

Airport City Link

Monthly EM&A Report for January 2024

February 2024

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Airport Authority Hong Kong

Airport City Link

Monthly EM&A Report for January 2024

February 2024

This Submission of Construction Phase Monthly Environmental Monitoring and Audit (EM&A) Report for January 2024

has been reviewed and certified by

the Environmental Team Leader (ETL) in accordance with

Condition 3.5 of Environmental Permit No. EP-581/2020 and

Section 11.2 of the EM&A Manual of the Project.

Certified by:

Ir Thomas Chan

Environmental Team Leader (ETL)
Mott MacDonald Hong Kong Limited

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Date 14 February 2024



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By Email

Capital Works Management Department Level 6, HKIA Tower 2, 15 Cheong Tat Road, Hong Kong International Airport, Lantau, Hong Kong

Attn: Collin Chan (Manager, Civil)

14 February 2024

Dear Sir,

Contract C21C02 - Independent Environmental Checker Consultancy Services for Airport City

Monthly Environmental and Audit (EM&A) Report for January 2024

Reference is made to the Environmental Team's submission of Monthly EM&A Report for January 2024 in accordance with Condition 3.5 of the Environmental Permit (No: EP-581/2020) and Section 11.2 of the EM&A Manual of the Project certified by the ET Leader on 14 February 2024.

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-581/2020.

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

In July 2020, a Project Profile (PP) (Register No.: PP-606/2020) of the Airport City Link (ACL) (hereinafter as "the Project") was submitted for the application for permission to apply directly for an Environmental Permit (EP), which was approved by Environmental Protection Department (EPD) in August 2020. The EP of the Project (EP No.: EP-581/2020) was obtained in October 2020.

On 10 June 2021, Mott MacDonald Hong Kong Limited (MMHK) was commissioned by Airport Authority Hong Kong (AAHK) to provide Environmental Team (ET) consultancy services for the implementation of an Environmental Monitoring and Audit (EM&A) programme of the Project in accordance with the EP requirements throughout the Pre-construction, Construction and Post-construction phases.

The construction phase EM&A programme of the Project started on 26 July 2022. The construction of marine section was commenced on 26 July 2022, while the construction of the land section was commenced on 20 February 2023.

This is the 18th 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 31 January 2024.

Key Construction Works in the Reporting Period

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

Marine Section

- Plant mobilization and material delivery for works
- Marine pier construction works
- Segment construction works
- Bridge deck construction works

Land Section

- GI works
- Underground utilities diversion work
- Bored pile work
- Socketed H-Pile
- Pile cap
- ELS
- Water mains installation
- Tower crane installation

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
Post-construction water quality monitoring	5
Weekly environmental site inspections (Marine Section)	5

Weekly environmental site inspections (Land Section)

Breaches of Action and Limit Levels

Water Quality

The post-construction water quality monitoring was completed during the reporting period and the results for dissolved oxygen (DO), turbidity and suspended solids (SS) will be reported in the Final EM&A Review Report under this Project.

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:

Marine Section

- Plant mobilization and material delivery
- Marine pier construction works
- Segment construction works
- Bridge deck construction works

Land Section

- GI works
- Underground utilities diversion work
- Bored pile work
- Socketed H-Pile
- Pile cap
- ELS
- Water mains installation
- Tower crane installation

1 Introduction

1.1 Background

In July 2020, a Project Profile (PP) (Register No.: PP-606/2020) of the Airport City Link (ACL) (hereinafter as "the Project") was submitted for the application for permission to apply directly for an Environmental Permit (EP), which was approved by Environmental Protection Department (EPD) in August 2020. The EP of the Project (EP No.: EP-581/2020) was obtained in October 2020.

The Project is situated between the Airport Island and Hong Kong Port (HKP) Island, at the south of existing SkyPier on the Airport Island. To enhance vehicular mobility and walkability between HKP Island and the SKYCITY, the Project serves as a connection bridge providing shuttle services and pedestrian pathway.

The construction for the Project consists of a marine section in a marine area between the Airport Island and HKP Island, and a land section on the Airport Island and HKP Island. The connection bridge comprises of approximately 400m long marine section and 450m long land section. The construction works of marine section will be carried out by marine works Contractor, while the construction works of land section will be carried out by land works Contractor.

On 10 June 2021, Mott MacDonald Hong Kong Limited (MMHK) was commissioned by Airport Authority Hong Kong (AAHK) to provide Environmental Team (ET) consultancy services for the 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.

The construction phase EM&A programme of the Project started on 26 July 2022. The construction of marine section was commenced on 26 July 2022, while the construction of the land section was commenced on 20 February 2023.

This is the 18^h Monthly EM&A report summarising the key findings of the construction phase EM&A programme from 1 to 31 January 2024 (the reporting period) and is submitted to fulfil requirements in Condition 3.5 of EP and Section 11.2 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

Party	Position	Name	Telephone
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 – Marine Section	Senior Project Manager	Brian Ho	9041 7535
(Gammon Engineering & Construction Company Limited)	Environmental Officer	Elena Lai	6841 3324
Main Contractor – Land Section	Project Manager	Kingsley Chiang	9424 8437
(China State Construction Engineering (HK) Ltd.)	Senior Environmental Officer	William Chan	5408 3045

1.3 Construction Works Programme and Construction Works Area

The construction phase EM&A programme of the Project started on 26 July 2022. The construction of marine section was commenced on 26 July 2022, while the construction of the land section was commenced on 20 February 2023.

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:

Marine Section

- Plant mobilization and material delivery for works
- Marine pier construction works
- Segment construction works
- Bridge deck construction works

Land Section

- GI works
- Underground utilities diversion work
- Bored pile work
- Socketed H-Pile
- Pile cap
- ELS
- Water mains installation
- Tower crane installation

2 Water Quality

2.1 Baseline Water Quality Monitoring

As stipulated in the EM&A Manual, the construction activities under sea water level for the Project will commence in a month after completion of that of Intermodal Transfer Terminal Bonded Vehicular Bridge (ITT-BVB). Therefore, it is likely that the period for baseline monitoring would overlap with the construction activities under sea water level of ITT-BVB, which may influence the baseline water quality for the Project.

Since the baseline monitoring of ITT-BVB project has been carried out at the same proposed baseline monitoring locations of the Project during 15 August 2019 – 10 September 2019, and 28 November 2019 – 24 December 2019 covering both dry and wet seasons, which was carried out before any marine construction activities in the vicinity of the Project. Hence, the baseline monitoring data from ITT-BVB would be the most recent and representative to the baseline condition of the water quality in the vicinity of the Project without any interference. Thus, the baseline monitoring data from ITT-BVB would be adopted for the Project.

ET submitted the baseline monitoring report of the Project on 12 November 2021 and EPD expressed no comment on 24 November 2021.

2.2 Impact Water Quality Monitoring

2.2.1 Monitoring Requirement

The impact water quality monitoring was conducted three days per week at mid-flood and midebb tides, at 5 water quality monitoring stations when there are marine works below seawater level of the Project. Samples were taken at three depths, namely, 1m below water surface, middepth 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.

2.2.2 Monitoring Locations

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 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.

2.2.4 Monitoring Schedule for the Reporting Period

With the completion of marine works below seawater level on 15 December 2023, the impact water quality monitoring was terminated after 15 December 2023. Therefore, no impact monitoring was scheduled for this reporting month and no impact monitoring results are reported in this report.

2.2.5 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)	2

2.2.6 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**.

2.2.7 Laboratory Measurement / Analysis

Analysis of SS was conducted 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 of ITT-BVB. 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 Post-Construction Water Quality Monitoring

2.4.1 Monitoring Requirement, Locations and Parameters

The post-construction water quality monitoring of the Project is scheduled to be conducted after completion of the construction activities under seawater level of the Project.

On 24 November 2023, notification was made to the EPD on the termination of Impact Water Quality Monitoring and implementation of post-construction monitoring, with further update sent on 5 December 2023. With the completion of marine works below seawater level on 15 December 2023, the impact water quality monitoring was terminated after 15 December 2023 and the post-construction water quality monitoring was commenced on 16 December 2023 and completed on 12 January 2024.

The monitoring location and parameters are in the same manner as the impact monitoring, and details could be referred to **Section 2.2**.

2.4.2 Monitoring Schedule for the Reporting Period

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

2.5 Water Quality Monitoring Results

2.5.1 Impact Water Quality Monitoring

No impact water quality monitoring was scheduled for this reporting month and therefore no impact monitoring results are reported in this report.

2.5.2 Post-Construction Water Quality Monitoring

The post-construction water quality monitoring results for dissolved oxygen (DO), turbidity and suspended solids (SS) were obtained during the reporting period; detailed post-construction monitoring results and relevant graphical plots are presented in **Appendix G**.

