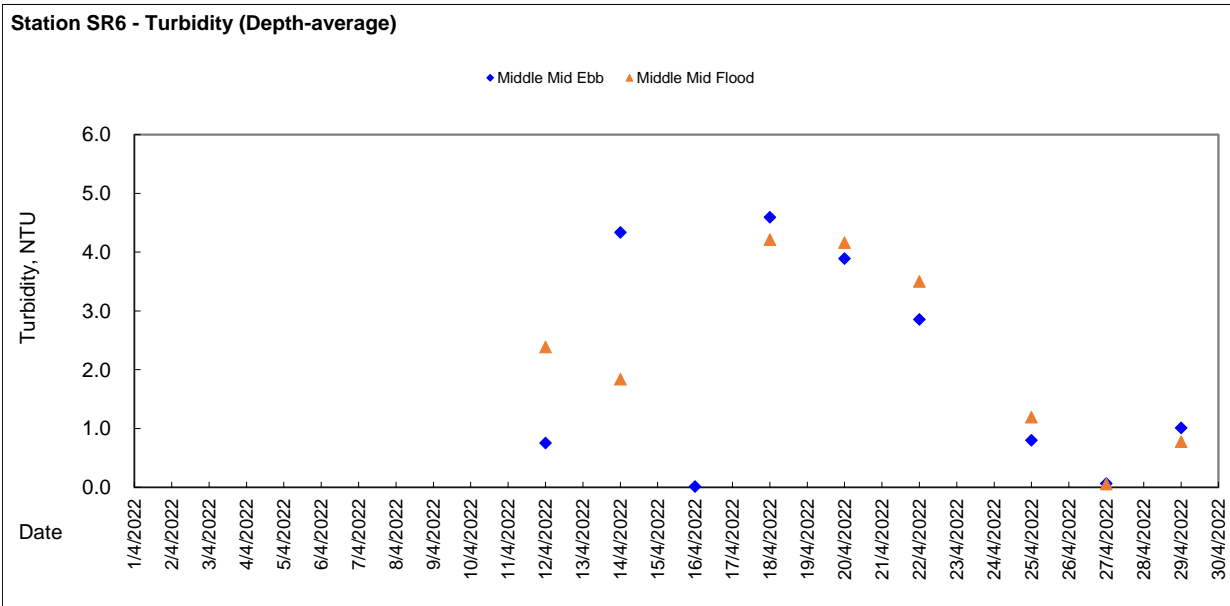
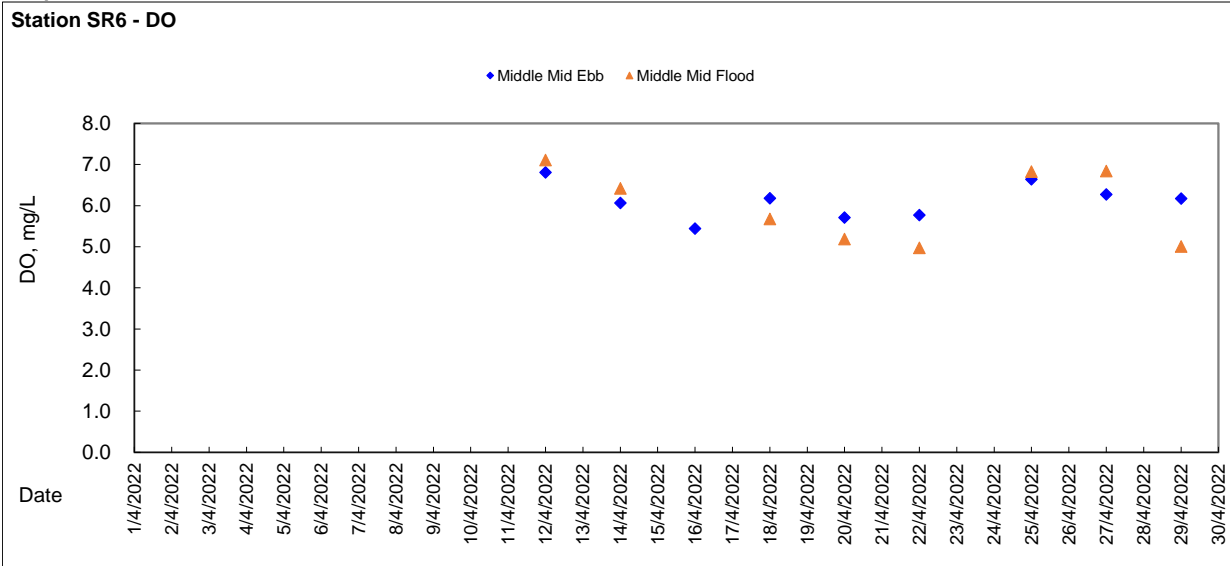


Graphic Presentation of WQM Result



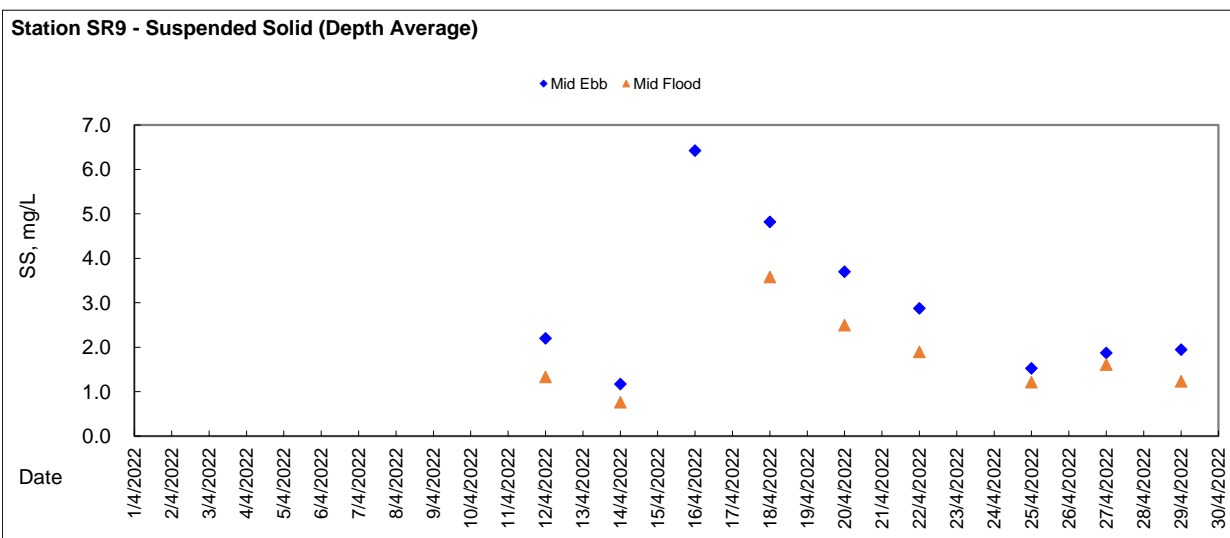
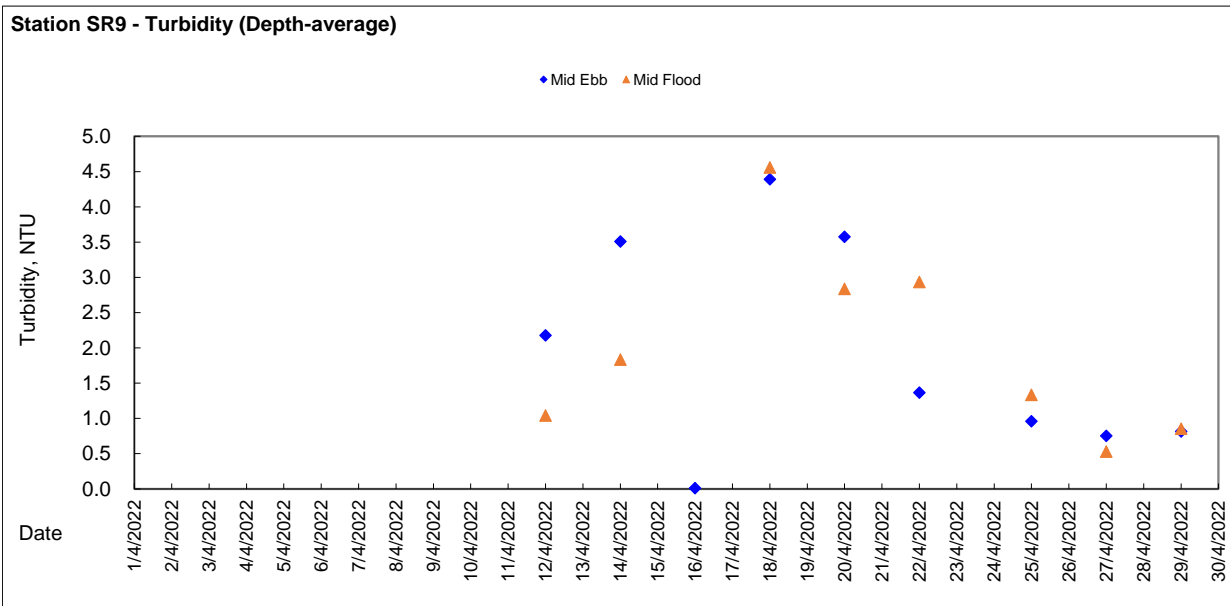
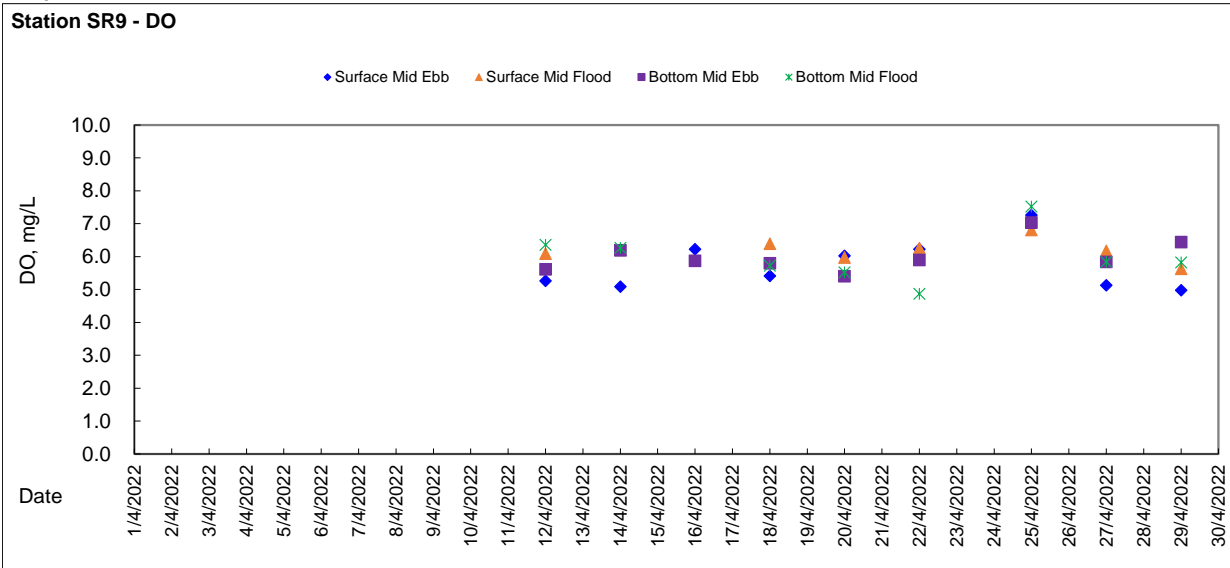


