

Intermodal Transfer Terminal – Bonded Vehicular Bridge and Associated Roads

Monthly EM&A Report for February 2022

March 2022

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Airport Authority Hong Kong

Intermodal Transfer Terminal – Bonded Vehicular Bridge and Associated Roads

Monthly EM&A Report for February 2022

March 2022

This Submission of Construction Phase Monthly Environmental Monitoring and Audit (EM&A) Report for February 2022

has been reviewed and certified by

the Environmental Team Leader (ETL) in accordance with

Condition 3.4 of Environmental Permit No. EP-560/2018 and

Section 10.3 of the EM&A Manual of the Project.

Certified by:

Ir Thomas Chan

Environmental Team Leader (ETL) Mott MacDonald Hong Kong Limited

Mum Clin

Date 11 March 2022



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By Email

Airport Authority Hong Kong HKIA Tower, 1 Sky Plaza Road, Hong Kong International Airport, Lantau, Hong Kong

Attn: Alan Chan (Manager, Civil)

11 March 2022

Dear Sir,

Contract C19C02 - Independent Environmental Checker Consultancy Services for Intermodal Transfer Terminal – Bonded Vehicular Bridge and Associated Roads Monthly Environmental and Audit (EM&A) Report for February 2022

Reference is made to the Environmental Team's submission of Monthly EM&A Report for February 2022 in accordance with Condition 3.4 of the Environmental Permit (No: EP-560/2018) and Section 10.3 of the EM&A Manual of the Project certified by the ET Leader on 11 March 2022.

We would like to inform you that we have verified on the captioned submission in accordance with the requirement stipulated in Condition 1.9 of EP-560/2018.

Should you have any queries, please feel free to contact the undersigned at 3922 9366.

Yours faithfully, AECOM Asia Co. Ltd.

Y W Fung

Independent Environmental Checker

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Executive summary

On 23 August 2018, the Environment Impact Assessment (EIA) Report (Register No.: AEIAR-216/2018) for the Project was approved and an Environmental Permit (EP) (Permit No.: EP-560/2018) was issued for the construction and operation of the Project.

In June 2019, Mott MacDonald Hong Kong Limited (MMHK) was commissioned by Airport Authority Hong Kong (AAHK) to provide Environmental Team (ET) consultancy services for implementation of an Environmental Monitoring and Audit (EM&A) programme of the "Intermodal Transfer Terminal – Bonded Vehicular Bridge and Associated Roads" (hereinafter referred to as "the Project") in accordance with the Environmental Permit (EP) requirements throughout the Preconstruction, Construction and Post-construction phases.

The project construction was commenced on 5 October 2020 and the construction phase EM&A programme started on 5 October 2020.

This is the 17th Monthly EM&A Report for the construction phase of the Project which summaries findings of the EM&A programme during the reporting period from 1 to 28 February 2022.

Key Construction Works in the Reporting Period

A summary of construction activities undertaken during the reporting period is presented below:

- Plant and material mobilization for marine works
- Plant and material mobilization for landside works
- Preparation works for marine piling works construction of access platform for monopile
- Marine bored pilling works
- Marine pile cap construction
- Marine pier construction
- Bridge deck construction
- Ancillary buildings construction
- Abutment, upramp structure & superstructure
- Retaining wall construction
- Assembly of travelling of formwork

Environmental Monitoring and Audit Progress

The monthly EM&A programme was undertaken by ET in accordance with the approved EM&A Manual. A summary of the monitoring activities during the reporting period is presented below:

Table I: Summary Table for EM&A Activities in the Reporting Period

EM&A Activities	Number of Sessions
Water quality monitoring	10
Weekly environmental site inspections	4

Breaches of Action and Limit Levels

Water Quality

There was no breach of Action or Limit Levels for water quality during the reporting month.

Complaint Log

There was no complaint in relation to the environmental impact received during the reporting period.

Notifications of Summons and Successful Prosecutions

There was no notifications of summons or successful prosecutions received during this reporting period.

Reporting Changes

There was no reporting change during the reporting period.

Future Key Issues

The future key issues to be undertaken in the upcoming month are:

- Plant and material mobilization for landside works
- Plant and material mobilization for marine works
- Preparation works for marine piling works construction of access platform for monopile
- Marine bored pilling works
- Marine pile cap construction
- Marine pier construction
- Bridge deck construction
- Ancillary buildings construction
- Abutment, upramp structure & superstructure
- Retaining wall construction
- Pier segment construction

1 Introduction

1.1 Background

On 23 August 2018, the Environment Impact Assessment (EIA) Report (Register No.: AEIAR-216/2018) for the Project was approved and an Environmental Permit (EP) (Permit No.: EP-560/2018) was issued for the construction and operation of the Project.

The Project site is situated between the Hong Kong-Zhuhai-Macao Bridge Boundary Crossing Facilities (HKBCF) Island and the Hong Kong International Airport (HKIA), at the south of the existing SkyPier on the Airport Island. The Bonded Vehicular Bridge serves as a land connection between the HKBCF Island and Intermodal Transfer Terminal (ITT) building next to the SkyPier to be built by AAHK. Part of the bridge is located in the marine area (marine section) and part on the HKBCF Island (land section). The marine section of the site is situated in a marine area between HKIA and HKBCF Island.

The Bonded Vehicular Bridge serves as a dedicated direct vehicular access connecting the ITT of HKIA and HKBCF Island. The Project scale is anticipated to be small, the bridge's marine section is approximately 360 m in length, supported by bridge concrete piers. The Bridge's land section spans over the HKBCF Island with a total length of approximately 210 m.

In June 2019, Mott MacDonald Hong Kong Limited (MMHK) was commissioned by Airport Authority Hong Kong (AAHK) to provide Environmental Team (ET) consultancy services for implementation of an Environmental Monitoring and Audit (EM&A) programme in accordance with the EP requirements throughout the Pre-construction, Construction and Post-construction phases of the Project.

Baseline monitoring for the Project was carried out between August to October 2019, and the baseline monitoring report was submitted in April 2020 in accordance with the requirements set out in the EP and recommended in the EM&A Manual and received no further comment from the Environmental Protection Department (EPD).

For Construction phase of the Project, the construction has been commenced on 5 October 2020 and the construction phase EM&A programme was started on 5 October 2020.

This is the 17th Monthly EM&A report summarising the key findings of the construction phase EM&A programme from 1 to 28 February 2022 (the reporting period) and is submitted to fulfil requirements in Condition 3.4 of EP and Section 10.3 of EM&A Manual of the Project.

1.2 Project Organisation

The organisation chart and lines of communication with respect to the on-site environmental management structure of the key personnel are shown in **Appendix A**. The key personnel contact names and numbers are summarized in **Table 1.1.**

Table 1.1: Contact Information of Key Personnel

Party	Position	Name	Telephone
Project Manager's Representative (Airport Authority Hong Kong)	Senior Project Engineer, Environment	Becky Yan	2183 2773
Environmental Team (ET)	Environmental Team Leader	Thomas Chan	2828 5967
(Mott MacDonald Hong Kong Limited)	Deputy Environmental Team Leader	Gary Chow	2828 5874
Independent Environmental Checker (IEC)	Independent Environmental Checker	Y W Fung	3922 9366
(AECOM Asia Company Limited)	Deputy Independent Environmental Checker	Lemon Lam	3922 9381
Main Contractor	Senior Project Manager	Brian Ho	9041 7535
(Gammon Construction Limited)	Environmental Officer	Elena Lai	6841 3324

1.3 Construction Works Programme and Construction Works Area

The construction works commenced on 5 October 2020. The construction works programme and the construction works area of the Project are shown in **Appendix B** and **Appendix C** respectively.

1.4 Construction Works undertaken during the Reporting Period

A summary of construction activities undertaken during this reporting period is presented below:

- Plant and material mobilization for marine works
- Plant and material mobilization for landside works
- Preparation works for marine piling works construction of access platform for monopile
- Marine bored pilling works
- Marine pile cap construction
- Marine pier construction
- Bridge deck construction
- Ancillary buildings construction
- Abutment, upramp structure & superstructure
- Retaining wall construction
- Assembly of travelling of formwork

2 Water Quality Monitoring

2.1 Impact Water Quality Monitoring

The impact water quality monitoring was conducted three days per week at mid-flood and midebb tides, at 5 water quality monitoring stations. Samples were taken at three depths, namely, 1m below water surface, mid-depth and 1m above sea bed, except where the water depth less than 6m, the mid-depth station was omitted. For locations with water depth less than 3m, only the mid-depth station was monitored. Duplicate in-situ measurements and water samples were collected from each independent monitoring event for all parameters to ensure a robust statistically interpretable dataset.

2.2 Monitoring Methodology

2.2.1 Monitoring Parameters

For the 3 impact stations (M1 to M3) and 2 control stations (C1 and C2), monitoring of DO, DO%, pH, temperature, turbidity, salinity, SS and water depth were undertaken.

Other relevant data were also recorded, including monitoring location, time, tidal stages, weather conditions and any special phenomena or work during the monitoring.

2.2.2 Monitoring Locations

With reference to the Baseline Monitoring Report, the water quality monitoring was conducted at three locations in the sea channel between the HKIA and the HKBCF (M1, M2 and M3) and two control stations (C1 and C2), locations are shown in **Figure 2.1** and summarized in **Table 2.1**.

Table 2.1: Locations of Marine Water Quality Monitoring Stations

ID	Monitoring Station	Easting	Northing
M1	Impact Station	812423	819635
M2 ⁽¹⁾	Impact Station	812629	819845
M3 ⁽²⁾	Impact Station	812586	820069
C1	Control Station - West	812419	820670
C2	Control Station - East	813072	820595

Notes:

- 1. As updated in the baseline monitoring report, the water quality monitoring at M2 station was shifted to bring it closer to the Project site and away from the SkyPier ferry movements for better representation.
- As updated in the baseline monitoring report, the water quality monitoring at M3 station was shifted to the location near the seawater intake of HKBCF to better represent the potential water quality impacts at the nearby sensitive receiver

2.2.3 Monitoring Schedule for the Reporting Period

The schedule for water quality monitoring of the reporting period is presented in **Appendix D**.

2.2.4 Monitoring Equipment

Water samples for all monitoring parameters were collected, stored, preserved and analysed according to the Standard Methods, APHA 21st ed. and/or other methods as agreed by the EPD. In-situ measurements at monitoring locations including dissolved oxygen (DO), dissolved oxygen

saturation (DO%), pH, temperature, turbidity, salinity and water depth were collected using the equipment listed in **Table 2.2**.

Water samples for suspended solids (SS) analysis were stored in suitable containers provided by the HOKLAS laboratory with no preservative added, packed in ice (cooled to 4°C without being frozen) and delivered to the HOKLAS laboratory as soon as possible after collection.

Table 2.2: Impact Water Quality Monitoring Equipment

Equipment	Brand and Model	Quantity
Water Sampler	Van Dorn Water Sampler	2
Monitoring Position Equipment (measurement of DGPS)	Garmin eTrex 20x	1
Water Depth Detector (measurement of water depth)	Garmin STRIKER™ Series	1
Multifunctional Meter (measurement of DO, DO%, temperature, turbidity, salinity and pH)	YSI ProDSS (Multiparameter Sampling Instrument)	3

2.2.5 Maintenance and Calibration of In-situ Instruments

In-situ monitoring instruments for water quality parameters were checked, calibrated and certified by a laboratory accredited under HOKLAS before use. Responses of sensors and electrodes were checked with certified standard solutions before each use.

Wet bulb calibration for DO measurement was carried out before commencement of monitoring and after completion of all measurements each day. The turbidity meter was calibrated in order to establish the relationship between NTU units and the levels of suspended solids. A zero check in distilled water was performed with the turbidity probe at least once per monitoring day. The probe was then calibrated with a solution of known NTU. Standard buffer solutions of at least pH 7 and pH 10 was used for calibration of the pH instrument before and after use on each monitoring day.

Calibration certificates of the monitoring equipment used in the monitoring for water quality parameters are provided in **Appendix E**.

2.2.6 Laboratory Measurement / Analysis

Analysis of SS was out in a HOKLAS accredited laboratory, ALS Technichem (HK) Pty Ltd (Reg. No. HOKLAS 066). Sufficient water samples were collected at each of the control stations and impact stations for carrying out the laboratory SS determination.

The SS determination works started within 24 hours after collection of the water samples. The analysis followed the APHA 2540D analytical method with a detection limit of 1 mg/L.

2.3 Event and Action Plan

2.3.1 Action and Limit Levels

The Action and Limit Levels for the impact monitoring stations were extracted from Table 2.8 of the Baseline Monitoring Report. The derived Action and Limit Levels are summarized in **Table 2.3**.

Table 2.3: Derived Action and Limit Levels

Parameters	Action Level	Limit Level
Impact Stations M1 and M2		
DO in mg/L		
Surface & Middle	4.3	4.0
Bottom	3.8	3.0
SS in mg/L	14.2	17.4
	AND	AND
	120% of upstream control station at the same tide of the same day	130% of upstream control station at the same tide of the same day
Turbidity in NTU	11.0	16.3
	AND	AND
	120% of upstream control station at the same tide of the same day	130% of upstream control station at the same tide of the same day
Impact Station M3		
SS in mg/L	33	42

Notes:

- 1. For DO measurement, non-compliance occurs when the monitoring result is lower than the limits.
- 2. For parameters other than DO, non-compliance of water quality occurs when the monitoring result is higher than the limits.
- 3. Depth-averaged results are used unless specified otherwise.
- 4. Impact station M3 is represents the impact station SR1A of "Expansion of Hong Kong International Airport into a Three-Runway System". The AL levels for M3 in Table 2.3 is referencing the agreed and adopted AL levels of SR1A from the Updated EM&A Manual for Expansion of Hong Kong International Airport into a Three-Runway System.

2.3.2 Event and Action Plan

In the event of water quality monitoring results at impact stations exceeding the Action and/or Limit levels for water quality as defined in **Table 2.3**, the actions in accordance with the Event and Action Plan presented in **Appendix F** shall be carried out.

2.4 Conclusion

During the reporting period, all monitoring results were within their corresponding Action and Limit Levels. Hence, no Action and Limit Level exceedance of water quality level was recorded during the reporting period.

In the meantime, the Contractor was reminded to implement and maintain all mitigation measures during weekly site inspection and regular environmental management meetings. These include maintaining mitigation measures properly as recommended in the EM&A Manual.

3 Environmental Site Inspection and Audit

3.1 Environmental Site Inspection

Site inspections were carried out by ET on a weekly basis to monitor the implementation of proper environmental pollution control mitigation measures for the Project. Key observations were recorded in the site inspection checklist and passed to the Contractor together with the appropriate recommended mitigation measures where necessary. During the reporting period, site inspections were carried out on 4, 9, 16 and 23 February 2022. Joint IEC site inspection was carried out on 23 February 2022.

Monthly landscape and visual site audit was carried out on 23 February 2022.

Key observations and reminders during the site inspections and landscape and visual site audit are described in **Table 3.1**.

Table 3.1: Summary of Site Inspections and Recommendations

Inspection Date	Key Observations / Reminders	Recommendations / Actions	Close-Out Date
26 Jan 2022	Potential soil runoff was found next to the surface drain at the work area for retaining wall.	The Contractor should check and ensure that the surface drain is intercepted to prevent silt, construction materials or debris being washed into the public drainage system.	4 Feb 2022
26 Jan 2022	The idled stockpiles of sand materials were not covered.	The Contractor should provide sufficient impermeable cover to sand materials for fugitive dust suppression.	4 Feb 2022
9 Feb 2022	Construction debris were observed scattered at Pier 5.	The contractor should clean up the construction debris to prevent washing into the sea.	16 Feb 2022
16 Feb 2022	Haul road was observed dry.	The Contractor should provide sufficient dust suppression measures (e.g. water spraying) for the haul road.	23 Feb 2022
16 Feb 2022	The maintenance record of wastewater treatment facility was observed incomplete.	The Contractor should keep the maintenance record for wastewater treatment facility No.4 properly.	23 Feb 2022
16 Feb 2022	The idled stockpiles of sand materials were not covered properly.	The Contractor should provide sufficient impermeable cover to sand materials for fugitive dust suppression.	23 Feb 2022
16 Feb 2022	Torn sandbag was observed at sandbag barriers near the surface drain at the new vehicular entrance.	The Contractor should replace the torn sandbag to prevent sand from entering the public drainage system.	23 Feb 2022
23 Feb 2022	Sandbag barrier for protecting temporary manhole near Pier 8 was observed incomplete.	The Contractor should reinstate the sandbag barrier for preventing construction runoff from entering the public drainage system.	On-going

Inspection Date	Key Observations / Reminders	Recommendations / Actions	Close-Out Date
23 Feb 2022	The maintenance record of wastewater treatment facility No.4 was observed faded as washed by rainwater.	The Contractor should keep the maintenance record properly in a secure location.	On-going
23 Feb 2022	The temporary manhole cover should be cleaned regularly. (Reminder)	The Contractor was reminded to keep regular cleaning for the temporary manhole cover near Pier 8 to avoid any potential seepage of sand material into the public drainage system.	23 Feb 2022

3.2 Advice on the Solid and Liquid Waste Management Status

The Contractor was registered as a chemical waste producer for the Project. Construction and demolition (C&D) material sorting was carried out on site. Sufficient numbers of receptacles were provided for general refuse collection and sorting. Excavated inert C&D materials were reused to minimise the disposal of C&D waste to public fill. The Contractor was reminded to maintain on site waste sorting and recording system and maximize reuse / recycling of C&D wastes, whenever these are generated.

The monthly summary of waste flow table is detailed in Appendix H.

The valid environmental licenses and permits for the Project during the reporting period are summarized in **Appendix I**.

3.3 Implementation Status of Environmental Mitigation Measures

In response to the site audit findings, the Contractor carried out corrective actions.

A summary of the environmental mitigation measures implementation status is presented in **Appendix J**. Necessary mitigation measures were implemented properly, observations and reminders were issued to the Contractor where actions were taken by the Contractor to rectify the identified issues.

3.4 Summary of Exceedance of the Environmental Quality Performance Limit

Water Quality

Water quality monitoring was conducted in the reporting period and with no Action and Limit Level exceedances of water quality level was recorded at M1, M2 and M3.

Detailed impact monitoring results and relevant graphical plots are presented in Appendix G.

3.5 Summary of Complaints, Notifications of Summons and Successful Prosecutions

Complaint Log

There was no complaint received in relation to the environmental impact during the reporting period.

Notifications of Summons or Status of Prosecution

There was no notification of summons or prosecutions received during the reporting period.

Cumulative Statistics

Statistics on complaints, notifications of summons and successful prosecutions are summarized in **Table 3.2.**

Table 3.2: Statistics on Environmental Complaints, Notifications of Summons and Successful Prosecutions

Reporting Period	Environmental Complaints	Notifications of Summons	Successful Prosecutions
This reporting period (Feb 2022)	0	0	0
From commencement date of construction to end of reporting period	0	0	0

4 Future Key Issues

4.1 Construction Programme for the Coming Month

As informed by the Contractor, the major construction activities for the next reporting period (March 2022) are summarized in **Table 4.1.**

Table 4.1: Construction Activities for the Next Reporting Period

Period	Description of Activities
Period	 Plant and material mobilization for landside works Plant and material mobilization for marine works Preparation works for marine piling works - construction of access platform for monopile Marine bored pilling works
Mar 2022	 Marine pile cap construction Marine pier construction Bridge deck construction Ancillary buildings construction Abutment, upramp structure & superstructure
	Retaining wall constructionPier segment construction

4.2 Environmental Site Inspection and Monitoring Schedule for the Next Reporting Period

The tentative schedule for weekly site inspection and water quality monitoring for the next reporting period is provided in **Appendix D**.

5 Conclusions

General

The construction works for the Project commenced on 5 October 2020. The ET of the Project has undertaken environmental site inspections and water quality monitoring under the construction phase EM&A programme during the reporting period.

Water Quality Monitoring

No Action and Limit Level exceedances of water quality level was recorded at M1, M2 and M3 during the reporting period.

Environmental Site Inspections

Environmental site inspections were carried out four (4) times during the reporting period. Recommendations on remedial actions were given to the Contractor for the deficiencies identified during the site inspections.

Complaint Log

There was no complaint received in relation to the environmental impact during the reporting period.

Reporting Changes

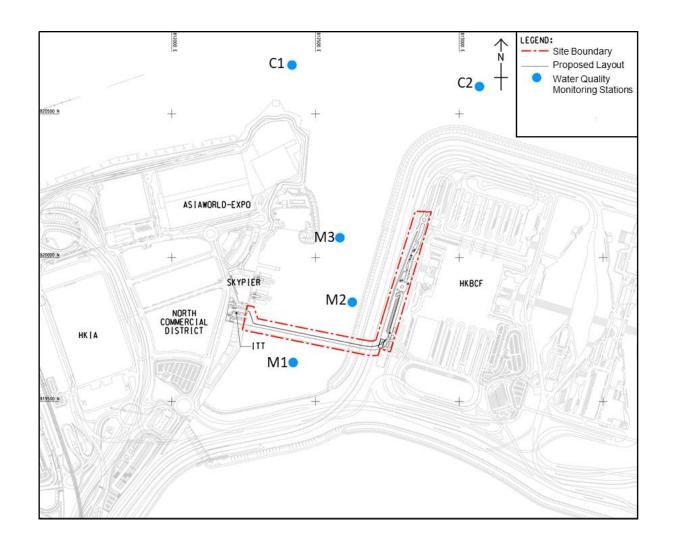
There was no reporting change during the reporting period.

Notifications of Summons and Successful Prosecutions

There was no notification of summons or successful prosecutions received during the reporting period.