2.6 Conclusion

The post-construction water quality monitoring was completed during the reporting period.

While the marine works under seawater level of the Project have been completed, 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 for marine and land section 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 Contractors together with the appropriate recommended mitigation measures where necessary.

Marine Section

During the reporting period, site inspections were carried out on 2, 9, 16, 23 and 30 January 2024 for marine section. Joint IEC site inspection for marine section was carried out on 16 January 2024. Monthly landscape and visual site audit was carried out on 16 January 2024.

Land Section

During the reporting period, site inspections were carried out on 3, 8, 15, 22 and 29 January 2024 for land section. Joint IEC site inspection for land section was carried out on 15 January 2024. Monthly landscape and visual site audit was carried out on 15 January 2024.

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

Marine Section				
Inspection Date	Key Observations / Reminders	Recommendations / Actions	Close-Out Date	
2 Jan 2024	Chemical containers were observed without drip tray at Gammon No. 38 and TPSO container area.	The Contractor should provide drip trays for the chemical containers to prevent any potential spillage.	9 Jan 2024	
2 Jan 2024	Idle grouting station was observed without shelter or enclosure. (Reminder)	The Contractor was reminded to provide shelters at 3 sides and the top for the grouting station when operation as dust suppression measure.	2 Jan 2024	
9 Jan 2024	Oil drum was observed without drip tray at Gammon No. 39.	The Contractor should provide a drip tray for the oil drum to prevent any potential spillage.	16 Jan 2024	
9 Jan 2024	Some C&D materials in a drain were observed. (Reminder)	The Contractor was reminded to provide regular cleaning for the drain.	9 Jan 2024	
16 Jan 2024	Stockpile of over 20 bags of cement at Pier 5 and Gammon No. 38 were not covered.	The Contractor should cover the cement bags entirely with impervious sheeting or place them in an area sheltered on the top and three sides to reduce potential dust emission.	23 Jan 2024	
16 Jan 2024	General refuse was not properly disposed at Pier 4.	The Contractor should dispose of the general refuse at the designated point to maintain good housekeeping.	23 Jan 2024	

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16 Jan 2024	Idle grouting station was observed without shelter or enclosure.	The Contractor was reminded to provide shelters at 3 sides and the top for the grouting station when	16 Jan 2024
	(Reminder)	operation as dust suppression measure.	
30 Jan 2024	Chemical containers were observed without drip tray at Gammon No. 23 and Yat Wui 288.	The Contractor should provide drip trays for the chemical containers to prevent any potential spillage.	Ongoing
30 Jan 2024	Materials located on temporary platform at Pier 5 were at risk of falling into the sea. (Reminder)	The Contractor was reminded to avoid any materials from falling into the sea while conducting material cutting works at temporary platform at Pier 5.	30 Jan 2024
Land Section	l		
Inspection Date	Key Observations / Reminders	Recommendations / Actions	Close-Out Date
29 Dec 2023	Wastewater in settling chamber was observed turbid. No discharge was observed during site inspection.	The Contractor should retreat the wastewater in settling chamber and ensure discharge quality could meet the discharge licence requirement.	3 Jan 2024
29 Dec 2023	Seepage of wastewater from cement truck washing operation to the covered gully was observed.	The Contractor should enhance the protection measure and properly cover the gully to prevent any wastewater from entering the public drain. Also, the Contractor should review the arrangement of wastewater collection from cement truck washing operation.	3 Jan 2024
29 Dec 2023	Oil stain was observed at which oil drums were removed.	The Contractor should remove the oil stain and treat as chemical waste disposal.	8 Jan 2024
29 Dec 2023	The haul road was observed dry.	The Contractor should provide regular water spraying to prevent fugitive dust emission during vehicular movement.	3 Jan 2024
3 Jan 2024	No signage for general fill was displayed at the marine sediment storage area.	The Contractor should display signages to clearly define areas for treated and untreated marine sediment and general fill.	8 Jan 2024
3 Jan 2024	Stockpile of inert material was observed at the storage area for untreated marine sediment.	The Contractor should separate the storage of inert materials from untreated marine sediment.	8 Jan 2024
3 Jan 2024	Oil stain was observed on the ground.	The Contractor should clear the oil stain and dispose it as chemical waste.	8 Jan 2024
3 Jan 2024	No protection measure was provided for the gully at site entrance/exit.	The Contractor should cover the gully to prevent any construction debris and wastewater from entering the public drainage system.	8 Jan 2024
3 Jan 2024	No noise emission label was displayed on the hand-held breaker.	The Contractor should display valid noise emission label on the hand-held breaker during operation.	8 Jan 2024
3 Jan 2024	The discharge point was not properly protected with bunding.	The Contractor should provide bunding for the discharge point to prevent any site runoff from entering the public drainage system.	8 Jan 2024

3 Jan 2024	Wastewater in the settling	The Contractor should provide	8 Jan 2024
3 Jan 2024	chamber was observed turbid.	The Contractor should provide sufficient capacity of wastewater treatment facilities and provide regular maintenance to ensure discharge quality could meet the discharge licence requirement.	8 Jan 2024
3 Jan 2024	Insufficient facilities to collect leachates from untreated marine sediment were observed. (Reminder)	The Contractor was reminded to set up the collection pit and water pump for collection of leachates from untreated marine sediment.	3 Jan 2024
8 Jan 2024	No protection measure was provided for the gully.	The Contractor should cover the gully to prevent any construction materials and site runoff from entering the public drainage system.	15 Jan 2024
8 Jan 2024	Dusty materials was observed at the site entrance/exit.	The Contractor should provide cleaning and keep the public road clear of dusty materials.	15 Jan 2024
8 Jan 2024	Oil stain was observed underneath the breaker head.	The Contractor should clear the oil stain and provide preventive measure for holding the breaker head.	15 Jan 2024
8 Jan 2024	Construction materials were placed on the existing U channel.	The Contractor should remove the construction materials and prevent any materials from falling into the U channel.	15 Jan 2024
15 Jan 2024	The capacity of drip tray provided for the air compressor was insufficient.	The Contractor should replace the drip tray with adequate capacity.	22 Jan 2024
15 Jan 2024	No noise emission label was displayed on the air compressor.	The Contractor should display valid noise emission label on the air compressor during operation.	22 Jan 2024
15 Jan 2024	No dust screen was provided for the cement silo.	The Contractor should provide dust mitigation measures for the debagging area.	22 Jan 2024
15 Jan 2024	No drip tray was provided for the oil drum.	The Contractor should provide drip tray for the oil drum to prevent oil spillage.	22 Jan 2024
15 Jan 2024	Bunding for the public drain was damaged and debris were found at the drain.	The Contractor should provide cleaning and reinstate the bunding for preventing any muddy runoff and construction materials from entering the public drain.	22 Jan 2024
15 Jan 2024	Construction materials were placed on the slope.	The Contractor should clear the materials to prevent any materials from falling into the sea.	22 Jan 2024
15 Jan 2024	No valid NRMM label was displayed on a crane. (Reminder)	The Contractor was reminded to display valid NRMM label on the crane for inspection.	15 Jan 2024
22 Jan 2024	No flow meter was installed at the wastewater treatment facility.	The Contractor should provide a flow meter for the wastewater treatment facility to ensure compliance with the discharge licence.	29 Jan 2024
29 Jan 2024	Oil spill was observed at the sheet piling works area.	The Contractor should clear the oil spill and dispose it as chemical waste.	Ongoing

Land Section					
29 Jan 2024	No protection measure was provided for the gully near the site exit.	The Contractor should cover the gully to prevent any silty runoff from entering the public drainage system.	Ongoing		
29 Jan 2024	Tire track was observed at the site entrance/exit.	The Contractor should provide proper wheel washing for all vehicles leaving the site and keep public road clear of dust.	Ongoing		

3.2 Advice on the Solid and Liquid Waste Management Status

The Contractors were registered as chemical waste producers 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 Contractors were 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 for marine and land section are 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 Contractors 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 Contractors where actions were taken by the Contractors to rectify the identified issues.

3.4 Summary of Exceedance of the Environmental Quality Performance Limit

Water Quality

The post-construction water quality monitoring results for dissolved oxygen (DO), turbidity and suspended solids (SS) were obtained during the reporting period.

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 (Jan 2024)	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 Contractors, the major construction activities for the next reporting period (February 2024) are summarized in **Table 4.1.**

Table 4.1: Construction Activities for the Next Reporting Period

Marine Section	
Period	Description of Activities
Feb 2024	 Plant mobilization and material delivery Marine pier construction works Segment construction works Bridge deck construction works
Land Section	
Period	Description of Activities
Feb 2024	 GI works Underground utilities diversion work Bored pile work Socketed H-Pile Pile cap ELS Water mains installation Tower crane installation

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

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

No water quality monitoring is scheduled for the next reporting period, with all post-construction monitoring being completed.