Graphic Presentation of WQM Result





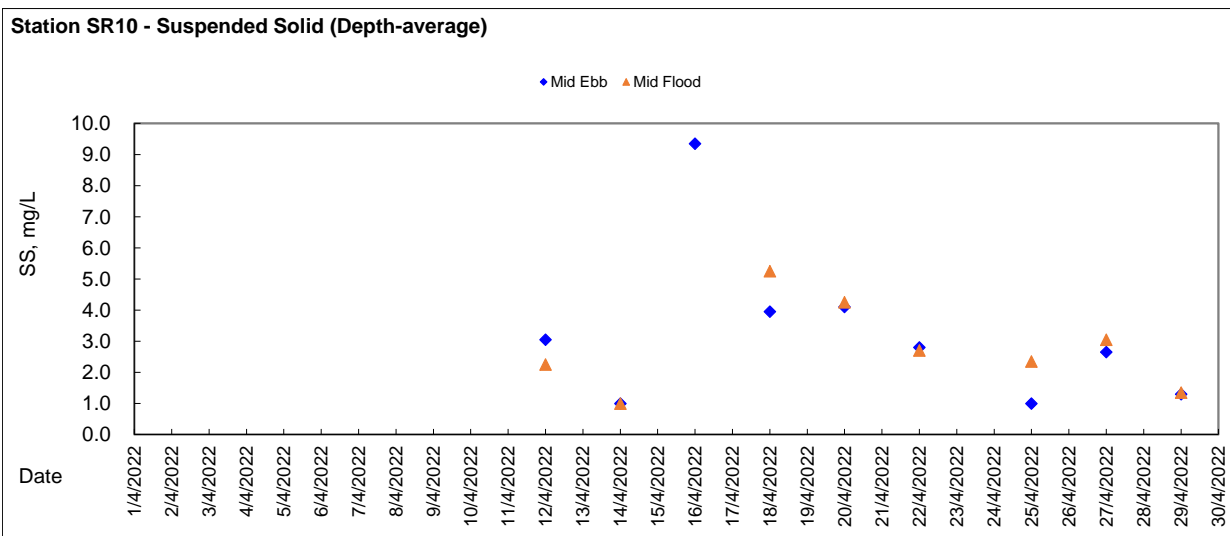
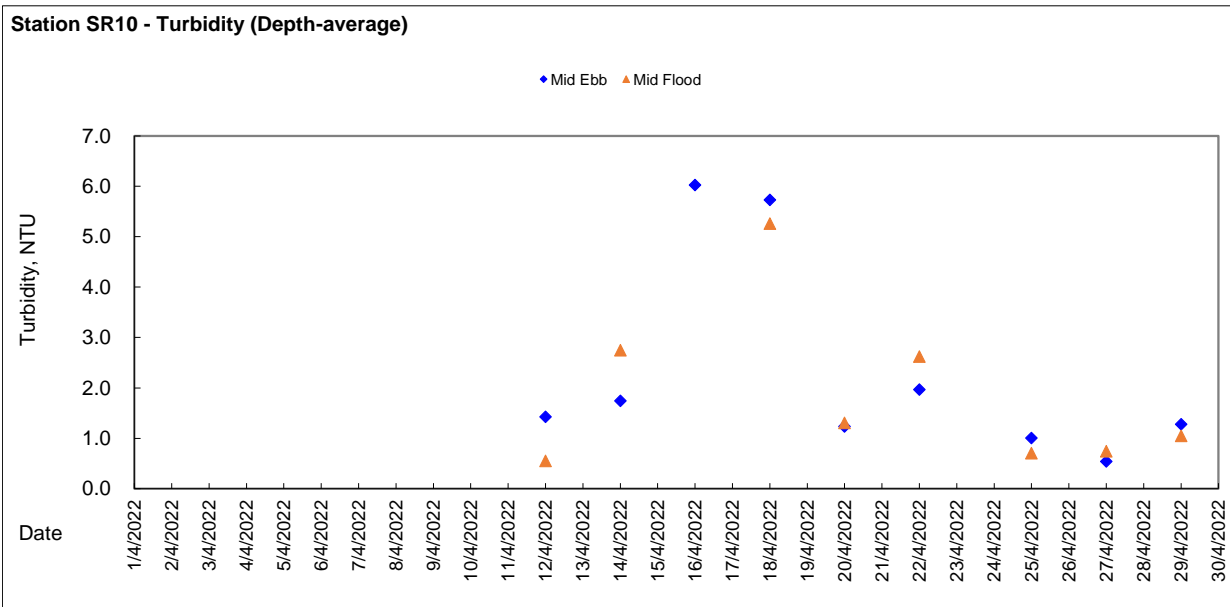
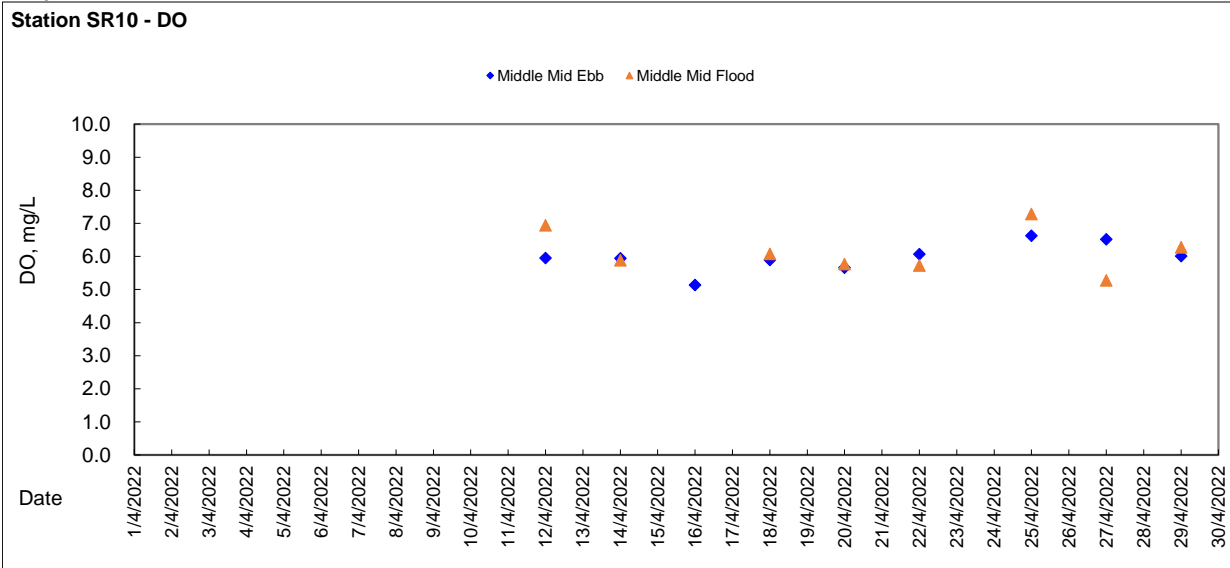
Graphic Presentation of WQM Result





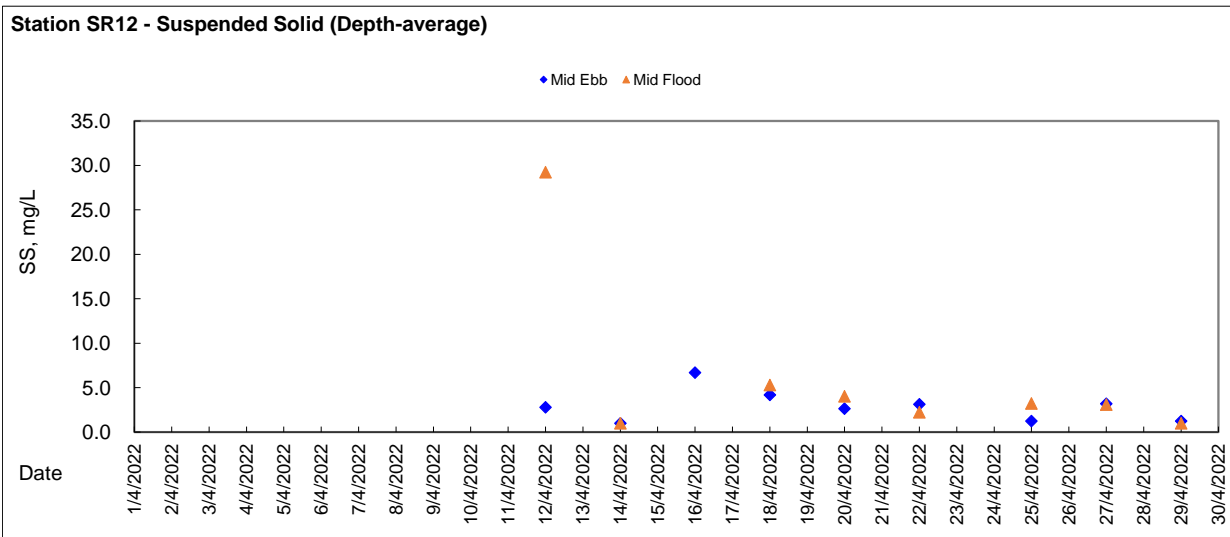
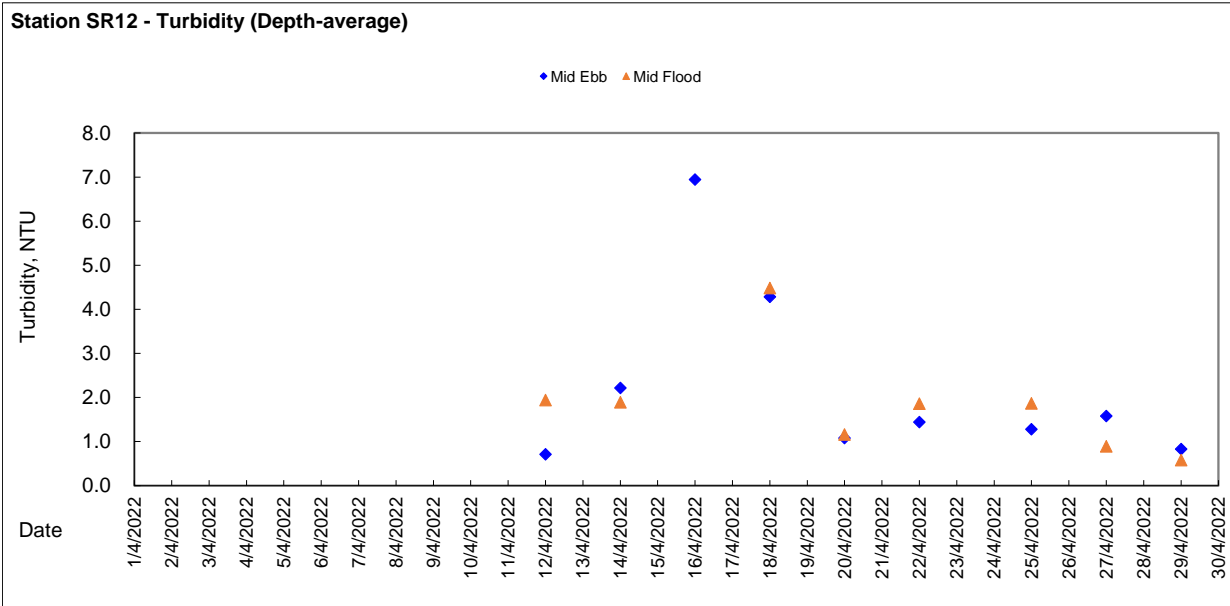
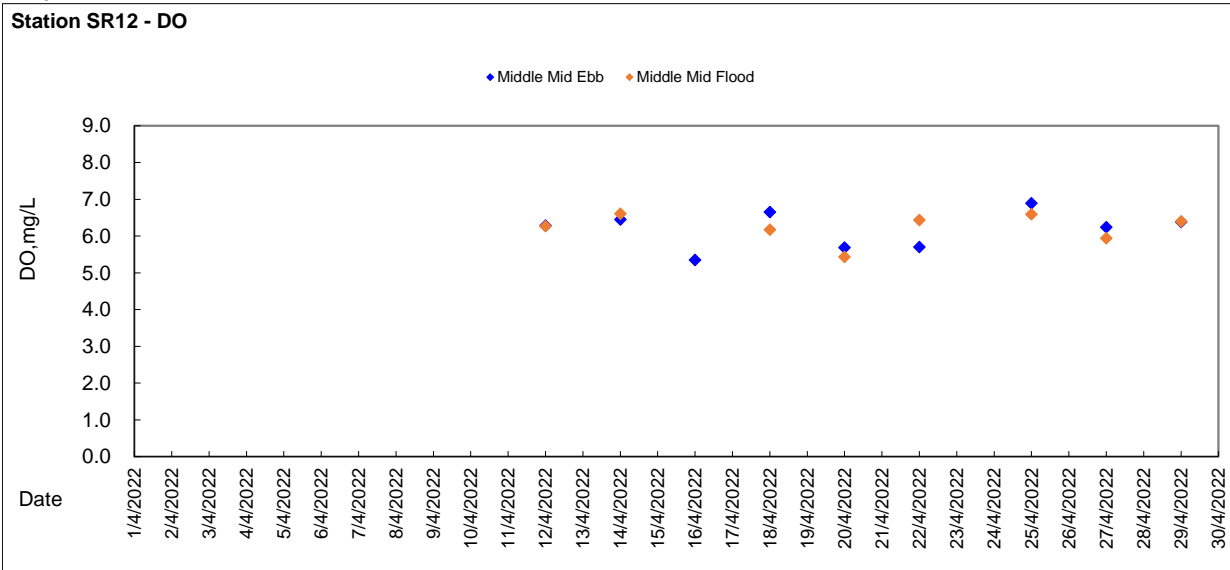


Graphic Presentation of WQM Result



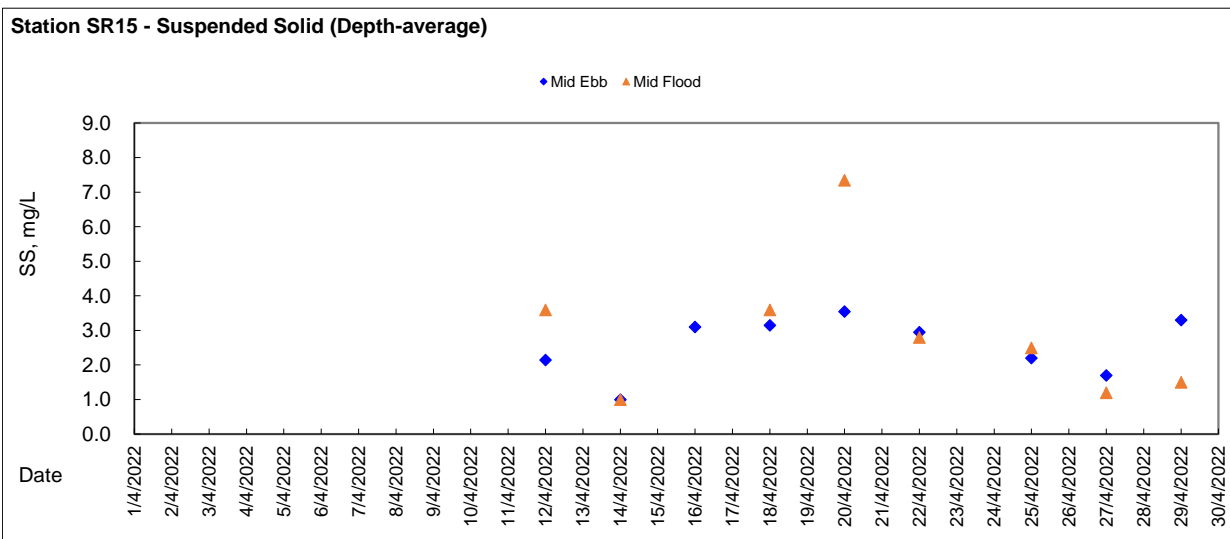
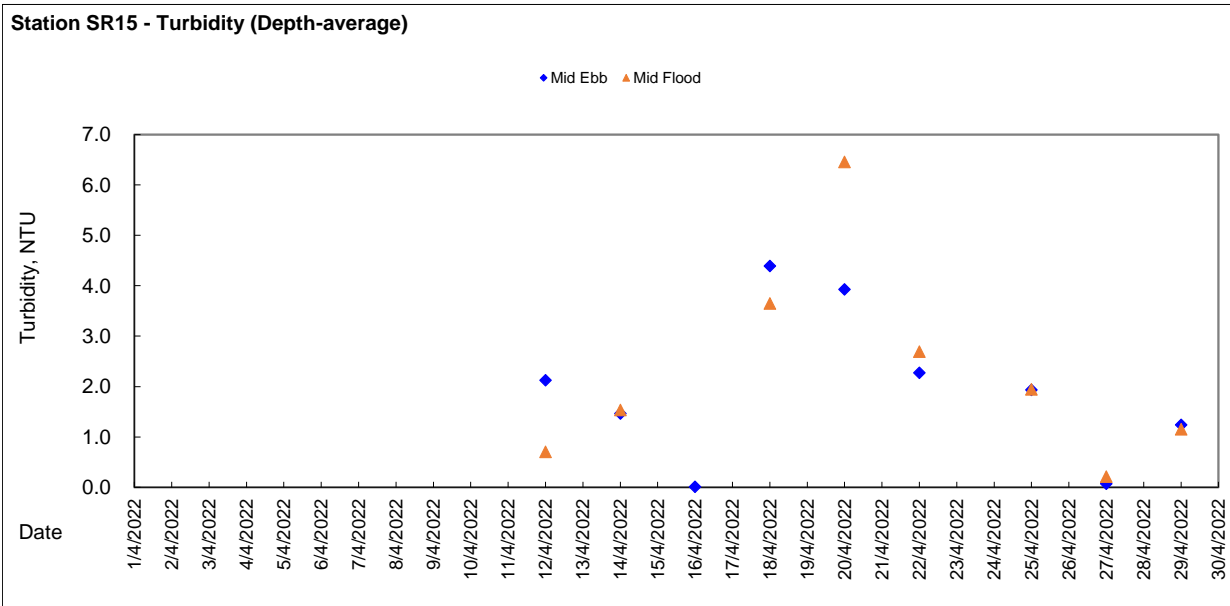
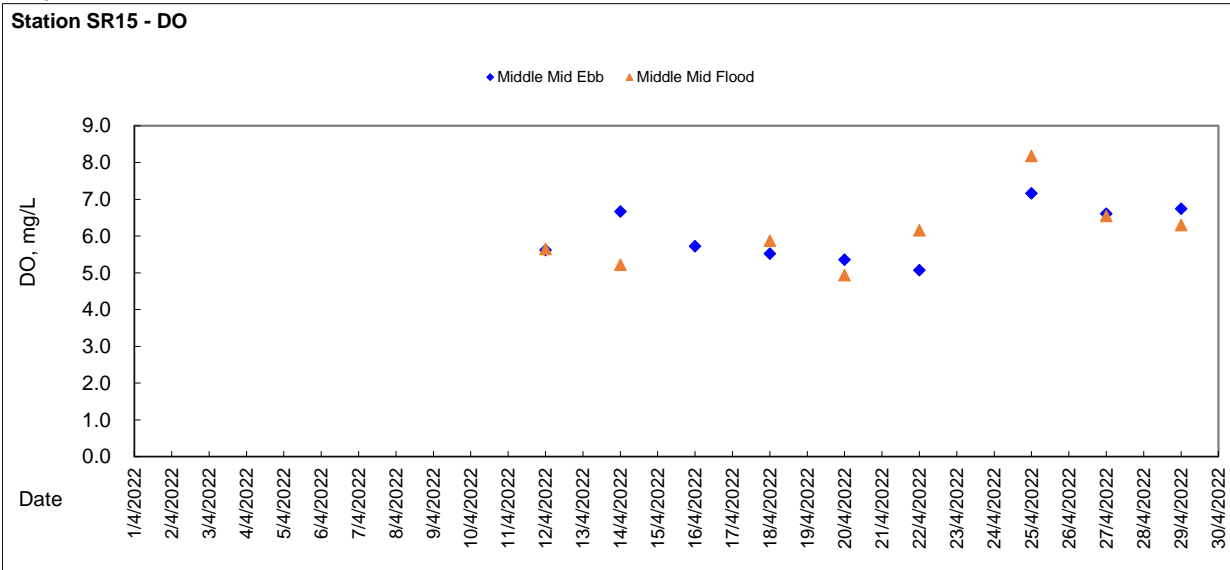