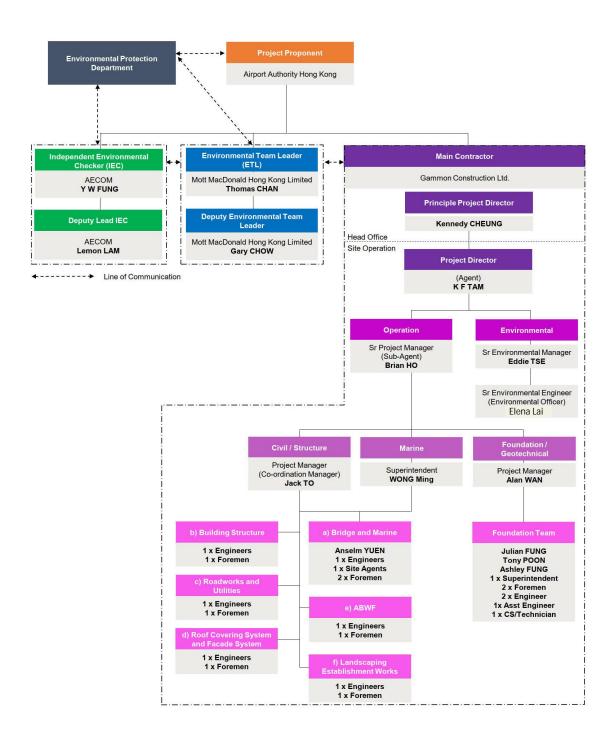
Figure

Figure 2.1 Water Quality Monitoring Locations



Appendices

Appendix A. Project Organisation



Appendix B. Construction Works Programme

C19W10 ITTB AD2 Monthly Programme Rev. C Updated as 28 Feb 2022 **Activity Name** C19W10 ITTB AD2 Monthly Programme Rev. C Updated as 28 Feb 2022 **Contract Dates** Site Access and Vacate Dates (PS Appendix C2) Access Dates Access Area C19W10/2 (31 Jul 21) 19W10.A.AD02 Access Area C19W10/2 (31 Jul 21) 28-Feb-22* Access Area C19W10/3 (30 Mar 22) ₩ 19W10.A.AD03 Access Area C19W10/3 (30 Mar 22) 30-Mar-22* 0 0% Access Area C19W10/4A & C19W10/4B - Option C19W10/B (30 Mar 22) ₩ 19W10.A.AD0B Access Area C19W10/4A & C19W10/4B - Option C19W10/B (30 Mar 22) 30-Mar-22* 0 0% Access Area C19W10/7 (5 Oct 20) 19W10.A.AD07 Access Area C19W10/7 (5 Oct 20) 28-Feb-22* 0 Cost Centre 1 - Preliminaries and General Requirements **Design & Procurement** On-Site Mock-up for AAHK Kiosk 2 Cost Centre 3 - Bonded Vehicular Bridge - Marine Portion from Chainage CH0.000 to CH439.827 Marine Piling and Substructure Works Pier 3 19W10.C.32850 Pier 3 Erection 31-Dec-21 A 15-Mar-22 27 | 8.15% 19W10.C.31390 Cofferdam installation and pile cap construction (Pier 7) 19-Apr-22 25-May-22 29 Cofferdam installation and pile cap construction (Pier 7) 19W10.C.31530 26-May-22 28-Jun-22 27 Pier 7 Erection Pier 6 Cofferdam installation and pile cap construction (Pier 6) 19W10.C.32860 Cofferdam installation and pile cap construction (Pier 6) 28-Feb-22 01-Apr-22 29 0% Pier 6 Erection 27 0% 19W10.C.32870 02-Apr-22 10-May-22 19W10.C.31850 Submit BA10 for Pile Cap & Superstructure (Pier 6 & 7) 11-Apr-22 17-Apr-22 0% Submit BA10 for Pile Cap & Superstructure (Pier 6 & 7) 19W10.C.31610 Submit BA14 (Pier 6 & 7) 13-Mar-22 14 0% 28-Nov-21 A 19W10.C.31615 Submit BA8 (Pier 6 & 7) 14-Mar-22 10-Apr-22 28 0% Submit BA8 (Pier 6 & 7) Pier 2 Pier 2 Erection 24-May-22 19W10.C.32890 Pier 2 Erection 25-Jun-22 27 0% Pile cap construction for Pier 2 27 0% 19W10.C.31940 Pile cap construction for Pier 2 19-Apr-22 23-May-22 Submit BA10 0% 19W10.C.31930 Submit BA10 11-Apr-22 17-Apr-22 7 19W10.C.31800 Submit BA14 28-Nov-21 A 13-Mar-22 14 0% Submit BA8 19W10.C.31805 Submit BA8 14-Mar-22 10-Apr-22 28 0% Monopile 19W10.C.81230 Curing (Monopile) 05-May-22 01-Jun-22 28 Curing (Monopile) 19W10.C.81215 Monopile Bored Piling Works 14-Mar-22 04-May-22 40 0% Monopile Bored Piling Works 19W10.C.81200 Setting-up of Monopile Piling Platform 16-Feb-22 A 12 ng-up of Monopile Piling Platform 12-Mar-22 0% 19W10.C.81235 Sonic & Interface Test and Report Submission 7 Sonic & Interface Test and Report Submission 26-May-22 01-Jun-22 0% **Marine Superstructure** Pier 5 19W10.C.31230 Assembly of Travelling Formworks & Load Test (TF3 & 4) 30-Nov-21 A 17-Feb-22 A 40 100% 19W10.C.31240 Cantilever Segment Erection (Pier 5, 9 cycles) 26-Feb-22 A 19-May-22 63 0% Cantilever Segment Erection (Pier 5, 9 cycles) 19W10.C.31200 03-Jan-22 A 04-Feb-22 A 24 100% Pier 4 19W10.C.31860 26-Mar-22 24 Hammer Head 28-Feb-22* Pier 3 19W10.C.31430 Assembly of Travelling Formworks (TF3 & 4) Assembly of Travelling Formworks (TF3 & 4) 20-May-22 26-May-22 Cantilever Segment Erection (Pier 3, 10 cycles) 19W10.C.31440 Cantilever Segment Erection (Pier 3, 10 cycles) 27-May-22 24-Aug-22 70 0% 19W10.C.31400 Hammer Head 16-Mar-22 13-Apr-22 24 0% Hammer Head Pier 6 19W10.C.32000 Hammer Head 11-May-22 09-Jun-22 24 0% **ITT Transfer Deck** Cost Centre 4 - Bonded Vehicular Bridge - Land Portion from Chainage CH439.827 to CH685.000 Pier 8 19W10.C.41380 Assembly of Travelling of Formwork (TF1 & 2) & Load Test 20-Dec-21 A 19-Apr-22 40 0% 19W10.C.41390 Cantilever Erection (Pier 8, 10 cycles) 08-Feb-22 A 19-Jul-22 110 0% (Pier 8, 10 cycles) Pier 9 Date Revision Checked Approved Start Constraint

Project ID: C19W10-DWPG-B-AD-M20 3-Month Rolling Programme (As of 28 February 2022)

▼ Finish Constraint

No Successors

Remaining Work

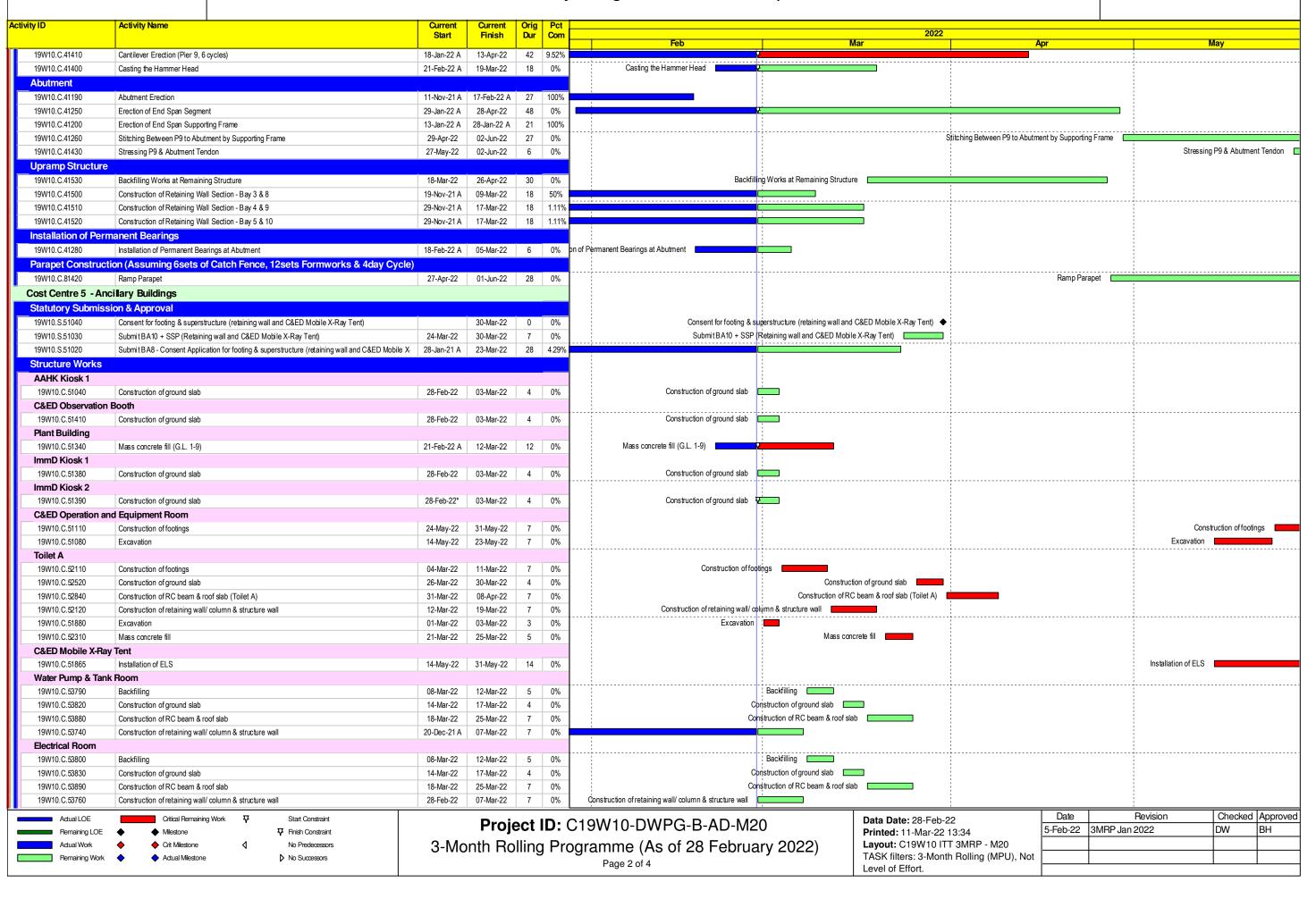
Actual Milestone

Data Date: 28-Feb-22
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Layout: C19W10 ITT 3MRP - M20
TASK filters: 3-Month Rolling (MPU), Not
Level of Effort.

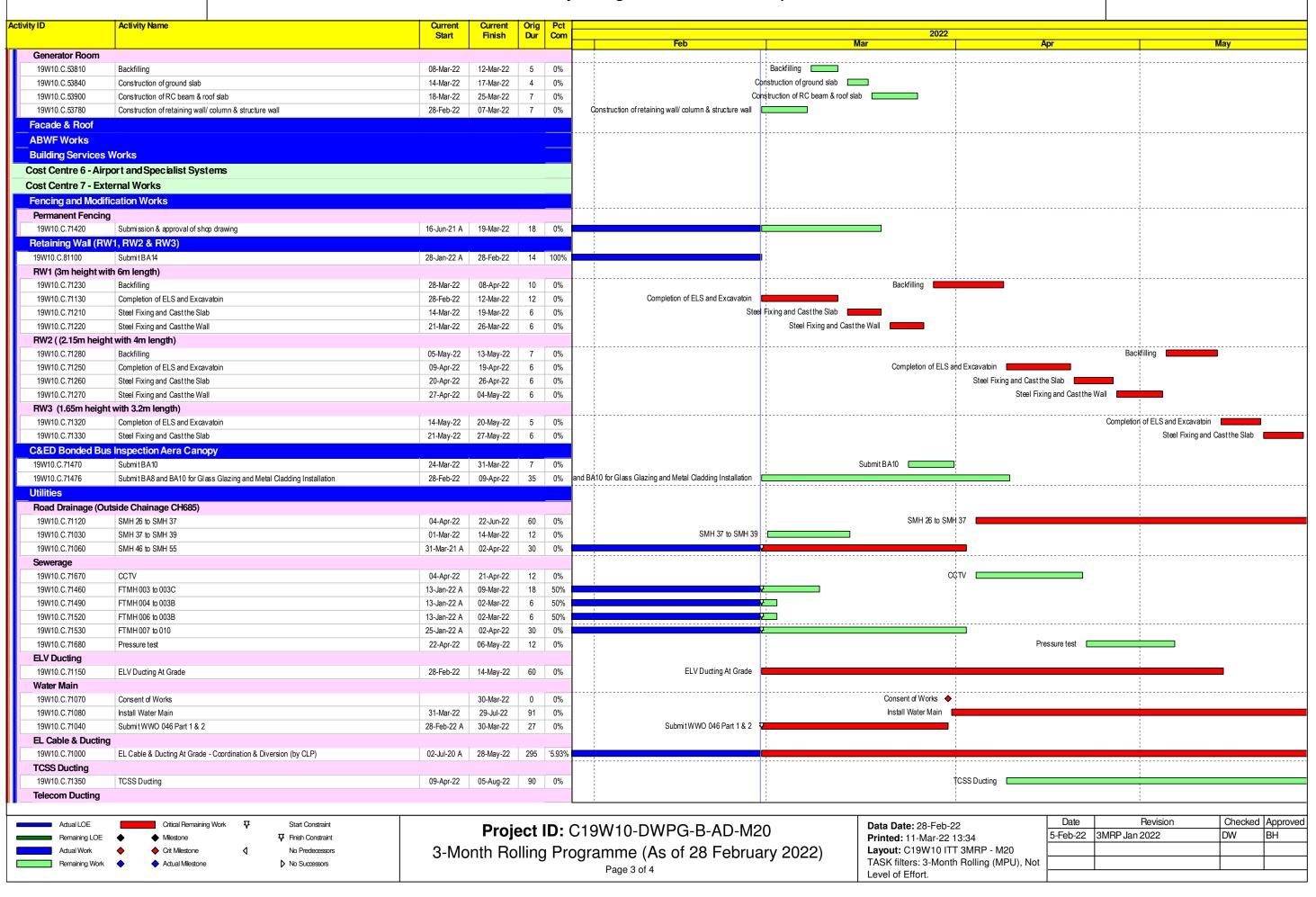
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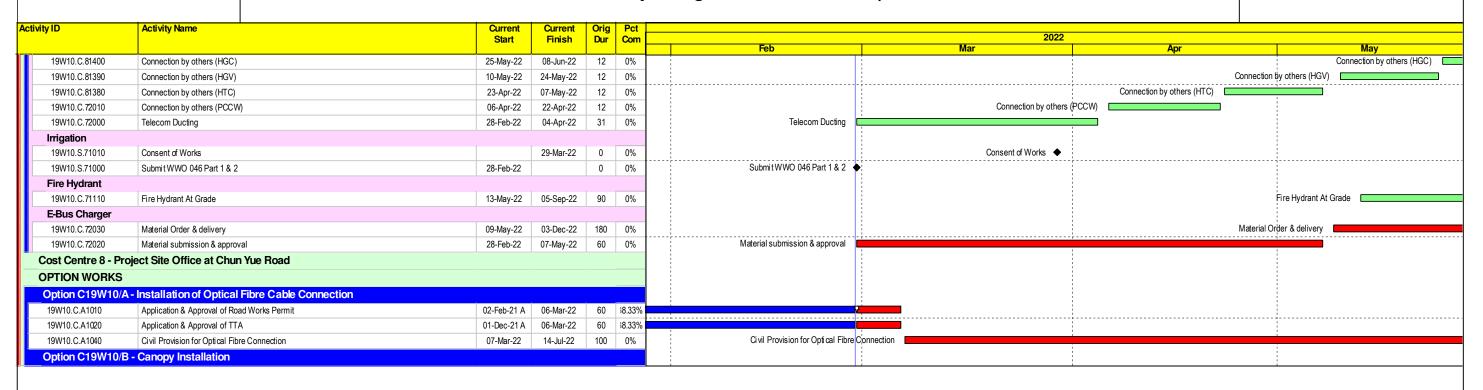
C19W10 ITTB AD2 Monthly Programme Rev. C Updated as 28 Feb 2022



C19W10 ITTB AD2 Monthly Programme Rev. C Updated as 28 Feb 2022



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Actual LOE Critical Remaining Work

Remaining LOE

Milestone

Actual Work

Crit Milestone

Remaining Work

Actual Milestone

Actual Milestone

No Predecessors

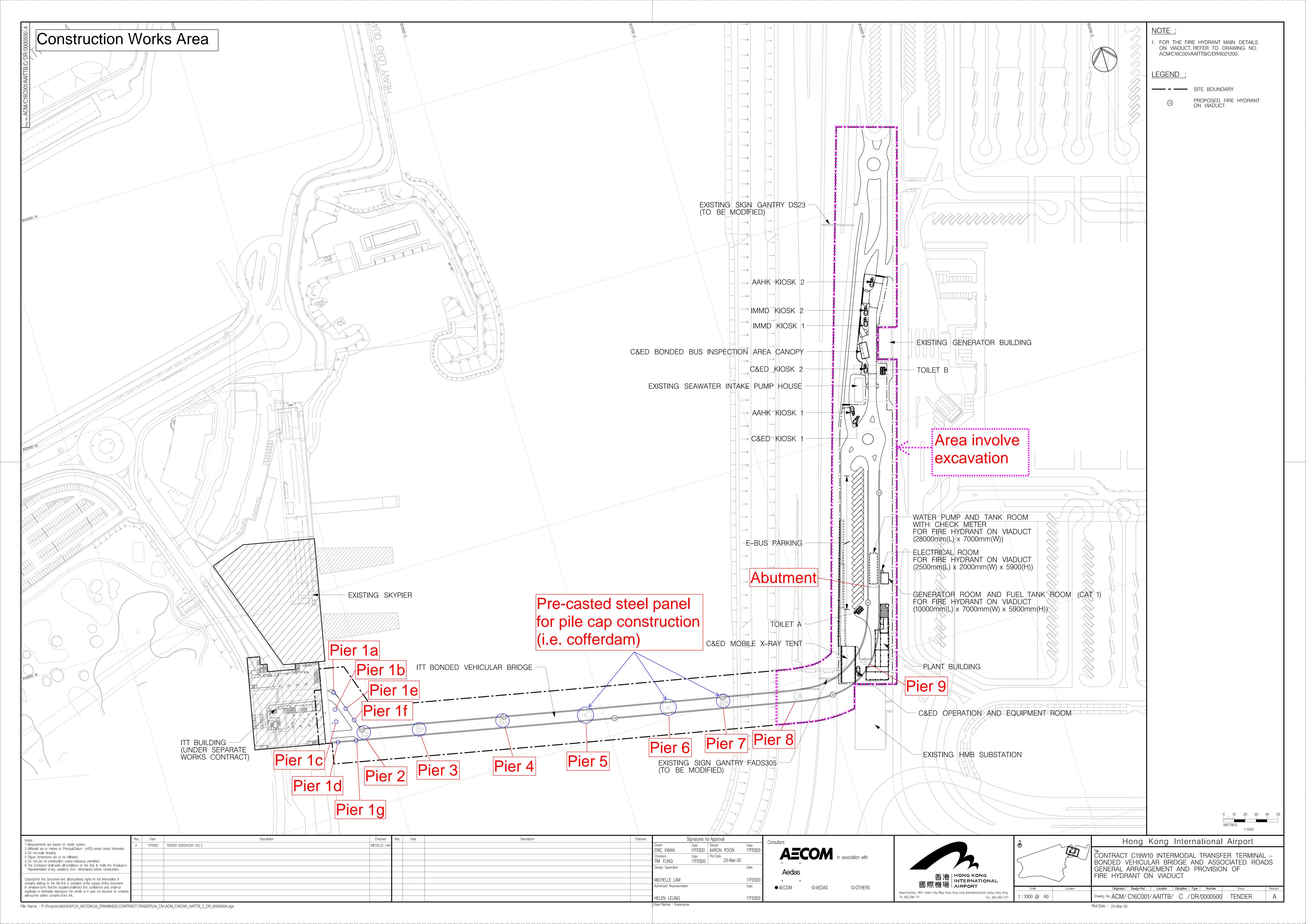
No Successors

No Successors

Project ID: C19W10-DWPG-B-AD-M20 3-Month Rolling Programme (As of 28 February 2022) Data Date: 28-Feb-22
Printed: 11-Mar-22 13:34
Layout: C19W10 ITT 3MRP - M20
TASK filters: 3-Month Rolling (MPU), Not Level of Effort.

	Date	Revision	Checked	Approved
5-Feb-22 3MRP Jan 2022		3MRP Jan 2022	DW	BH

Appendix C. Construction Works Area



Appendix D. Environmental Site Inspection and Monitoring Schedule

ITT-BVB Environmental Monitoring and Site Inspection Schedule for February 2022

Feb-22

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	3	4	5
					Environmental Site Inspection	Water Quality Monitoring
						mid- ebb: 16:16
						mid- flood: 10:36
6	7	8	9	10	11	12
		Water Quality Monitoring	Environmental Site Inspection	Water Quality Monitoring		Water Quality Monitoring
		mid- ebb: 5:11		mid- ebb: 21:21		mid- ebb: 23:08
		mid-flood: 11:49		mid- flood: 8:32		mid- flood: 10:48
13	14	15	16	17	18	19
		Water Quality Monitoring	Environmental Site Inspection	,		Water Quality Monitoring
		mid- ebb: 12:41		mid- ebb: 13:45		mid- ebb: 14:49
		mid- flood: 7:36		mid- flood: 8:26		mid- flood: 9:13
20	21	22	23	24	25	26
		Mater Quality Manitoring	Environmental Cita Inconsistion	Water Ouglit Manitoring		Motor Ouglity Monitoring
		Water Quality Monitoring mid- ebb: 16:50	Environmental Site Inspection	Water Quality Monitoring mid- ebb: 6:11		Water Quality Monitoring mid- ebb: 21:55
		mid- flood: 10:33		mid- flood: 0.11		mid- flood: 9:14
27	28	111d-1100d. 10:55		111d-1100d. 11.47		1111d- 1100d. 9.14
	20					
		Notes:				
			arried out during the Chinese Ne	w Year holiday (i.e. 1st to 3rd Fe	b 2022), therefore no water qual	lity monitoring will be conducted
		on 1st and 3rd Feb 2022.				