5 Conclusions

General

The construction works for the Project commenced on 26 July 2022. 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

The post-construction water quality monitoring results for dissolved oxygen (DO), turbidity and suspended solids (SS) were obtained during the reporting period.

Environmental Site Inspections

Environmental site inspections were carried out 5 times for marine section and 5 times for land section during the reporting period. Recommendations on remedial actions were given to the Contractors 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

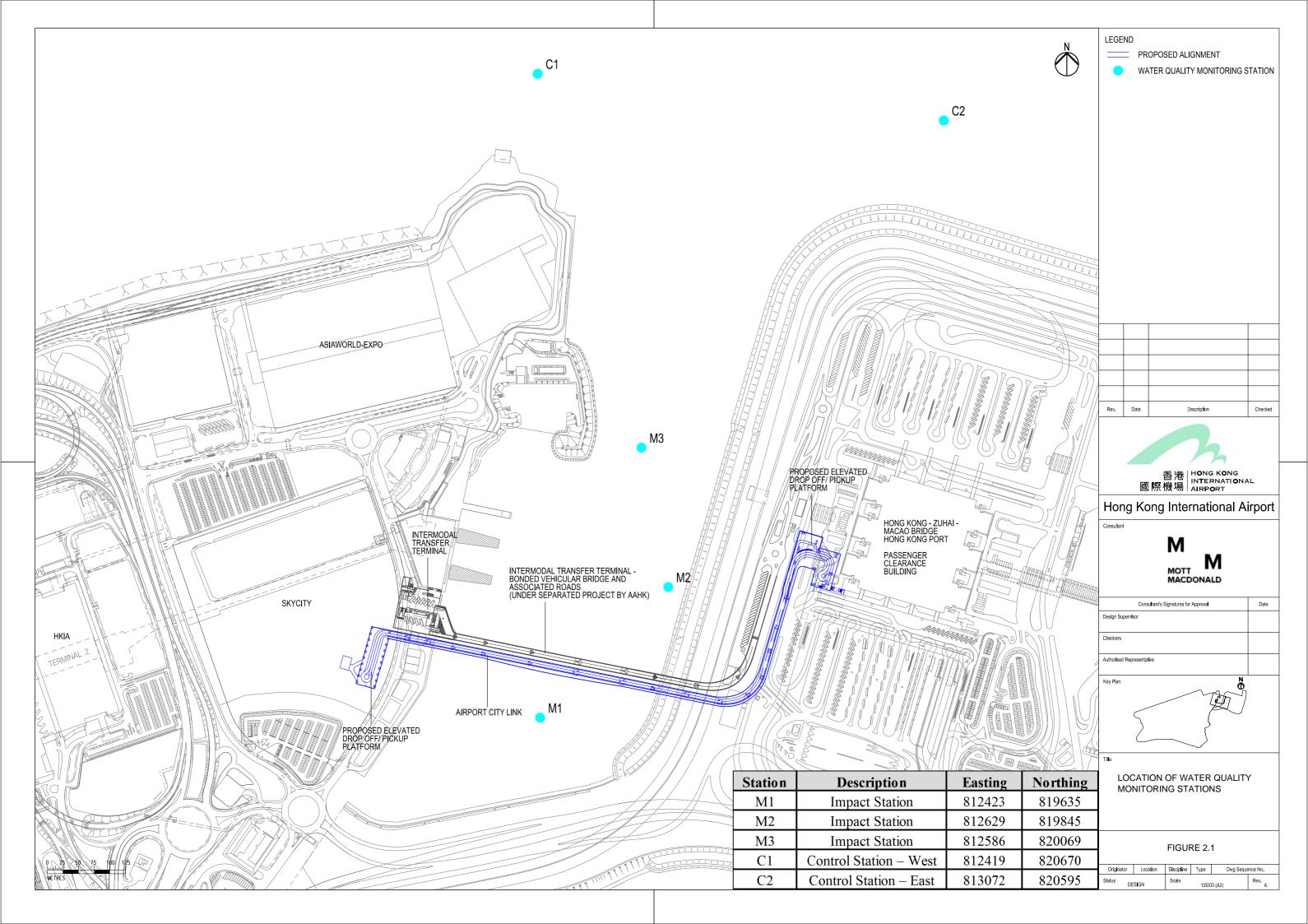
There was no reporting change during the reporting period.

Notifications of Summons and Successful Prosecutions

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

Figure

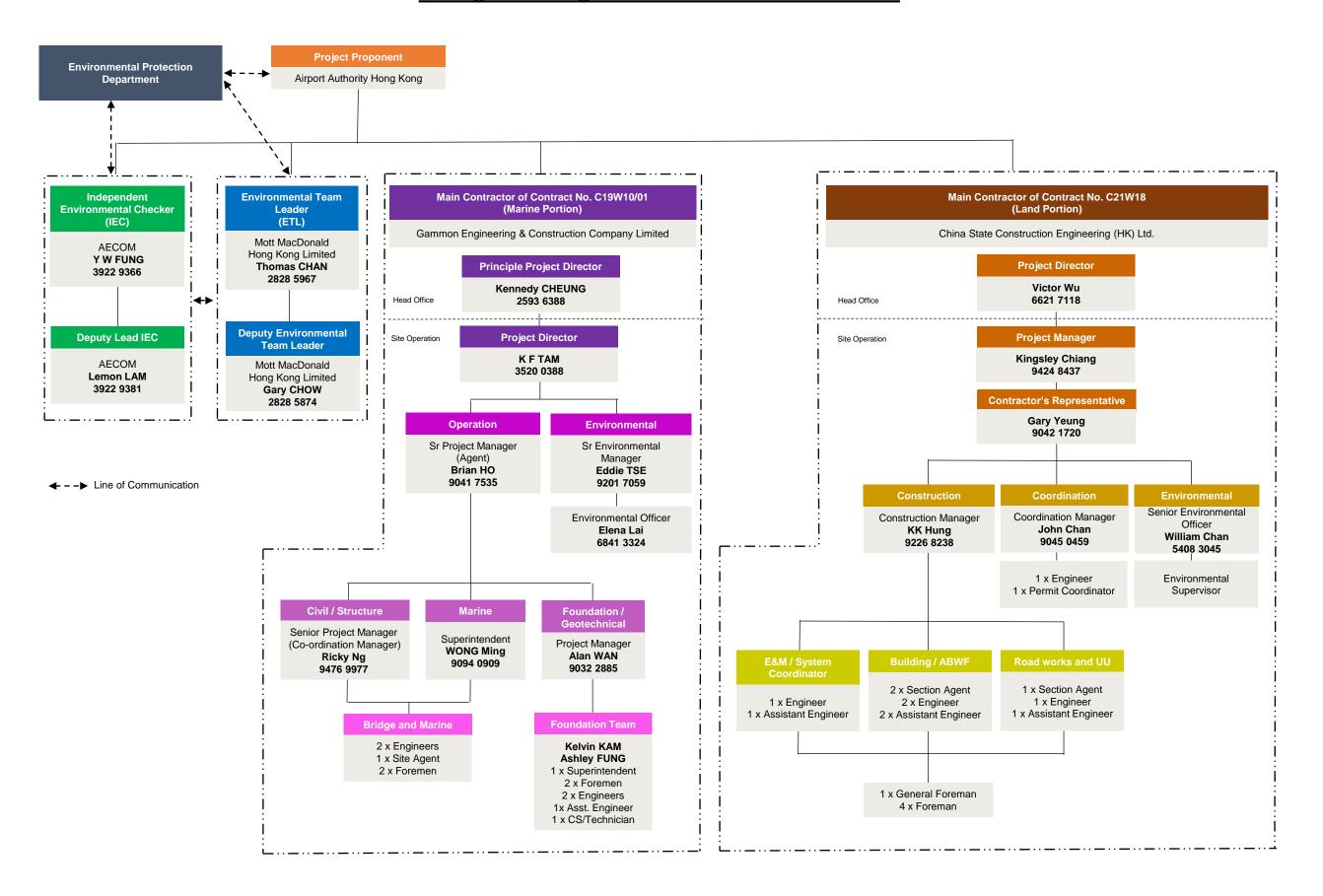
Figure 2.1 Water Quality Monitoring Locations