Graphic Presentation of WQM Result





Graphic Presentation of WQM Result



**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
SR4	12/4/2022	Sunny	11:13	3.6	1.0	24.30	24.35	8.52	8.53	30.93	30.89	88.80	90.20	6.23	6.33	0.59	0.66	1.2	1.4		
			11:15	3.6	1.0	24.40		8.54		30.85		91.60		6.42		0.73		1.5			
	14/4/2022	Sunny	9:51	4.2	1.0	23.80	23.70	8.22	8.23	30.70	30.70	70.60	75.95	5.17	5.57	6.09	6.05	<1.0	1.0		
			9:53	4.2	1.0	23.60		8.23		30.69		81.30		5.97		6.01		<1.0			
	16/4/2022	Monsoon signal	9:25	3.7	1.0	22.10	22.10	8.29	8.29	31.43	31.28	85.20	80.15	6.20	5.83	0.01	0.01	3.6	3.7		
			9:27	3.7	1.0	22.10		8.29		31.13		75.10		5.46		0.01		3.8			
	18/4/2022	Cloudy	11:26	4.0	1.0	21.60	21.60	8.38	8.38	32.30	32.31	71.50	76.25	5.22	5.57	5.41	4.62	5.0	4.7		
			11:28	4.0	1.0	21.60		8.38		32.32		81.00		5.91		3.83		4.4			
	20/4/2022	Cloudy	11:22	3.9	1.0	21.50	21.50	8.35	8.35	32.55	32.58	72.00	73.55	5.26	5.37	5.11	5.55	6.5	6.3		
			11:24	3.9	1.0	21.50		8.35		32.61		75.10		5.48		5.98		6.0			
	22/4/2022	Cloudy	11:02	3.8	1.0	23.60	23.60	8.34	8.35	32.53	32.54	86.70	87.05	6.10	6.13	2.77	2.25	2.8	2.7		
			11:04	3.8	1.0	23.60		8.35		32.54		87.40		6.15		1.73		2.6			
	25/4/2022	Cloudy	9:49	3.1	1.0	25.10	25.10	8.09	8.13	31.47	31.34	116.30	110.65	8.02	7.64	0.44	1.00	3.4	3.4		
			9:51	3.1	1.0	25.10		8.16		31.21		105.00		7.25		1.56		3.4			
	27/4/2022	Sunny	9:09	3.1	1.0	26.20	26.15	8.37	8.38	29.63	29.67	83.20	89.25	5.70	6.12	0.01	0.40	8.9	5.6		
			9:11	3.1	1.0	26.10		8.38		29.70		95.30		6.53		0.79		2.2			
	29/4/2022	Sunny	9:16	0.0	1.0	26.20	26.30	8.40	8.40	29.48	29.42	86.50	89.45	5.93	6.12	1.12	1.23	8.9	5.6		
			9:18	0.0	1.0	26.40		8.40		29.36		92.40		6.31		1.34		2.2			

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 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		
SR4	12/4/2022	Sunny	15:37	3.4	1.0	25.50	25.50	8.57	8.58	30.85	30.76	94.30	96.40	6.48	6.63	1.59	1.13	1.8	1.6		
			15:39	3.4	1.0	25.50		8.58		30.67		98.50		6.78		0.66		1.4			
	14/4/2022	Sunny	13:16	4.0	1.0	24.60	24.65	8.54	8.55	30.28	30.24	83.60	85.10	5.86	5.97	0.01	1.03	<1.0	1.0		
			13:18	4.0	1.0	24.70		8.55		30.20		86.60		6.07		2.04		<1.0			
	16/4/2022	Monsoon signal	0:00	0.0	1.0	-	-	Sampling was cancelled due to adverse weather													
	18/4/2022	Cloudy	9:22	3.8	1.0	21.20	21.30	8.16	8.17	32.35	32.32	62.30	71.30	4.58	5.24	6.50	5.80	4.6	4.7		
			9:24	3.8	1.0	21.40		8.17		32.28		80.30		5.89		5.09		4.8			
	20/4/2022	Cloudy	9:22	3.8	1.0	21.20	21.20	8.17	8.18	32.61	32.58	62.70	69.20	4.60	5.08	5.24	6.10	10.6	10.8		
			9:24	3.8	1.0	21.20		8.19		32.54		75.70		5.56		6.95		11.0			
	22/4/2022	Cloudy	9:03	3.7	1.0	23.10	23.10	8.01	8.03	32.46	32.42	83.00	86.10	6.25	6.29	3.20	2.76	3.2	3.2		
			9:05	3.7	1.0	23.10		8.05		32.38		89.20		6.33		2.32		3.1			
	25/4/2022	Cloudy	11:45	3.3	1.0	26.00	25.85	8.42	8.43	31.44	31.46	116.30	98.65	7.91	6.72	0.52	1.26	2.2	2.3		
			11:47	3.3	1.0	25.70		8.44		31.47		81.00		5.53		2.00		2.4			
	27/4/2022	Sunny	10:52	3.2	1.0	26.60	26.60	8.44	8.45	29.48	29.49	91.10	93.05	6.20	6.33	0.15	0.92	3.8	3.7		
			10:54	3.2	1.0	26.60		8.45		29.49		95.00		6.46		1.68		3.5			
	29/4/2022	Sunny	12:46	0.0	1.0	26.60	26.65	8.51	8.51	28.71	28.72	85.20	91.65	5.81	6.25	0.24	0.78	<1.0	1.0		
			12:48	0.0	1.0	26.70		8.51		28.73		98.10		6.68		1.31		<1.0			

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 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
SR4	12/4/2022	Sunny	11:16	3.6	2.6	23.80	23.85	8.59	8.60	30.88	30.88	104.70	105.00	7.41	7.42	0.73	0.68	2.6	2.7		
			11:18	3.6	2.6	23.90		8.60		30.88		105.30		7.43		0.63		2.8			
	14/4/2022	Sunny	9:57	4.2	3.2	23.20	23.15	8.41	8.42	30.85	30.88	81.30	75.90	5.93	5.94	4.10	3.72	<1.0	1.0		
			9:59	4.2	3.2	23.10		8.42		30.90		70.50		5.95		3.34		<1.0			
	16/4/2022	Monsoon signal	9:29	4.0	2.7	22.20	22.25	8.32	8.32	31.45	31.44	85.50	81.75	6.20	5.92	0.01	0.01	5.9	5.8		
			9:31	3.7	2.7	22.30		8.31		31.43		78.00		5.64		0.01		5.6			
	18/4/2022	Cloudy	11:30	4.0	3.0	21.70	21.65	8.38	8.38	32.37	32.37	79.50	79.90	5.79	5.83	5.89	5.60	8.7	8.6		
			11:32	4.0	3.0	21.60		8.38		32.36		80.30		5.86		5.30		8.4			
	20/4/2022	Cloudy	11:26	3.9	2.9	21.50	21.45	8.35	8.36	32.62	32.66	81.70	72.35	5.97	5.29	6.91	5.78	5.0	4.9		
			11:28	3.9	2.9	21.40		8.36		32.69		83.00		4.60		4.65		4.7			
	22/4/2022	Cloudy	11:04	3.8	2.8	23.20	23.20	8.34	8.34	32.59	32.59	73.40	78.35	5.20	5.55	3.52	4.11	4.8	5.0		
			11:06	3.8	2.8	23.20		8.34		32.59		83.30		5.89		4.69		5.2			
	25/4/2022	Cloudy	9:53	3.1	2.1	24.80	24.80	8.17	8.19	31.58	31.58	102.60	101.40	7.11	7.03	3.50	3.49	4.2	4.4		
			9:55	3.1	2.1	24.80		8.20		31.57		100.20		6.94		3.47		4.6			
	27/4/2022	Sunny	9:13	3.1	2.1	26.10	26.10	8.39	8.39	29.66	29.68	97.40	94.65	6.67	6.48	2.57	1.74	34.4	24.8		
			9:15	3.1	2.1	26.10		8.38		29.70		91.90		6.29		0.90		15.2			
	29/4/2022	Sunny	9:20	0.0	2.2	26.10	26.15	8.40	8.41	29.74	29.67	80.60	85.90	5.52	5.88	2.42	1.83	3.2	3.3		
			9:22	0.0	2.2	26.20		8.41		29.60		91.20		6.24		1.23		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
SR4	12/4/2022	Sunny	15:40	3.4	2.4	25.50	25.50	8.58	8.59	30.70	30.70	100.10	99.40	6.89	6.84	1.13	1.26	2.1	2.2		
			15:42	3.4	2.4	25.50		8.59		30.70		98.70		6.79		1.39		2.3			
	14/4/2022	Sunny	13:22	4.0	3.0	24.50	24.50	8.53	8.53	30.44	30.44	98.90	96.80	6.93	6.78	1.08	1.76	<1.0	1.0		
			13:24	4.0	3.0	24.50		8.53		30.44		94.70		6.63		2.44		<1.0			
	16/4/2022	Monsoon signal	0:00	0.0	-1.0	-	Sampling was cancelled due to adverse weather														
	18/4/2022	Cloudy	9:26	3.8	2.8	21.40	21.40	8.20	8.21	32.31	32.29	74.20	77.40	5.45	5.68	5.40	5.81	5.3	5.6		
			9:28	3.8	2.8	21.40		8.21		32.26		80.60		5.91		6.21		5.8			
	20/4/2022	Cloudy	9:25	3.8	2.8	21.30	21.30	8.21	8.20	32.71	32.69	82.80	84.40	6.06	6.18	7.52	7.81	12.4	12.7		
			9:27	3.8	2.8	21.30		8.19		32.67		86.00		6.30		8.10		12.9			
	22/4/2022	Cloudy	9:06	3.7	2.7	22.90	22.90	8.05	8.06	32.60	32.12	76.80	76.70	5.47	5.48	12.34	11.50	25.6	50.5		
			9:08	3.7	2.7	22.90		8.07		31.64		76.60		5.49		10.66		75.4			
	25/4/2022	Cloudy	11:50	3.3	2.3	24.90	24.90	8.38	8.39	31.67	31.68	101.20	92.80	7.00	6.42	14.97	13.33	9.6	9.8		
			11:52	3.3	2.3	24.90		8.39		31.69		84.40		5.83		11.68		10.0			
	27/4/2022	Sunny	0:00	3.2	2.2	26.40	26.40	8.43	8.43	29.93	29.93	92.50	93.35	6.30	6.36	1.41	1.70	5.8	5.5		
			3:2	2.2	26.40	8.43		29.92		94.20		6.42		1.98		5.2					
	29/4/2022	Sunny	12:50	0.0	3.3	26.78	26.74	8.51	8.51	28.90	28.88	93.50	88.25	6.37	6.02	1.36	0.93	3.4	3.3		
			12:52	0.0	3.3	26.70		8.51		28.86		83.00		5.66		0.50		3.1			

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 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
SR5	12/4/2022	Sunny	11:24	3.6	1.0	24.20	24.25	8.57	8.57	30.99	30.94	91.20	92.20	6.40	6.47	1.01	0.75	<1.0	1.0		
			11:26	3.6	1.0	24.30		8.57		30.89		93.20		6.54		0.48		<1.0			
	14/4/2022	Sunny	10:02	4.0	1.0	23.90	23.85	8.45	8.45	30.53	30.61	75.20	79.65	5.32	5.64	5.36	4.53	<1.0	1.0		
			10:04	4.0	1.0	23.80		8.45		30.69		84.10		5.95		3.70		<1.0			
	16/4/2022	Monsoon signal	9:35	4.1	1.0	22.40	22.35	8.33	8.33	31.39	31.41	86.00	82.85	6.22	6.00	0.01	0.01	6.2	6.0		
			9:37	4.1	1.0	22.30		8.33		31.43		79.70		5.77		0.01		5.8			
	18/4/2022	Cloudy	11:18	4.1	1.0	21.30	21.35	8.37	8.38	32.16	32.27	84.20	75.85	6.18	5.56	3.87	3.62	3.2	3.0		
			11:20	4.1	1.0	21.40		8.39		32.37		67.50		4.94		3.36		2.8			
	20/4/2022	Cloudy	11:16	4.1	1.0	21.30	21.35	8.35	8.35	32.37	32.43	77.40	77.30	5.68	5.67	6.26	5.65	4.2	4.0		
			11:18	4.1	1.0	21.40		8.35		32.49		77.20		5.65		5.04		3.7			
	22/4/2022	Cloudy	10:54	4.3	1.0	23.60	23.60	8.34	8.34	32.48	32.48	88.60	86.15	6.24	6.07	2.07	1.34	2.5	2.4		
			10:56	4.3	1.0	23.60		8.33		32.48		83.70		5.89		0.61		2.3			
	25/4/2022	Cloudy	9:57	3.9	1.0	24.40	24.45	8.17	8.18	31.75	31.69	80.00	85.60	5.58	5.97	6.52	7.49	3.2	3.4		
			9:59	3.9	1.0	24.50		8.19		31.62		91.20		6.35		8.45		3.5			
	27/4/2022	Sunny	9:17	4.1	1.0	25.90	25.90	8.38	8.38	30.11	30.11	88.00	92.25	6.04	6.33	1.26	1.16	3.5	3.3		
			9:19	4.1	1.0	25.90		8.38		30.10		96.50		6.62		1.05		3.1			
	29/4/2022	Sunny	9:24	0.0	1.0	26.40	26.35	8.41	8.41	29.22	29.22	91.50	88.50	6.26	6.06	2.82	1.54	1.9	1.8		
			9:26	0.0	1.0	26.30		8.41		29.21		85.50		5.85		0.25		1.7			