ITT-BVB Environmental Monitoring and Site Inspection Schedule for March 2022

Mar-22

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	3	4	5
		Water Quality Monitoring	Environmental Site Inspection	,		Water Quality Monitoring
		mid- ebb: 12:42		mid- ebb: 13:56		mid- ebb: 15:00
	_	mid- flood: 7:17		mid- flood: 8:21		mid- flood: 9:09
6	7	8	9	10	11	12
		Water Quality Monitoring	Environmental Site Inspection	Water Quality Monitoring		Water Quality Monitoring
		mid- ebb: 16:41	·	mid- ebb: 18:35		mid- ebb: 21:20
		mid- flood: 10:02		mid- flood: 10:36		mid- flood: 8:46
13	14	15	16	17	18	19
.0	1-7	'0	.0		.0	"
		Water Quality Monitoring	Environmental Site Inspection	Water Quality Monitoring		Water Quality Monitoring
		mid- ebb: 11:53	i i	mid- ebb: 12:50		mid- ebb: 13:50
		mid- flood: 16:58		mid- flood: 7:17		mid- flood: 8:01
20	21	22	23	24	25	26
		Water Quality Monitoring	Environmental Site Inspection	Water Quality Monitoring		Water Quality Monitoring
		mid- ebb: 15:40		mid- ebb: 17:27		mid- ebb: 20:12
		mid- flood: 9:17		mid- flood: 10:20		mid- flood: 7:20
27	28	29	30	31		
		W . O . I'' M . ''	F	W . O . I'. M . '. '		
		Water Quality Monitoring	Environmental Site Inspection	Water Quality Monitoring		
		mid- ebb: 11:50		mid- ebb: 12:59		
		mid- flood: 16:54		mid- flood: 7:10		
		Notes:				

Appendix E. Calibration Certificates



專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No.

R-BA110050

Date of Issue

29 November 2021

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PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.

Flat 2207, Yu Fun House,

Yu Chui Court, Shatin

New Territories, Hong Kong

Attn: Mr. Thomas WONG

PART B - DESCRIPTION

Name of Equipment

YSI ProDSS (Multi-Parameters)

Manufacturer

YSI (a xylem brand)

Serial Number

16H104233

Date of Received

Nov 26, 2021

Date of Calibration

Nov 26, 2021

Date of Next Calibration(a)

Feb 25, 2022

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Parameter

Reference Method

pH at 25°C

APHA 21e 4500-H⁺ B APHA 21e 4500-O G

Dissolved Oxygen Conductivity at 25°C

APHA 21e 2510 B

Salinity

APHA 21e 2520 B

Turbidity

APHA 21e 2130 B

Temperature

Section 6 of international Accreditation New Zealand Technical

Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

PART D - CALIBRATION RESULTS(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results			
4.00	4.09	0.09	Satisfactory			
7.42	7.48	0.06	Satisfactory			
10.01	10.06	0.05	Satisfactory			

Tolerance of pH should be less than ± 0.20 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
10	10.0	0.0	Satisfactory
24	21.9	-0.1	Satisfactory
45	45.0	0.0	Satisfactory

Tolerance limit of temperature should be less than ±2.0 (°C)

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

(a) The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.

(b) The results relate only to the calibrated equipment as received

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

(d) "Displayed Reading" denotes the figure shown on item under calibration/checking regardless of equipment precision or significant figures.

(e) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards..

LEE Chun-ning Senior Chemist



專業化驗有限公司 **QUALITY PRO TEST-CONSULT LIMITED**

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PART D - CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
8.40	8.60	0.20	Satisfactory
5.34	5.22	-0.12	Satisfactory
2.63	2.47	-0.16	Satisfactory
0.16	0.35	0.19	Satisfactory

Tolerance limit of dissolved oxygen should be less than ± 0.50 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading (µS/cm)	Displayed Reading (μS/cm)	Tolerance (%)	Results
0.001	146.9	151.0	2.79	Satisfactory
0.01	1412	1309	-7.29	Satisfactory
0.1	12890	12758	-1.02	Satisfactory
0.5	58670	59133	0.79	Satisfactory
1.0	111900	112965	0.95	Satisfactory

Tolerance limit of conductivity should be less than ± 10.0 (%)

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.95	-0.50	Satisfactory
20	19.93	-0.35	Satisfactory
30	29.88	-0.40	Satisfactory

Tolerance limit of salinity should be less than ± 10.0 (%)

(6) Turbidity

Expected Reading (NTU)	1 Displayed Reading(4) (NTT)		Results
0	0.05		Satisfactory
10	9.83	-1.7	Satisfactory
20	19.84	-0.8	Satisfactory
100	97.8	-2.2	Satisfactory
800	796.2	-0.5	Satisfactory

Tolerance limit of turbidity should be less than ± 10.0 (%)

~ END OF REPORT ~

Remark(s): -

[&]quot;Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.
The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.



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Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No.

R-BA110051

Date of Issue

29 November 2021

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1 of 2

PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.

Flat 2207, Yu Fun House, Yu Chui Court, Shatin

New Territories, Hong Kong

Attn: Mr. Thomas WONG

PART B - DESCRIPTION

Name of Equipment

YSI ProDSS (Multi-Parameters)

Manufacturer

YSI (a xylem brand)

Serial Number

16H104234

Date of Received

Nov 26, 2021

Date of Calibration

Nov 26, 2021

Date of Next Calibration(a)

Feb 25, 2022

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Parameter

Reference Method

pH at 25°C

APHA 21e 4500-H⁺ B

Dissolved Oxygen Conductivity at 25°C APHA 21e 4500-O G APHA 21e 2510B

Salinity

APHA 21e 2520B

Turbidity

APHA 21e 2130B

Temperature

Section 6 of international Accreditation New Zealand Technical

Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

PART D - CALIBRATION RESULTS(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	4.08	0.08	Satisfactory
7.42	7.46	0.04	Satisfactory
10.01	10.10	0.09	Satisfactory

Tolerance of pH should be less than ±0.20 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
10	10.0	0.0	Satisfactory
24	21.9	-0.1	Satisfactory
45	45.0	0.0	Satisfactory

Tolerance limit of temperature should be less than ±2.0 (°C)

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

(a) The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.

(b) The results relate only to the calibrated equipment as received

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

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(e) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

LEE Chun-ning Senior Chemist



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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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PART D - CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
8.40	8.58	0.18	Satisfactory
5.34	5.16	-0.18	Satisfactory
2.63	2.50	-0.13	Satisfactory
0.16	0.51	0.35	Satisfactory

Tolerance limit of dissolved oxygen should be less than ±0.50 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading (µS/cm)	Displayed Reading (µS/cm)	Tolerance (%)	Results
0.001	146.9	152.0	3.47	Satisfactory
0.01	1412	1326	-6.09	Satisfactory
0.1	12890	12793	-0.75	Satisfactory
0.5	58670	59086	0.71	Satisfactory
1.0	111900	112741	0.75	Satisfactory

Tolerance limit of conductivity should be less than ±10.0 (%)

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	10.08	0.80	Satisfactory
20	20.17	0.85	Satisfactory
30	30,21	0.70	Satisfactory

Tolerance limit of salinity should be less than ± 10.0 (%)

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.05		Satisfactory
10	9.88	-1.2	Satisfactory
20	20.09	0.4	Satisfactory
100	98.8	-1.2	Satisfactory
800	812.3	1.5	Satisfactory

Tolerance limit of turbidity should be less than ± 10.0 (%)

~ END OF REPORT ~

[&]quot;Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures. The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.



專業化驗有限公司 QUALITY PRO TEST-CONSULT LIMITED

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BA120148

Date of Issue

: 30 December 2021

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PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.
Flat 2207, Yu Fun House Yu Chui Court, Shatin
New Territories (HK) Hong Kong

Attn:

PART B - SAMPLE INFORMATION

Name of Equipment:

YSI ProDSS (Multi-Parameters)

Manufacturer:

YSI (a xylem brand)

Serial Number:

21G105356

Date of Received:

24 December 202124 December 2021

Date of Calibration :
Date of Next Calibration :

23 March 2022

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter

Reference Method

Turbidity

APHA 21e 2130B

Conductivity

APHA 21e 2510B

Dissolved oxygen

APHA 21e 4500 O APHA 21e 4500 H+

pH value Salinity

APHA 21e 2520B

Temperature

Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March

2008: Working Thermometer Calibration Procedure

PART D - CALIBRATION RESULT

(1) Turbidity

EXPECTED READING (NTU)	DISPLAY READING (NTU)	TOLERANCE (%)	RESULT
0	0.10		Satisfactory
10	9.81	-1.9	Satisfactory
20	19.82	-0.9	Satisfactory
100	100.22	0.2	Satisfactory
800	810.23	1.3	Satisfactory

Tolerance of Turbidity should be less than ± 10.0 (%)

(2) Conductivity

EXPECTED READING (MS/CM AT 25°C)	DISPLAY READING (MS/CM AT	TOLERANCE (%	RESULT
	25°C))	
146.9	150.3	2.31	Satisfactory
1412	1369	-3.05	Satisfactory
12890	12488	-3.12	Satisfactory
58670	57746	-1.57	Satisfactory
111900	111426	-0.42	Satisfactory

Tolerance of Conductivity should be less than ± 10.0 (%)

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AUTHORIZED SIGNATORY:

LEE Chun-ning
Assistant Manager (Chemical Testing)



專業化驗有限公司 QUALITY PRO TEST-CONSULT LIMITED

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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(3) Dissolved oxygen

EXPECTED READING (MG/L)	DISPLAY READING (MG/L)	TOLERANCE (MG/L)	RESULT
7.65	7.80	0.15	Satisfactory
6.09	6.20	0.11	Satisfactory
3.20	3.33	0.13	Satisfactory
0.78	0.56	-0.22	Satisfactory

Tolerance of Dissolved oxygen should be less than \pm 0.5 (mg/L)

(4) pH value

TARGET (PH UNIT)	DISPLAY READING (PH UNIT)	TOLERANCE	RESULT
4.00	4.03	0.03	Satisfactory
7.42	7.45	0.03	Satisfactory
10.01	10.11	0.10	Satisfactory

Tolerance of pH value should be less than ± 0.2 (pH unit)

(5) Salinity

EXPECTED READING (G/L)	DISPLAY READING (G/L)	TOLERANCE (%)	RESULT
10	9.93	-0.70	Satisfactory
20	19.88	-0.60	Satisfactory
30	30.19	0.63	Satisfactory

Tolerance of Salinity should be less than ± 0.0 (%)

(6) Temperature

READING OF REF. THERMOMETER (°C)	DISPLAY READING (°C)	TOLERANCE (°C)	RESULT
10	9.9	-0.1	Satisfactory
20	20.0	0.0	Satisfactory
40	40.0	0.0	Satisfactory

Tolerance of Temperature should be less than ± 2.0 (°C)

Remark(s)

- 'The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.
- ·The results relate only to the calibrated equipment as received
- 'The performance of the equipment stated is checked with independent reference material and results compared against a calibrated secondary source.
- "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
- ·The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

--- END OF REPORT ---

Appendix F. Event and Action Plan

Table F.1: Event and Action Plan for Marine Water Quality

		Ac	tion	
Event	ET	IEC	AAHK/PM	Contractor
Action level being exceeded by one sampling day	 Repeat in-situ measurement to confirm findings; Identify reasons for non-compliance and source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; Repeat measurement on next day of exceedance. 	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise AAHK / PM accordingly; Assess the effectiveness of the implemented mitigation measures.	 Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. 	 Inform the AAHK / PM and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures.
Action level being exceeded by two or more consecutive sampling days	1. Repeat in-situ measurement to confirm findings; 2. Identify reasons for non-compliance and source(s) of impact; 3. Inform IEC and Contractor; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC and Contractor; 6. Ensure mitigation measures are implemented; 7. Prepare to increase the monitoring frequency to daily; 8. Repeat measurement on next day of exceedance.	2. Review proposals on mitigation measures submitted by Contractor and advise the AAHK / PM accordingly; 3. Assess the effectiveness of the implemented mitigation measures.	1. Discuss with IEC on the proposed mitigation measures; 2. Make agreement on the mitigation measures to be implemented; 3. Assess the effectiveness of the implemented mitigation measures.	 Inform the AAHK / PM and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and AAHK / PM within 3 working days; Implement the agreed mitigation measures.
Limit level being exceeded by one sampling day	 Repeat in-situ measurement to confirm findings; Identify reasons for non-compliance and source(s) of impact; Inform IEC, Contractor and 	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the AAHK /	Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement	Inform the AAHK / PM and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and

		Ac	tion	
Event	ET	IEC	AAHK/PM	Contractor
	EPD; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC, AAHK / PM and Contractor; 6. Ensure mitigation measures are implemented; 7. Increase the monitoring frequency to daily until no exceedance of limit level.		on the mitigation measures to be implemented; 4. Assess the effectiveness of the implemented mitigation measures.	equipment; 4. Consider changes of working methods; 5. Discuss with ET, IEC and AAHK / PM and propose mitigation measures to IEC and AAHK / PM within three working days; 6. Implement the agreed mitigation measures.
Limit level being exceeded by two or more consecutive sampling days	 Repeat in-situ measurement to confirm findings; Identify reasons for non-compliance and source(s) of impact; Inform IEC, Contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, AAHK / PM and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. 	1. Discuss with ET and Contractor on the mitigation measures; 2. Review proposals on mitigation measures submitted by Contractor and advise the AAHK / PM accordingly; 3. Assess the effectiveness of implemented mitigation measures.	 Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures; Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until no exceedance of Limit level. 	unacceptable practices; 3. Check all plant and equipment; 4. Consider changes of working method; 5. Discuss with ET, IEC and AAHK /

Appendix G. Monitoring Data and Graphical Plots

Water Quality Monitoring Results on 05 February 22 during Mid-Ebb Tide

Monitoring	Weather	Sea Condition	Sampling		Sampling Dep	oth (m)		emperature (°C)	t	рΗ	Salin	nity (ppt)	DO Satur	ation (%)	Dissolved (mg/l		Turbidity((NTU)	Suspende (mg	
Station	Condition		Time	(m)		()	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA
					Surface	1.0	17.3	17.3	8.1	8.1	32.7	32.7	100.3	100.1	7.9		6.0		10.0	
					Surface	1.0	17.3	17.3	8.1	0.1	32.7	32.1	99.8	100.1	7.9	7.9	6.4		9.8]
C1	Cloudy	Moderate	14:41	10.6	Middle	5.3	17.3	17.3	8.1	8.1	32.8	32.8	100.4	100.1	7.9	7.5	7.0	6.7	10.4	10.4
01	Cloudy	Moderate		10.0	Wildia	5.3	17.3	17.0	8.1	0.1	32.7	02.0	99.7	100.1	7.9		6.9	0.7	10.2	
					Bottom	9.6	17.3	17.3	8.1	8.1	32.7	32.7	100.8	100.4	8.0	8.0	6.9		11.1	
						9.6	17.3		8.1		32.7		100.0		7.9		6.8		10.7	
					Surface	1.0	17.3	17.3	8.1	8.1	32.7	32.7	101.0	100.8	8.0		5.6		10.6	
						1.0	17.2		8.1		32.7		100.5		7.9	8.0	5.7		10.5	
C2	Cloudy	Moderate	15:03	10.2	Middle	5.1	17.2	17.2	8.1	8.1	32.7	32.7	101.0	100.7	8.0		5.8	5.6	10.8	11.0
						5.1	17.2		8.1		32.7		100.3		7.9		5.9		11.0	4
					Bottom	9.2 9.2	17.1 17.3	17.2	8.1 8.1	8.1	32.7 32.7	32.7	101.5 100.8	101.2	8.0 8.0	8.0	5.3 5.5		11.4 11.7	ł
				1		1.0	17.3						100.8		8.0		4.6		11.7	
					Surface	1.0	17.2	17.2	8.1 8.1	8.1	32.6 32.7	32.7	101.1	101.0	8.0		4.6		11.2	ł
						-	- 17.2		0.1		32.1				6.0	8.0	-		-	1
M1	Cloudy	Moderate	14:51	5.8	Middle			-		-		-	-	-			-	4.8	-	10.8
						4.8	17.2		8.1		32.7		101.3		8.0		4.5		10.2	1
					Bottom	4.8	17.2	17.2	8.1	8.1	32.7	32.7	100.9	101.1	8.0	8.0	5.5		10.5	
						1.0	17.3	4= 0	8.1		32.7		100.0		7.9		3.8		10.0	
					Surface	1.0	17.3	17.3	8.1	8.1	32.7	32.7	99.4	99.7	7.8	7.0	3.9		9.7	
M2	Oleverto	Madanta	44.55	5.6	NA:-I-II-	-	-		-		-		-		-	7.9	-	3.9	-	10.4
IVI∠	Cloudy	Moderate	14:55	5.6	Middle	-	-	-	-	-	-	-	-	-	-		-	3.9	-	10.4
					Bottom	4.6	17.2	17.3	8.1	8.1	32.6	32.7	100.5	100.1	8.0	8.0	4.0		10.8	
					BOILOITI	4.6	17.3	17.3	8.1	0.1	32.7	32.7	99.7	100.1	7.9	0.0	3.9		11.2	
					Surface	1.0	17.3	17.3	8.1	8.1	32.7	32.7	100.4	100.0	7.9		3.6		11	
					Juliace	1.0	17.2	17.5	8.1	0.1	32.7	32.1	99.5	100.0	7.9	7.9	3.9		11	
M3	Cloudy	Moderate	14:46	6.7	Middle	3.4	17.2	17.2	8.1	8.1	32.6	32.7	100.3	99.9	7.9	/.5	3.9	3.9	10	10
1410	Cioday	Moderate	1 1.13	0.7	Wildio	3.4	17.2	17.2	8.1	0.1	32.7	02.7	99.5	00.0	7.9		4.0	0.0	10	
					Bottom	5.7	17.2	17.2	8.1	8.1	32.7	32.7	101.0	100.5	8.0	8.0	4.0		9	1
M. Donth succ					20	5.7	17.2	••••	8.1		32.7	J	99.9		7.9	0.0	3.9		9	

DA: Depth-averaged

Water Quality Monitoring Results on 05 February 22 during Mid-Flood Tide

Monitoring	Weather	Sea Condition	Sampling	Water Depth	Sampling Dept	th (m)		emperature (°C)		рН	Salin	ity (ppt)	DO Satur	ation (%)	Dissolved (mg/l		Turbidity((NTU)	Suspende (mg/	
Station	Condition		Time	(m)			Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA
					Surface	1.0	17.1	17.1	8.1	8.1	32.8	32.8	100.2	100.1	8.0		6.3		10.7	
					Sulface	1.0	17.1	17.1	8.1	0.1	32.7	32.0	100.0	100.1	8.0	8.0	6.4		10.6	
C1	Cloudy	Moderate	10:07	10.4	Middle	5.2	17.1	17.1	8.1	8.1	32.8	32.8	100.3	100.1	8.0	0.0	6.6	7.1	10.4	10.1
01	Oloudy	Woderate	10.07	10.4	ivildale	5.2	17.1	17.1	8.1	0.1	32.8	52.0	99.9	100.1	8.0		8.1		10.1	10.1
					Bottom	9.4	17.1	17.1	8.1	8.1	32.7	32.7	100.4	100.2	8.0	8.0	7.9		9.3	
					DOMOIT	9.4	17.1	17.1	8.1	0.1	32.7	32.1	99.9	100.2	7.9	0.0	7.1		9.6	
					Surface	1.0	17.1	17.1	8.1	8.1	32.7	32.7	100.5	100.4	8.0		6.1		10.4	
					Odilacc	1.0	17.1	17.1	8.1	0.1	32.7	02.1	100.3	100.4	7.9	8.0	6.4		10.7	
C2	Cloudy	Moderate	09:46	10.5	Middle	5.3	17.1	17.1	8.1	8.1	32.7	32.7	100.3	100.2	8.0	0.0	7.3	7.0	9.7	8.7
02	Oloudy	Moderate	00.10	10.0	Wildalo	5.3	17.1		8.1	0.1	32.7	02.1	100.1	100.2	7.9		7.2	7.0	9.5	0.7
					Bottom	9.5	17.1	17.1	8.1	8.1	32.7	32.7	100.4	100.3	8.0	8.0	7.4		5.8	i
					20110111	9.5	17.1		8.1	0	32.7	02	100.1	.00.0	7.9	0.0	7.6		6.1	
					Surface	1.0	17.1	17.1	8.1	8.1	32.7	32.7	99.9	99.3	8.0		6.0		9.4	
						1.0	17.1		8.1		32.7		98.7		7.9	8.0	4.9		9.2	i
M1	Cloudy	Moderate	09:57	5.7	Middle	-	-	_	-	-	-	-	-	-	-		-	5.5	-	9.9
	,					-	-		-		-		-		-		-		-	
					Bottom	4.7	17.1	17.1	8.1	8.1	32.6	32.7	102.0	100.7	8.2	8.1	5.0		10.7	i
						4.7	17.1		8.1		32.7		99.3		7.9		6.1		10.4	
					Surface	1.0	17.2	17.2	8.1	8.1	32.7	32.7	99.9	99.3	7.9		11.3		10.7	
						1.0	17.2		8.1		32.7		98.7		7.8	7.9	11.2		10.3	
M2	Cloudy	Moderate	09:54	5.5	Middle	-	-	-	-	-	-	-	-	-	-		-	9.9	-	11.8
						-	-		-		-				-		-		-	
					Bottom	4.5	17.1	17.2	8.1	8.1	32.7	32.7	102.4	100.8	8.0	7.9	8.7		13.1	
						4.5	17.2		8.1		32.7		99.2		7.8		8.5		12.9	
					Surface	1.0	17.1	17.1	8.1	8.1	32.7	32.7	100.4	100.1	8.0		5.2		12	
						1.0	17.1		8.1		32.7		99.7		7.9	8.0	4.3		11	i
M3	Cloudy	Moderate	10:02	6.8	Middle	3.4	17.1	17.1	8.1	8.1	32.7	32.7	100.5	100.2	8.0		5.1	5.2	11	11
						3.4	17.1		8.1		32.7		99.8		8.0		5.0		11	
					Bottom	5.8	17.1	17.1	8.1	8.1	32.7	32.7	101.1	100.5	8.0	8.0	5.8		10	
DA: Danth avar						5.8	17.1		8.1		32.7		99.8		8.0		5.6		10	