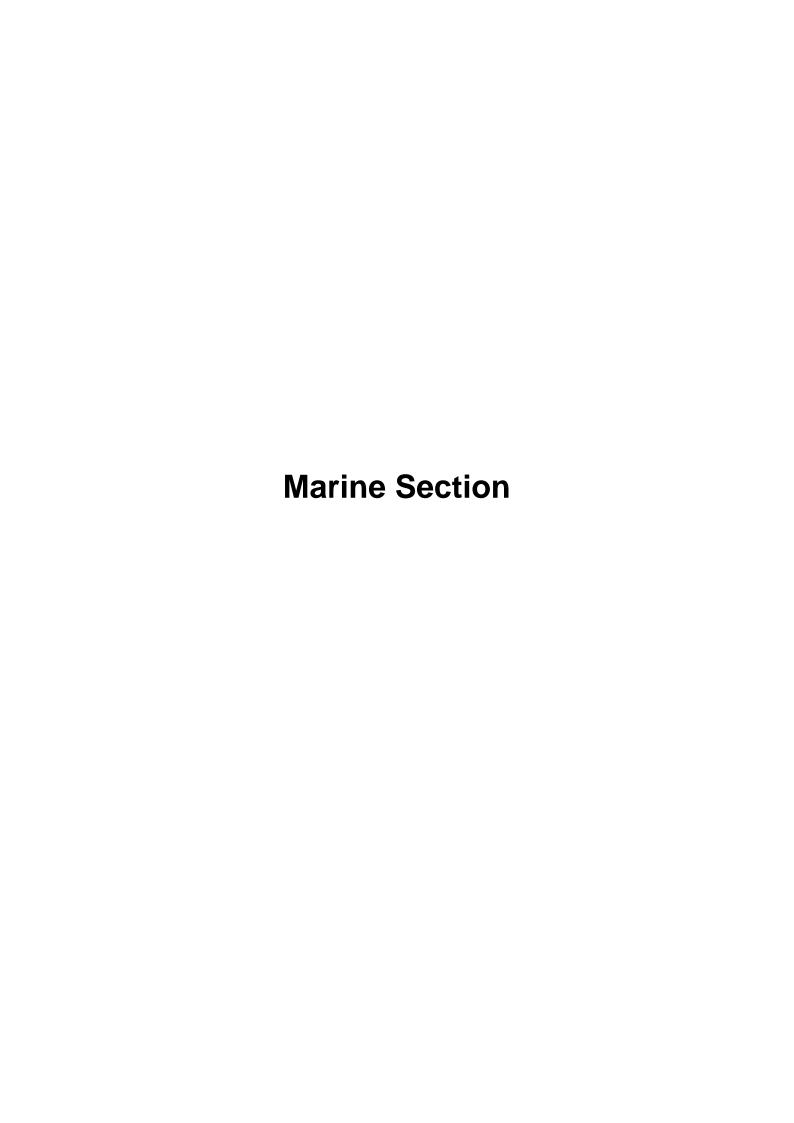
Appendices

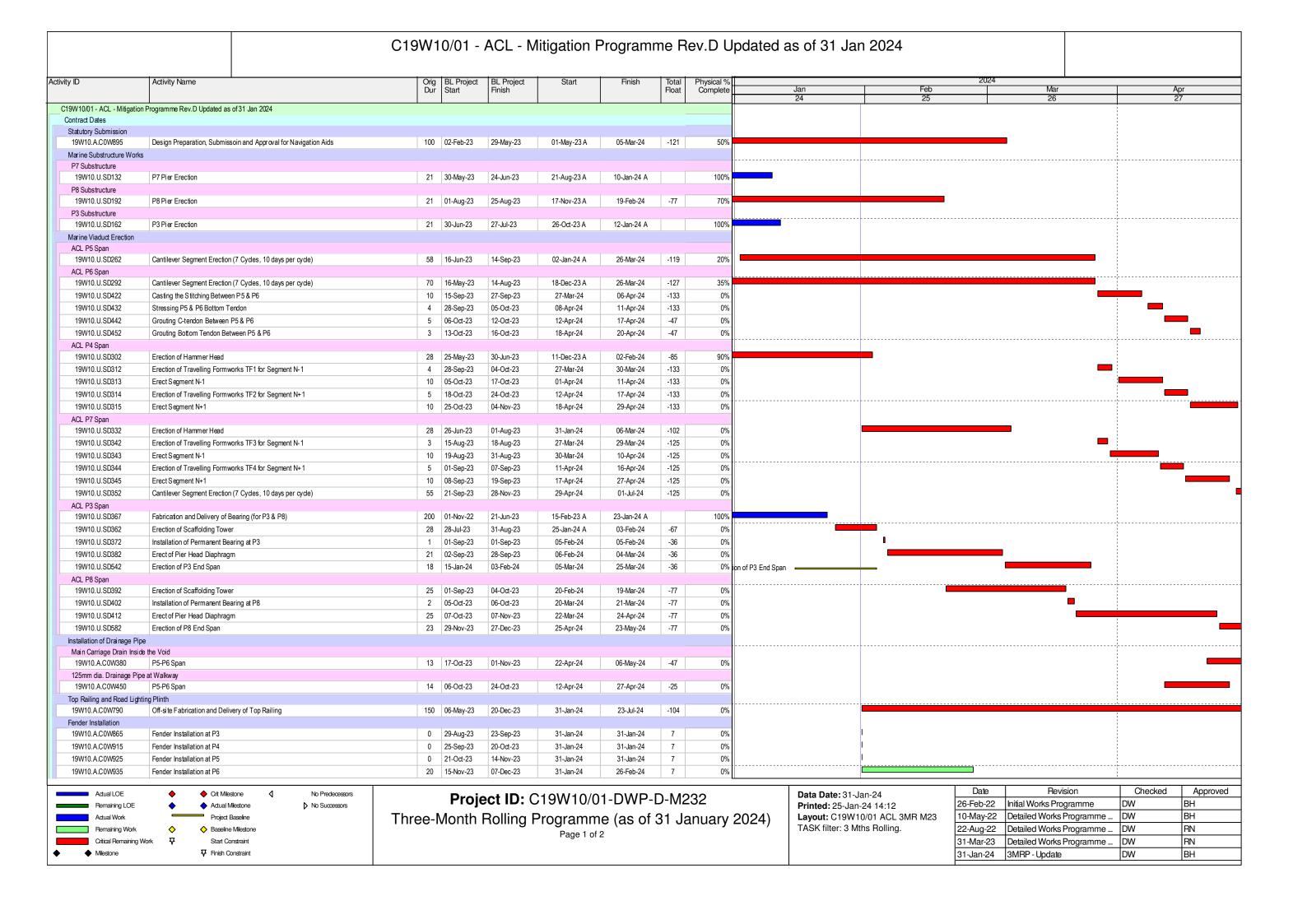
Appendix A. Project Organisation

Management Organizations for EP Condition 2.3

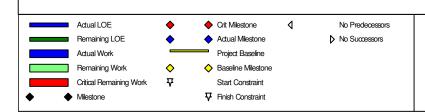


Appendix B. Construction Works Programme





C19W10/01 - ACL - Mitigation Programme Rev.D Updated as of 31 Jan 2024 Activity ID Orig BL Project Dur Start BL Project Finish Total Float Physical % Complete Activity Name Start Finish Mar 03-Jan-24 19W10.A.C0W945 27-Feb-24 20-Mar-24 0% Fender Installation at P7 20 08-Dec-23 7 19W10.A.C0W955 0 04-Jan-24 21-Mar-24 21-Mar-24 0% P8 Fender Installation at P8 26-Jan-24 Navigation Aids Installation 19W10.A.C0W875 Off-site fabrication and delivery 107 30-May-23 16-Oct-23 06-Mar-24 22-Jul-24 -114