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 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	
SR5	12/4/2022	Sunny	15:17	4.2	1.0	24.90	24.90	8.56	8.57	30.80	30.77	97.90	94.35	6.80	6.56	0.37	0.42	3.0	3.2	
			15:19	4.2	1.0	24.90		8.58		30.74		90.80		6.31		0.46		3.4		
	14/4/2022	Sunny	13:05	3.5	1.0	24.40	24.35	8.52	8.52	30.42	30.35	95.80	94.40	6.73	6.64	1.76	1.13	1.1	1.3	
			13:07	3.5	1.0	24.30		8.51		30.28		93.00		6.54		0.49		1.4		
	16/4/2022	Monsoon signal	0:00	0.0	1.0	-	Sampling was cancelled due to adverse weather													
	18/4/2022	Cloudy	9:33	4.3	1.0	21.50	21.50	8.25	8.24	32.30	32.30	78.70	77.45	5.75	5.67	4.23	3.99	2.9	3.1	
			9:35	4.3	1.0	21.50		8.23		32.30		76.20		5.58		3.74		3.2		
	20/4/2022	Cloudy	9:29	4.5	1.0	21.20	21.25	8.24	8.25	32.56	32.59	78.30	74.45	5.74	5.46	4.99	5.52	5.8	5.6	
			9:31	4.5	1.0	21.30		8.25		32.62		70.60		5.17		6.04		5.4		
	22/4/2022	Cloudy	9:10	3.1	1.0	22.80	22.80	8.07	8.09	32.58	32.58	81.00	76.75	5.77	5.47	6.68	7.38	14.9	14.7	
			9:12	3.1	1.0	22.80		8.10		32.58		72.50		5.17		8.08		14.5		
	25/4/2022	Cloudy	11:38	4.0	1.0	25.20	25.20	8.36	8.36	31.20	31.23	102.90	104.85	7.09	7.23	0.53	1.80	2.6	2.7	
			11:40	4.0	1.0	25.20		8.35		31.25		106.80		7.36		3.06		2.7		
	27/4/2022	Sunny	10:42	4.4	1.0	26.40	26.35	8.43	8.43	29.88	29.93	90.90	93.20	6.19	6.35	0.25	0.13	2.8	2.7	
			10:44	4.4	1.0	26.30		8.43		29.97		95.50		6.51		0.01		2.5		
	29/4/2022	Sunny	12:39	0.0	1.0	27.30	27.05	8.51	8.51	28.72	28.81	80.00	86.70	5.40	5.88	1.18	0.81	1.8	1.8	
			12:41	0.0	1.0	26.80		8.50		28.89		93.40		6.35		0.43		1.8		

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 (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
SR5	12/4/2022	Sunny	11:28	3.6	2.6	23.80	23.75	8.58	8.58	31.07	31.07	102.40	101.35	7.24	7.17	0.71	1.61	1.4	1.5		
			11:30	3.6	2.6	23.70		8.58		31.06		100.30		7.10		2.50		1.6			
	14/4/2022	Sunny	10:06	4.0	3.0	23.60	23.65	8.46	8.46	30.75	30.77	80.20	80.20	5.70	5.70	5.75	4.81	7.1	5.0		
			10:08	4.0	3.1	23.70		8.45		30.78		80.20		5.69		3.87		2.8			
	16/4/2022	Monsoon signal	9:40	4.1	3.1	22.50	22.45	8.34	8.35	31.47	31.48	79.80	81.35	5.76	5.88	0.01	0.01	4.8	4.7		
			9:42	4.1	3.1	22.40		8.35		31.48		82.90		6.00		0.01		4.6			
	18/4/2022	Cloudy	11:22	4.1	3.1	21.50	21.45	8.39	8.39	32.35	32.35	84.50	84.40	6.18	6.18	4.95	4.08	5.4	5.6		
			11:24	4.1	3.1	21.40		8.39		32.35		84.30		6.17		3.20		5.8			
	20/4/2022	Cloudy	11:20	4.1	3.1	21.50	21.45	8.36	8.36	32.69	32.69	76.00	69.50	5.54	5.07	4.33	4.49	5.8	5.6		
			11:22	4.1	3.1	21.40		8.36		32.69		63.00		4.60		4.65		5.4			
	22/4/2022	Cloudy	10:58	4.3	3.3	23.20	23.20	8.34	8.34	32.47	32.53	79.70	74.40	5.65	5.27	4.07	3.65	3.6	3.4		
			11:00	4.3	3.3	23.20		8.34		32.58		69.10		4.89		3.22		3.2			
	25/4/2022	Cloudy	10:02	3.9	2.9	24.20	24.20	8.20	8.20	31.84	31.84	92.00	89.05	6.43	6.23	5.10	4.61	5.0	5.2		
			10:04	3.9	2.9	24.20		8.19		31.84		86.10		6.03		4.11		5.4			
	27/4/2022	Sunny	9:20	4.1	3.1	25.70	25.75	8.39	8.39	30.18	30.16	84.80	90.05	5.83	6.19	0.70	1.14	2.2	2.3		
			9:22	4.1	3.1	25.80		8.39		30.13		95.30		6.54		1.57		2.4			
	29/4/2022	Sunny	9:28	0.0	3.0	26.20	26.25	8.42	8.42	29.65	29.50	79.20	76.15	5.42	5.21	1.21	0.82	1.5	1.4		
			9:30	0.0	3.0	26.30		8.42		29.35		73.10		5.00		0.43		1.3			

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
SR5	12/4/2022	Sunny	15:25	4.2	3.2	25.10	24.90	8.59	8.59	30.69	30.71	97.20	96.90	6.74	6.74	0.20	0.21	2.3	2.3		
			15:27	4.2	3.2	24.70		8.59		30.73		96.60		6.73		0.21		2.2			
	14/4/2022	Sunny	13:11	3.5	2.5	24.60	24.55	8.53	8.53	30.25	30.23	96.80	96.75	6.79	6.79	0.47	1.06	<1.0	1.0		
			13:13	3.5	2.5	24.50		8.53		30.20		96.70		6.79		1.65		<1.0			
	16/4/2022	Monsoon signal	0:00	0.0	-1.0	-	Sampling was cancelled due to adverse weather														
	18/4/2022	Cloudy	9:37	4.3	3.3	21.50	21.50	8.27	8.27	32.31	32.31	85.70	83.10	6.27	6.08	3.63	3.76	5.4	5.7		
			9:39	4.3	3.3	21.50		8.26		32.31		80.50		5.88		3.89		6.0			
	20/4/2022	Cloudy	9:33	4.5	3.5	21.30	21.35	8.26	8.26	32.60	32.61	79.30	74.90	5.81	5.49	4.82	5.59	4.5	4.7		
			9:35	4.5	3.5	21.40		8.26		32.62		70.50		5.16		6.35		4.8			
	22/4/2022	Cloudy	9:15	3.1	2.1	23.00	23.00	8.10	8.12	32.54	32.54	66.80	73.25	4.74	5.20	8.03	7.74	42.3	35.3		
			9:17	3.1	2.1	23.00		8.14		32.53		79.70		5.66		7.44		28.3			
	25/4/2022	Cloudy	11:42	4.0	3.0	24.90	24.90	8.36	8.36	31.39	31.39	95.30	92.15	6.60	6.39	3.14	2.34	1.4	1.4		
			11:44	4.0	3.0	24.90		8.36		31.38		89.00		6.17		1.53		1.4			
	27/4/2022	Sunny	10:46	4.4	3.4	25.90	25.90	8.43	8.43	30.26	30.25	90.40	86.80	6.20	5.95	1.27	0.83	4.9	5.1		
			10:48	4.4	3.4	25.90		8.43		30.23		83.20		5.70		0.39		5.2			
	29/4/2022	Sunny	12:43	0.0	3.0	26.70	26.70	8.50	8.50	28.93	28.94	74.90	81.65	5.10	5.56	0.88	1.18	2.1	2.3		
			12:45	0.0	3.0	26.70		8.50		28.95		88.40		6.02		1.47		2.4			

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
SR6	12/4/2022	Sunny	11:48	2.5	1.3	24.40	24.45	8.55	8.56	30.62	30.61	98.70	97.15	6.92	6.81	0.72	0.75	1.8	1.7		
			11:50	2.5	1.3	24.50		8.56		30.60		95.60		6.70		0.78		1.6			
	14/4/2022	Sunny	10:20	6.0	3.0	22.60	22.60	8.39	8.39	31.68	31.59	93.50	84.25	6.73	6.07	3.63	4.34	1.8	1.8		
			10:22	6.0	1.4	22.60		8.39		31.49		75.00		5.40		5.04		1.8			
	16/4/2022	Monsoon signal	9:46	2.7	1.4	22.30	22.20	8.34	8.34	31.41	31.46	74.60	75.00	5.41	5.45	0.01	0.01	4.4	4.3		
			9:48	2.7	1.4	22.10		8.34		31.51		75.40		5.48		0.01		4.1			
	18/4/2022	Cloudy	11:07	2.7	1.4	21.60	21.55	8.38	8.38	32.32	32.11	79.90	84.50	5.83	6.18	4.57	4.59	3.6	3.5		
			11:09	2.7	1.4	21.50		8.38		31.90		89.10		6.53		4.61		3.4			
	20/4/2022	Cloudy	11:05	2.9	1.5	21.60	21.50	8.37	8.37	31.96	32.27	79.00	78.10	5.78	5.71	4.58	3.89	3.6	3.7		
			11:07	2.9	1.5	21.40		8.36		32.57		77.20		5.64		3.20		3.8			
	22/4/2022	Cloudy	10:43	2.7	1.4	23.30	23.30	8.32	8.32	31.91	32.19	80.30	81.40	5.70	5.77	2.69	2.86	3.3	3.4		
			10:45	2.7	1.4	23.30		8.31		32.47		82.50		5.84		3.02		3.5			
	25/4/2022	Cloudy	10:08	2.4	1.2	24.80	24.80	8.24	8.26	31.41	31.41	98.00	95.80	6.79	6.64	1.59	0.80	1.9	1.9		
			10:10	2.4	1.2	24.80		8.27		31.40		93.60		6.49		0.01		1.8			
	27/4/2022	Sunny	9:25	3.4	1.7	25.90	25.90	8.39	8.40	30.22	30.21	90.00	91.45	6.17	6.27	0.01	0.07	2.2	2.4		
			9:27	3.4	1.7	25.90		8.40		30.19		92.90		6.37		0.12		2.5			
	29/4/2022	Sunny	9:32	0.0	1.4	26.30	26.35	8.45	8.46	28.74	18.60	88.00	90.00	6.04	6.18	0.38	1.01	1.5	1.6		
			9:34	0.0	1.4	26.40		8.46		28.74		92.00		6.31		1.64		1.7			

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 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
SR6	12/4/2022	Sunny	14:59	2.6	1.3	25.30	25.25	8.56	8.56	30.63	30.64	102.80	102.90	7.10	7.11	1.28	2.39	1.6	1.5		
			15:01	2.6	1.3	25.20		8.55		30.64		103.00		7.12		3.49		1.3			
	14/4/2022	Sunny	12:50	2.7	1.4	24.20	24.25	8.47	8.47	30.85	30.82	91.40	91.75	6.41	6.42	2.14	1.84	<1.0	1.0		
			12:52	2.7	1.4	24.30		8.47		30.79		92.10		6.43		1.54		<1.0			
	16/4/2022	Monsoon signal	0:00	0.0	0.0	-	Sampling was cancelled due to adverse weather														
	18/4/2022	Cloudy	9:43	2.0	1.0	21.60	21.55	8.29	8.28	31.19	31.64	77.90	77.45	5.72	5.68	4.54	4.22	4.4	4.7		
			9:45	2.0	1.0	21.50		8.26		32.09		77.00		5.63		3.89		5.0			
	20/4/2022	Cloudy	9:43	3.1	1.6	21.10	21.20	8.27	8.28	32.67	32.69	65.00	70.70	4.78	5.19	4.59	4.16	4.8	4.6		
			9:45	3.1	1.6	21.30		8.28		32.70		76.40		5.59		3.73		4.4			
	22/4/2022	Cloudy	9:22	3.1	1.6	23.10	23.10	8.19	8.18	32.55	32.56	72.30	70.05	5.13	4.97	2.98	3.50	3.6	3.8		
			9:24	3.1	1.6	23.10		8.17		32.57		67.80		4.81		4.02		4.0			
	25/4/2022	Cloudy	11:32	2.8	1.4	25.10	25.10	8.37	8.37	31.10	31.13	101.20	98.75	6.99	6.83	1.93	1.19	1.6	1.8		
			11:34	2.8	1.4	25.10		8.36		31.15		96.30		6.66		0.45		1.9			
	27/4/2022	Sunny	10:38	2.7	1.4	26.10	26.05	8.42	8.42	30.28	30.32	102.10	93.00	6.97	6.84	0.10	0.06	1.2	1.4		
			10:40	2.7	1.4	26.00		8.41		30.36		83.90		6.71		0.01		1.5			
	29/4/2022	Sunny	12:29	0.0	1.4	27.30	27.05	8.50	8.51	28.80	28.68	65.90	73.80	4.45	5.01	0.37	0.78	1.4	1.5		
			12:31	0.0	1.4	26.80		8.52		28.55		81.70		5.56		1.18		1.6			