DA: Depth-averaged

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

Water Quality Monitoring Results on 08 February 22 during Mid-Ebb Tide

Monitoring	Weather	Sea Condition	Sampling		Sampling Dep	th (m)		emperature (°C)	р	Ή	Salin	ity (ppt)	DO Satur	ation (%)	Dissolved (mg/L		Turbidity(NTU)	Suspende (mg/	
Station	Condition		Time	(m)			Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA
					Surface	1.0	17.2	17.2	8.1	8.1	32.5	32.5	101.8	101.8	8.1		3.5		2.5	
					Sunace	1.0	17.2	17.2	8.1	0.1	32.5	32.3	101.8	101.0	8.1	8.1	3.1		2.2	i
C1	Cloudy	Moderate	05:58	9.8	Middle	4.9	17.2	17.2	8.1	8.1	32.5	32.5	101.7	101.7	8.0	0.1	3.4	3.4	3.2	3.1
01	Cloudy	Wiodorato	00.00	0.0	Middle	4.9	17.2		8.1	0.1	32.5	02.0	101.6	101.7	8.0		3.3	0.1	2.8	J
					Bottom	8.8	17.2	17.2	8.1	8.1	32.5	32.5	102.3	102.1	8.1	8.1	3.6		4.1	ł
						8.8	17.2		8.1		32.5		101.8		8.1		3.7		3.7	
					Surface	1.0	17.2	17.2	8.1	8.1	32.5	32.5	102.1	102.0	8.1		3.1		2.4	ł
						1.0	17.2		8.1		32.5		101.8		8.1	8.1	3.1		2.7	ł
C2	Cloudy	Moderate	05:38	10.0	Middle	5.0	17.2	17.2	8.1	8.1	32.5	32.5	102.1	102.0	8.1	ł	3.5	3.2	2.9	3.2
						5.0	17.2		8.1		32.5		101.8		8.1		3.1		3.2	ł
					Bottom	9.0	17.2 17.2	17.2	8.1 8.1	8.1	32.5 32.5	32.5	102.4 102.0	102.2	8.1 8.1	8.1	3.0		4.2 3.8	ł
						1.0	17.2		8.1		32.8		102.0		7.9		4.2		3.4	
					Surface	1.0	17.3	17.3	8.1	8.1	32.8	32.8	99.6	99.9	7.9		4.0		3.1	ł
						-	-		0.1		52.0		-		7.5	7.9	-		-	ł
M1	Cloudy	Moderate	05:49	5.8	Middle	_	_	-	_	-	_	-	_	-			_	4.2	_	3.5
					_	4.8	17.2		8.1		32.8		102.7		8.1		4.5		3.8	ł
					Bottom	4.8	17.3	17.3	8.1	8.1	32.8	32.8	99.8	101.3	7.9	8.0	4.1		3.5	ł
					0	1.0	17.3	17.3	8.1	0.4	32.8	20.0	98.2	00.4	7.7		4.0		2.1	
					Surface	1.0	17.3	17.3	8.1	8.1	32.8	32.8	98.5	98.4	7.8	7.8	4.0		2.4	ł
M2	Cloudy	Moderate	05:46	5.5	Middle	-	-		-		-		-	_	-	7.8	-	4.1	-	2.9
IVIZ	Cloudy	Woderate	03.40	3.3	Middle	-	-		-	-	-	-	-	_	-		-	4.1	-	2.9
					Bottom	4.5	17.3	17.3	8.1	8.1	32.8	32.8	98.3	98.4	7.8	7.8	4.0		3.7	i
					Dottom	4.5	17.3	17.5	8.1	0.1	32.8	02.0	98.5	30.4	7.8	7.0	4.3		3.4	
					Surface	1.0	17.2	17.3	8.1	8.1	32.7	32.7	101.1	101.1	8.0		4.6		4	ł
					Gundoo	1.0	17.3		8.1	0	32.7	02	101.0		8.0	8.0	4.1		3	ł
M3	Cloudy	Moderate	05:53	6.4	Middle	3.2	17.3	17.3	8.1	8.1	32.8	32.8	100.9	101.1	8.0		4.7	4.3	3	3
	'					3.2	17.2		8.1		32.7		101.2		8.0		4.2		3	ł
					Bottom	5.4	17.3	17.3	8.1	8.1	32.8	32.8	102.2	101.8	8.1	8.1	4.2		3	ł
						5.4	17.2		8.1		32.7		101.3		8.0		4.1		3	

DA: Depth-averaged

Water Quality Monitoring Results on 08 February 22 during Mid-Flood Tide

Monitoring	Weather	Sea Condition	Sampling		Sampling Dept	th (m)	Water Te	emperature (°C)	р	Н	Salin	ity (ppt)	DO Satur	ation (%)	Dissolved (mg/L		Turbidity((NTU)	Suspende (mg/	
Station	Condition		Time	(m)	3 4 3	,	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA
					Surface	1.0	17.4	17.4	8.1	8.1	32.9	32.9	101.4	101.4	8.0		4.9		2.1	
					Sulface	1.0	17.4	17.4	8.1	0.1	32.9	32.9	101.4	101.4	8.0	8.0	4.6		2.3	l
C1	Cloudy	Moderate	12:06	11.0	Middle	5.5	17.4	17.4	8.1	8.1	32.9	32.9	101.2	101.1	8.0	0.0	6.8	5.4	2.2	2.4
0.	Cioudy	Wiodorato	12.00	11.0	Wildaic	5.5	17.4	17.4	8.1	0.1	32.9	02.0	101.0	101.1	8.0		5.5	0.1	2.4	1
					Bottom	10.0	17.3	17.4	8.1	8.1	32.9	32.9	101.4	101.3	8.0	8.0	5.3		2.9	i
					Bottom	10.0	17.4	17.4	8.1	0.1	32.9	02.0	101.1	101.0	8.0	0.0	5.1		2.6	
					Surface	1.0	17.3	17.3	8.1	8.1	32.8	32.8	101.5	101.5	8.0		4.0		2.5	1
						1.0	17.3		8.1		32.8		101.4		8.0	8.0	4.4		2.9	ł
C2	Cloudy	Moderate	12:26	10.7	Middle	5.4	17.3	17.3	8.1	8.1	32.9	32.9	101.0	101.2	8.0		5.8	5.0	2.6	2.3
						5.4	17.3		8.1		32.8		101.3		8.0		5.6		2.2	ł
					Bottom	9.7	17.3	17.3	8.1 8.1	8.1	32.9 32.9	32.9	100.6	101.1	7.9 8.0	8.0	5.3		1.7 1.9	l
				<u> </u>		9.7	17.3						101.6				5.0			
					Surface	1.0	17.4 17.4	17.4	8.1 8.1	8.1	32.9 32.9	32.9	100.2 100.1	100.2	7.9 7.9		8.5 7.6		1.6 1.8	ł
						1.0	- 17.4		0.1		32.9		-		7.9	7.9	7.0		-	1
M1	Cloudy	Moderate	12:17	5.6	Middle	-	_	-		-		-	_	-			-	7.8	-	2.5
						4.6	17.4		8.1		32.9		100.9		7.9		7.8		3.1	i l
					Bottom	4.6	17.4	17.4	8.1	8.1	32.9	32.9	100.0	100.5	7.9	7.9	7.2		3.4	l
					Ourt	1.0	17.4	47.4	8.1	0.4	32.9	20.0	99.4	00.0	7.8		4.8		2.7	
					Surface	1.0	17.4	17.4	8.1	8.1	32.9	32.9	99.2	99.3	7.8	7.0	4.3		2.4	1
140	01	Madasta	40.00	5.0	N 4: -1 -11 -	-	-		-		-		-		-	7.8	-	4.0	-	0.0
M2	Cloudy	Moderate	12:20	5.3	Middle	-	-	-	-	-	-	-	-	-	-		-	4.6	-	2.9
					Dottom	4.3	17.4	17.4	8.1	8.1	32.9	32.9	99.5	99.4	7.8	7.8	4.5		3.5	ł
					Bottom	4.3	17.4	17.4	8.1	0.1	32.9	32.9	99.3	99.4	7.8	7.0	4.8		3.0	1
					Surface	1.0	17.3	17.3	8.1	8.1	32.7	32.7	99.6	99.5	7.9		3.6		2	
					Surface	1.0	17.3	17.3	8.1	0.1	32.7	32.7	99.4	99.5	7.8	7.8	3.3		2	l
M3	Cloudy	Moderate	12:12	7.4	Middle	3.7	17.4	17.4	8.1	8.1	32.9	32.9	99.4	99.3	7.8	7.0	3.9	4.4	3	3
IVIO	Oloddy	Moderate	12.12	1.4	WIIGGIC	3.7	17.4	11.7	8.1	0.1	32.8	02.0	99.1	55.5	7.8		3.9	7.7	3	, ,
					Bottom	6.4	17.4	17.4	8.1	8.1	32.8	32.8	99.7	99.9	7.9	7.9	6.2		3	
DA: Donth sugar					20110	6.4	17.4		8.1	<u> </u>	32.8	02.0	100.0	00.0	7.9		5.6		3	

DA: Depth-averaged

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

Water Quality Monitoring Results on 10 February 22 during Mid-Ebb Tide

vater Qua	,	ering reco			10 1 Columny ZZ	during wild														
Monitoring	Weather	Sea Condition	Sampling		Sampling Dep	oth (m)	Water Te	emperature (°C)	ŗ	ЭΗ	Salin	ity (ppt)	DO Satur	ation (%)	Dissolved (mg/l		Turbidity((NTU)	Suspende (mg.	
Station	Condition	Coa Containon	Time	(m)	Jamping 2 of	,	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA
					Surface	1.0	17.2	17.3	8.1	8.1	33.1	33.1	101.3	101.0	8.0		1.4		3.5	
					Surface	1.0	17.3	17.3	8.1	0.1	33.1	33.1	100.7	101.0	7.9	8.0	1.4		3.6	
C1	Misty	Calm	20:02	11.0	Middle	5.5	17.2	17.2	8.1	8.1	33.1	33.1	101.5	101.1	8.0	0.0	2.2	2.3	3.9	4.2
O1	iviisty	Callii	20.02	11.0	Wildale	5.5	17.2	17.2	8.1	0.1	33.1	55.1	100.7	101.1	7.9		2.2	2.5	4.0	4.2
					Bottom	10.0	17.3	17.3	8.1	8.1	33.0	33.1	101.9	101.5	8.0	8.0	3.3		5.1]
					Bottom	10.0	17.3	17.0	8.1	0.1	33.1	50.1	101.0	101.0	8.0	0.0	3.3		5.1	
					Surface	1.0	17.4	17.4	8.1	8.1	33.2	33.2	99.0	98.5	7.8		1.1		3.1	
						1.0	17.4		8.1	0. .	33.2	00.2	98.0	00.0	7.7	7.8	1.1		3.3	
C2	Mistv	Calm	20:19	10.0	Middle	5.0	17.4	17.4	8.1	8.1	33.2	33.2	99.5	98.8	7.8		2.1	2.2	3.7	3.7
	,					5.0	17.4		8.1		33.2		98.1		7.7		2.0		3.8	
					Bottom	9.0	17.4	17.4	8.1	8.1	33.2	33.2	100.3	99.4	7.9	7.8	3.4		4.1	
						9.0	17.4		8.1		33.2		98.5		7.7		3.3		4.0	
					Surface	1.0	17.1	17.1	8.1	8.1	33.1	33.1	104.3	103.2	8.2		1.2		5.3	
						1.0	17.1		8.1		33.1		102.0		8.1	8.2	1.2		5.6	4
M1	Misty	Calm	20:10	5.8	Middle	-	-	-	-	-	-	-	-	-	-	ł	-	1.7	-	4.5
						4.8	17.2		- 0.4		- 22.0		105.8		- 0.4		2.2		3.3	ł
					Bottom	4.8	17.2	17.2	8.1 8.1	8.1	32.9 33.1	33.0	103.8	104.5	8.4 8.2	8.3	2.2		3.7	1
						1.0	17.1		8.1		33.1		101.2		8.0		2.5		4.5	
					Surface	1.0	17.2	17.2	8.1	8.1	33.1	33.1	100.8	101.0	8.0		2.5		4.1	1
						-	-		-		-		-		-	8.0	-		-	
M2	Misty	Calm	20:14	5.0	Middle	-	-	-	-	-	-	-	-	-	-		-	3.1	-	5.4
						4.0	17.3		8.1		33.0		101.4		8.0		3.7		6.4	
					Bottom	4.0	17.2	17.3	8.1	8.1	33.1	33.1	101.0	101.2	8.0	8.0	3.7		6.4	
					0	1.0	17.2	47.0	8.1	0.4	33.1	33.1	101.0	100.6	8.0		1.5		6	
					Surface	1.0	17.2	17.2	8.1	8.1	33.1	33.1	100.2	100.6	7.9	8.0	1.4		6	
M3	Misty	Calm	20:07	7.0	Middle	3.5	17.2	17.2	8.1	8.1	33.0	33.1	101.0	100.6	8.0	0.0	2.8	2.7	4	4
IVIO	iviisty	Callii	20.07	7.0	ivildule	3.5	17.2	11.2	8.1	0.1	33.1	33.1	100.2	100.6	7.9		2.7	2.1	4	4
					Bottom	6.0	17.3	17.3	8.1	8.1	32.9	33.0	101.3	101.0	8.0	8.0	3.9		3	
					DOLLOITI	6.0	17.2	17.3	8.1	0.1	33.1	55.0	100.6	101.0	7.9	0.0	3.7		3	

DA: Depth-averaged

Water Quality Monitoring Results on 10 February 22 during Mid-Flood Tide

Monitoring	Weather	Sea Condition	Sampling	Water Depth	Sampling Dep	oth (m)	Water Te	emperature (°C)	pł	Н	Salin	ity (ppt)	DO Satur	ation (%)	Dissolved ((mg/L		Turbidity	(NTU)	Suspende (mg	
Station	Condition		Time	(m)	3 4 7		Value	Average	Value A	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA
					Surface	1.0	17.3	17.3	8.1	8.1	33.1	33.1	100.9	100.4	7.9		1.2		4.9	
					Surface	1.0	17.3	17.3	8.1	0.1	33.1	33.1	99.8	100.4	7.9	7.9	1.1		5.1	
C1	Misty	Calm	09:12	9.0	Middle	4.5	17.2	17.3	8.1	8.1	33.2	33.2	101.4	100.7	8.0	1.5	2.2	2.2	3.5	3.7
01	iviioty	Cairi	05.12	3.0	ivildale	4.5	17.3	17.5	8.1	0.1	33.1	55.2	100.0	100.7	7.9		2.2	2.2	3.4	0.7
					Bottom	8.0	17.0	17.2	8.1	8.1	33.4	33.3	102.7	101.6	8.1	8.0	3.3		2.8	
					Bottom	8.0	17.3	17.2	8.1	0.1	33.1	00.0	100.4	101.0	7.9	0.0	3.4		2.7	
					Surface	1.0	17.3	17.3	8.1	8.1	33.1	33.1	100.1	99.9	7.9		1.1		3.2	
						1.0	17.3		8.1	0	33.1	0011	99.7	00.0	7.9	7.9	1.2		3.7	
C2	Mistv	Calm	08:53	10.0	Middle	5.0	17.3	17.3	8.1	8.1	33.1	33.1	100.0	99.9	7.9		2.4	2.3	4.2	4.8
_						5.0	17.3		8.1		33.1		99.7		7.9		2.3		4.4	_
					Bottom	9.0	17.3	17.3	8.1	8.1	33.1	33.1	101.2	100.7	8.0	8.0	3.4		6.6	-
						9.0	17.3		8.1		33.1		100.1		7.9		3.4		6.5	
					Surface	1.0	17.1	17.1	8.1 8.1	8.1	33.1 33.1	33.1	99.4	99.2	7.9 7.8		2.2		3.5	4
						1.0	17.1						99.0		7.8	7.9	2.1		3.2	-
M1	Misty	Calm	09:04	5.4	Middle	-	-	-	-	-	-	-	-	-	-	ł	-	3.0	-	3.8
						4.4	17.0		8.1		33.1		100.7		8.0		3.8		4.3	-
					Bottom	4.4	17.0	17.1	8.1	8.1	33.1	33.1	99.2	100.0	7.8	7.9	3.8		4.1	1
				1		1.0	17.1		8.1		33.1		98.8		7.8		3.1		5.4	
					Surface	1.0	17.1	17.1	8.1	8.1	33.0	33.1	98.6	98.7	7.8		3.0		5.7	•
• • •						-	-		-		-		-		-	7.8	-		-	
M2	Misty	Calm	09:01	5.0	Middle	-	-	-	-	-	-	-	-	-	-		-	3.2	-	4.8
					D	4.0	17.1	47.4	8.1	0.4	33.1	00.4	99.0	00.0	7.8	7.0	3.2		4.3	1
					Bottom	4.0	17.1	17.1	8.1	8.1	33.0	33.1	98.7	98.9	7.8	7.8	3.3		3.9	
					Surface	1.0	17.1	17.1	8.1	8.1	33.1	33.1	98.4	98.8	7.8		4.2		4	
					Surface	1.0	17.1	17.1	8.1	0.1	33.1	33.1	99.2	90.0	7.8	7.8	4.1		4	
M3	Misty	Calm	09:08	7.4	Middle	3.7	17.1	17.1	8.1	8.1	33.1	33.1	97.9	98.5	7.7	1.0	5.1	5.1	4	4
IVIS	iviioty	Callii	09.00	7.4	iviluule	3.7	17.1	17.1	8.1	0.1	33.1	JJ. I	99.1	30.5	7.8		5.1	5.1	4	_ ~
					Bottom	6.4	17.1	17.1	8.1	8.1	33.1	33.1	98.1	98.5	7.8	7.8	6.1		3	
DA: Denth-aver					Dottom	6.4	17.1	17.1	8.1	0.1	33.1	55.1	98.9	30.0	7.8	7.0	6.0		3	

DA: Depth-averaged

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

Water Quality Monitoring Results on 12 February 22 during Mid-Ebb Tide

Monitoring	Weather	Sea Condition		Water Depth	Sampling Dep	th (m)		emperature (°C)		рН	Salin	ity (ppt)	DO Satur	ation (%)	Dissolved (mg/l		Turbidity(NTU)	Suspende (mg/	
Station	Condition		Time	(m)		, ,	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA
					Surface	1.0	17.3	17.5	8.2	8.2	28.0	27.8	101.0	101.7	8.2		3.9		1.5	
					Sullace	1.0	17.7	17.5	8.2	0.2	27.5	21.0	102.4	101.7	8.3	7.9	3.6		1.2	
C1	Cloudy	Moderate	22:10	10.2	Middle	5.1	17.1	17.1	8.2	8.2	32.1	32.1	95.6	95.9	7.6	7.5	4.1	4.0	<1.0	1.1
C1	Cioudy	Moderate	22.10	10.2	Wildale	5.1	17.1	17.1	8.2	0.2	32.1	JZ. 1	96.2	33.3	7.6		4.1	4.0	<1.0	'.'
					Bottom	9.2	17.1	17.1	8.2	8.2	32.1	32.1	96.0	96.6	7.6	7.7	4.0		<1.0	
					Bottom	9.2	17.1		8.2	0.2	32.1	02.1	97.2	00.0	7.7	1	4.1		<1.0	
					Surface	1.0	17.4	17.4	8.2	8.2	28.8	28.4	101.3	101.8	8.2		3.8		<1.0	
						1.0	17.4		8.2	0.2	28.0	20	102.2		8.3	8.0	3.9		<1.0	
C2	Cloudy	Moderate	22:30	10.4	Middle	5.2	17.1	17.1	8.2	8.2	32.1	32.1	95.5	95.9	7.6	1	4.3	4.1	1.2	1.2
	,					5.2	17.1		8.2		32.1		96.2		7.7		4.4		1.0	
					Bottom	9.4	17.1	17.2	8.2	8.2	32.1	32.0	96.0	96.6	7.6	7.7	4.4		1.5	
						9.4	17.3		8.2		31.9		97.1		7.7		4.0		1.4	
					Surface	1.0	17.2	17.2	8.2	8.2	31.6	31.6	97.6	97.8	7.8		4.1		<1.0	
						1.0	17.2		8.2		31.6		97.9		7.8	7.8	4.2		<1.0	
M1	Cloudy	Moderate	22:19	5.6	Middle	-	-	-	-	-	-	-	-	-	-		-	4.2	-	<1.0
	•					-	-		-		-				-		-		-	
					Bottom	4.6	17.2	17.2	8.2	8.2	31.8	31.7	97.3	97.6	7.7	7.8	4.2		<1.0	
<u> </u>						4.6	17.2		8.2		31.5		97.9		7.8		4.1		<1.0	
					Surface	1.0	17.2 17.2	17.2	8.2 8.2	8.2	31.9 31.7	31.8	96.6 97.0	96.8	7.7	-	6.0		1.3	
									0.2						1.1	7.7	5.8		1.0	
M2	Cloudy	Moderate	22:22	5.6	Middle	-	-	-	-	-	-	-	-	-	-	-	-	5.7	-	1.1
						4.6	17.2		8.2		32.1		96.4		7.6	-	5.5		<1.0	
					Bottom	4.6	17.2	17.2	8.2	8.2	31.5	31.8	97.3	96.9	7.7	7.7	5.3		<1.0	
-						1.0	17.6		8.2		30.0		99.8		8.0		3.6		<1.0	
					Surface	1.0	17.3	17.5	8.2	8.2	31.2	30.6	98.5	99.2	7.8	1	4.0		<1.0	I
						3.5	17.3		8.2		31.4		96.7		7.7	7.8	4.1		<1.0	I
M3	Cloudy	Moderate	22:15	7.0	Middle	3.5	17.3	17.3	8.2	8.2	31.5	31.5	98.4	97.6	7.8	1	4.0	4.1	<1.0	1
					_	6.0	17.1		8.2		32.2		95.8		7.6		4.6		1	I
					Bottom	6.0	17.3	17.2	8.2	8.2	31.4	31.8	98.7	97.3	7.7	7.7	4.3		1	I