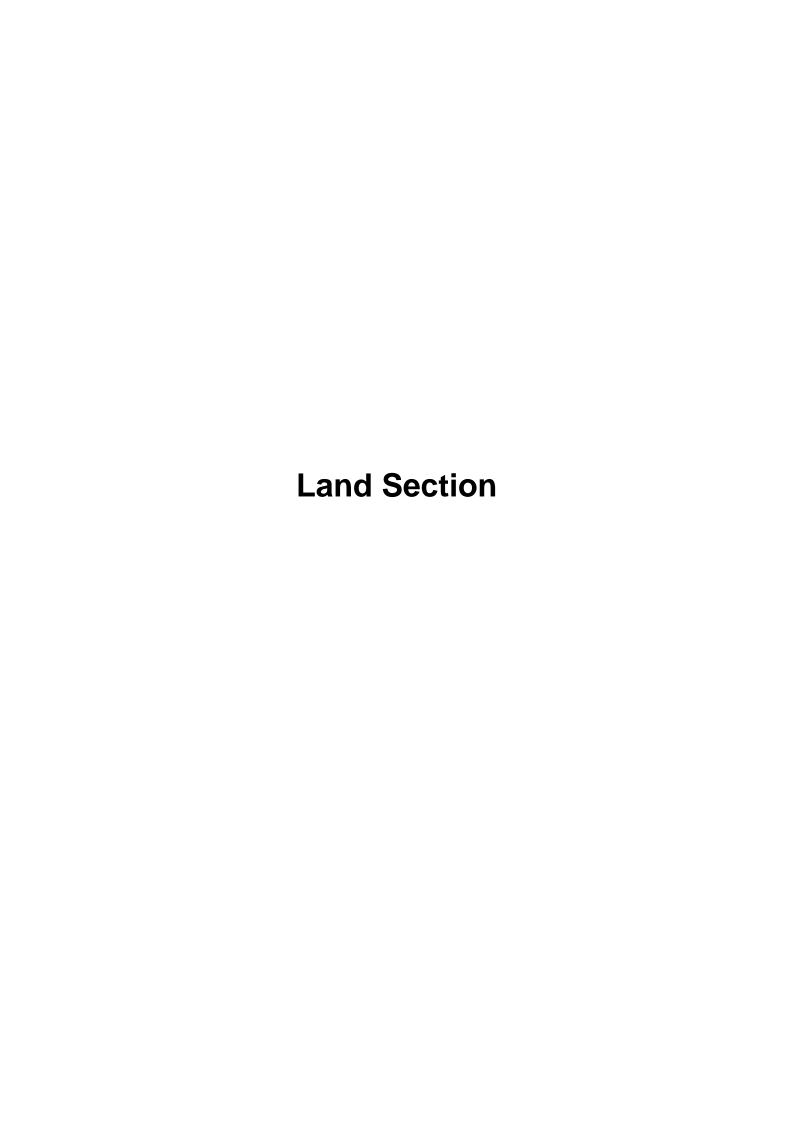


Project ID: C19W10/01-DWP-D-M232
Three-Month Rolling Programme (as of 31 January 2024)

Page 2 of 2

Data Date: 31-Jan-24
Printed: 25-Jan-24 14:12
Layout: C19W10/01 ACL 3MR M23
TASK filter: 3 Mths Rolling.

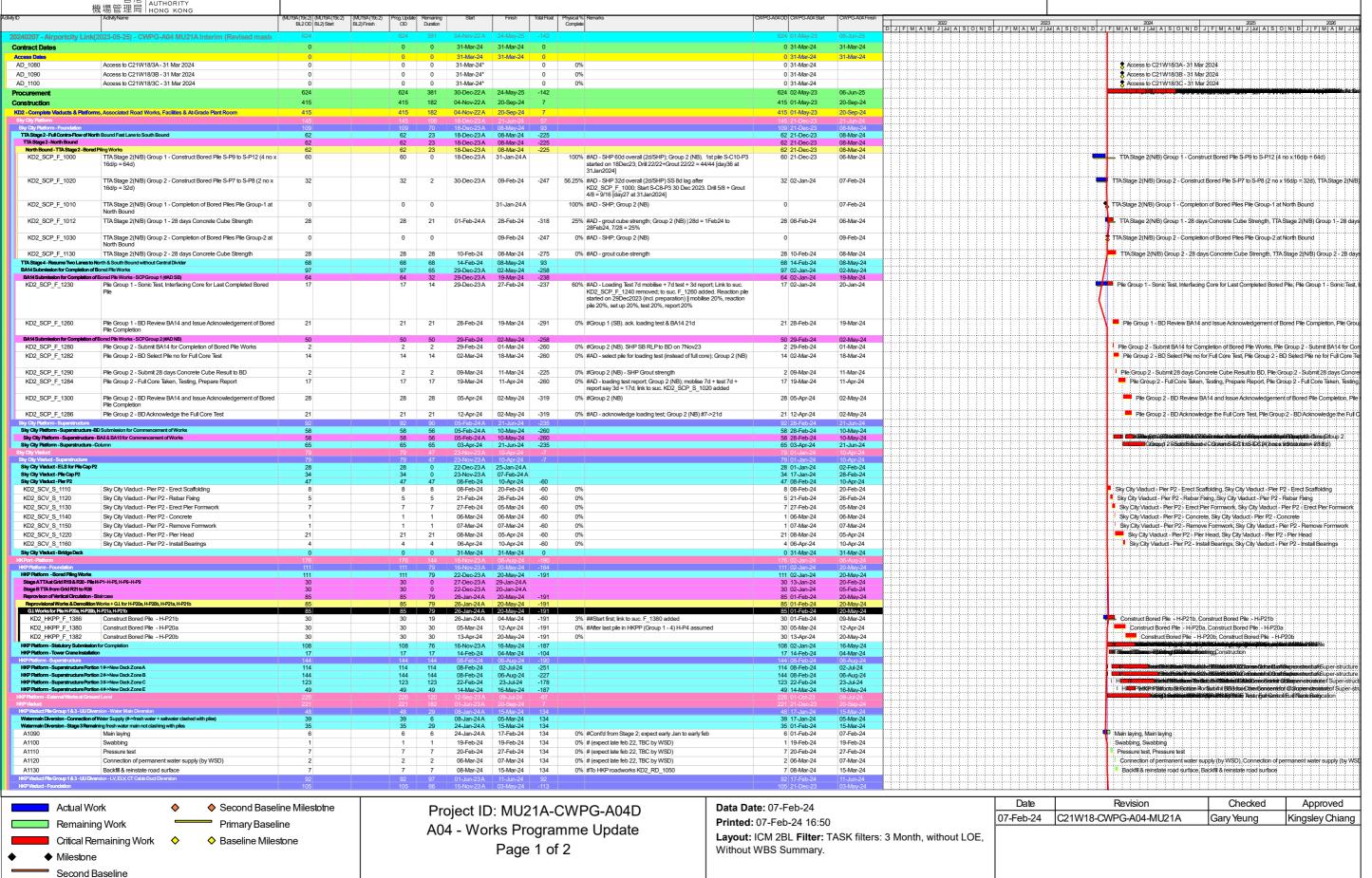
Date	Revision	Checked	Approved		
26-Feb-22	Initial Works Programme	DW	BH		
10-May-22	Detailed Works Programme	DW	BH		
22-Aug-22	Detailed Works Programme	DW	RN		
31-Mar-23	Detailed Works Programme	DW	RN		
31-Jan-24	3MRP - Update	DW	BH		