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 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	12/4/2022	Sunny	12:08	4.1	1.0	24.90	24.95	8.49	8.49	30.05	30.03	72.30	75.50	5.05	5.27	2.29	2.35	1.6	1.5		
			12:10	4.1	1.0	25.00		8.48		30.01		78.70		5.48		2.40		1.4			
	14/4/2022	Sunny	10:36	4.1	1.0	23.50	23.50	8.40	8.40	31.01	31.03	73.40	71.55	5.22	5.09	4.98	3.65	1.3	1.4		
			10:38	4.1	1.0	23.50		8.40		31.05		69.70		4.95		2.32		1.4			
	16/4/2022	Monsoon signal	9:58	4.3	1.0	22.40	22.40	8.35	8.36	31.35	31.35	85.50	86.05	6.19	6.23	-	0.01	5.4	5.7		
			10:00	4.1	1.0	22.40		8.36		31.34		86.60		6.26		0.01		5.9			
	18/4/2022	Cloudy	10:55	4.3	1.0	21.40	21.45	8.34	8.34	32.22	32.21	67.60	73.85	4.96	5.41	3.59	4.17	5.3	5.6		
			10:57	4.3	1.0	21.50		8.33		32.20		80.10		5.86		4.74		5.8			
	20/4/2022	Cloudy	10:50	4.2	1.0	21.20	21.20	8.34	8.35	32.60	32.29	79.00	81.90	5.80	6.02	4.12	3.53	3.8	4.0		
			10:52	4.2	1.0	21.20		8.36		31.97		84.80		6.24		2.93		4.1			
	22/4/2022	Cloudy	10:29	3.7	1.0	23.10	23.10	8.32	8.33	32.45	32.39	99.40	87.60	7.07	6.23	2.12	1.55	3.6	3.4		
			10:31	3.7	1.0	23.10		8.34		32.32		75.80		5.38		0.98		3.2			
	25/4/2022	Cloudy	10:21	4.1	1.0	25.00	24.95	8.26	8.28	31.47	31.45	106.60	104.90	7.37	7.26	0.11	0.95	1.9	1.8		
			10:23	4.1	1.0	24.90		8.29		31.43		103.20		7.15		1.79		1.6			
	27/4/2022	Sunny	9:30	4.1	1.0	26.30	26.30	8.36	8.35	30.22	30.31	85.40	75.25	5.82	5.13	0.61	0.69	2.4	2.3		
			9:32	4.1	1.0	26.30		8.34		30.40		65.10		4.43		0.77		2.1			
	29/4/2022	Sunny	9:46	0.0	1.0	26.70	26.95	8.45	8.45	28.56	28.54	71.00	72.80	4.90	4.98	0.89	0.64	1.8	1.6		
			9:48	0.0	1.0	27.20		8.45		28.51		74.60		5.05		0.38		1.4			

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 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	12/4/2022	Sunny	14:41	4.4	1.0	25.10	25.10	8.50	8.49	30.17	30.11	91.40	87.70	6.35	6.09	1.11	1.31	2.1	2.3		
			14:43	4.4	1.0	25.10		8.48		30.05		84.00		5.83		1.50		2.5			
	14/4/2022	Sunny	12:34	4.3	1.0	23.70	23.75	8.51	8.51	30.44	30.60	80.10	87.50	5.69	6.21	2.83	1.67	<1.0	1.0		
			12:36	4.3	1.0	23.80		8.51		30.76		94.90		6.72		0.50		<1.0			
	16/4/2022	Monsoon signal	0:00	0.0	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	18/4/2022	Cloudy	9:55	4.3	1.0	21.40	21.45	8.27	8.28	32.13	32.18	86.80	87.30	6.36	6.39	4.31	4.54	4.5	4.7		
			9:57	4.3	1.0	21.50		8.29		32.23		87.80		6.42		4.76		4.9			
	20/4/2022	Cloudy	9:56	4.4	1.0	21.20	21.20	8.29	8.29	32.62	32.63	89.60	81.30	6.58	5.97	2.48	2.67	4.3	4.2		
			9:58	4.4	1.0	21.20		8.29		32.64		73.00		5.36		2.86		4.0			
	22/4/2022	Cloudy	9:35	4.2	1.0	23.00	22.95	8.21	8.22	32.76	32.64	89.80	73.05	6.37	6.26	2.17	2.91	2.9	3.1		
			9:37	4.2	1.0	22.90		8.23		32.52		56.30		6.15		3.65		3.3			
	25/4/2022	Cloudy	11:15	4.2	1.0	25.00	25.00	8.35	8.35	31.52	31.52	95.00	98.62	6.56	6.81	2.29	1.28	<1.0	1.0		
			11:17	4.2	1.0	25.00		8.35		31.52		102.23		7.06		0.26		<1.0			
	27/4/2022	Sunny	10:23	4.2	1.0	26.10	26.10	8.40	8.40	30.63	30.62	98.20	90.65	6.69	6.18	0.98	0.50	1.7	1.6		
			10:25	4.2	1.0	26.10		8.39		30.61		83.10		5.66		0.01		1.5			
	29/4/2022	Sunny	12:17	0.0	1.0	26.80	27.25	8.47	8.47	28.54	28.55	89.70	83.25	6.10	5.63	0.44	0.86	1.4	1.6		
			12:19	0.0	1.0	27.70		8.47		28.55		76.80		5.16		1.28		1.7			

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 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	12/4/2022	Sunny	12:12	4.1	3.1	24.50	24.50	8.48	8.48	30.24	30.26	76.80	80.00	5.39	5.62	1.84	2.01	3.1	2.9		
			12:14	4.1	3.1	24.50		8.48		30.28		83.20		5.84		2.17		2.7			
	14/4/2022	Sunny	10:40	4.1	3.1	23.40	23.80	8.40	8.40	31.28	31.21	85.20	87.65	6.06	6.20	3.76	3.36	<1.0	1.0		
			10:42	4.1	3.1	24.20		8.40		31.14		90.10		6.33		2.96		<1.0			
	16/4/2022	Monsoon signal	10:03	4.3	3.1	22.40	22.40	8.38	8.38	31.33	31.34	77.10	81.15	5.58	5.87	0.01	0.01	7.4	7.2		
			10:05	4.1	3.1	22.40		8.37		31.34		85.20		6.16		0.01		7.0			
	18/4/2022	Cloudy	10:59	4.3	3.3	21.50	21.50	8.35	8.35	32.21	32.24	75.50	79.30	5.52	5.80	5.09	4.62	3.9	4.1		
			11:01	4.3	3.3	21.50		8.35		32.27		83.10		6.08		4.14		4.3			
	20/4/2022	Cloudy	10:54	4.2	3.2	21.30	21.30	8.36	8.37	32.67	32.62	76.10	73.80	5.57	5.41	4.18	3.62	3.6	3.5		
			10:56	4.2	3.2	21.30		8.37		32.57		71.50		5.24		3.06		3.3			
	22/4/2022	Cloudy	10:33	3.7	2.7	22.90	22.93	8.35	8.35	32.33	32.12	78.00	82.60	5.56	5.90	1.86	1.18	2.5	2.4		
			10:35	3.7	2.7	22.96		8.35		31.90		87.20		6.23		0.50		2.2			
	25/4/2022	Cloudy	10:25	4.1	3.1	24.50	24.50	8.30	8.30	31.53	31.47	93.00	101.00	6.48	7.04	0.01	0.97	1.4	1.3		
			10:27	4.1	3.1	24.50		8.30		31.41		109.00		7.60		1.92		1.2			
	27/4/2022	Sunny	9:35	4.1	3.1	26.00	26.00	8.37	8.37	30.58	30.57	87.40	85.55	5.97	5.84	0.09	0.81	1.4	1.5		
			9:37	4.1	3.1	26.00		8.36		30.56		83.70		5.71		1.53		1.6			
	29/4/2022	Sunny	9:50	0.0	3.4	26.80	26.80	8.46	8.46	28.43	28.42	92.80	94.55	6.33	6.45	0.18	1.00	2.2	2.3		
			9:52	0.0	3.4	26.80		8.46		28.41		96.30		6.56		1.81		2.4			

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 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		
SR9	12/4/2022	Sunny	14:45	4.4	3.4	24.20	24.25	8.50	8.50	30.88	30.89	91.10	90.50	6.40	6.36	0.78	0.78	1.8	1.7		
			14:47	4.4	3.4	24.30		8.50		30.89		89.90		6.31		0.77		1.6			
	14/4/2022	Sunny	12:40	4.3	3.3	24.60	24.55	8.50	8.50	30.52	30.34	92.00	89.45	6.44	6.27	1.27	2.00	1.2	1.3		
			12:42	4.3	3.3	24.50		8.50		30.15		86.90		6.10		2.73		1.4			
	16/4/2022	Monsoon signal	0:00	0.0	-1.0	-	-	Sampling was cancelled due to adverse weather													
	18/4/2022	Cloudy	9:58	4.3	3.3	21.60	21.60	8.31	8.32	32.31	32.32	78.50	78.40	5.73	5.72	4.21	4.58	5.9	6.1		
			10:00	4.3	3.3	21.60		8.32		32.32		78.30		5.71		4.94		6.2			
	20/4/2022	Cloudy	10:00	4.4	3.4	21.30	21.30	8.32	8.32	31.81	32.15	69.80	75.25	5.14	5.53	3.68	3.00	3.1	3.4		
			10:02	4.4	3.4	21.30		8.32		32.49		80.70		5.91		2.32		3.6			
	22/4/2022	Cloudy	9:38	4.2	3.2	22.90	22.85	8.27	8.27	32.25	32.37	70.70	68.25	5.04	4.87	3.35	2.96	2.8	2.6		
			9:40	4.2	3.2	22.80		8.26		32.49		65.80		4.70		2.56		2.4			
	25/4/2022	Cloudy	11:19	4.2	3.2	24.60	24.60	8.37	8.37	31.51	31.51	108.20	108.20	7.52	7.52	2.45	1.39	2.7	2.7		
			11:21	4.2	3.2	24.60		8.37		31.50		108.20		7.52		0.33		2.6			
	27/4/2022	Sunny	10:28	4.2	3.2	26.20	26.20	8.39	8.39	29.80	30.13	84.00	85.60	5.74	5.84	0.23	0.57	3.5	3.3		
			10:30	4.2	3.2	26.20		8.38		30.45		87.20		5.94		0.90		3.0			
	29/4/2022	Sunny	12:22	0.0	3.3	27.00	27.05	8.49	8.45	28.45	28.43	80.10	85.80	5.44	5.82	1.15	0.85	2.2	2.2		
			12:24	0.0	3.3	27.10		8.42		28.40		91.50		6.20		0.54		2.1			

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 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
SR10	12/4/2022	Sunny	12:27	2.9	1.5	24.50	24.50	8.13	8.31	30.08	30.38	81.30	85.00	5.69	5.95	1.42	1.43	2.8	3.1		
			12:29	2.9	1.5	24.50	8.49	30.68		88.70		6.21		1.43		3.3					
	14/4/2022	Sunny	10:50	2.9	1.5	23.80	23.85	8.44	8.45	30.68	30.67	84.30	83.80	5.98	5.94	1.16	1.74	<1.0	1.0		
			10:52	2.9	1.4	23.90		8.45		30.65		83.30		5.90		2.32		<1.0			
	16/4/2022	Monsoon signal	10:07	2.0	1.4	21.20	21.25	8.43	8.43	31.04	31.12	66.00	72.95	4.38	5.14	5.10	6.03	9.3	9.4		
			10:09	2.8	1.4	21.30		8.42		31.20		79.90		5.90		6.95		9.4			
	18/4/2022	Cloudy	10:48	2.0	1.0	21.60	21.60	8.36	8.36	32.03	32.03	85.00	80.70	6.20	5.89	5.41	5.73	4.1	4.0		
			10:50	2.0	1.0	21.60		8.36		32.03		76.40		5.58		6.05		3.8			
	20/4/2022	Cloudy	10:38	3.1	1.6	20.90	20.90	8.35	8.36	32.70	32.69	79.50	76.65	5.87	5.66	1.64	1.23	4.3	4.1		
			10:40	3.1	1.6	20.90		8.36		32.68		73.80		5.45		0.82		3.9			
	22/4/2022	Cloudy	10:24	2.8	1.4	23.90	23.90	8.33	8.33	32.40	32.40	87.10	86.60	6.10	6.07	1.36	1.97	3.0	2.8		
			10:26	2.8	1.4	23.90		8.33		32.40		86.10		6.03		2.57		2.6			
	25/4/2022	Cloudy	10:30	2.6	1.3	25.00	25.05	8.33	8.33	31.35	31.36	106.90	96.15	7.37	6.63	0.01	1.01	<1.0	1.0		
			10:32	2.6	1.3	25.10		8.32		31.36		85.40		5.89		2.00		<1.0			
	27/4/2022	Sunny	9:40	3.1	1.6	26.40	26.40	8.39	8.39	30.23	30.22	96.80	95.90	6.58	6.52	0.01	0.54	2.5	2.7		
			9:42	3.1	1.6	26.40		8.39		30.20		95.00		6.45		1.07		2.8			
	29/4/2022	Sunny	9:54	0.0	1.4	37.20	31.90	8.45	8.45	28.49	28.66	89.10	88.50	6.03	6.01	2.10	1.28	1.2	1.3		
			9:56	0.0	1.4	26.60		8.45		28.83		87.90		5.99		0.45		1.4			

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 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
SR10	12/4/2022	Sunny	14:28	2.9	1.5	25.10	25.10	8.56	8.56	30.38	30.41	97.30	100.15	6.75	6.94	0.45	0.55	2.5	2.3		
			14:30	2.9	1.5	25.10		8.56		30.43		103.00		7.13		0.65		2.0			
	14/4/2022	Sunny	12:22	2.9	1.5	23.80	23.70	8.51	8.51	30.77	30.74	75.90	82.25	5.38	5.89	4.59	2.75	<1.0	1.0		
			12:24	2.9	1.5	23.60		8.51		30.71		88.60		6.39		0.90		<1.0			
	16/4/2022	Monsoon signal	0:00	0.0	0.0	-	-	Sampling was cancelled due to adverse weather													
	18/4/2022	Cloudy	10:03	2.0	1.0	21.60	21.55	8.31	8.31	32.09	32.01	83.30	83.05	6.09	6.08	4.11	5.26	5.0	5.3		
			10:05	2.0	1.0	21.50		8.31		31.93		82.80		6.07		6.41		5.5			
	20/4/2022	Cloudy	10:04	2.8	1.4	21.20	21.25	8.31	8.31	32.56	32.60	76.00	80.15	5.57	5.77	1.61	1.31	4.1	4.3		
			10:06	2.8	1.4	21.30		8.31		32.64		84.30		5.96		1.00		4.4			
	22/4/2022	Cloudy	9:43	2.6	1.3	23.10	23.10	8.27	8.28	32.46	32.44	75.30	81.05	5.35	5.73	3.10	2.62	2.8	2.7		
			9:45	2.6	1.3	23.10		8.28		32.42		86.80		6.10		2.14		2.6			
	25/4/2022	Cloudy	11:11	2.6	1.3	25.10	25.10	8.37	8.38	31.38	31.37	101.10	105.65	6.96	7.29	0.01	0.71	2.2	2.4		
			11:13	2.6	1.3	25.10		8.38		31.36		110.20		7.61		1.40		2.5			
	27/4/2022	Sunny	10:19	2.5	1.3	26.30	26.30	8.43	8.43	30.09	30.10	65.30	77.60	4.45	5.28	0.01	0.74	3.2	3.1		
			10:21	2.5	1.3	26.30		8.43		30.10		89.90		6.11		1.47		2.9			
	29/4/2022	Sunny	12:10	0.0	1.4	27.10	27.50	8.48	8.48	28.60	28.50	99.80	92.20	6.77	6.28	1.30	1.05	1.3	1.4		
			12:12	0.0	1.4	27.90		8.47		28.40		84.60		5.79		0.79		1.4			