DA: Depth-averaged

Water Quality Monitoring Results on 12 February 22 during Mid-Flood Tide

Monitoring	Weather	Sea Condition	Sampling	Water Depth	Sampling Dept	th (m)		emperature (°C)		рН	Salin	ity (ppt)	DO Satur	ation (%)	Dissolved (mg/L		Turbidity((NTU)	Suspende (mg/	
Station	Condition		Time	(m)		. ,	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA
					Surface	1.0	17.2	17.2	8.2	8.2	31.8	31.7	96.9	97.3	7.7		4.2		<1.0	
					Sullace	1.0	17.2	17.2	8.2	0.2	31.5	31.7	97.7	91.3	7.8	7.7	4.5		<1.0	I
C1	Cloudy	Moderate	11:03	10.7	Middle	5.4	17.1	17.1	8.2	8.2	32.2	32.2	95.7	95.7	7.6	7.7	4.1	4.2	<1.0	<1.0
01	Cloudy	Woderate	11.00	10.7	Wildale	5.4	17.1	17.1	8.2	0.2	32.2	52.2	95.7	90.1	7.6		4.1	7.2	<1.0	1.0
					Bottom	9.7	17.1	17.1	8.2	8.2	32.1	32.1	96.3	96.6	7.7	7.7	4.1		<1.0	I
					Dottom	9.7	17.1	17.1	8.2	0.2	32.1	52.1	96.8	30.0	7.7	7.7	4.1		<1.0	I
					Surface	1.0	17.2	17.2	8.2	8.2	31.7	31.3	97.3	97.5	7.7		3.8		1.3	1
					Canaco	1.0	17.2	.,	8.2	0.2	30.9	01.0	97.7	07.0	7.8	7.7	3.7		1.5	I
C2	Cloudy	Moderate	10:37	10.3	Middle	5.2	17.0	17.0	8.1	8.2	32.2	32.2	95.2	95.4	7.6		3.6	3.8	1.3	1.3
	o.ouu,	ouo.u.o				5.2	17.0		8.2	0.2	32.2	02.2	95.6	00	7.6		4.0	0.0	1.3	1
					Bottom	9.3	17.0	17.1	8.1	8.2	32.2	32.1	95.5	96.2	7.6	7.7	3.6		1.1	I
						9.3	17.1		8.2		32.0		96.9		7.7		4.0		1.1	
					Surface	1.0	17.2	17.2	8.2	8.2	30.9	31.3	96.1	96.1	7.7		4.3		1.0	I
						1.0	17.1		8.2		31.7		96.0		7.6	7.7	4.5		1.3	I
M1	Cloudy	Moderate	10:52	5.8	Middle	-	-	-	-	-	-	-	-	-	-		-	4.4	-	1.1
						-			-		-		-		-		-		-	I
					Bottom	4.8	17.1	17.1	8.2	8.2	32.1	31.8	98.1	97.7	7.8	7.8	4.4		<1.0	I
						4.8	17.1		8.2		31.4		97.2		7.8		4.3		<1.0	
					Surface	1.0	17.1	17.2	8.2	8.2	31.7	31.1	95.9 97.1	96.5	7.6		4.4		1.4	I
						1.0	17.2				30.5				7.8	7.7	4.5		1.0	I
M2	Cloudy	Moderate	10:49	5.6	Middle	-	-	-	-	-	-	-	-	-	-		-	4.8	-	1.2
	-					-			-		-		-				-		-	I
					Bottom	4.6	17.1	17.1	8.2	8.2	32.0	31.7	96.3	96.3	7.7	7.7	5.2		1.0	I
						4.6	17.1		8.2		31.3		96.3		7.7		5.1		1.5	
					Surface	1.0	17.1	17.1	8.2	8.2	31.2	31.2	96.7	96.8	7.7		4.1		<1.0	ı
						1.0	17.1		8.2		31.2		96.8		7.7	7.7	4.1		<1.0	İ
M3	Cloudy	Moderate	10:57	7.2	Middle	3.6	17.1	17.1	8.2	8.2	32.1	32.0	95.8	96.1	7.6		4.4	4.3	1	1
						3.6	17.1		8.2		31.9		96.4		7.7		4.5		2	I
					Bottom	6.2	17.1	17.1	8.2	8.2	32.2	31.9	96.0	96.6	7.6	7.7	4.5 4.4		2	ı
DA: Danth avar	l					6.2	17.1		8.2		31.6		97.2		7.7		4.4		1	

DA: Depth-averaged

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

Water Quality Monitoring Results on 15 February 22 during Mid-Ebb Tide

Monitoring	Weather	Sea Condition	Sampling		Sampling Dep	th (m)		emperature (°C)	р	Н	Salin	ity (ppt)	DO Satur	ation (%)	Dissolved ((mg/L		Turbidity(NTU)	Suspende (mg/	
Station	Condition		Time	(m)	3.7		Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA
					Surface	1.0	17.3	17.3	8.3	8.3	30.9	30.9	97.7	97.4	7.8		1.1		3.0	
					Juliace	1.0	17.3	17.5	8.3	0.5	30.9	30.3	97.1	31.4	7.7	7.8	1.2		2.9	
C1	Misty	Calm	11:21	11.0	Middle	5.5	17.3	17.4	8.3	8.3	30.9	30.9	97.9	97.7	7.8	7.0	2.2	2.2	2.8	2.8
	Wildey	Cami		11.0	Wildalo	5.5	17.4		8.3	0.0	30.8	00.0	97.5	01.1	7.8		2.1		2.0	2.0
					Bottom	10.0	17.6	17.5	8.3	8.3	30.7	30.8	98.4	98.1	7.8	7.8	3.1		3.6	
						10.0	17.4		8.3		30.8		97.7		7.8		3.2		2.6	
					Surface	1.0	17.3	17.3	8.3	8.3	31.0	31.0	96.7	96.5	7.7		1.0		2.6	
						1.0	17.3		8.3		31.0		96.3		7.7	7.7	1.0		2.5	
C2	Misty	Calm	11:38	10.0	Middle	5.0	17.3	17.3	8.2	8.2	31.0	31.0	97.2	96.9	7.8	ł	2.2	2.1	3.3	2.6
						5.0 9.0	17.3 17.5		8.2		31.0		96.6 97.8		7.7		2.3 3.1		2.5 2.5	
					Bottom	9.0	17.3	17.4	8.3 8.3	8.3	30.8	30.9	96.7	97.3	7.8 7.7	7.8	3.1		2.0	
						1.0	17.3		8.2		30.5		97.4		7.8		1.3		2.6	
					Surface	1.0	17.4	17.4	8.2	8.2	30.5	30.5	96.1	96.8	7.7		1.3		3.7	
						-	-		-		-		-		-	7.8	-		-	
M1	Misty	Calm	11:29	5.8	Middle	-	-	-	-	-	-	-	-	-	-		-	1.9	-	2.8
					D-#	4.8	17.7	47.0	8.2	0.0	30.3	20.4	98.1	07.5	7.8	7.0	2.5		2.6	
					Bottom	4.8	17.4	17.6	8.2	8.2	30.5	30.4	96.8	97.5	7.7	7.8	2.5		2.3	
					Surface	1.0	17.6	17.5	8.2	8.2	30.4	30.5	97.8	96.8	7.8		1.5		3.5	
					Juliace	1.0	17.4	17.5	8.2	0.2	30.6	30.3	95.8	30.0	7.6	7.7	1.5		2.5	
M2	Misty	Calm	11:32	5.0	Middle	-	-	-	-	_	-	_	-	_	-	'''	-	1.8	-	3.6
			2	0.0	- Inidaio	-	-		-		-		-		-		-		-	0.0
					Bottom	4.0	18.1	17.8	8.3	8.3	30.0	30.3	100.5	98.6	7.9	7.8	2.0		3.7	
						4.0	17.5		8.2		30.5		96.7		7.7		2.0		4.6	
					Surface	1.0	17.4	17.4	8.3	8.3	30.7	30.7	98.2	97.2	7.8	ł	1.1		4	
						1.0	17.4		8.2		30.7		96.2		7.7	7.8	1.0		4	
M3	Misty	Calm	11:26	7.0	Middle	3.5	17.6 17.4	17.5	8.3 8.3	8.3	30.5	30.6	98.5 96.3	97.4	7.8 7.7		1.2	1.5	3	4
						6.0	17.4				30.7		98.9		7.7		2.3		5	
					Bottom	6.0	17.4	17.6	8.3 8.3	8.3	30.7	30.5	96.8	97.9	7.7	7.8	2.3		4	
DA: Depth-aver	<u> </u>		<u> </u>	1		0.0	17.4		0.5		30.7		30.0	<u> </u>	1.1	<u> </u>	۷.4		- 4	

DA: Depth-averaged

Water Quality Monitoring Results on 15 February 22 during Mid-Flood Tide

Monitoring	Weather	Sea Condition	Sampling	Water Depth	Sampling De	oth (m)	Water Te	mperature (°C)	р	Н	Salin	nity (ppt)	DO Satur	ation (%)	Dissolved (mg/l		Turbidity	(NTU)	Suspende (mg	
Station	Condition		Time	(m)			Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA
					Surface	1.0	17.3	17.3	8.2	8.2	30.8	30.8	96.1	96.0	7.7		1.1		2.0	
					Sulface	1.0	17.3	17.3	8.2	0.2	30.8	30.0	95.9	30.0	7.7	7.7	1.0		2.0	
C1	Misty	Calm	07:30	9.0	Middle	4.5	17.3	17.3	8.2	8.2	30.8	30.8	96.3	96.2	7.7	1.1	1.1	1.3	1.9	2.1
01	iviioty	Cairi	07.50	3.0	ivildale	4.5	17.3	17.5	8.2	0.2	30.8	30.0	96.1	30.2	7.7		1.2	1.5	1.8	
					Bottom	8.0	17.3	17.3	8.2	8.2	30.8	30.8	96.5	96.4	7.7	7.7	1.6		2.6	
					Bottom	8.0	17.3	17.0	8.2	0.2	30.8	50.0	96.2	30.4	7.7	1.7	1.6		2.1	
					Surface	1.0	17.3	17.3	8.2	8.2	30.8	30.8	95.7	95.6	7.6		1.1		4.6	
						1.0	17.3		8.2	0.2	30.8	00.0	95.5	00.0	7.6	7.6	1.0		4.6	
C2	Mistv	Calm	07:13	10.0	Middle	5.0	17.3	17.3	8.2	8.2	30.8	30.8	95.9	95.8	7.7		2.2	2.3	3.5	4.2
						5.0	17.3		8.2	_	30.8		95.6		7.6		2.3		4.8	_
					Bottom	9.0	17.3	17.3	8.2	8.2	30.8	30.8	96.1	95.9	7.7	7.7	3.6		4.2	-
						9.0	17.3		8.2		30.8		95.7		7.6		3.6		3.3	
					Surface	1.0	17.3	17.3	8.2	8.2	30.6 30.5	30.6	94.3	94.0	7.5 7.5		1.1		1.5	4
						1.0	17.3		1				93.6		7.5	7.5	1.1		1.9	-
M1	Misty	Calm	07:23	5.4	Middle	-	-	-		-	-	-	-	-	-	ł	-	1.6	-	2.3
						4.4	17.3		8.2		30.7		94.7		7.6		2.2		2.3	-
					Bottom	4.4	17.3	17.3	8.2	8.2	30.5	30.6	93.8	94.3	7.5	7.6	2.1	ł	3.4	-
				1		1.0	17.3		8.2		30.6		94.6		7.6		1.1		2.9	
					Surface	1.0	17.3	17.3	8.2	8.2	30.7	30.7	93.6	94.1	7.5		1.0		3.2	•
			.=			-	-		-		-		-		-	7.6	-	١	-	
M2	Misty	Calm	07:20	5.0	Middle	-	-	-	-	-	-	-	-	-	-		-	1.4	-	3.7
					D #	4.0	17.3	47.0	8.2	0.0	30.7	00.7	96.0	05.0	7.7	7.0	1.8		4.9	1
					Bottom	4.0	17.3	17.3	8.2	8.2	30.7	30.7	94.4	95.2	7.5	7.6	1.8		3.9	
					Surface	1.0	17.3	17.3	8.2	8.2	30.8	30.8	94.7	94.2	7.6		1.1		3	
					Surface	1.0	17.3	17.3	8.2	6.2	30.7	30.8	93.6	94.2	7.5	7.6	1.1		4	
M3	Misty	Calm	07:26	8.4	Middle	4.2	17.3	17.3	8.2	8.2	31.0	31.0	95.0	94.3	7.6	7.0	1.6	1.8	4	4
IVIO	iviioty	Callii	07.20	0.4	Middle	4.2	17.3	17.3	8.2	0.2	30.9	31.0	93.6	34.3	7.5		1.7	1.0	5	_ ~
					Bottom	7.4	17.3	17.3	8.2	8.2	31.0	30.9	96.0	95.2	7.7	7.6	2.7		5	
DA: Denth-aver					Dottom	7.4	17.3	17.5	8.2	0.2	30.7	30.9	94.4	30.2	7.5	7.0	2.8		6	

DA: Depth-averaged

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

Water Quality Monitoring Results on 17 February 22 during Mid-Ebb Tide

Monitoring	Weather	Sea Condition	Sampling		Sampling Dep	oth (m)		emperature (°C)	t	рΗ	Salin	ity (ppt)	DO Satur	ration (%)	Dissolved (mg/l		Turbidity((NTU)	Suspende (mg	
Station	Condition		Time	(m)		()	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA
					Surface	1.0	18.2	18.2	8.2	8.2	31.5	31.5	98.7	98.6	7.7		1.3		3.1	
					Surface	1.0	18.2	10.2	8.2	0.2	31.5	31.3	98.5	90.0	7.7	7.7	1.2		2.5	
C1	Rainy	Moderate	12:42	10.4	Middle	5.2	18.2	18.2	8.2	8.2	31.5	31.5	98.3	98.2	7.7	'.'	1.4	1.3	3.2	2.9
0.	rtaniy	Moderate	12.12	10.1	Wildalo	5.2	18.2	10.2	8.2	0.2	31.5	01.0	98.1	00.2	7.7		1.4	1.0	2.4	
					Bottom	9.4	18.2	18.2	8.2	8.2	31.5	31.5	98.3	98.4	7.7	7.7	1.4		3.4	1
						9.4	18.2		8.2		31.5		98.5		7.7		1.3		3.0	
					Surface	1.0	18.2	18.2	8.2	8.2	31.5	31.5	98.2	98.1	7.7		1.0		2.9	
						1.0	18.2		8.2		31.5		97.9		7.7	7.7	1.0		4.4	
C2	Cloudy	Moderate	13:05	10.3	Middle	5.2	18.1	18.2	8.2	8.2	31.5	31.5	98.2	98.0	7.7		0.9	1.0	2.8	3.0
						5.2	18.2		8.2		31.5		97.8		7.6		1.0		2.6	4
					Bottom	9.3	18.1 18.2	18.2	8.2 8.2	8.2	31.5 31.5	31.5	99.3 98.1	98.7	7.8 7.7	7.8	1.0		2.8 2.6	ł
	1					9.3	18.2						98.1		7.7		1.6		2.8	
					Surface	1.0	18.1	18.1	8.2 8.2	8.2	31.3 31.3	31.3	97.9	97.6	7.6		1.5		3.1	ł
						- 1.0	-		0.2		31.3				7.0	7.7	-		-	1
M1	Cloudy	Moderate	12:53	5.7	Middle			-		-		-	-	-			-	5.1	-	2.8
						4.7	18.0		8.2		31.3		98.6		7.7		9.3		2.6	1
					Bottom	4.7	18.1	18.1	8.2	8.2	31.3	31.3	97.6	98.1	7.6	7.7	8.0		2.7	
						1.0	18.2	10.0	8.2		31.3	0.4.0	97.4		7.6		1.3		2.7	
					Surface	1.0	18.2	18.2	8.2	8.2	31.3	31.3	97.2	97.3	7.6	7.0	1.2		4.1	
M2	01	Madanta	12:56	5.2	MA:-I-II-	-	-		-		-		-		-	7.6	-	4.0	-	3.1
IVI∠	Cloudy	Moderate	12:56	5.2	Middle	-	-	-	-	-	-	-	-	-	-		-	1.2	-	3.1
					Bottom	4.2	18.1	18.2	8.2	8.2	31.3	31.3	98.0	97.7	7.7	7.7	1.3		2.7	
					Dollom	4.2	18.2	10.2	8.2	0.2	31.3	31.3	97.3	91.1	7.6	1.1	1.1		2.8	
					Surface	1.0	18.1	18.2	8.2	8.2	31.4	31.4	98.1	97.9	7.7		1.1		4	
					Odridoc	1.0	18.2	10.2	8.2	0.2	31.3	01.4	97.6	37.3	7.6	7.7	1.0		3]
M3	Cloudy	Moderate	12:49	6.5	Middle	3.3	18.1	18.2	8.2	8.2	31.4	31.4	98.2	98.0	7.7	'''	1.3	1.3	3	3
0	0.000		.2	0.0		3.3	18.2		8.2		31.3	0	97.7	00.0	7.6		1.1		3	1
					Bottom	5.5	18.1	18.2	8.2	8.2	31.4	31.4	98.7	98.3	7.7	7.7	1.6		4	1
M. Danth avan					_ 31.0	5.5	18.2	. 3.2	8.2		31.3	- / / /	97.8	23.0	7.7		1.4		3	

DA: Depth-averaged

Water Quality Monitoring Results on 17 February 22 during Mid-Flood Tide

Monitoring	Weather	Sea Condition	Sampling	Water Depth	Sampling Dep	oth (m)	Water Te	emperature (°C)	pН		Salin	ity (ppt)	DO Satur	ation (%)	Dissolved (mg/L		Turbidity	(NTU)	Suspende (mg	
Station	Condition		Time	(m)			Value	Average	Value Av	verage	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA
					Surface	1.0	18.2	18.2	8.2	8.2	31.5	31.5	97.7	97.7	7.6		3.0		4.2	
					Surface	1.0	18.2	10.2	8.2	0.2	31.5	31.3	97.6	31.1	7.6	7.6	2.9		3.8	
C1	Cloudy	Moderate	09:03	10.5	Middle	5.3	18.2	18.2	8.2	8.2	31.5	31.5	97.6	97.6	7.6	7.0	4.6	3.8	4.9	4.5
01	Cloudy	Wiodorato	00.00	10.0	Wildale	5.3	18.2	10.2	8.2	0.2	31.5	01.0	97.5	37.0	7.6		4.5	0.0	4.8	
					Bottom	9.5	18.1	18.2	8.2	8.2	31.5	31.5	97.7	97.7	7.6	7.6	3.9		5.0	
					Dottom	9.5	18.2	10.2	8.2	0.2	31.5	01.0	97.6	51.1	7.6	7.0	3.8		4.4	
					Surface	1.0	18.2	18.2	8.2	8.2	31.5	31.5	97.9	97.8	7.7		1.7		2.6	_
						1.0	18.2		8.2	0.2	31.5	0.10	97.7	01.0	7.6	7.7	1.6		3.4	_
C2	Rainv	Moderate	08:40	10.3	Middle	5.2	18.2	18.2	8.2	8.2	31.5	31.5	97.9	97.8	7.7		1.8	1.7	4.0	3.7
_	'					5.2	18.2		8.2		31.5		97.6		7.6		1.6		4.0	1
					Bottom	9.3	18.1	18.2	8.2	8.2	31.5	31.5	98.4	98.1	7.7	7.7	1.7		4.1	4
						9.3	18.2		8.2		31.5		97.7	l	7.6		1.7		4.0	<u> </u>
					Surface	1.0	18.1 18.1	18.1	8.2	8.2	31.3	31.3	97.1 96.6	96.9	7.6 7.6		1.6 1.5		3.5	-
						1.0	10.1		-		31.3		90.0		7.0	7.6	-		- 3.3	-
M1	Rainy	Moderate	08:53	5.6	Middle	-	-	-		-		-		-	-		-	1.7		3.2
						4.6	18.1		8.2		31.3		97.7		7.7		1.8		2.8	•
					Bottom	4.6	18.1	18.1	8.2	8.2	31.3	31.3	96.8	97.3	7.6	7.7	1.8		3.2	•
						1.0	18.2		9.2		31.3		96.6		7.6		1.0		3.3	
					Surface	1.0	18.2	18.2	8.2	8.2	31.3	31.3	96.5	96.6	7.6		1.0		2.8	1
140	Б.		00.40	5.0	N 4" 1 11	-	-		-		-		-		-	7.6	-	4.0	-	
M2	Rainy	Moderate	08:49	5.2	Middle	-	-	-	-	-	-	-	-	-	-		-	1.8	-	2.9
					D-#	4.2	18.2	40.0	8.2	0.0	31.3	04.0	97.3	97.2	7.6	7.0	2.6		2.8	1
					Bottom	4.2	18.2	18.2	8.2	8.2	31.3	31.3	97.1	97.2	7.6	7.6	2.5		2.7	1
					Surface	1.0	18.2	18.2	8.2	8.2	31.3	31.3	96.8	96.8	7.6		0.5		2	
					Surface	1.0	18.2	10.2	8.2	0.2	31.3	31.3	96.7	90.0	7.6	7.6	0.6		2	
МЗ	Rainy	Moderate	08:58	7.2	Middle	3.6	18.2	18.2	8.2	8.2	31.4	31.4	97.4	97.2	7.6	1.0	0.9	0.8	2	3
IVIO	Itality	Moderate	00.00	1.2	iviidaic	3.6	18.2	10.2	8.2	5.2	31.4	01.7	96.9	51.2	7.6		0.9	0.0	2]
					Bottom	6.2	18.2	18.2	8.2	8.2	31.5	31.5	98.5	97.6	7.7	7.7	0.9		4	
DΔ: Denth-aver	<u> </u>				20110111	6.2	18.2		8.2	J.=	31.4	00	96.7	00	7.6		1.0		3	