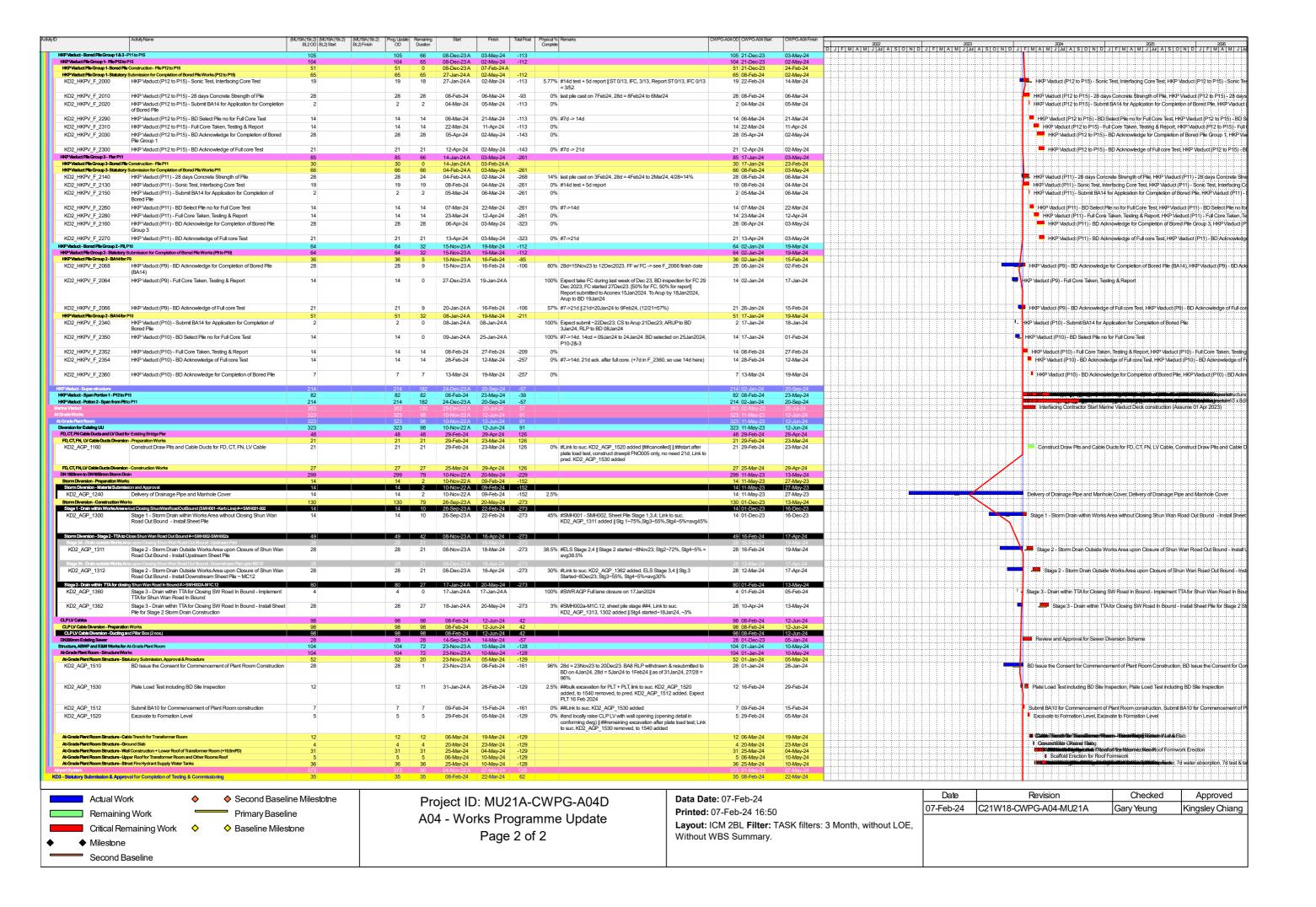




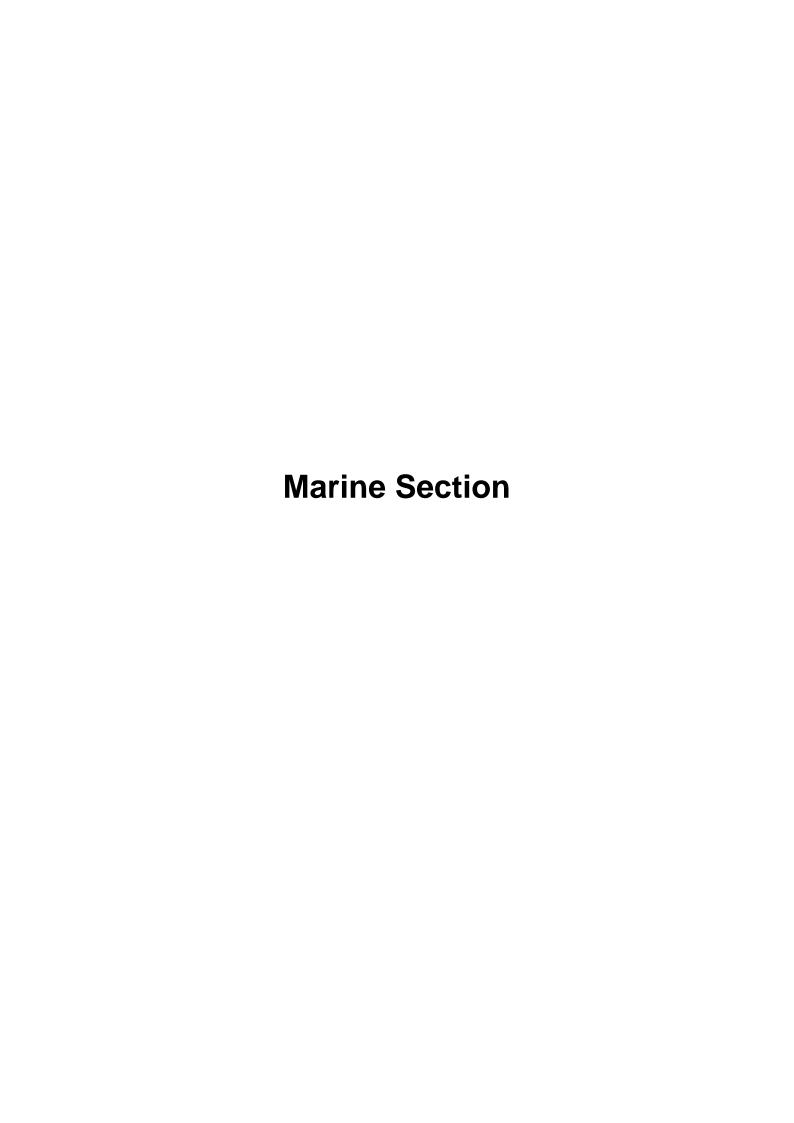
Contract C21W18 - Airportcity Link - Land Viaducts at Hong Kong Port and Airport Island MU21A - Works Programme Update (CWPG-A04) DD 07-Feb-24