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) - 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	12/4/2022	Sunny	12:45	2.3	1.2	24.20	24.25	8.52	8.53	30.96	30.96	82.00	89.50	5.76	6.29	0.76	0.71	2.6	2.8		
			12:47	2.3	1.2	24.30		8.53		30.96		97.00		6.81		0.66		3.0			
	14/4/2022	Sunny	10:57	2.8	1.4	23.80	23.75	8.48	8.48	30.73	30.76	97.60	90.90	6.92	6.45	1.65	2.22	<1.0	1.0		
			10:59	2.8	1.3	23.70		8.47		30.79		84.20		5.98		2.78		<1.0			
	16/4/2022	Monsoon signal	10:28	2.5	1.3	21.30	21.30	8.43	8.43	31.24	31.28	76.60	76.30	5.65	5.35	7.17	6.94	6.8	6.7		
			10:30	2.5	1.3	21.30		8.43		31.31		76.00		5.05		6.71		6.6			
	18/4/2022	Cloudy	10:45	2.5	1.3	21.60	21.50	8.36	8.36	32.12	32.22	84.30	90.90	6.16	6.65	4.20	4.28	4.4	4.2		
			10:47	2.5	1.3	21.40		8.35		32.31		97.50		7.14		4.36		4.0			
	20/4/2022	Cloudy	10:33	3.1	1.6	20.80	20.80	8.36	8.36	32.67	32.65	77.80	77.00	5.75	5.69	0.43	1.08	2.5	2.7		
			10:35	3.1	1.6	20.80		8.36		32.63		76.20		5.63		1.73		2.8			
	22/4/2022	Cloudy	10:20	2.9	1.5	23.50	23.45	8.33	8.34	32.39	32.40	78.60	80.70	5.55	5.70	2.10	1.44	3.3	3.2		
			10:22	2.9	1.5	23.40		8.35		32.40		82.80		5.85		0.78		3.0			
	25/4/2022	Cloudy	10:36	2.1	1.1	25.30	25.30	8.32	8.33	31.44	31.42	95.30	100.30	6.55	6.90	2.32	1.28	1.2	1.3		
			10:38	2.1	1.1	25.30		8.33		31.40		105.30		7.24		0.23		1.3			
	27/4/2022	Sunny	9:45	2.7	1.4	26.20	26.20	8.40	8.41	30.11	30.10	91.70	91.55	6.25	6.24	1.16	1.58	3.1	3.2		
			9:47	2.7	1.4	26.20		8.41		30.09		91.40		6.23		2.00		3.3			
	29/4/2022	Sunny	9:58	0.0	1.4	26.90	26.85	8.46	8.46	28.46	28.49	87.40	93.85	5.94	6.39	0.56	0.83	1.2	1.3		
			10:00	0.0	1.4	26.80		8.45		28.52		100.30		6.83		1.09		1.3			

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 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	12/4/2022	Sunny	14:23	2.4	1.2	24.80	24.85	8.53	8.53	30.95	30.94	91.00	90.20	6.33	6.27	1.78	1.94	55.8	29.3		
			14:25	2.4	1.2	24.90		8.53		30.93		89.40		6.21		2.10		2.7			
	14/4/2022	Sunny	12:14	2.9	1.5	24.10	24.10	8.49	8.49	30.70	30.71	89.50	93.75	6.30	6.61	1.07	1.89	<1.0	1.0		
			12:16	2.9	1.5	24.10		8.48		30.71		98.00		6.92		2.71		<1.0			
	16/4/2022	Monsoon signal	0:00	0.0	0.0	-	-	Sampling was cancelled due to adverse weather													
	18/4/2022	Cloudy	10:07	2.0	1.0	21.60	21.55	8.31	8.31	32.18	32.13	83.00	84.35	6.06	6.17	4.16	4.48	5.1	5.3		
			10:09	2.0	1.0	21.50		8.31		32.08		85.70		6.28		4.80		5.5			
	20/4/2022	Cloudy	10:09	3.4	1.7	21.20	21.20	8.32	8.32	32.71	32.68	70.40	74.00	5.16	5.44	1.83	1.16	3.9	4.1		
			10:11	3.4	1.7	21.20		8.31		32.64		77.60		5.71		0.49		4.2			
	22/4/2022	Cloudy	9:47	2.4	1.2	22.70	22.70	8.29	8.29	32.23	32.24	91.00	87.35	6.52	6.44	2.17	1.86	2.1	2.3		
			9:49	2.4	1.2	22.70		8.29		32.25		83.70		6.35		1.54		2.4			
	25/4/2022	Cloudy	11:07	2.5	1.3	25.60	25.55	8.38	8.38	31.39	31.40	99.90	96.30	6.84	6.60	2.16	1.87	3.3	3.3		
			11:09	2.5	1.3	25.50		8.37		31.40		92.70		6.35		1.57		3.2			
	27/4/2022	Sunny	10:11	2.9	1.5	26.30	26.30	8.42	8.43	30.08	30.08	84.10	87.15	5.74	5.94	1.08	0.89	3.3	3.1		
			10:13	2.9	1.5	26.30		8.43		30.08		90.20		6.14		0.70		2.9			
	29/4/2022	Sunny	12:05	0.0	1.4	27.80	27.60	8.48	8.49	28.45	28.48	91.50	95.20	6.13	6.40	0.45	0.58	<1.0	1.0		
			12:07	0.0	1.4	27.40		8.49		28.51		98.90		6.67		0.70		<1.0			

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	Value	AVG
						SR15	12/4/2022	Sunny	10:55	2.2	1.1	24.70	24.70	8.46	8.47	30.99	30.97	82.60	80.75	5.75	5.62
			10:57	2.2	1.1	24.70		8.47		30.95		78.90		5.49		2.70		2.2			
	14/4/2022	Sunny	9:40	2.7	1.4	23.60	23.70	8.39	8.41	30.05	30.13	94.10	93.60	6.71	6.67	2.47	1.46	<1.0	1.0		
			9:42	2.7	1.4	23.80		8.42		30.21		93.10		6.62		0.45		<1.0			
	16/4/2022	Monsoon signal	9:18	2.6	1.3	22.10	22.00	8.22	8.21	31.44	31.50	83.90	78.65	6.10	5.73	0.01	0.01	3.0	3.1		
			9:20	2.6	1.3	21.90		8.19	8.21	31.56		73.40		5.35		0.01	0.01	3.2			
	18/4/2022	Cloudy	11:32	2.6	1.3	21.40	21.45	8.38	8.38	32.30	32.26	70.70	75.45	5.18	5.53	3.99	4.39	3.0	3.2		
			11:34	2.6	1.3	21.50		8.38		32.22		80.20		5.87		4.79		3.3			
	20/4/2022	Cloudy	11:30	2.9	1.5	21.50	21.55	8.36	8.36	32.70	32.67	69.90	73.55	5.10	5.36	3.36	3.93	3.7	3.6		
			11:32	2.9	1.5	21.60		8.36		32.63		77.20		5.62		4.49		3.4			
	22/4/2022	Cloudy	11:07	2.6	1.3	23.40	23.45	8.34	8.35	32.60	32.61	68.50	71.90	4.84	5.08	1.16	2.27	3.1	3.0		
			11:09	2.6	1.3	23.50		8.35		32.61		75.30		5.31		3.38		2.8			
	25/4/2022	Cloudy	9:41	2.6	1.3	25.40	25.40	8.05	8.02	31.31	31.36	108.50	104.15	7.46	7.16	2.32	1.93	2.2	2.2		
			9:43	2.6	1.3	25.40		7.98		31.40		99.80		6.86		1.54		2.2			
	27/4/2022	Sunny	9:03	2.6	1.3	26.00	26.00	8.36	8.35	29.34	29.34	98.60	96.00	6.79	6.61	0.13	0.07	1.8	1.7		
			9:05	2.6	1.3	26.00		8.34		29.34		93.40		6.42		0.01		1.6			
	29/4/2022	Sunny	9:12	0.0	1.4	26.20	26.25	8.36	8.37	29.35	29.37	100.50	98.60	6.88	6.75	0.39	1.24	3.5	3.3		
			9:14	0.0	1.4	26.30		8.38		29.38		96.70		6.61		2.09		3.1			

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 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	12/4/2022	Sunny	15:51	2.5	1.3	25.60	25.60	8.55	8.55	30.73	30.74	86.00	82.20
			15:53	2.5	1.3	25.60		8.55		30.74		78.40		5.39		0.90		3.8	
	14/4/2022	Sunny	13:26	2.6	1.3	24.90	24.90	8.49	8.50	30.27	30.23	79.30	74.85	5.53	5.22	1.14	1.54	<1.0	1.0
			13:28	2.6	1.3	24.90		8.50		30.19		70.40		4.91		1.93		<1.0	
	16/4/2022	Monsoon signal	0:00	0.0	0.0	-													
			0:0	0.0	0.0	-													
	18/4/2022	Cloudy	9:17	2.0	1.0	21.40	21.50	8.08	8.10	32.40	32.39	76.60	80.65	5.61	5.87	2.69	3.65	3.9	3.6
			9:19	2.0	1.0	21.60		8.11		32.38		84.70		6.13		4.61		3.3	
	20/4/2022	Cloudy	9:18	2.6	1.3	21.00	21.05	8.13	8.14	32.63	32.61	65.20	72.70	4.80	4.94	6.88	6.46	7.5	7.4
			9:20	2.6	1.3	21.10		8.15		32.59		80.20		5.08		6.03		7.2	
	22/4/2022	Cloudy	8:59	2.9	1.5	23.10	23.10	7.91	7.94	32.53	32.52	86.90	86.65	6.17	6.16	2.93	2.69	2.7	2.8
			9:01	2.9	1.5	23.10		7.97		32.51		86.40		6.14		2.45		2.9	
	25/4/2022	Cloudy	11:56	2.4	1.2	26.10	26.05	8.49	8.49	31.39	31.40	134.30	120.55	9.10	8.18	2.25	1.94	2.4	2.5
			11:58	2.4	1.2	26.00		8.48		31.40		106.80		7.26		1.63		2.6	
	27/4/2022	Sunny	10:58	2.6	1.3	26.10	26.10	8.46	8.46	29.48	29.52	85.90	95.45	5.89	6.55	0.18	0.21	1.0	1.2
			11:00	2.6	1.3	26.10		8.46		29.55		105.00		7.20		0.24		1.4	
	29/4/2022	Sunny	12:54	0.0	1.4	27.00	26.95	8.50	8.50	28.80	28.99	87.70	92.90	5.95	6.30	1.14	1.15	1.4	1.5
			12:56	0.0	1.4	26.90		8.49		29.18		98.10		6.65		1.16		1.6	

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
CE	12/4/2022	Sunny	12:53	7.8	1.0	23.90	23.85	8.59	8.60	30.41	30.40	86.30	95.00	6.12	6.74	0.19	0.15	1.2	1.4		
			12:55	7.8	1.0	23.80		8.60		30.38		103.70		7.35		0.11		1.5			
	14/4/2022	Sunny	11:11	8.0	1.0	23.00	23.00	8.54	8.55	30.78	30.78	65.60	76.45	4.71	5.49	1.54	1.14	<1.0	1.0		
			11:13	8.0	1.0	23.00		8.55		30.77		87.30		6.26		0.73		<1.0			
	16/4/2022	Monsoon signal	10:38	8.0	1.0	21.80	21.80	8.44	8.44	31.07	31.22	76.00	76.60	5.57	5.61	5.94	3.82	3.4	3.2		
			10:40	8.0	1.0	21.80		8.44		31.37		77.20		5.65		1.70		3.0			
	18/4/2022	Cloudy	10:33	8.6	1.0	21.50	21.55	8.36	8.37	32.24	32.30	80.10	83.10	5.86	6.08	4.00	3.05	3.5	3.7		
			10:35	8.6	1.0	21.60		8.37		32.35		86.10		6.29		2.09		3.9			
	20/4/2022	Cloudy	10:27	8.3	1.0	21.00	21.00	8.37	8.37	32.73	32.75	83.70	85.10	6.16	6.26	1.54	1.15	3.7	3.5		
			10:29	8.3	1.0	21.00		8.37		32.77		86.50		6.36		0.75		3.3			
	22/4/2022	Cloudy	10:08	8.4	1.0	22.96	22.93	8.32	8.33	32.25	32.24	77.90	79.45	5.55	5.67	3.18	2.07	3.2	3.1		
			10:10	8.4	1.0	22.90		8.33		32.23		81.00		5.78		0.95		3.0			
	25/4/2022	Cloudy	10:45	10.0	1.0	24.60	24.60	8.31	8.32	31.62	31.53	100.89	102.75	7.01	7.14	0.01	0.55	1.7	1.8		
			10:47	10.0	1.0	24.60		8.32		31.43		104.60		7.27		1.08		1.9			
	27/4/2022	Sunny	9:50	8.0	1.0	26.60	26.60	8.45	8.43	30.37	30.39	98.80	86.05	6.69	5.83	0.28	0.15	1.4	1.3		
			9:52	8.0	1.0	26.60		8.41		30.40		73.30		4.96		0.01		1.2			
	29/4/2022	Sunny	10:05	0.0	1.0	26.40	26.50	8.48	8.49	28.48	28.47	98.10	89.00	6.73	6.10	0.05	0.47	<1.0	1.0		
			10:07	0.0	1.0	26.60		8.49		28.46		79.90		5.47		0.89		<1.0			