DA: Depth-averaged

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

Water Quality Monitoring Results on 19 February 22 during Mid-Ebb Tide

		loring itesu			13 i ebidai y 22	daring wild					0.11		DO 0 1	.: (0/)	Dissolved (Oxygen	T 1:10	(NITLI)	Suspende	ed Solids
Monitoring	Weather	Sea Condition	Sampling		Sampling Dep	oth (m)	Water I	emperature (°C)		рН	Salin	ity (ppt)	DO Satur	ation (%)	(mg/l		Turbidity((NIU)	· (mg/	
Station	Condition		Time	(m)		. ,	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA
					Surface	1.0	17.8	17.8	8.2	8.2	32.0	32.0	103.3	103.3	8.1		2.2		4.9	
					Juliace	1.0	17.8	17.0	8.2	0.2	32.0	32.0	103.2	100.0	8.1	8.1	2.1		4.4]
C1	Rainy	Moderate	13:24	11.0	Middle	5.5	17.8	17.8	8.2	8.2	32.0	32.0	103.3	103.3	8.1	0.1	3.3	3.3	4.6	4.5
01	ramy	Moderate	10.21	11.0	Wildalo	5.5	17.8	17.0	8.2	0.2	32.0	02.0	103.2	100.0	8.1		3.3	0.0	4.6	
					Bottom	10.0	17.8	17.8	8.2	8.2	32.0	32.0	103.4	103.4	8.1	8.1	4.4		4.1	1
						10.0	17.8		8.2		32.0		103.3		8.1		4.3		4.4	
					Surface	1.0	17.5	17.7	8.2	8.2	32.2	32.1	104.4	104.2	8.2		2.4		6.4	
						1.0	17.8		8.2		32.0		103.9		8.2	8.2	2.4		5.4	
C2	Rainy	Moderate	13:37	10.0	Middle	5.0	17.3	17.6	8.2	8.2	32.3	32.1	104.1	104.2	8.2		3.8	3.5	4.4	4.8
	•					5.0	17.8		8.2		31.9		104.2		8.2		3.8		4.8	ł
					Bottom	9.0	17.2 17.7	17.5	8.2 8.2	8.2	32.3 32.0	32.2	103.6 104.7	104.2	8.2 8.2	8.2	4.3		4.2 3.8	ł
	1	l		1		1.0	17.7				32.4		104.7		8.3	l I	3.1		5.1	
					Surface	1.0	17.8	17.6	8.2 8.2	8.2	32.4	32.2	103.2	104.9	8.2		3.1		4.9	1
						-	-		0.2		52.0		-		0.2	8.3	-		-	1
M1	Rainy	Moderate	13:31	5.8	Middle			-	_	-		-		-			_	4.0		5.9
						4.8	17.0		8.2		32.6		105.9		8.4		4.9		6.9	
					Bottom	4.8	17.5	17.3	8.2	8.2	32.2	32.4	105.0	105.5	8.3	8.4	4.8		6.5	
					0 (1.0	17.8	47.0	8.2	0.0	32.0	00.0	103.5	400.0	8.1		2.3		5.5	
					Surface	1.0	17.8	17.8	8.2	8.2	32.0	32.0	103.6	103.6	8.1		2.2		6.0	
M2	Rainv	Moderate	13:34	5.0	Middle	-	-		-		-		-		-	8.1	-	3.0	-	5.6
IVI∠	Rainy	ivioderate	13:34	5.0	ivildale	-	-	-	-	-	-	-	-	-	-		-	3.0	-	5.6
					Bottom	4.0	17.8	17.8	8.2	8.2	31.9	32.0	103.5	103.6	8.1	8.1	3.7		6.0	
					Dottom	4.0	17.8	17.0	8.2	0.2	32.0	32.0	103.6	103.0	8.1	0.1	3.8		5.0	
					Surface	1.0	17.8	17.8	8.2	8.2	32.0	32.0	104.2	103.8	8.2		1.2		5	
					Canado	1.0	17.8	17.0	8.2	0.2	32.0	02.0	103.4	100.0	8.1	8.2	1.2		4	
M3	Rainy	Moderate	13:28	7.0	Middle	3.5	17.7	17.8	8.2	8.2	32.1	32.1	104.5	104.1	8.2		2.4	2.4	6	5
						3.5	17.8		8.2	¥	32.0		103.6		8.1		2.4		5	
					Bottom	6.0	17.3	17.6	8.2	8.2	32.3	32.2	104.8	104.3	8.3	8.3	3.5		6	4
M. Donth avan	<u> </u>			ĺ		6.0	17.8		8.2		32.0		103.8		8.2		3.5		5	

DA: Depth-averaged

Water Quality Monitoring Results on 19 February 22 during Mid-Flood Tide

Monitoring	Weather	Sea Condition	Sampling		Sampling Dep	th (m)	Water Te	emperature (°C)	р	Н	Salin	ity (ppt)	DO Satur	ation (%)	Dissolved ((mg/L		Turbidity(NTU)	Suspende (mg/	
Station	Condition		Time	(m)	32.7 3 37	,	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA
					Surface	1.0	17.8	17.8	8.2	8.2	32.0	32.0	104.0	104.0	8.2		2.1		6.0	
					Sulface	1.0	17.8	17.0	8.2	0.2	31.9	32.0	104.0	104.0	8.2	8.2	2.0		5.5	1
C1	Rainy	Moderate	09:50	9.0	Middle	4.5	17.8	17.8	8.2	8.2	32.0	32.0	104.0	104.0	8.2	0.2	3.1	3.4	5.3	5.3
	ramy	Wiodorato	00.00	0.0	Wildale	4.5	17.8	17.0	8.2	0.2	31.9	02.0	104.0	104.0	8.2		3.2	0.1	4.9]
					Bottom	8.0	17.8	17.8	8.2	8.2	32.0	32.0	104.0	104.1	8.2	8.2	4.9		5.5	1
					Dottom	8.0	17.8	17.0	8.2	0.2	31.9	32.0	104.1	104.1	8.2	0.2	4.9		4.6	
					Surface	1.0	17.8	17.8	8.1	8.1	31.9	31.9	103.2	103.3	8.1		2.1		4.3	1
						1.0	17.8		8.1	· · ·	31.9	0.10	103.3	.00.0	8.1	8.1	2.1		4.8	1
C2	Rainy	Moderate	09:31	10.0	Middle	5.0	17.8	17.8	8.1	8.1	31.9	31.9	103.2	103.3	8.1		3.2	3.3	6.0	6.0
	'					5.0	17.8		8.1		31.9		103.3		8.1		3.2		6.4	1
					Bottom	9.0	17.8	17.8	8.1	8.1	31.9	31.9	103.1	103.2	8.1	8.1	4.6		7.7	1
			1			9.0	17.8		8.1		31.9		103.3	l	8.1		4.7		6.9	
					Surface	1.0	17.7 17.7	17.7	8.1 8.1	8.1	31.9 32.0	32.0	100.7 100.9	100.8	7.9 7.9		1.8 1.8		6.1 4.8	1
						1.0	- 17.7		0.1		32.0				7.9	7.9	1.0			1
M1	Rainy	Moderate	09:42	5.4	Middle	-	-	-	-	-	-	-	-	-	-		-	2.0	-	4.9
						4.4	17.6		8.1		31.8		100.5		7.9		2.1		4.2	1
					Bottom	4.4	17.7	17.7	8.1	8.1	31.9	31.9	100.8	100.7	7.9	7.9	2.1		4.3	1
					2 /	1.0	17.7		8.1		31.9		100.4	400 =	7.9		1.1		4.8	
					Surface	1.0	17.7	17.7	8.1	8.1	31.9	31.9	100.5	100.5	7.9		1.1		4.7	1
						-	-		-		-		-		-	7.9	-		-	
M2	Rainy	Moderate	09:39	5.0	Middle	-	-	-	-	-	_	-	-	-	-		-	1.9	-	4.7
					D. //	4.0	17.7	47.7	8.1	0.4	31.9	04.0	100.3	400.4	7.9	7.0	2.7		4.2	1
					Bottom	4.0	17.7	17.7	8.1	8.1	31.9	31.9	100.5	100.4	7.9	7.9	2.8		5.2	1
					Surface	1.0	17.8	17.8	8.2	8.2	31.9	31.9	103.9	103.9	8.2		3.4		6	
					Surface	1.0	17.8	17.0	8.2	0.2	31.9	31.9	103.9	103.9	8.2	8.2	3.4		6	1
M3	Rainy	Moderate	09:47	7.4	Middle	3.7	17.8	17.8	8.2	8.2	31.9	31.9	103.9	103.9	8.2	0.2	4.3	4.2	4	5
IVIO	Itality	Moderate	03.47	/	Middle	3.7	17.8	17.0	8.2	0.2	31.9	31.3	103.9	100.9	8.2		4.2	7.2	5	
					Bottom	6.4	17.8	17.8	8.2	8.2	31.9	31.9	103.9	103.9	8.2	8.2	5.0		4	i
DA. Danth aver					Dottom	6.4	17.8	17.0	8.2	0.2	31.9	01.0	103.9	100.9	8.2	0.2	5.1		4	<u> </u>

DA: Depth-averaged

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

Water Quality Monitoring Results on 22 February 22 during Mid-Ebb Tide

Monitoring	Weather	Sea Condition		Water Depth	Consultant Don	the (con)		emperature (°C)		рН	Salin	ity (ppt)	DO Satu	ration (%)	Dissolved (mg/l		Turbidity(NTU)	Suspende (mg/	
Station	Condition	Sea Condition	Time	(m)	Sampling Dep	otn (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA
					Surface	1.0	15.5	15.5	8.3	8.3	31.3	31.3	93.1	93.1	7.7		1.4		1.7	
					Surface	1.0	15.5	15.5	8.3	0.5	31.3	31.3	93.1	33.1	7.7	7.7	1.4		2.3	j
C1	Rainy	Rough	15:44	9.6	Middle	4.8	15.6	15.6	8.3	8.3	31.4	31.4	92.7	92.7	7.6] '.'	2.4	2.5	2.2	2.4
01	rtairiy	Rough	10.44	3.0	Wildaic	4.8	15.6	10.0	8.3	0.0	31.4	01.4	92.7	52.1	7.6		2.4	2.0	2.8	2.7
					Bottom	8.6	15.6	15.6	8.3	8.3	31.5	31.5	92.8	92.8	7.6	7.6	3.8		2.7	1
					Bottom	8.6	15.6	10.0	8.3	0.0	31.5	01.0	92.8	02.0	7.6	7.0	3.7		2.8	<u> </u>
					Surface	1.0	15.4	15.4	8.3	8.3	31.2	31.2	93.1	93.1	7.7		2.0		2.7	1
						1.0	15.4		8.3		31.2	· · · · ·	93.1		7.7	7.7	1.9		2.4	1
C2	Rainy	Moderate	16:08	9.1	Middle	4.6	15.5	15.5	8.3	8.3	31.4	31.4	92.5	92.5	7.6		1.5	1.6	4.4	4.3
						4.6	15.5		8.3		31.4		92.5		7.6		1.5		3.3	
					Bottom	8.1	15.6	15.6	8.3	8.3	31.5	31.5	92.5	92.5	7.6	7.6	1.3		6.8	l '
						8.1	15.6		8.3		31.5		92.5		7.6		1.3		6.4	
					Surface	1.0	15.1	15.1	8.3	8.3	30.6	30.6	92.7	92.7	7.7		2.9		2.9	ł
						1.0	15.1		8.3		30.6		92.7		7.7	7.7	3.0		1.6	
M1	Rainy	Moderate	15:54	4.6	Middle	-	-	-	-	-	-	-	-	-	-		-	3.3	-	2.4
	_					-			-		-		-		-		-			
					Bottom	3.6	15.1	15.1	8.3	8.3	30.6	30.6	93.2	93.2	7.8	7.8	3.7		1.7	ا ا
						3.6	15.1		8.3	l	30.6		93.1		7.8		3.6		3.4	
					Surface	1.0	15.1 15.1	15.1	8.3	8.3	30.6 30.6	30.6	92.6 92.6	92.6	7.7 7.7	-	2.7		2.5 2.9	
						1.0	15.1		- 0.3		30.6		92.6		1.1	7.7	- 2.0		2.9	İ
M2	Rainy	Moderate	15:58	3.4	Middle	-	-	-	-	-		-	-	-	-	-	-	3.6	-	2.7
						2.4	15.1		8.3		30.6		93.5		7.8		4.6		2.4	
					Bottom	2.4	15.1	15.1	8.3	8.3	30.6	30.6	93.4	93.5	7.8	7.8	4.6		3.0	
						1.0	15.1		8.3		30.6		92.4		7.7		1.4		2	\vdash
					Surface	1.0	15.1	15.1	8.3	8.3	30.6	30.6	92.5	92.5	7.7	1	1.4		3	
						3.7	15.2		8.3		30.9		92.9		7.7	7.7	2.7		2	
M3	Rainy	Moderate	15:50	7.3	Middle	3.7	15.3	15.3	8.3	8.3	31.0	31.0	92.9	92.9	7.7	1	2.7	2.6	3	3
						6.3	15.4		8.3		31.2		94.8		7.8	1	3.7		3	ĺ
					Bottom	6.3	15.4	15.4	8.3	8.3	31.2	31.2	94.5	94.7	7.8	7.8	3.6		3	ĺ
DA. Donth over				l		0.0	10.7		0.0	l	01.2		57.5		1.0		0.0		U	

DA: Depth-averaged

Water Quality Monitoring Results on 22 February 22 during Mid-Flood Tide

Monitoring	Weather	Sea Condition	Sampling	Water Depth	Sampling Dep	oth (m)	Water Te	emperature (°C)	рН	1	Salin	ity (ppt)	DO Satur	ation (%)	Dissolved (mg/L		Turbidity	(NTU)	Suspende (mg	
Station	Condition		Time	(m)		,	Value	Average	Value A	verage	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA
					Surface	1.0	15.5	15.5	8.2	8.2	31.3	31.3	93.1	93.1	7.7		3.4		3.0	
					Surface	1.0	15.5	13.3	8.2	0.2	31.3	31.3	93.1	33.1	7.7	7.7	3.4		3.6	
C1	Rainy	Rough	10:35	11.6	Middle	5.8	15.5	15.5	8.2	8.2	31.3	31.3	93.3	93.3	7.7	1.1	3.6	5.1	4.7	5.0
01	ramy	rtougii	10.00	11.0	Wildaic	5.8	15.5	10.0	8.2	0.2	31.3	01.0	93.2	30.0	7.7		3.6	0.1	6.0	0.0
					Bottom	10.6	15.4	15.4	8.2	8.2	31.3	31.3	94.6	94.5	7.8	7.8	8.3		6.2	
					Dottom	10.6	15.4	10.4	8.2	0.2	31.3	01.0	94.4	34.0	7.8	7.0	8.3		6.6	
					Surface	1.0	15.5	15.5	8.2	8.2	31.4	31.4	93.3	93.3	7.7		3.4		6.0	
						1.0	15.5		8.2		31.4	•	93.2		7.7	7.7	3.4		8.0	
C2	Rainy	Moderate	10:11	10.8	Middle	5.4	15.5	15.5	8.2	8.2	31.3	31.3	93.5	93.5	7.7		5.3	5.3	7.2	7.0
						5.4	15.5		8.2		31.3		93.4		7.7		5.3		8.1	_
					Bottom	9.8	15.4	15.4	8.2	8.2	31.3	31.3	94.4	94.4	7.8	7.8	7.1		6.4	-
						9.8	15.4		8.2		31.3		94.3	l	7.8		7.1		6.0	1
					Surface	1.0	15.1 15.1	15.1	8.2	8.2	30.7	30.7	91.7 91.6	91.7	7.6 7.6		2.2		3.8	
						1.0	15.1		- 0.2		30.7		91.6		7.0	7.6	-		3.0	-
M1	Rainy	Moderate	10:20	5.5	Middle	-	- -	-	-	-		-		-				2.4		3.5
						4.5	15.2		8.2		30.9		92.0		7.7		2.6		3.7	-
					Bottom	4.5	15.2	15.2	8.2	8.2	30.9	30.9	92.0	92.0	7.6	7.7	2.6		3.4	•
					0.1	1.0	15.1		8.2		30.7		91.8	24.0	7.6		2.4		4.6	
					Surface	1.0	15.1	15.1	8.2	8.2	30.7	30.7	91.7	91.8	7.6	7.0	2.4		3.6	
MO	Datas	Madasta	40.04	F 4	MC-I-U-	-	-		-		-		-		-	7.6	-	0.4	-	0.7
M2	Rainy	Moderate	10:24	5.1	Middle	-	-	-	-	-	-	-	-	-	-		-	2.4	-	3.7
					Dottom	4.1	15.1	15.1	8.3	8.3	30.7	20.7	92.5	92.5	7.7	7.7	2.4		3.7	
					Bottom	4.1	15.1	15.1	8.3	0.3	30.7	30.7	92.4	92.5	7.7	7.7	2.5		3.0	
					Surface	1.0	15.1	15.1	8.2	8.2	30.7	30.7	91.9	91.9	7.7		2.9		3	
					Surface	1.0	15.1	15.1	8.2	0.2	30.7	30.7	91.9	91.9	7.7	7.7	2.9		3	
M3	Rainy	Moderate	10:29	8.3	Middle	4.2	15.4	15.4	8.3	8.3	31.1	31.1	93.4	93.4	7.7	1.1	2.6	2.5	2	3
IVIO	Ixality	Moderate	10.23	0.5	Milduic	4.2	15.4	10.4	8.3	0.0	31.1	31.1	93.3	30.4	7.7		2.6	2.5	3	
					Bottom	7.3	15.1	15.1	8.3	8.3	31.2	31.2	94.5	94.5	7.9	7.9	1.9		3	
DA: Denth-aver					Dottom	7.3	15.1	10.1	8.3	5.0	31.2	01.2	94.4	0 1.0	7.8	7.0	1.9		4	

DA: Depth-averaged

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

Water Quality Monitoring Results on 24 February 22 during Mid-Ebb Tide

Monitoring	Weather	Sea Condition	Sampling		Sampling Dep	oth (m)		emperature (°C)	pl	Н	Salin	ity (ppt)	DO Satur	ation (%)	Dissolved (mg/L		Turbidity(NTU)	Suspende (mg/	
Station	Condition		Time	(m)		,	Value	Average	Value A	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA
					Surface	1.0	15.5	15.6	8.2	8.2	31.4	31.4	91.0	91.4	7.5		2.4		3.4	1
					Juliace	1.0	15.6	13.0	8.2	0.2	31.3	31.4	91.7	31.4	7.6	7.6	2.6		3.5	
C1	Cloudy	Rough	05:48	10.4	Middle	5.2	15.5	15.5	8.3	8.3	31.4	31.4	90.9	92.3	7.5	1.0	3.9	5.1	2.6	2.8
01	Cloudy	rtougn	00.10	10.1	Middle	5.2	15.4	10.0	8.2	0.0	31.4	01.1	93.7	02.0	7.8		4.0	0.1	2.8	
					Bottom	9.4	15.5	15.5	8.2	8.3	31.4	31.4	93.7	94.0	7.7	7.8	9.0		2.5	1
						9.4	15.4		8.3		31.4	•	94.2		7.8		8.6		2.2	
					Surface	1.0	15.6	15.6	8.3	8.4	31.3	31.3	95.8	95.0	7.9		2.0		2.7	1
						1.0	15.6		8.4		31.2		94.1		7.8	7.8	2.2		2.4	1
C2	Cloudy	Moderate	05:10	10.6	Middle	5.3	15.6	15.5	8.3	8.4	31.5	31.5	92.1	94.1	7.6		4.5	4.6	2.2	2.3
						5.3	15.4		8.4		31.5		96.0		7.8		4.7		2.3	1
					Bottom	9.6	15.3	15.4	8.2	8.3	31.4	31.4	95.9	94.7	8.0	7.9	7.1		2.0	1
				<u> </u>		9.6	15.4				31.4		93.4		7.7		7.0		2.0	—
					Surface	1.0	15.2 15.1	15.2	8.3 8.3	8.3	30.7 30.6	30.7	90.2 91.5	90.9	7.5 7.7		1.5 1.6		1.6 1.9	1
						-	- 13.1		0.3		-				1.1	7.6	-		- 1.9	1
M1	Cloudy	Moderate	05:25	5.7	Middle	-	-	-	-	-		-	-	-	-		-	2.5		2.1
						4.7	15.1		8.2		30.8		92.3		7.7		3.4		2.5	1
					Bottom	4.7	15.2	15.2	8.1	8.2	30.8	30.8	92.2	92.3	7.7	7.7	3.6		2.2	1
						1.0	15.2		8.2		30.7		91.3		7.6		2.0		1.9	
					Surface	1.0	15.0	15.1	8.3	8.3	30.8	30.8	90.1	90.7	7.6		1.9		2.0	ł
MO	Olavial.	Madasta	05:04	5.0	NAC-L-U-	-	-		-		-		-		-	7.6	-	0.0	-	0.0
M2	Cloudy	Moderate	05:21	5.3	Middle	-	-	-	-	-	-	-	-	-	-		-	2.2	-	3.2
					Bottom	4.3	15.2	15.1	8.2	8.2	30.7	30.7	90.1	91.7	7.5	7.7	2.5		4.4	į !
					Bollom	4.3	15.0	15.1	8.1	0.2	30.6	30.7	93.3	91.7	7.8	7.7	2.4		4.3	l
					Surface	1.0	15.1	15.2	8.2	8.3	30.8	30.8	92.6	92.6	7.7		3.3		3	
					Juliace	1.0	15.2	13.2	8.3	0.5	30.8	30.0	92.6	32.0	7.7	7.8	3.2		3	
M3	Cloudy	Moderate	05:30	7.1	Middle	3.6	15.5	15.5	8.4	8.4	31.3	31.3	95.8	94.6	7.9	,.0	2.0	2.5	4	3
1110	Oloudy	Modorato	00.00	'	Mildalo	3.6	15.5	10.0	8.3	0.1	31.2	01.0	93.4	0 1.0	7.8		1.8	2.0	3	, ັ
					Bottom	6.1	15.0	15.1	8.3	8.3	31.2	31.2	92.4	92.4	7.7	7.7	2.3		4	i !
					201.0	6.1	15.2		8.3		31.1	0	92.3	02	7.7		2.4		4	