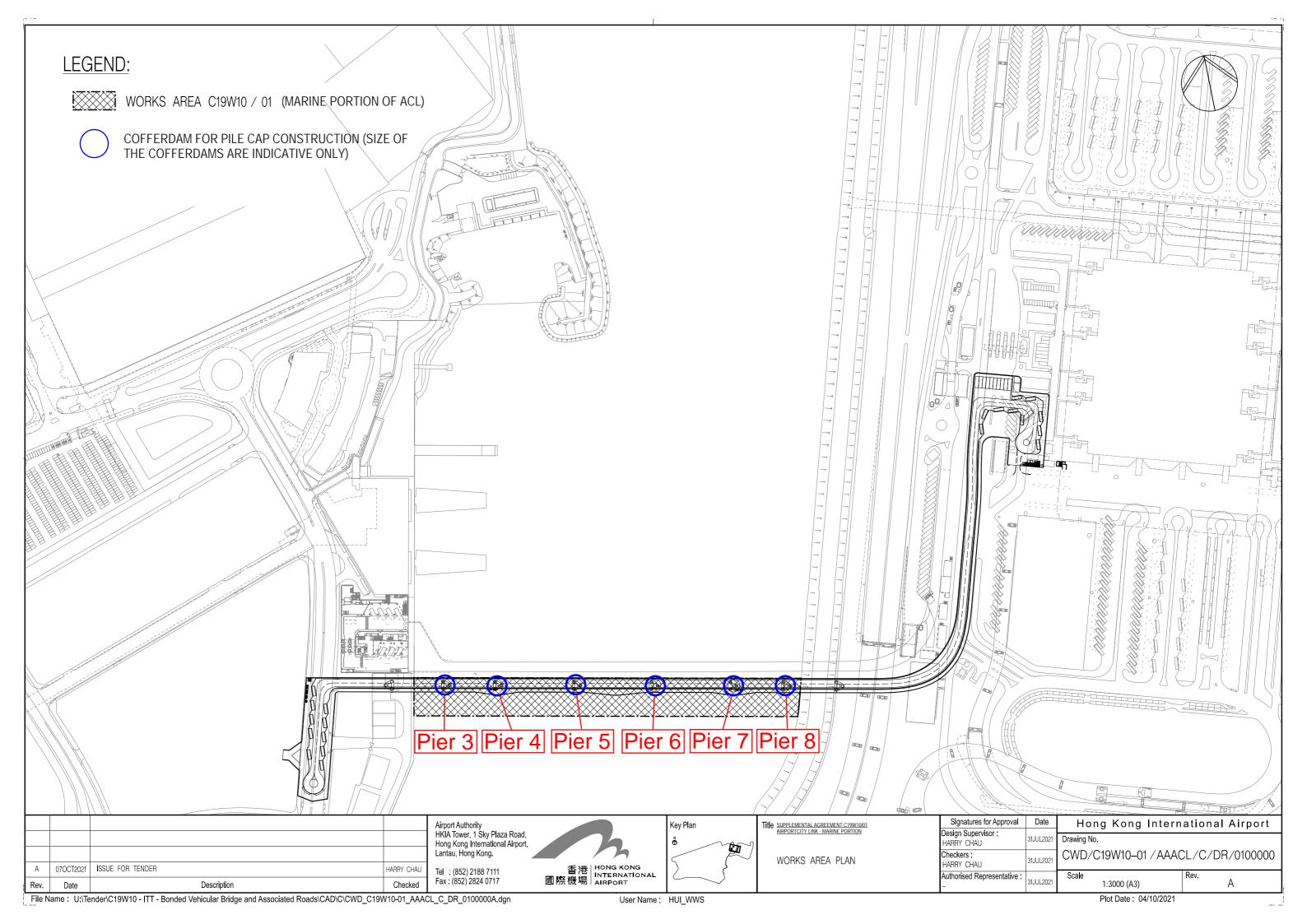


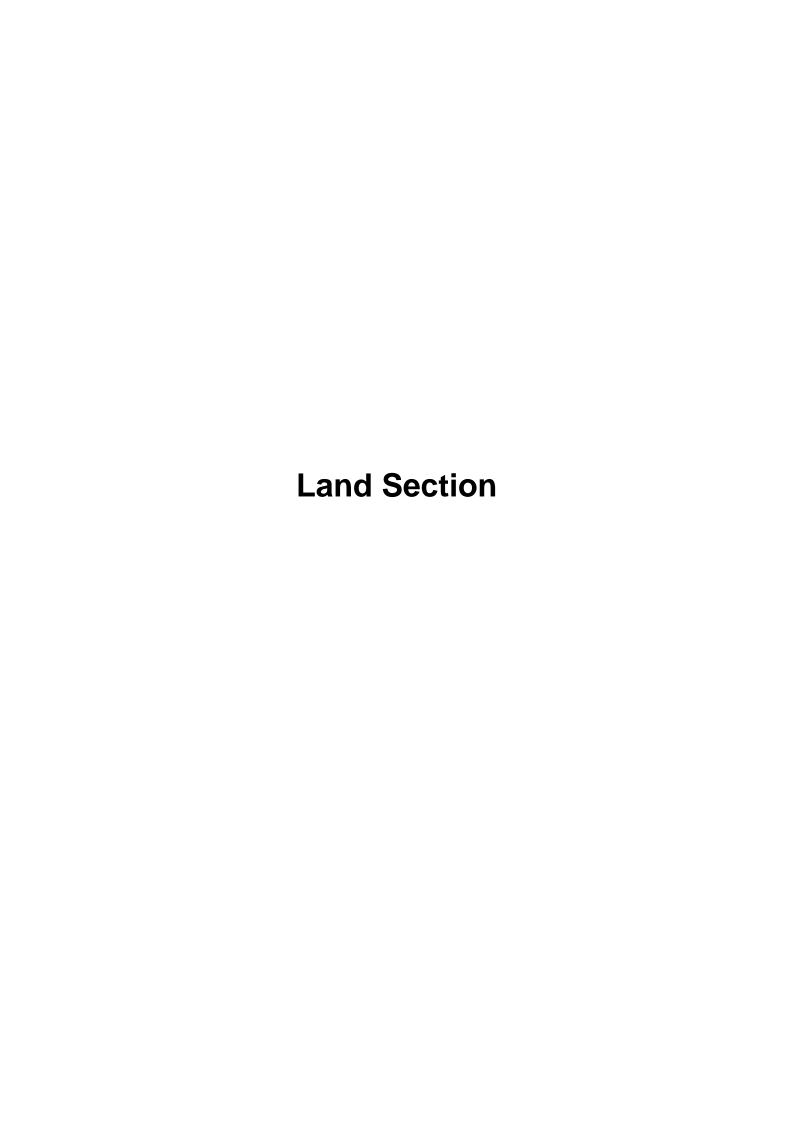


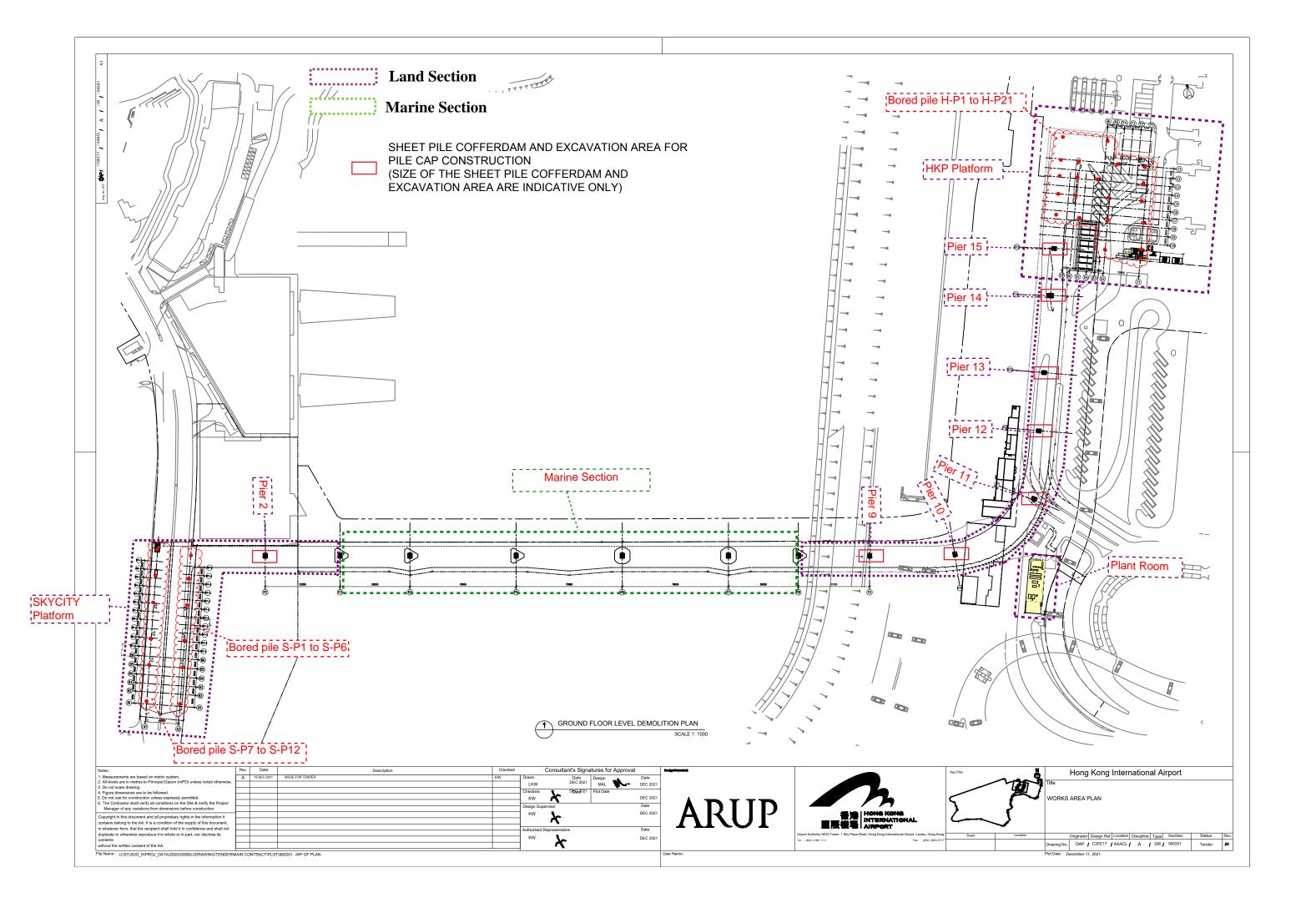


Appendix C. Construction Works Area









Appendix D. Environmental Site Inspection and Monitoring Schedule

ACL Environmental Monitoring and Site Inspection Schedule for Jan 2024

Jan-24

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6
			ACL (Land) Environmental Site Inspection			
		ACL (Marine) Environmental Site Inspection		(4)		40
		Post-construction WQM (1)		Post-construction WQM (1)		Post-construction WQM (1)
		mid- ebb: 17:11		mid- ebb: 19:24		mid- ebb: 07:54
		mid- flood: 11:58		mid- flood: 13:09		mid- flood: 14:20
7	8	9	10	11	12	13
	ACL (Land) Environmental Site Inspection	ACL (Marine) Environmental Site Inspection		(4)		
		Post-construction WQM (1)		Post-construction WQM (1)		
		mid- ebb: 11:41		mid- ebb: 13:13		
		mid-flood: 16:28		mid-flood: 08:09		1
14	15	16	17	18	19	20
	ACL (Land) Environmental Site Inspection	ACL (Marine) Environmental Site Inspection				
21	22	23	24	25	26	27
21	ACL (Land) Environmental Site Inspection	ACL (Marine) Environmental Site Inspection	24	25	26	21
	ACE (Land) Environmental Site inspection	ACE (Marine) Environmental Site inspection				
28	29	30	31			
20	ACL (Land) Environmental Site Inspection	ACL (Marine) Environmental Site Inspection	.			
		Notes:				
		(1) The post-construction water	quality monitoring was terminate	ed on 12 January 2024.		

Feb-24

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	3
4	5	6	7	8	9	10
	ACL (Land) Environmental Site Inspection	ACL (Marine) Environmental Site Inspection				
11	12	13	14	15	16	17
			ACL (Land) Environmental Site Inspection			
			ACL (Marine) Environmental Site Inspection			
18	19	20	21	22	23	24
10	ACL (Land) Environmental Site Inspection	ACL (Marine) Environmental Site Inspection	21	22	25	24
		, ,				
25	26 ACL (Land) Environmental Site Inspection	27 ACL (Marine) Environmental Site Inspection	28	29		
	ACE (Early) Environmental Site hispection	ACE (Marine) Environmental Site inspection				
		Notes:				

Appendix E. Calibration Certificates



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

Unit 10, 5/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

Test Report No.

: R-BC090045

Date of Issue

: 15 September 2023

Page No.