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 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
CE	12/4/2022	Sunny	14:02	7.8	1.0	24.20	24.10	8.55	8.57	30.43	30.39	98.40	93.90	6.94	6.63	0.55	0.58	1.2	1.4		
			14:04	7.8	1.0	24.00		8.58		30.34		89.40		6.32		0.60		1.5			
	14/4/2022	Sunny	11:47	7.9	1.0	22.80	22.90	8.52	8.53	30.99	30.95	68.40	80.65	4.93	5.80	1.06	0.90	<1.0	1.0		
			11:49	7.9	1.0	23.00		8.53		30.91		92.90		6.67		0.74		<1.0			
	16/4/2022	Monsoon signal	0:00	0.0	1.0	-	Sampling was cancelled due to adverse weather														
	18/4/2022	Cloudy	10:16	8.3	1.0	21.40	21.45	8.36	8.36	32.05	32.09	67.90	70.40	4.98	5.16	2.53	2.75	1.9	1.7		
			10:18	8.3	1.0	21.50		8.36		32.12		72.90		5.34		2.96		1.5			
	20/4/2022	Cloudy	10:14	8.6	1.0	21.00	21.05	8.34	8.35	32.74	32.75	69.20	74.80	5.10	5.50	0.25	0.36	1.1	1.3		
			10:16	8.6	1.0	21.10		8.35		32.76		80.40		5.90		0.47		1.4			
	22/4/2022	Cloudy	9:57	8.3	1.0	22.70	22.70	8.33	8.32	32.37	32.31	77.90	71.25	5.58	5.10	4.04	2.64	2.9	2.8		
			9:59	8.3	1.0	22.70		8.30		32.24		64.60		4.62		1.23		2.6			
	25/4/2022	Cloudy	10:54	10.1	1.0	24.50	24.50	8.35	8.35	31.46	31.47	106.50	103.50	7.42	7.21	0.70	0.73	<1.0	1.0		
			10:56	10.1	1.0	24.50		8.35		31.47		100.50		7.00		0.76		<1.0			
	27/4/2022	Sunny	10:04	8.2	1.0	26.00	26.00	8.42	8.42	30.28	30.32	86.20	89.60	5.89	6.30	0.01	0.05	<1.0	1.0		
			10:06	8.2	1.0	26.00		8.42		30.36		93.00		6.70		0.09		<1.0			
	29/4/2022	Sunny	11:40	0.0	1.0	26.80	27.00	8.50	8.50	28.73	28.73	73.00	87.00	4.97	5.90	0.01	0.29	1.8	1.7		
			11:42	0.0	1.0	27.20		8.49		28.72		101.00		6.83		0.56		1.5			

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 (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
CE	12/4/2022	Sunny	12:57	7.8	3.9	22.70	22.60	8.58	8.58	31.42	31.42	100.70	108.95	7.25	7.86	0.85	0.65	2.1	2.3		
			12:59	7.8	3.9	22.50		8.58		31.41		117.20		8.46		0.44		2.5			
	14/4/2022	Sunny	11:15	8.0	4.0	23.00	23.00	8.55	8.55	30.86	30.88	92.70	93.45	6.65	6.71	0.67	1.38	<1.0	1.0		
			11:17	8.0	4.0	23.00		8.55		30.89		94.20		6.76		2.08		<1.0			
	16/4/2022	Monsoon signal	10:43	8.0	4.0	21.70	21.70	8.44	8.44	31.31	31.31	72.00	75.80	5.28	5.56	2.15	2.31	2.6	2.7		
			10:45	8.0	4.0	21.70		8.44		31.31		79.60		5.83		2.47		2.8			
	18/4/2022	Cloudy	10:37	8.6	4.3	21.60	21.60	8.38	8.38	32.39	32.38	89.50	89.50	6.53	6.53	2.60	3.07	6.2	6.2		
			10:39	8.6	4.3	21.60		8.37		32.37		89.50		6.53		3.53		6.1			
	20/4/2022	Cloudy	0:00	8.3	4.2	21.10	21.10	8.37	8.37	32.81	32.81	92.80	90.55	6.82	6.66	1.78	1.14	3.4	3.4		
				8.3	4.2	21.10		8.37		32.80		88.30		6.49		0.49		3.4			
	22/4/2022	Cloudy	10:12	8.4	4.2	23.00	22.95	8.33	8.33	32.27	32.27	76.80	83.45	5.47	5.95	2.58	1.90	3.2	3.4		
			10:14	8.4	4.2	22.90		8.33		32.27		90.10		6.43		1.22		3.6			
	25/4/2022	Cloudy	10:49	10.0	5.0	24.30	24.30	8.34	8.34	31.50	31.48	90.70	96.15	6.34	6.72	0.01	0.46	1.2	1.1		
			10:51	10.0	5.0	24.30		8.34		31.46		101.60		7.10		0.90		1.0			
	27/4/2022	Sunny	9:55	8.0	4.0	26.00	25.95	8.42	8.42	30.32	30.36	94.60	88.30	6.47	6.04	0.01	0.33	1.6	1.8		
			9:57	8.0	4.0	25.90		8.42		30.40		82.00		5.60		0.64		1.9			
	29/4/2022	Sunny	10:09	0.0	4.2	26.30	26.30	8.49	8.49	28.62	28.63	68.00	83.40	4.67	5.73	0.82	0.86	1.8	1.7		
			10:11	0.0	4.2	26.30		8.49		28.63		98.80		6.79		0.90		1.6			

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 (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	
CE	12/4/2022	Sunny	14:07	7.8	3.9	23.10	23.10	8.58	8.58	31.20	31.20	100.20	105.95	7.17	7.58	0.26	0.37	2.2	2.2	
			14:09	7.8	3.9	23.10		8.58		31.20		111.70		7.99		0.47		2.1		
	14/4/2022	Sunny	0:00	7.9	4.0	22.90	22.90	8.53	8.53	30.98	30.92	87.50	86.65	6.29	6.23	2.77	2.87	<1.0	1.0	
				7.9	4.0	22.90		8.53		30.85		85.80		6.17		2.96		<1.0		
	16/4/2022	Monsoon signal	0:00	0.0	0.0	-														
	Sampling was cancelled due to adverse weather																			
	18/4/2022	Cloudy	10:21	8.3	4.2	21.50	21.50	8.37	8.37	32.32	32.34	83.00	77.75	6.06	5.68	1.80	2.38	1.7	1.8	
			10:23	8.3	4.2	21.50		8.37		32.36		72.50		5.30		2.95		1.8		
	20/4/2022	Cloudy	10:18	8.6	4.3	21.20	21.20	8.36	8.37	32.89	32.90	68.70	71.55	5.03	5.24	1.43	1.11	1.6	1.8	
			10:20	8.6	4.3	21.20		8.37		32.90		74.40		5.45		0.79		1.9		
	22/4/2022	Cloudy	10:02	8.3	4.2	22.80	22.70	8.31	8.32	32.18	32.21	87.60	80.55	6.27	5.77	2.85	2.93	2.4	2.5	
			10:04	8.3	4.2	22.60		8.32		32.23		73.50		5.27		3.01		2.6		
	25/4/2022	Cloudy	10:58	10.1	5.1	24.40	24.35	8.36	8.36	31.48	31.47	101.10	102.30	7.06	7.15	0.01	0.81	1.4	1.5	
			11:00	10.1	5.1	24.30		8.36		31.46		103.50		7.24		1.60		1.6		
	27/4/2022	Sunny	0:00	8.2	4.1	25.60	25.60	8.42	8.42	30.70	30.67	96.60	98.70	6.64	6.78	0.01	0.16	1.4	1.5	
				8.2	4.1	25.60		8.42		30.63		100.80		6.92		0.31		1.6		
	29/4/2022	Sunny	11:45	0.0	4.0	26.50	26.55	8.50	8.51	28.77	28.69	93.80	97.10	6.42	6.64	0.46	0.46	1.2	1.2	
			11:47	0.0	4.0	26.60		8.51		28.61		100.40		6.86		-		1.1		

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 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	Value	AVG
CE	12/4/2022	Sunny	13:01	7.8	6.8	21.80	21.90	8.52	8.51	32.04	32.04	99.20	91.95	7.22	6.69	0.57	0.47	9.9	9.7		
			13:03	7.8	6.8	22.00		8.49		32.04		84.70		6.15		0.36		9.4			
	14/4/2022	Sunny	11:20	8.0	7.0	23.40	23.25	8.50	8.51	31.59	31.58	89.00	85.45	6.32	6.08	4.61	3.85	<1.0	1.0		
			11:22	8.0	7.0	23.10		8.51		31.56		81.90		5.84		3.09		<1.0			
	16/4/2022	Monsoon signal	10:51	8.0	7.0	21.80	21.85	8.45	8.45	31.36	31.35	78.40	80.15	5.73	5.86	3.34	2.76	2.3	2.2		
			10:53	8.0	7.0	21.90		8.45		31.33		81.90		5.98		2.17		2.1			
	18/4/2022	Cloudy	10:41	8.6	7.6	21.60	21.60	8.38	8.38	32.38	32.39	87.10	87.80	6.36	6.41	3.07	2.92	7.8	7.7		
			10:43	8.6	7.6	21.60		8.38		32.39		88.50		6.45		2.77		7.5			
	20/4/2022	Cloudy	0:00	8.3	7.3	21.20	21.15	8.38	8.38	32.91	32.88	81.40	81.00	5.97	5.95	2.06	1.04	2.5	2.7		
				8.3	7.3	21.10		8.38		32.85		80.60		5.92		0.01		2.9			
	22/4/2022	Cloudy	10:16	8.4	7.4	22.90	22.85	8.34	20.35	32.35	32.36	90.00	87.75	6.42	6.27	2.50	2.10	3.8	4.0		
			10:18	8.4	7.4	22.80		32.36		85.50		6.11		1.69		4.1					
	25/4/2022	Cloudy	10:54	10.0	9.0	24.40	24.40	8.34	8.34	31.55	31.57	98.60	98.90	6.88	6.90	1.56	0.79	<1.0	1.0		
			10:56	10.0	9.0	24.40		8.34		31.59		99.20		6.92		0.01		<1.0			
	27/4/2022	Sunny	10:00	8.0	7.0	24.70	24.70	8.40	8.40	31.50	31.51	93.60	96.20	6.50	6.68	1.61	0.81	2.1	2.3		
			10:02	8.0	7.0	24.70		8.40		31.52		98.80		6.86		0.01		2.4			
	29/4/2022	Sunny	10:13	0.0	7.3	25.90	25.95	8.47	8.47	29.88	29.89	90.00	94.25	6.18	6.47	0.50	0.90	2.3	2.4		
			10:15	0.0	7.3	26.00		8.46		29.89		98.50		6.75		1.30		2.5			

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) - 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	
CE	12/4/2022	Sunny	14:12	7.8	6.8	22.30	22.25	8.56	8.56	31.67	31.68	102.10	103.80	7.39	7.53	0.76	0.67	2.6	2.7	
			14:14	7.8	6.8	22.20		8.56		31.69		105.50		7.67		0.57		2.7		
	14/4/2022	Sunny	11:53	7.9	6.9	22.50	22.45	8.50	8.50	31.77	31.82	86.00	89.50	6.19	6.45	1.93	3.20	1.7	1.6	
			11:55	7.9	6.9	22.40		8.49		31.86		93.00		6.70		4.46		1.4		
	16/4/2022	Monsoon signal	0:00	0.0	-1.0	-	Sampling was cancelled due to adverse weather													
	18/4/2022	Cloudy	10:25	8.3	7.3	21.50	21.55	8.37	8.37	32.38	32.37	83.30	80.45	6.08	5.88	2.60	2.40	1.6	1.6	
			10:27	8.3	7.3	21.60		8.37		32.36		77.60		5.67		2.19		1.6		
	20/4/2022	Cloudy	10:22	8.6	7.6	21.20	21.20	8.37	8.37	32.92	32.93	80.30	82.55	5.88	6.05	2.34	1.43	2.3	2.5	
			10:24	8.6	7.6	21.20		8.37		32.93		84.80		6.21		0.51		2.6		
	22/4/2022	Cloudy	10:06	8.3	7.3	22.60	22.60	8.32	8.33	32.22	32.30	83.00	78.10	5.95	5.60	1.61	1.66	2.2	2.2	
			10:08	8.3	7.3	22.60		8.33		32.38		73.20		5.25		1.71		2.2		
	25/4/2022	Cloudy	11:02	10.1	9.1	24.40	24.40	8.36	8.36	31.55	31.55	96.50	97.95	6.74	6.84	0.01	0.29	2.5	2.5	
			11:04	10.1	9.1	24.40		8.36		31.55		99.40		6.93		0.56		2.4		
	27/4/2022	Sunny	0:00	8.2	7.2	24.70	24.65	8.42	8.42	31.32	31.31	4.90	51.55	7.30	7.07	0.63	0.32	2.4	2.4	
				8.2	7.2	24.60		8.42		31.30		98.20		6.84		0.01		2.4		
	29/4/2022	Sunny	11:50	0.0	7.0	25.90	25.90	8.49	8.49	29.67	29.66	95.80	93.85	6.59	6.46	1.73	0.92	<1.0	1.0	
			11:52	0.0	7.0	25.90		8.49		29.64		91.90		6.32		0.11		<1.0		

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	12/4/2022	Sunny	10:18	9.2	1.0	23.80	23.75	7.53	8.00	31.14	31.08	99.70	98.75	7.04	6.98
			10:20	9.2	1.0	23.70		8.47		31.01		97.80		6.92		0.97		3.4			
	14/4/2022	Sunny	9:15	9.9	1.0	22.50	22.45	8.22	8.25	30.61	30.64	81.30	78.85	5.90	5.72	0.50	0.38	<1.0	1.0		
			9:17	9.9	1.0	22.40		8.28		30.67		76.40		5.54		0.25		<1.0			
	16/4/2022	Monsoon signal	9:03	8.4	1.0	21.50	21.35	7.23	7.47	31.99	32.13	82.50	79.20	6.04	5.81	0.01	0.01	2.1	2.3		
			9:05	8.4	1.0	21.20		7.71		32.26		75.90		5.58		0.01		2.5			
	18/4/2022	Cloudy	11:49	8.7	1.0	21.40	21.45	8.38	8.39	32.54	32.49	90.40	90.00	6.61	6.58	3.85	3.73	3.9	7.7		
			11:51	8.7	1.0	21.50		8.39		32.44		89.60		6.54		3.61		11.5			
	20/4/2022	Cloudy	11:45	8.7	1.0	21.70	21.70	8.37	8.38	32.83	32.84	79.90	77.90	5.81	5.66	5.63	5.41	12.7	12.5		
			11:47	8.7	1.0	21.70		8.38		32.84		75.90		5.51		5.19		12.2			
	22/4/2022	Cloudy	11:25	7.9	1.0	22.70	22.70	8.34	8.34	32.25	32.19	73.40	68.80	5.26	4.93	4.09	2.55	2.4	2.3		
			11:27	7.9	1.0	22.70		8.35		32.13		64.20		4.60		1.01		2.2			
	25/4/2022	Cloudy	9:25	7.3	1.0	24.20	24.15	7.14	7.26	30.79	30.76	81.40	87.95	5.73	6.20	0.64	0.97	2.1	2.3		
			9:27	7.3	1.0	24.10		7.37		30.72		94.50		6.66		1.29		2.4			
	27/4/2022	Sunny	8:40	8.2	1.0	25.70	25.60	7.83	7.93	29.93	30.12	108.20	97.70	7.44	6.73	1.08	1.07	3.0	2.8		
			8:42	8.2	1.0	25.50		8.02		30.30		87.20		6.02		1.05		2.5			
	29/4/2022	Sunny	8:50	0.0	1.0	26.00	26.05	8.21	8.23	29.49	29.46	76.40	86.10	5.25	5.91	0.01	0.65	<1.0	1.0		
			8:52	0.0	1.0	26.10		8.25		29.42		95.80		6.57		1.28		<1.0			