DA: Depth-averaged

Water Quality Monitoring Results on 24 February 22 during Mid-Flood Tide

Monitoring	Weather	Sea Condition	Sampling	Water Depth	Sampling De	oth (m)	Water Te	emperature (°C)	рН		Salin	ity (ppt)	DO Satur	ation (%)	Dissolved (mg/l		Turbidity	(NTU)	Suspende (mg	
Station	Condition		Time	(m)		,	Value	Average	Value Av	verage	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA
					Surface	1.0	15.4	15.5	8.3	8.4	31.4	31.4	93.3	93.3	7.7		1.2		2.8	
					Surface	1.0	15.6	15.5	8.4	0.4	31.4	31.4	93.3	93.3	7.7	7.7	1.3		2.8	
C1	Cloudy	Rough	11:13	10.3	Middle	5.2	15.6	15.6	8.3	8.4	31.6	31.5	92.6	93.1	7.6	1.7	3.2	2.6	2.9	3.1
01	Cloudy	rtougii	11.10	10.0	Wildale	5.2	15.6	13.0	8.4	0.4	31.3	51.5	93.5	33.1	7.7		3.3	2.0	3.2	0.1
					Bottom	9.3	15.7	15.6	8.4	8.4	31.4	31.4	94.5	93.6	7.8	7.7	3.2		3.3	
					Dottom	9.3	15.5	13.0	8.3	0.4	31.4	31.4	92.7	33.0	7.6	7.7	3.3		3.3	
					Surface	1.0	15.3	15.3	8.1	8.2	31.1	31.2	91.3	92.5	7.6		1.9		2.0	
						1.0	15.3		8.2	0.2	31.3	02	93.6	02.0	7.8	7.6	2.0		2.1]
C2	Cloudy	Moderate	11:37	10.4	Middle	5.2	15.4	15.5	8.1	8.2	31.5	31.5	90.9	90.9	7.5		1.9	1.7	3.2	3.0
-	,					5.2	15.5		8.2		31.4		90.8		7.5		2.0		3.3	
					Bottom	9.4	15.5	15.5	8.2	8.2	31.4	31.5	91.1	91.8	7.5	7.6	1.3		3.7	4
				1	1	9.4	15.5		8.2		31.5		92.5		7.6		1.2		3.5	<u> </u>
					Surface	1.0	15.2	15.2	8.2	8.2	30.8	30.7	92.7	93.5	7.7		2.4		2.0	-
						1.0	15.1						94.2		7.9	7.8	2.5		2.1	-
M1	Cloudy	Moderate	11:22	5.6	Middle	-	-	-	- -	-	-	-	-	-	-	ł	-	2.6	-	2.5
						4.6	15.0		8.2		30.6		93.4		7.8		2.6		3.0	1
					Bottom	4.6	15.2	15.1	8.2	8.2	30.5	30.6	93.8	93.6	7.8	7.8	2.7		2.9	İ
				1		1.0	15.1		9.2		30.7		92.4		7.7		3.2		2.3	
					Surface	1.0	15.1	15.1	8.2	8.2	30.5	30.6	92.1	92.3	7.8		3.3		2.1	
140	01 1		44.00	5.0		-	-		-		-		-		-	7.8	-	0.7	-	
M2	Cloudy	Moderate	11:26	5.2	Middle	-	-	-	-	-	-	-	-	-	-		-	3.7	-	2.5
					D-#	4.2	15.1	45.4	8.4	0.4	30.5	20.0	93.3	00.0	7.8	7.0	4.0		2.7	
					Bottom	4.2	15.1	15.1	8.4	8.4	30.6	30.6	93.1	93.2	7.8	7.8	4.1		2.9	
					Surface	1.0	15.2	15.2	8.4	8.4	30.6	30.6	91.8	91.9	7.7		1.6		4	
					Surface	1.0	15.2	15.2	8.4	0.4	30.6	30.6	91.9	91.9	7.7	7.8	1.5		4	
M3	Cloudy	Moderate	11:31	7.1	Middle	3.6	15.1	15.2	8.1	8.2	30.8	30.9	92.7	94.0	7.7	7.0	1.8	2.4	3	3
IVIO	Cioudy	Moderate	11.51	/	Middle	3.6	15.3	10.2	8.2	0.2	30.9	30.9	95.3	34.0	7.9		1.8	2.4	3	
					Bottom	6.1	15.5	15.5	8.2	8.2	31.1	31.1	97.2	97.4	8.0	8.1	3.7		2	1
DA: Denth-aver					Dottom	6.1	15.5	10.0	8.2	J. <u>L</u>	31.1	01.1	97.5	07.1	8.1	0.1	3.8		3	<u> </u>

DA: Depth-averaged

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

Water Quality Monitoring Results on 26 February 22 during Mid-Ebb Tide

Monitoring	Weather	Sea Condition		Water Depth	Sampling Dep	th (m)	Water Te	emperature (°C)		рН	Salin	nity (ppt)	DO Satur	ration (%)	Dissolved (mg/l		Turbidity(NTU)	Suspende (mg/	
Station	Condition		Time	(m)		, ,	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA
					Surface	1.0	15.4	15.5	8.3	8.3	31.4	31.4	90.8	92.2	7.5		2.5		1.5	
					Juliace	1.0	15.5	13.5	8.3	0.5	31.3	31.4	93.6	92.2	7.7	7.6	2.3		1.8	in the second
C1	Fine	Rough	20:41	10.6	Middle	5.3	15.6	15.7	8.3	8.3	31.5	31.4	91.1	92.5	7.5	7.0	4.1	3.2	2.2	2.1
O1	1 1116	Rough	20.41	10.0	Middle	5.3	15.7	13.7	8.3	0.5	31.3	31.4	93.8	92.0	7.7		4.3	5.2	1.8	2.1
					Bottom	9.6	15.5	15.5	8.2	8.3	31.6	31.6	91.8	93.2	7.6	7.7	2.9		2.6	
					Bottom	9.6	15.5	10.0	8.3	0.0	31.6	01.0	94.5	30.2	7.8	1.1	3.0		2.6	
					Surface	1.0	15.5	15.5	8.4	8.4	31.2	31.1	97.1	94.9	8.0		1.8		1.6	
					Juliace	1.0	15.5	13.5	8.3	0.4	31.0	31.1	92.6	34.3	7.7	7.7	2.0		1.4	
C2	Fine	Rough	21:03	10.2	Middle	5.1	15.5	15.5	8.3	8.3	31.5	31.4	91.4	91.7	7.5	'''	1.0	1.5	1.9	1.7
02	1 1110	rtough	21.00	10.2	Wildalo	5.1	15.5	10.0	8.2	0.0	31.3	01.1	92.0	01.7	7.6		1.1	1.0	1.7	
					Bottom	9.2	15.6	15.6	8.4	8.4	31.5	31.5	91.2	90.5	7.5	7.5	1.5		1.6	
					Bottom	9.2	15.5	10.0	8.3	0.1	31.5	01.0	89.8	00.0	7.4	7.0	1.7		2.2	
					Surface	1.0	15.1	15.0	8.2	8.2	30.6	30.6	88.4	89.3	7.4		3.7		2.4	
						1.0	14.9		8.1	0.2	30.5	00.0	90.1	00.0	7.6	7.5	4.0		2.8	
M1	Fine	Rough	20:51	5.8	Middle	-	-	_	-	_	-	_	-	_	•		-	3.9	-	2.3
		cag	20.0.	0.0	maaro	-	-		-		-		-		•		-	0.0	-	
					Bottom	4.8	15.0	15.0	8.4	8.4	30.4	30.5	91.9	92.2	7.7	7.8	4.0		2.2	
					20110111	4.8	15.0		8.4	0	30.6	00.0	92.4	02.2	7.8		3.9		1.9	
					Surface	1.0	15.1	15.1	8.2	8.2	30.7	30.7	95.1	93.9	8.0		2.9		1.7	
						1.0	15.1		8.1		30.7		92.7		7.8	7.9	3.0		2.5	
M2	Fine	Rough	20:55	5.6	Middle	-	-	-	-	-	-	-	-	_	-		-	3.1	-	2.1
						-	-		-		-		-		-		-		-	
					Bottom	4.6	14.9	15.0	8.5	8.4	30.8	30.7	90.0	90.0	7.6	7.6	3.3		2.2	
						4.6	15.0		8.3		30.5		90.0		7.6		3.1		1.9	
					Surface	1.0	15.0	15.1	8.3	8.3	30.6	30.6	92.9	93.6	7.8		1.7		2	
						1.0	15.1		8.3		30.6		94.3		7.9	7.9	1.8		2	
M3	Fine	Rough	20:46	6.7	Middle	3.4	15.1	15.1	8.4	8.4	30.9	31.0	91.9	94.0	7.7		1.0	2.6	2	2
						3.4	15.1		8.3		31.1		96.1		8.0		1.1		2	ļ
					Bottom	5.7	15.4	15.4	8.4	8.4	31.1	31.3	93.6	95.4	7.8	8.0	5.0		3	
DA: Donth sugar						5.7	15.3		8.4		31.4		97.2		8.1		4.8		2	

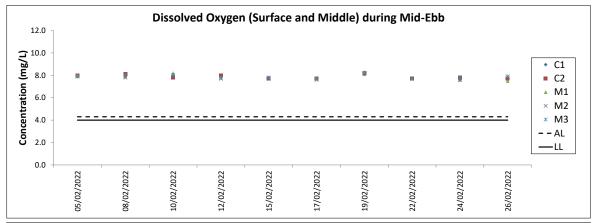
DA: Depth-averaged

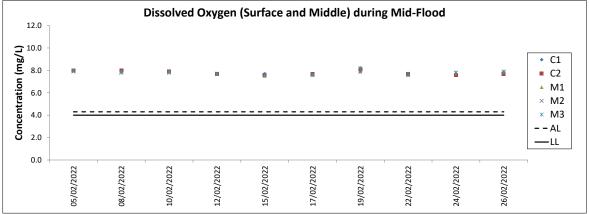
Water Quality Monitoring Results on 26 February 22 during Mid-Flood Tide

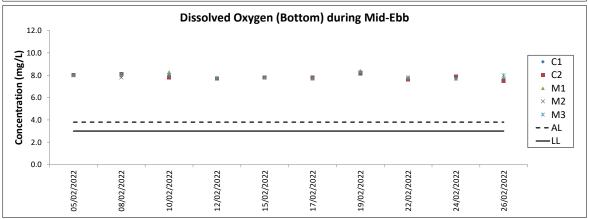
Monitoring	Weather	Sea Condition	Sampling	Water Depth	Sampling Dep	oth (m)	Water Te	emperature (°C)	рŀ	1	Salin	nity (ppt)	DO Satur	ation (%)	Dissolved (mg/L		Turbidity	(NTU)	Suspende (mg	
Station	Condition		Time	(m)	3 1		Value	Average	Value A	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA
					Surface	1.0	15.4	15.4	8.1	8.1	31.3	31.3	93.3	93.6	7.7		2.5		2.2	
					Sulface	1.0	15.4	13.4	8.1	0.1	31.3	31.3	93.8	93.0	7.8	7.7	2.4		2.2	
C1	Fine	Rough	10:07	10.3	Middle	5.2	15.3	15.4	8.4	8.4	31.3	31.3	94.0	92.6	7.8	1.1	6.4	5.5	1.2	1.6
01	1 1110	rtougii	10.07	10.5	iviidale	5.2	15.5	15.4	8.3	0.4	31.2	31.3	91.1	32.0	7.6		6.1	0.0	1.5	1.0
					Bottom	9.3	15.5	15.5	8.0	8.1	31.3	31.4	93.8	94.2	7.8	7.8	7.3		1.5	
					Bottom	9.3	15.5	10.0	8.1	0.1	31.4	01.4	94.6	54.2	7.8	7.0	8.4		1.1	
					Surface	1.0	15.3	15.4	8.3	8.3	31.6	31.5	91.7	91.7	7.6		2.6		1.5	
						1.0	15.5		8.2	0.0	31.3	00	91.6	· · · ·	7.6	7.7	2.5		1.7	
C2	Fine	Rough	09:46	10.2	Middle	5.1	15.5	15.5	8.2	8.2	31.1	31.3	94.4	93.2	7.8		6.0	4.7	1.5	1.7
						5.1	15.5		8.1		31.5		91.9		7.6		6.1		1.2	
					Bottom	9.2	15.3	15.4	8.4	8.4	31.2	31.3	96.7	96.7	8.1	8.1	5.6		2.2	
						9.2	15.4		8.4		31.4		96.7		8.0		5.5		2.1	
					Surface	1.0	15.2	15.2	8.1	8.2	30.7	30.8	93.6	94.2	7.8 7.9		1.9		1.5	ł
						1.0	15.2		t				94.7		7.9	7.9	1.8		1.4	ł
M1	Fine	Rough	09:57	5.7	Middle	-	-	-	-	-	-	-	-	-	-	ł	-	2.5	-	1.7
						4.7	15.3		8.2		30.7		92.6		7.7		3.3		1.7	1
					Bottom	4.7	15.1	15.2	8.3	8.3	30.6	30.7	92.8	92.7	7.8	7.8	3.1		2.2	1
						1.0	15.2		8.1		30.7		95.7		8.0		6.3		1.8	
					Surface	1.0	15.0	15.1	8.2	8.2	30.6	30.7	91.7	93.7	7.7	7.0	6.2		1.7	
MO	F:	Davish	00.54	5.0	N 40 -1 -11 -	-	-		-		-		-		-	7.9	-	4.4	-	4.0
M2	Fine	Rough	09:54	5.3	Middle	-	-	-	-	-	-	-	-	-	-		-	4.4	-	1.8
					Bottom	4.3	15.3	15.3	8.1	8.1	31.1	31.0	91.5	93.0	8.0	8.0	2.7		1.6	
					DOLLOTT	4.3	15.2	15.3	8.1	0.1	30.8	31.0	94.5	93.0	7.9	6.0	2.5		2.1	
					Surface	1.0	15.2	15.2	8.0	8.0	30.7	30.7	92.1	91.9	7.7		3.2		2	
					Sulface	1.0	15.2	13.2	8.0	0.0	30.7	30.7	91.7	31.3	7.7	7.8	3.0		2	
M3	Fine	Rough	10:02	6.9	Middle	3.5	15.4	15.4	8.5	8.4	31.2	31.1	94.5	93.4	7.9	۰.۰	3.2	2.7	2	2
IVIO	1 1110	rtougii	10.02	0.5	WIIGGIG	3.5	15.3	10.7	8.3	5.4	31.0	51.1	92.3	55.4	7.7		3.6	2.1	2	
					Bottom	5.9	15.1	15.1	8.2	8.2	31.3	31.3	94.6	94.8	7.9	7.9	1.7		2	1
DA: Denth-aver					Dottom	5.9	15.1	10.1	8.1	J.2	31.2	01.0	95.0	0 1.0	7.9	7.0	1.6		1	<u> </u>

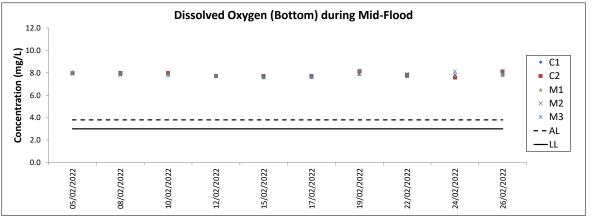
DA: Depth-averaged

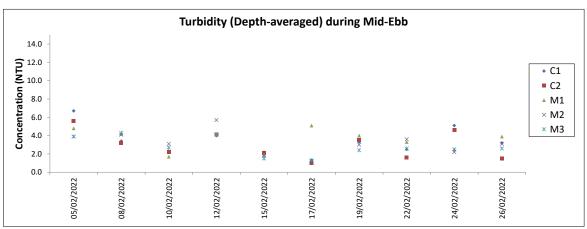
Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

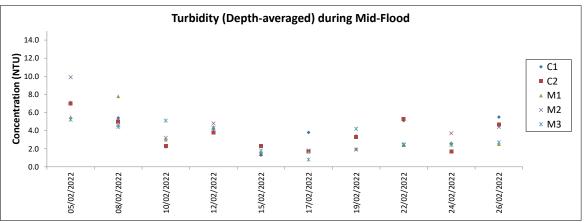










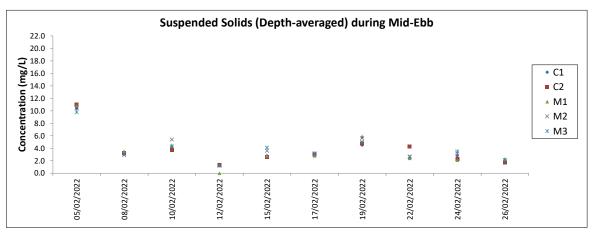


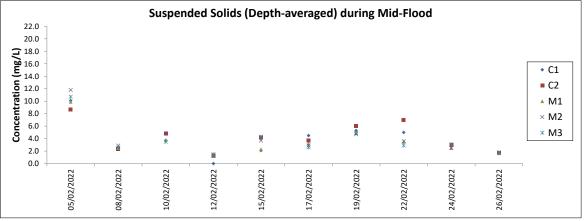
Note: The Action and Limit Level of turbidity can be referred to Table 2.3 of the monthly EM&A report.

Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report.

Weather conditions during monitoring are presented in the data tables above.

QA/QC requirements as stipulated in the EM&A Manual were carried out during measurement.





Note: The Action and Limit Level of suspended solids can be referred to Table 2.3 of the monthly EM&A report.

Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report.

Weather conditions during monitoring are presented in the data tables above.

QA/QC requirements as stipulated in the EM&A Manual were carried out during measurement.