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) - 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
						CF	12/4/2022	Sunny	16:13	10.4	1.0	24.40	24.45	8.59	8.60	30.71	30.72	89.90	91.30	6.30	6.40
			16:15	10.4	1.0	24.50		8.60		30.73		92.70		6.49		0.01		3.4			
	14/4/2022	Sunny	13:49	8.1	1.0	23.60	23.55	8.51	8.51	30.34	30.41	81.60	88.15	5.82	6.29	1.64	1.02	<1.0	1.0		
			13:52	8.1	1.0	23.50		8.51		30.48		94.70		6.76		0.39		<1.0			
	16/4/2022	Monsoon signal	0:00	0.0	1.0	-	Sampling was cancelled due to adverse weather														
				0.0	1.0	-															
	18/4/2022	Cloudy	8:59	8.2	1.0	21.50	21.50	7.42	7.49	31.69	31.88	79.60	83.90	5.84	6.15	1.84	2.20	4.8	5.0		
			9:01	8.2	1.0	21.50		7.56		32.07		88.20		6.46		2.56		5.1			
	20/4/2022	Cloudy	8:57	9.4	1.0	21.00	21.10	7.50	7.58	32.60	32.60	68.90	72.55	5.07	5.34	3.13	3.97	3.6	3.8		
			8:59	9.4	1.0	21.20		7.66		32.60		76.20		5.60		4.81		4.0			
	22/4/2022	Cloudy	8:44	8.6	1.0	22.40	22.40	7.00	7.12	31.79	31.89	75.40	80.30	5.44	5.80	3.09	3.15	1.1	1.2		
			8:46	8.6	1.0	22.40		7.24		31.99		85.20		6.15		3.20		1.3			
	25/4/2022	Cloudy	12:10	8.2	1.0	24.90	24.90	8.43	8.43	31.10	31.09	101.00	572.25	7.00	7.13	1.07	0.54	<1.0	1.0		
			12:12	8.2	1.0	24.90		8.42		31.07		1,043.50		7.25		0.01		<1.0			
	27/4/2022	Sunny				25.90	25.90	8.44	8.39	30.08	30.08	90.70	92.05	6.23	6.32	0.49	0.62	2.1	2.3		
						25.90		8.34		30.08		93.40		6.41		0.75		2.4			
	29/4/2022	Sunny	13:08	0.0	1.0	28.20	28.40	8.49	8.48	29.14	29.22	95.10	88.45	6.31	5.85	1.65	1.40	1.4	1.6		
			13:10	0.0	1.0	28.60		8.47		29.29		81.80		5.39		1.15		1.7			

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 (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
CF	12/4/2022	Sunny	10:23	9.2	4.6	23.40	23.45	8.49	8.50	31.13	31.19	101.50	96.15	7.22	6.84	1.62	1.51	2.9	2.7		
			10:25	9.2	4.6	23.50		8.51		31.25		90.80		6.45		1.39		2.5			
	14/4/2022	Sunny	9:19	9.9	5.0	22.20	22.25	8.31	8.32	30.87	30.86	78.20	81.20	5.69	5.91	0.49	0.47	<1.0	1.0		
			9:21	9.9	5.0	22.30		8.33		30.84		84.20		6.13		0.45		<1.0			
	16/4/2022	Monsoon signal	9:08	8.4	4.2	21.30	21.30	7.90	7.95	32.26	32.28	82.40	87.05	6.05	6.39	0.01	0.01	2.9	2.8		
			9:10	8.4	4.2	21.30		8.00		32.29		91.70		6.73		0.01		2.6			
	18/4/2022	Cloudy	11:53	8.7	4.4	21.50	21.50	8.40	8.40	32.51	32.48	85.50	85.55	6.24	6.25	6.10	6.02	4.7	4.5		
			11:55	8.7	4.4	21.50		8.40		32.45		85.60		6.25		5.94		4.3			
	20/4/2022	Cloudy	11:50	8.7	4.4	21.60	21.60	8.39	8.39	33.01	33.00	72.70	70.05	5.29	5.10	8.10	7.48	10.6	10.4		
			11:52	8.7	4.4	21.60		8.39		32.99		67.40		4.90		6.86		10.2			
	22/4/2022	Cloudy	11:29	7.9	4.0	22.60	22.55	8.35	8.35	32.35	32.35	72.10	63.90	5.17	4.59	2.33	3.50	3.1	3.0		
			11:31	7.9	4.0	22.50		8.35		32.35		55.70		4.00		4.67		2.8			
	25/4/2022	Cloudy	9:29	7.3	3.7	24.20	24.15	7.67	7.61	30.93	30.94	97.70	99.05	6.87	6.97	1.62	1.10	1.7	1.8		
			9:31	7.3	3.7	24.10		7.55		30.94		100.40		7.06		0.57		1.9			
	27/4/2022	Sunny	8:44	8.2	4.1	25.40	25.40	8.16	8.15	30.47	30.55	99.80	90.10	6.88	6.21	1.78	1.24	1.6	1.7		
			8:46	8.2	4.1	25.40		8.13		30.62		80.40		5.54		0.69		1.8			
	29/4/2022	Sunny	8:54	0.0	4.1	26.00	25.95	8.31	8.30	29.62	29.63	98.20	91.45	6.75	6.29	0.11	0.25	1.2	1.4		
			8:56	0.0	4.1	25.90		8.29		29.64		84.70		5.82		0.39		1.5			

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 CF (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	
CF	12/4/2022	Sunny	16:17	10.4	5.2	23.20	23.20	8.59	8.59	31.37	31.35	102.10	96.75	7.28	6.90	1.04	0.68	2.3	2.5	
			16:19	10.4	5.2	23.20		8.59		31.33		91.40		6.52		0.31		2.6		
	14/4/2022	Sunny	13:55	8.1	4.1	23.60	23.60	8.52	8.52	30.57	30.57	73.00	74.60	5.19	5.31	2.53	3.27	1.1	1.2	
			13:58	8.1	4.1	23.60		8.52		30.57		76.20		5.42		4.00		1.3		
	16/4/2022	Monsoon signal	0:00	0.0	0.0	-	Sampling was cancelled due to adverse weather													
	18/4/2022	Cloudy	9:03	8.2	4.1	21.40	21.40	7.71	7.74	32.18	32.00	74.50	81.90	5.46	6.03	2.50	2.59	3.2	3.4	
			9:05	8.2	4.1	21.40		7.77		31.81		89.30		6.60		2.68		3.6		
	20/4/2022	Cloudy	9:01	9.4	4.7	21.20	21.20	7.82	7.86	32.66	32.67	68.60	74.15	5.04	5.45	3.64	3.64	3.1	3.0	
			9:03	9.4	4.7	21.20		7.90		32.67		79.70		5.85		3.64		2.8		
	22/4/2022	Cloudy	8:48	8.6	4.3	22.40	22.40	7.46	7.50	32.07	32.08	71.00	78.60	5.12	5.67	2.29	2.64	1.9	1.8	
			8:50	8.6	4.3	22.40		7.54		32.08		86.20		6.21		2.99		1.6		
	25/4/2022	Cloudy	12:15	8.2	4.1	24.80	24.90	8.42	8.42	31.18	31.23	107.20	105.40	7.44	7.31	1.99	1.00	1.8	1.8	
			12:17	8.2	4.1	25.00		8.42		31.28		103.60		7.17		0.01		1.7		
	27/4/2022	Sunny	11:19	8.0	4.0	25.60	25.60	8.43	8.43	30.29	30.30	95.50	94.25	6.57	6.49	1.89	0.95	2.6	2.6	
			11:21	8.0	4.0	25.60		8.43		30.31		93.00		6.40		0.01		2.6		
	29/4/2022	Sunny	11:19	8.0	4.0	25.60	25.60	8.43	8.43	30.29	30.30	95.50	94.25	6.57	6.49	1.89	0.95	2.6	2.6	
			11:21	8.0	4.0	25.60		8.43		30.31		93.00		6.40		0.01		2.6		

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 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
CF	12/4/2022	Sunny	10:28	9.2	8.2	23.20	23.15	8.52	8.52	31.25	31.27	97.30	94.30	6.94	6.74	1.14	1.08	1.8	1.9		
			10:30	9.2	8.2	23.10	8.51	8.52	31.29	31.27	97.30	94.30	6.53	6.74	1.01	1.08	1.9	1.9			
	14/4/2022	Sunny	9:25	9.9	8.9	22.30	22.25	8.37	8.36	30.45	30.68	78.40	80.10	5.71	5.84	1.92	1.26	<1.0	1.0		
			9:27	9.9	8.9	22.20	8.35	8.36	30.90	30.68	81.80	80.10	5.96	5.84	0.60	1.26	<1.0	1.0			
	16/4/2022	Monsoon signal	9:12	8.4	7.4	21.30	21.25	8.10	8.13	32.26	32.28	78.00	84.35	5.73	6.20	0.01	0.01	3.2	3.4		
			9:14	8.4	7.4	21.20	8.15	8.13	32.30	32.28	90.70	84.35	6.67	6.20	0.01	0.01	3.6	3.4			
	18/4/2022	Cloudy	12:00	8.7	7.7	21.50	21.50	8.40	8.40	32.61	32.63	86.80	81.85	6.34	5.98	5.71	5.86	5.0	5.3		
			12:02	8.7	7.7	21.50	8.40	8.40	32.64	32.63	76.90	81.85	5.61	5.98	6.00	5.86	5.5	5.3			
	20/4/2022	Cloudy	11:54	8.7	7.7	21.50	21.50	8.39	8.39	33.03	33.01	78.10	72.60	5.69	5.29	8.94	9.29	7.4	7.6		
			11:56	8.7	7.7	21.50	8.39	8.39	32.99	33.01	67.10	72.60	4.89	5.29	9.64	9.29	7.8	7.6			
	22/4/2022	Cloudy	11:35	7.9	6.9	22.60	22.65	8.35	8.35	32.46	32.46	61.20	70.80	4.38	5.07	4.00	3.23	3.5	3.7		
			11:37	7.9	6.9	22.70	8.35	8.35	32.45	32.46	80.40	70.80	5.76	5.07	2.45	3.23	3.9	3.7			
	25/4/2022	Cloudy	9:33	7.3	6.3	24.40	24.35	7.86	7.84	31.01	31.01	106.90	97.60	7.49	6.84	0.06	0.68	1.3	1.2		
			9:35	7.3	6.3	24.30	7.82	7.84	31.00	31.01	88.30	97.60	6.19	6.84	1.30	0.68	1.1	1.2			
	27/4/2022	Sunny	8:48	8.2	7.2	24.60	24.65	8.21	8.22	31.24	31.24	79.80	88.25	5.55	6.14	0.60	0.31	1.3	1.4		
			8:50	8.2	7.2	24.70	8.23	8.22	31.24	31.24	96.70	88.25	6.73	6.14	0.01	0.31	1.4	1.4			
	29/4/2022	Sunny	8:58	0.0	7.1	25.30	25.30	8.32	8.32	95.50	63.09	95.50	91.20	6.60	6.33	0.20	0.89	1.9	1.8		
			9:00	0.0	7.1	25.30	8.31	8.32	30.67	63.09	86.90	91.20	6.06	6.33	1.58	0.89	1.6	1.8			

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	Value	AVG
CF	12/4/2022	Sunny	16:23	10.4	9.4	22.50	22.55	8.56	8.56	31.74	31.73	98.30	95.80	7.08	6.90	0.99	1.14	1.9	1.7		
			16:25	10.4	9.4	22.60	8.55	8.56	31.72	31.73	93.30	95.80	6.72	6.90	1.29	1.14	1.4	1.7			
	14/4/2022	Sunny	14:00	8.1	7.1	22.80	22.80	8.48	8.48	32.10	31.78	77.10	79.35	5.28	5.57	4.00	3.53	1.9	1.8		
			14:05	8.1	7.1	22.80	8.48	8.48	31.46	31.78	81.60	79.35	5.86	5.57	3.05	3.53	1.7	1.8			
	16/4/2022	Monsoon signal	0:00	0.0	-1.0	-	-	Sampling was cancelled due to adverse weather													
	18/4/2022	Cloudy	9:07	8.2	7.2	21.40	21.40	7.89	7.91	32.29	32.30	70.70	78.65	5.18	5.76	2.17	2.70	3.0	2.9		
			9:09	8.2	7.2	21.40	7.93	7.91	32.31	32.30	86.60	78.65	6.34	5.76	3.22	2.70	2.7	2.9			
	20/4/2022	Cloudy	9:05	9.4	8.4	21.10	21.10	8.03	8.02	32.82	32.82	82.70	76.45	6.08	5.62	3.68	4.28	2.8	2.7		
			9:07	9.4	8.4	21.10	8.00	8.02	32.81	32.82	70.20	76.45	5.15	5.62	4.88	4.28	2.5	2.7			
	22/4/2022	Cloudy	8:52	8.6	7.6	22.40	22.40	7.76	7.74	32.19	32.19	85.20	77.30	6.13	5.57	2.69	2.39	2.4	2.3		
			8:54	8.6	7.6	22.40	7.72	7.74	32.18	32.19	69.40	77.30	5.00	5.57	2.08	2.39	2.2	2.3			
	25/4/2022	Cloudy	12:21	8.2	7.2	25.00	25.00	8.42	8.42	31.28	31.29	86.00	48.07	5.95	6.48	0.97	0.69	2.4	2.3		
			12:23	8.2	7.2	25.00	8.42	8.42	31.29	31.29	10.13	48.07	7.00	6.48	0.40	0.69	2.2	2.3			
	27/4/2022	Sunny	11:25	8.0	7.0	25.30	25.30	8.41	8.41	30.84	30.85	94.10	86.25	6.49	5.95	2.63	4.02	2.9	3.0		
			11:27	8.0	7.0	25.30	8.41	8.41	30.85	30.85	78.40	86.25	5.41	5.95	5.41	4.02	3.1	3.0			
	29/4/2022	Sunny	13:21	0.0	7.3	26.60	26.60	8.52	8.52	29.06	29.06	97.40	89.85	6.64	6.12	1.06	0.56	1.4	1.6		
			13:23	0.0	7.3	26.60	8.52	8.52	29.06	29.06	82.30	89.85	5.60	6.12	0.06	0.56	1.7	1.6			

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.



***Appendix 5.3***

***Quarterly 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**

**Quarterly Summary Waste Flow Table for 2022**

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>Feb</b>	2.37	0.00	0.00	0.00	2.37	0.00	0.00	0.00	0.00	0.00	52.60
<b>Mar</b>	2.51	0.00	0.00	0.00	2.51	0.00	1.55	0.00	0.00	0.00	34.82
<b>Apr</b>	0.62	0.00	0.00	0.00	0.62	0.00	0.00	0.05	0.00	0.00	9.74
<b>Total</b>	5.50	0.00	0.00	0.00	5.50	0.00	1.55	0.05	0.00	0.00	97.16

Notes:

- (1) The inert C&D material except slurry and bentonite are disposed at Mui Wo Temporary Public Fill Bank (MW-PFRF)
- (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>.