Appendix H. Waste Flow Table

AAHK Contract No. 19W10 Intermodal Transfer Terminal - Bonded Vehicular Bridge and Associated Roads Monthly Waste Flow Table

		Actual Quantitie	s of Inert C&D M	laterials (excluding broken concrete	g excavated wast	te) (tonnes) e.g.		Actual Quantities	of Non-inert C&D	Waste (tonnes)			
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(1)
	Excavated Waste	Total inert C&D	Reused in	Reused in other	Sent to	Disposed to	Recycled scrap	Reused /	Chemical waste	Other waste	Total non-inert	Total recyclable	Total
Month	(tonnes)	material	contract	projects	recycling	public fill	metal	recycled timber		disposed to	C&D material	waste	construction
	(torines)	generated			company					landfill	generated	(k) = (b) + (c) +	waste generated
		(a) = (b) + (c)									(j) = (f) + (g) +	(d) + (f) + (g)	(I) = (a) + (j)
		+ (d) + (e)									(h) + (i)		
Jul-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.04	4.04	0.00	4.04
Oct-20	740.49	740.49	0.00	0.00	0.00	740.49	0.00	0.00	0.00	3.55	3.55	0.00	744.04
Nov-20	574.90	574.90	0.00	0.00	0.00	574.90	0.00	0.00	0.00	6.76	6.76	0.00	581.66
Dec-20	536.08	536.08	0.00	0.00	0.00	536.08	0.00	0.00	0.00	2.33	2.33	0.00	538.41
Jan-21	1778.61	1778.61	0.00	0.00	0.00	1778.61	0.00	0.00	0.00	5.33	5.53	0.00	1784.14
Feb-21	4031.66	4031.66	0.00	2832.32	0.00	1199.34	0.00	0.00	0.00	4.40	4.40	2832.32	4036.06
Mar-21	1921.26	1921.26	0.00	419.77	0.00	1501.49	0.00	0.00	0.00	12.28	12.28	419.77	1933.54
Apr-21	3929.82	3929.82	0.00	1702.03	0.00	2227.79	0.00	0.00	0.00	26.48	26.48	1702.03	3956.30
May-21	2062.98	2062.98	0.00	1694.52	0.00	368.46	0.00	0.00	0.00	12.63	12.63	1694.52	2075.61
Jun-21	5098.30	5098.30	0.00	4446.42	0.00	651.88	0.00	0.00	0.54	23.41	23.95	4446.42	5122.25
Jul-21	6868.66	6868.66	0.00	6440.45	0.00	428.21	0.00	0.00	0.00	12.92	12.92	6440.45	6881.58
Aug-21	6884.63	6884.63	0.00	5662.00	0.00	1222.63	0.00	0.00	1.08	38.91	39.99	5662.00	6924.62
Sep-21	3949.49	3949.49	0.00	2798.89	0.00	1150.60	0.00	0.00	0.00	15.66	15.66	2798.89	3965.15
Oct-21	389.98	389.98	0.00	235.10	0.00	154.88	0.00	0.00	0.00	15.48	15.48	235.10	405.46
Nov-21	1926.96	1926.96	285.00	650.00	0.00	991.96	0.00	0.00	0.00	16.18	16.18	935.00	1943.14
Dec-21	672.20	672.20	240.00	0.00	0.00	432.20	0.00	0.00	0.00	17.40	17.40	240.00	689.60
Jan-22	584.00	584.00	584.00	0.00	0.00	0.00	0.00	0.00	0.00	22.17	22.17	584.00	606.17
Feb-22	1056.52	1056.52	378.00	240.26	0.00	438.26	0.00	0.00	0.00	33.95	33.95	618.26	1090.47
Total	43006.54	43006.54	1487.00	27121.76	0.00	14397.78	0.00	0.00	1.62	273.88	275.70	28608.76	43282.24

*Chemical waste, Wasted oil density 0.9kg/L

Appendix I. Status of Environmental Permits and Licences

Table I.1: Summary of Environmental Licenses and Permits

Type of Licence / Permit	Reference No.	Valid From	Valid Until	Remark
Environmental Permit	EP-560/2018	24 August 2017	End of Project	N/A
Billing Account for Disposal of Construction Waste	7037763	6 July 2020	End of Project	N/A
Billing Account for Vessel Disposal of Inert Construction Waste	7038221	17 January 2022	18 April 2022	Application No: CEDD01140
Construction Dust Notification under APCO	458075	13 July 2020	N/A	N/A
	GW-RS1040-21	5 January 2022	3 July 2022	
Construction Noise Permit	GW-RS1031-21	3 January 2022	11 February 2022	This CNP was superseded by GW-RS0074-22
	GW-RS0074-22	4 February 2022	11 April 2022	Special Case CNP
Chemical Waste Producer	5213-951- G2857-02	24 August 2020	End of Project	N/A
Water Discharge License – Landside	WT00037071- 2020	12 January 2021	31 January 2026	N/A
Water Discharge License – Marine	WT00037556- 2021	14 May 2021	31 May 2026	N/A

Appendix J. Environmental Mitigation Measures Implementation Status

Recommended Mitigation Measures for Air Quality Impact

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Mitigation Measures Implemented? ^
		 Relevant control measures as required in the Air Pollution Control (Construction Dust) Regulation shall be implemented to minimise dust impact. 	Obs
		Skip hoist for material transport should be totally enclosed by impervious sheeting.	N/A
		 All dusty materials should be sprayed with water prior to any loading, unloading or transfer operation to maintain the dusty materials wet. 	Yes
		 All stockpiles of aggregate or spoil should be covered and/or water applied. 	Obs
S3.7.1	S2.2.1	 The height from which excavated materials are dropped should be controlled to a minimum practical height to limit fugitive dust generation from unloading. 	N/A
		 Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites. 	Yes
		 The load of dusty materials carried by a vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure dust materials do not leak from the vehicle. 	Yes
		 All NRMMs operated on-site are approved or exempted (as the case may be) and affixed with the requisite approval/exemption labels under the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation, or are in the process of application for such approval/exemption during the relevant grace period. 	Yes
Recomme	ended Mitiga	tion Measures for Noise Impact	
EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Mitigation Measures Implemented? ^
		Only well-maintained plant should be operated on-site and plant should be serviced regularly.	Yes
		Silencers or mufflers on construction plant should be utilised.	Yes
	S3.2.1	 Mobile plant should be sited as far away from sensitive uses as possible. 	Yes
		 Machines and plant that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum. 	Yes
S4.5.2		 Plant known to emit noise strongly in one direction should, where possible, be orientated so that noise is directed away from the nearby sensitive uses. 	Yes
		 Material stockpiles and other structures such as site hoarding should be effectively utilised to screen noise from on-site construction activities. 	N/A
		 Noisy construction activities such as road breaking, should be scheduled to less sensitive hours during the day, e.g. midday. 	Yes

Recommended Mitigation Measures for Water Quality Impact

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Mitigation Measures Implemented? ^
S5.9.1	S4.3.1	 Steel pile casing and watertight cofferdam should be installed at the pier site and seawater trapped inside the casing and cofferdam should be pumped out to generate a dry working environment prior to carrying out sediment excavation. 	Yes
S5.9.2	S4.3.1	 During dewatering of the cofferdam, appropriate desilting or sedimentation device should be provided on site for treatment before discharge. The Contractor should ensure discharge water from the sedimentation tank meeting the WPCO / TM-DSS requirements before discharge. 	Yes
\$5.9.3	S4.3.1	• To minimise any adverse water quality impact during the excavation of sediment, a funnel should be placed at the top of pile casing during excavation and silt curtains should be deployed to completely enclose the cofferdam and steel pile casing. Silt curtains should be deployed prior to installation of temporary platform on barge, cofferdam and steel pile casing. Silt curtains should only be removed after completion of pile caps and piers. The Contractor should be responsible for the design, installation and maintenance of the silt curtain to minimise the impacts on water quality. The design and specification of the silt curtains should be submitted by the Contractor to the Project Manager or Project Manager's Representative of AAHK for approval. The marine bridge piers should not be constructed at the same time to avoid adverse hydrodynamic impact due to flow blockage increase during the interim construction stages. All vessels should be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash.	Yes
S5.9.5	\$4.3.1	 Surface run-off from construction sites should be discharged into storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sedimentation basins. Channels or earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Perimeter channels at site boundaries should be provided on site boundaries where necessary to intercept storm run-off from outside the site so that it will not wash across the site. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks. 	Rem
S5.9.6	S4.3.1	 Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly, at the onset of and after each rainstorm to prevent local flooding. Before disposal at the public fill reception facilities, the deposited silt and grit should be solicited in such a way that it can be contained and delivered by dump truck instead of tanker truck. Any practical options for the diversion and re-alignment of drainage should comply with both engineering and environmental requirements in order to provide adequate hydraulic capacity of all drains. 	Obs
S5.9.7	S4.3.1	 Construction works should be programmed to minimise soil excavation works in rainy seasons (April to September). If excavation in soil cannot be avoided in these months or at any time of year when rainstorms are likely, for the purpose of preventing soil erosion, temporary exposed slope surfaces should be covered e.g. by tarpaulin, and temporary access roads should be protected by crushed stone or gravel, as excavation proceeds. Intercepting channels should be provided (e.g. along the crest / edge of excavation) to prevent storm runoff from washing across exposed soil surfaces. Arrangements should always be in place in such a way that adequate surface protection measures can be safely carried out well before the arrival of a rainstorm. 	Yes
S5.9.8	S4.3.1	 Earthworks final surfaces should be well compacted and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary. 	Yes

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Mitigation Measures Implemented? ^
S5.9.9	S4.3.1	 Measures should be taken to minimise the ingress of rainwater into trenches. If excavation of trenches in wet seasons is necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities. 	Yes
S5.9.10	S4.3.1	 Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system. 	Obs
S5.9.11	S4.3.1	 If bentonite slurries are required for any construction works, they should be reconditioned and reused wherever practicable to minimise the disposal volume of used bentonite slurries. Temporary enclosed storage locations should be provided on-site for any unused bentonite that needs to be transported away after the related construction activities are completed. Requirements as stipulated in ProPECC Note PN 1/94 should be closely followed when handling and disposing bentonite slurries. 	N/A
		 Loading of the excavated marine-based sediment to the barge shall be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water. 	Yes
S5.9.12	S4.3.1	 The barge transporting the excavated marine-based sediment to the designated disposal sites shall be equipped with tight fitting seals to prevent leakage and shall not be filled to a level that would cause overflow of materials or laden water during loading or transportation. 	Yes
		 Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the Director of Environmental Protection (DEP). 	Yes
S5.9.13	S4.3.1	 Water used in ground boring and drilling for site investigation or rock/soil anchoring should as far as practicable be re- circulated after sedimentation. When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities. 	N/A
S5.9.14	S4.3.1	 All vehicles and plant should be cleaned before they leave a construction site to minimise the deposition of earth, mud, debris on roads. A wheel washing bay should be provided at every site exit if practicable and wash-water should have sand and silt settled out or removed before discharging into storm drains. The section of construction road between the wheel washing bay and the public road should be paved with backfall to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains. 	Yes
\$5.9.15	S4.3.1	• There is a need to apply to EPD for a discharge licence for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements specified in the discharge licence. All the runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS. The beneficial uses of the treated effluent for other on-site activities such as dust suppression, wheel washing and general cleaning etc., can minimise water consumption and reduce the effluent discharge volume. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the relevant WPCO license.	Yes

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Mitigation Measures Implemented? ^
S5.9.16	S4.3.1	 No discharge of sewage to the storm water system and marine water will be allowed. Sufficient chemical toilets should be provided in the works areas to handle the sewage generated from the construction workforce. A licensed waste collector should be deployed to clean the chemical toilets on a regular basis. 	Yes
\$5.9.17	S4.3.1	 Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the surrounding environment. Regular environmental audit of the construction site will provide an effective control of any malpractices and can encourage continual improvement of environmental performance on site. It is anticipated that sewage generation during the construction phase of the project would not cause water pollution problem after undertaking all required measures. 	Yes
S5.9.18	S4.3.1	 The Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation, should be observed and complied with for control of chemical wastes. 	Yes
S5.9.19	S4.3.1	 Any service shop and maintenance facilities should be located on hard standings within a bonded area, and sumps should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges. 	N/A
\$5.9.20	S4.3.1	 Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport. 	Yes
		 Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents. 	Yes
		Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.	Yes
\$5.9.22	S4.3.1	 For the operation of road works, a surface water drainage system should be provided to collect the road runoff. The road drainage should be provided with adequately designed silt trap as necessary. The design of the operational phase mitigation measures for the road works shall take into account the guidelines published in ProPECC PN 5/93 "Drainage Plans subject to Comment by the EPD" 	Yes
		 Design Measures: Exposed surface shall be avoided within the roads to minimise soil erosion. The roads shall be hard paved. The drainage system should be designed to avoid flooding. 	Yes
S5.9.23 to 5.9.29	S4.3.1	 Devices and Facilities: Screening facilities such as standard gully grating and trash grille, with spacing which is capable of screening large substances such as rubbish should be provided at the inlet of drainage system. Road gullies with standard design and silt traps should be provided to remove particles present in stormwater runoff, where appropriate. 	N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Mitigation Measures Implemented? ^
		Administrative Measures:	
		 Good management measures such as regular cleaning and sweeping of road surface/ open areas are suggested. The road surface/ open area cleaning should also be carried out prior to occurrence rainstorm. 	Yes
		 Manholes, as well as stormwater gullies, ditches provided at the Project site should be regularly inspected and cleaned (e.g. monthly). Additional inspection and cleansing should be carried out before forecast heavy rainfall. 	
S5.9.30	S4.3.1	All the sewage flow generated from the proposed toilets should be properly collected and conveyed to the existing sewerage system on HKBCF Island. No direct discharge of sewage effluent into the marine water will be allowed.	Yes
Recomme	ended Mitiga	tion Measures for Waste Management	
EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Mitigation Measures Implemented? ^
		Good Site Practices:	
	S5.2.1	 Nomination of approved personnel, such as a site manager, to be responsible for implementation of good site practices, arrangements for waste collection and effective disposal to an appropriate facility. 	Yes
		 Training of site personnel in site cleanliness, concepts of waste reduction, reuse and recycling, proper waste management and chemical waste handling procedures. 	Yes
S6.5.3		Provision of sufficient waste reception/ disposal points, and regular collection of waste.	Obs
50.5.5		 Adoption of appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers. 	Yes
		Provision of regular cleaning and maintenance programme for drainage systems and sumps.	Yes
		Adoption of a recording system for the amount of wastes generated, recycled and disposed (including the disposal sites).	Yes
		Preparation of Waste Management Plan (WMP), as part of the Environmental Management Plan (EMP).	Yes
		Waste Reduction Measures:	
	S5.2.1	 Segregate and store different types of construction related waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal. 	Yes
		 Provide separate labelled bins to segregate recyclable waste such as aluminium cans from other general refuse generated by the work force, and to encourage collection by individual collectors. 	Yes
S6.5.4		Recycle any unused chemicals or those with remaining functional capacity.	N/A
		Maximise the use of reusable steel formwork to reduce the amount of C&D materials.	Yes
		 Adopt proper storage and site practices to minimise the potential for damage to, or contamination of construction materials. 	Yes
		Plan the delivery and stock of construction materials carefully to minimise the amount of waste generated.	N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Mitigation Measures Implemented? ^
		Minimise over ordering and wastage through careful planning during purchasing of construction materials.	N/A
		 <u>C&D materials:</u> Proper handling and storage of waste such as soil by means of covers and/or water spraying system to minimise the potential environmental impact and to prevent materials from wind-blown or being washed away. 	Yes
		Covering materials during heavy rainfall.	N/A
S6.5.6	S5.2.1	Locating stockpiles to minimise potential visual impacts.	N/A
30.3.0	33.2.1	Minimising land intake of stockpile areas as far as possible.	N/A
		 Adopting GPS or equivalent system for tracking and monitoring of all dump trucks engaged for the Project in recording their travel routings and parking locations to prohibit illegal dumping and landfilling of C&D materials. 	N/A
		 Keeping record and analysis of data collected by GPS or equivalent system related to travel routings and parking locations of dump trucks engaged on site. 	N/A
S6.5.7 to 6.5.9	S5.2.1	General Refuse: • General refuse should be stored in covered bins or compaction units separately from C&D materials. A reputable waste collector should be employed by the Contractor to remove general refuse from the site regularly, separately from C&D materials. An enclosed and covered area is preferred to reduce the occurrence of "wind blown" light materials.	Yes
		• The recyclable component of general refuse, such as aluminium cans, paper and cleansed plastic containers shall be separated from other waste. Provision and collection of recycling bins for different types of recyclable waste shall be set up by the Contractor. The Contractor shall also be responsible for arranging recycling companies to collect these materials.	Yes
		 The Contractor should carry out an education programme for workers in avoiding, reducing, reusing and recycling of materials generation. Posters and leaflets advising on the use of the bins should also be provided in the site as reminders. 	N/A
S6.5.10 to 6.5.12		<u>Chemical Waste:</u> • If chemical wastes were to be produced, the Contractor would be required to register with the EPD as a Chemical Waste Producer, and to follow the guidelines stated in the <i>Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.</i>	Yes
	S5.2.1	 Appropriate containers with proper labels should be used for storage of chemical wastes. Chemical wastes should be collected and delivered to designated outlet by a licensed collector. Chemical wastes (e.g. spent lubricant oil) should be recycled at an appropriate facility as far as possible, while the chemical waste that cannot be recycled should be disposed of at either the CWTC, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. 	Yes
		Any unused chemicals or those with remaining functional capacity should be collected for reuse as far as practicable.	N/A
S6.5.13 to 6.5.16	S5.2.1	 Sediment: The sediment should be excavated, handled, treated, transported and/or disposed of in a manner that would minimise adverse environmental impacts. 	Yes

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Mitigation Measures Implemented? ^
		• Requirements of the Air Pollution Ordinance (Construction Dust) Regulation, where relevant, shall be adhered to during excavation, treatment, transportation and disposal of the sediment.	Yes
		The land-based sediment will be treated using S/S technique and will be reused on site (e.g. as backfilling materials).	Yes
		 Any treatment area for the land-based sediment should be confined for carrying out the cement S/S process and any temporary stockpiling. The area should be designed to prevent leachate from entering the ground. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO). In order to minimise the exposure to contaminated materials, workers shall, if necessary, wear appropriate personal protective equipments (PPE) when handling contaminated sediments. Adequate washing and cleaning facilities shall also be provided on site. 	Yes
S6.5.17	S5.2.1	 For off-site disposal, the basic requirements and procedures specified under PNAP No. 252 (ADV-21) shall be followed. Marine Fill Committee (MFC) of CEDD is managing the disposal facilities in Hong Kong for the excavated sediment, while EPD is the authority of issuing marine dumping permit under the Dumping at Sea Ordinance (DASO). 	N/A
S6.5.18 to 6.5.19	S5.2.1	 For the purpose of site allocation and application of marine dumping permit and if considered necessary by Dumping at Sea Ordinance (DASO) Team/EPD, separate submissions (e.g. SSTP/SQR) shall be submitted to DASO team/EPD for agreement under DASO. Additional SI works, based on the SSTP, shall then be carried out in order to confirm the disposal arrangements of the excavated sediment. A Sediment Quality Report (SQR), reporting the chemical and biological screening results and the estimated quantities of sediment under different disposal options, shall then be submitted to DASO team/EPD for agreement under DASO. To ensure disposal space is allocated for the Project, the Project Proponent should be responsible for obtaining agreement from MFC on the allocation of the disposal site. The contractor(s), on the other hand, should be responsible for the application of the marine dumping permit under DASO from EPD for the sediment disposal. 	N/A
	S5.2.1	The excavated sediments is expected to be loaded onto the barge and transported to the designated disposal sites allocated by MFC. The excavated sediment would be disposed of according to its determined disposal options and PNAP No. 252 (ADV-21).	N/A
S6.5.20 to 6.5.23		 Stockpiling of contaminated sediments should be avoided as far as possible. If temporary stockpiling of contaminated sediments is necessary, the excavated sediment should be covered and the area should be placed within earth bunds or sand bags to prevent leachate from entering the ground, nearby drains and surrounding water bodies. The stockpiles area should be completely paved in order to avoid contamination to underlying soil or groundwater. Separate and clearly defined areas should be provided for stockpiling of contaminated and uncontaminated materials. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO). 	Yes
		 In order to minimise the potential odour / dust emissions during excavation and transportation of the sediment, the excavated sediments shall be wetted during excavation / material handling and shall be properly covered when placed on trucks or barges. Loading of the excavated sediment to the barge shall be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water. 	Yes
		• The barge transporting the sediments to the designated disposal sites shall be equipped with tight fitting seals to prevent leakage and shall not be filled to a level that would cause overflow of materials or laden water during loading or transportation. In addition, monitoring of the barge loading shall be conducted to ensure that loss of material does not take	N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Mitigation Measures Implemented? ^
		place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the DEP.	
		Potential Floating Refuse:	
S6.5.24	S5.2.1	 Proper management and education should be given to construction site workers such that accidental release or intentional disposal would be avoided. The refuse should be stored in enclosed bin to avoid adverse impacts to the surroundings including marine environment. Regular checking should also be carried out to ensure that the refuse is stored properly. 	N/A
Recommo	ended Mitiga	tion Measures for Marine Ecological Impact	
EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Mitigation Measures Implemented? ^
S7.8.3	S6.3.3	Based upon a precautionary approach, a speed limit of 10 knots should be strictly enforced on all construction-related vessels.	Yes
S7.8.6	S6.3.1	 Good site practices, guidelines and mitigation measures detailed in Water Quality Sections 5.9.1 to 5.9.20 should be adopted to further alleviate water quality impacts. 	Yes
S7.8.9	\$6.3.2	 Coral colonies at REA2 under the direct impacts of habitat loss should be translocated as a precautionary measure. A detailed Coral Translocation Proposal, including description of methodology and precautionary post-translocation monitoring programme, should be prepared and subject to agreement with the authority before commencement of the coral translocation. 	N/A
Recomme	ended Mitiga	tion Measures for Landscape and Visual Impact	
EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Mitigation Measures Implemented? ^
		Preservation of New Tree Planting:	
S8.9.2	S7.3.1	 All the planned new trees to be retained and not to be affected by the Project shall be carefully protected during construction in accordance with DevB TCW No. 7/2015 – Tree Preservation during Development issued by GLTM Section of DevB. 	N/A
		 Any existing vegetation in landscaped area and natural terrain not to be affected by the Project shall be carefully preserved. 	N/A
		Transplanting of Affected Trees:	
\$8.9.2	S7.3.1	 Planned trees to be planted under HKBCF unavoidably affected by the works shall be transplanted within the Project boundary or off-site within the Airport Island (i.e. within area of approx. 6.2km) as far as possible in accordance with DevB TCW No. 7/2015 – Tree Preservation and the latest Guidelines on Tree Transplanting issued by GLTM Section of DevB. 	N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Mitigation Measures Implemented? ^
\$8.9.2	S7.3.1	Compensatory Tree Planting: • Any planned trees to be planted under HKBCF to be felled under the Project shall be compensated within the Project boundary or off-site within the Airport Island (i.e. within area of approx. 6.2km), in accordance with DevB TCW No. 7/2015 — Tree Preservation. The compensatory planting shall be of a ratio not less than 1:1 in terms of number, i.e. the number of compensatory trees shall not be lower than that of the number of trees to be felled. Justification shall be provided if tree compensation requirement could not be met. For trees to be compensated on slopes, the guidelines for tree planting stipulated in GEO Publication No. 1/2011 will be followed.	N/A
S8.9.2	S7.3.1	Control of night-time lighting glare: • Any lighting provision of the construction works at night shall be carefully control to prevent light overspill to the nearby VSRs and into the sky.	N/A
\$8.9.2	S7.3.1	 <u>Erection of Decorative Screen Hoarding:</u> Decorative Hoarding, which is compatible with the surrounding settings, shall be erected during construction to minimise the potential landscape and visual impacts due to the construction works and activities. 	N/A
S8.9.2	S7.3.1	Management of Construction Activities and Facilities: • The facilities and activities at works sites and areas, which include site office, temporary storage areas, temporary works etc., shall be carefully managed and controlled on the height, deposition and arrangement to minimise any potential adverse landscape and visual impacts.	N/A
S8.9.2	S7.3.1	Reinstatement of Temporarily Disturbed Landscape Areas: • All hard and soft landscape areas disturbed temporarily during construction shall be reinstated on like-to-like basis, to the satisfaction of the relevant Government Departments.	N/A
\$8.9.2	S7.3.1	Aesthetically Pleasing Design of Aboveground / Above-sea Structures: The proposed structures in regard of layouts, forms, materials and finishes shall be sensitively designed so as to blend in the structures to the adjacent landscape and visual context.	N/A
\$8.9.2	S7.3.1	Provision of Amenity Planting: • Amenity planting, including groundcover and trees shall be provided to soften the proposed above-ground structures on HKBCF as far as appropriate.	N/A

Notes:

Yes = Implemented where applicable

No = Not implemented

Obs/Rem = Observations or reminders were issued, and items were rectified

N/A = Not applicable to the construction works implemented during the reporting period

^ Checked by ET through site inspection and record provided by the Contractor.