: 1 of 2

PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.

Flat 2207, Yu Fun House Yu Chui Court, Shatin

New Territories (HK) Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment:

YSI ProDSS (Multi-Parameters)

Manufacturer:

YSI (a xylem brand)

Serial Number:

21K101468

Date of Received:

15 September 2023

Date of Calibration :

15 September 2023

Date of Next Calibration :

14 December 2023

Request No.:

D-BC090045

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter

Reference Method

pH value

APHA 21e 4500-H+ B

Temperature

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

2008: Working Thermometer Calibration Procedure

Salinity

APHA 21e 2520 B

Dissolved oxygen

APHA 23e 4500-O G (Membrane Electrode Method)

Turbidity

APHA 21e 2130 B (Nephelometric Method)

Conductivity

APHA 21e 2510 B

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.04	0.04	Satisfactory
7.42	7.50	0.08	Satisfactory
10.01	10.07	0.06	Satisfactory

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

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
12	12.0	0.0	Satisfactory
26	26.1	0.1	Satisfactory
39	38.9	-0.1	Satisfactory

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

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.94	-0.60	Satisfactory
20	20.09	0.45	Satisfactory
30	30.16	0.53	Satisfactory

Tolerance of Salinity should be less than \pm 10.0 (%)

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-ning Assistant Manager

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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Date of Issue

: 15 September 2023

Page No.

: 2 of 2

(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
7.97	8.27	0.30	Satisfactory
6.81	6.47	-0.34	Satisfactory
4.65	4.60	-0.05	Satisfactory
0.17	0.40	0.23	Satisfactory

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

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.10		Satisfactory
10	10.09	0.90	Satisfactory
20	18.88	-5.60	Satisfactory
100	96.8	-3.20	Satisfactory
800	820.31	2.50	Satisfactory

Tolerance of Turbidity should be less than \pm 10.0 (%)

(6) Conductivity

Expected Reading (μS/cm at 25°C)	Display Reading	Tolerance (%)	Result
146.9	151	2.79	Satisfactory
1412	1278	-9.49	Satisfactory
12890	12906	0.12	Satisfactory
58670	59334	1.13	Satisfactory
111900	112867	0.86	Satisfactory

Tolerance of Conductivity should be less than \pm 10.0 (%)

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 in this report 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 ---

Unit 10, 5/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

Test Report No.

: R-BC110058

Date of Issue

: 20 November 2023

Page No.

: 1 of 2

PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.

Flat 2207, Yu Fun House Yu Chui Court, Shatin

New Territories (HK) Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment:

YSI ProDSS (Multi-Parameters)

Manufacturer:

YSI (a xylem brand)

Serial Number:

21G105356

Date of Received:

17 November 2023

Date of Calibration:

17 November 2023

Date of Next Calibration :

16 February 2024

Request No.:

D-BC110058

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter

Reference Method

pH value

APHA 21e 4500-H+ B

Temperature

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

2008: Working Thermometer Calibration Procedure

Salinity

APHA 21e 2520 B

Dissolved oxygen

APHA 23e 4500-O G (Membrane Electrode Method)

Turbidity

APHA 21e 2130 B (Nephelometric Method)

Conductivity

APHA 21e 2510 B

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.08	0.08	Satisfactory
7.42	7.50	0.08	Satisfactory
10.01	10.04	0.03	Satisfactory

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

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
10	10.0	0.0	Satisfactory
22	22.0	0.0	Satisfactory
40	40.0	0.0	Satisfactory

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

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.93	-0.70	Satisfactory
20	20.13	0.65	Satisfactory

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

> LEE Chun-ning Assistant Manager

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

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Date of Issue

: 20 November 2023

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Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
30	30.26	0.87	Satisfactory

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

(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
8.26	8.11	-0.15	Satisfactory
2.46	2.49	0.03	Satisfactory
1.01	1.13	0.12	Satisfactory
0.00	0.10	0.10	Satisfactory

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

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.09		Satisfactory
10	9.92	-0.8	Satisfactory
20	19.83	-0.9	Satisfactory
100	98.45	-1.6	Satisfactory
800	798.20	-0.2	Satisfactory

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

(6) Conductivity

Expected Reading (μS/cm at 25°C)	Display Reading	Tolerance (%)	Result
146.9	147.0	0.07	Satisfactory
1412	1326	-6.09	Satisfactory
12890	12424	-3.62	Satisfactory
58670	57493	-2.01	Satisfactory
111900	111556	-0.31	Satisfactory

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

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	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. Repeat measurement on next day of exceedance.	mitigation measures submitted by Contractor and advise AAHK / PM accordingly; 3. Assess the effectiveness of the implemented	the proposed mitigation measures; 2. Make agreement on the mitigation measures to be implemented; 4. Assess the effectiveness of the implemented mitigation measures.	PM and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Consider changes of
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.	Contractor on the mitigation measures 2. Review proposals or mitigation measures submitted by Contractor and advise the AAHK / PM accordingly; 3. Assess the effectiveness of the implemented	 Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. 	PM and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment 4. Consider changes of
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 EPD Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, AAHK / PM and 	submitted by Contractor and advise the AAHK / PM accordingly; 3. Assess the effectiveness of the	and Contractor on the proposed mitigation measures: 2. Request Contractor to critically review the working methods; 3. Make agreement on the mitigation measures to be implemented; 4. Assess the	PM and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Consider changes of working methods; 5. Discuss with ET, IEC and AAHK / PM and propose mitigation

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

Appendix G. Monitoring Data and Graphical Plots

Water Quality Monitoring Results on 02 January 24 during Mid-Ebb Tide

Monitoring	Weather	Sea Condition	Sampling	Water Depth	Sampling Dep	th (m)	Water Te	emperature (°C)		рН	Salin	ity (ppt)	DO Satur	ation (%)	Dissolv Oxygen (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	19.2	19.2	8.0	8.0	30.7	30.7	95.3	95.2	7.3		1.2		3.2	
					Juliace	1.0	19.2	19.2	8.0	0.0	30.7	30.7	95.1	33.2	7.3	7.3	1.2		3.0	
C1	Fine	Calm	15:55	10.2	Middle	5.1	19.2	19.2	8.0	8.0	30.7	30.7	95.4	95.3	7.4	7.5	1.2	1.3	2.8	2.7
						5.1	19.2		8.0		30.7		95.1		7.3		1.2		2.5	,
					Bottom	9.2	19.2	19.2	8.0	8.0	30.6	30.7	95.6	95.4	7.4	7.4	1.4		2.3	,
						9.2	19.2	-	8.0		30.7		95.2		7.3		1.3		2.1	
					Surface	1.0	19.2	19.2	8.0	8.0	30.8	30.8	98.9	98.9	7.6		2.2		3.1	:
						1.0	19.2		8.0		30.8		98.9		7.7	7.7	2.2		3.5	:
C2	Fine	Calm	16:14	10.0	Middle	5.0 5.0	19.2 19.2	19.2	8.0	8.0	30.8	30.8	99.2 99.2	99.2	7.6 7.7		2.4	2.5	2.7 2.5	2.7
						9.0	19.2		8.0		30.8		99.4		7.7		3.0		2.5	
					Bottom	9.0	19.2	19.2	8.0	8.0	30.7	30.8	99.4	99.4	7.7	7.7	3.0		2.2	
						1.0	19.3		8.0		30.8		99.1		7.6	l 	1.9		3.2	
					Surface	1.0	19.3	19.3	8.0	8.0	30.8	30.8	98.4	98.8	7.6		2.0		3.4	
			40.00			-	-		-		-		-		-	7.6	-		-	
M1	Fine	Calm	16:08	4.4	Middle	-	-	-	-	-	-	-	-	-	-		-	2.1	-	3.6
					Dattom	3.4	19.3	19.3	8.0	8.0	30.8	30.8	99.3	99.1	7.6	7.6	2.3		3.7	
					Bottom	3.4	19.3	19.3	8.0	8.0	30.8	30.8	98.8	99.1	7.6	7.6	2.3		4.0	
					Surface	1.0	19.4	19.4	8.0	8.0	30.9	30.9	99.5	99.1	7.6		1.7		3.1	
					Odridec	1.0	19.4	13.4	8.0	0.0	30.9	00.0	98.7	55.1	7.6	7.6	1.8		3.3	
M2	Fine	Calm	16:05	5.4	Middle		-	-	-	_	-	_	-	_	-	7.0	-	1.9	-	3.4
				0			-		-		-		-		-		-		-	,
					Bottom	4.4	19.4	19.4	8.0	8.0	30.9	30.9	99.6	99.5	7.6	7.6	2.0		3.7	,
						4.4	19.4	-	8.0		30.9		99.3		7.6		2.0		3.4	
					Surface	1.0	19.3	19.3	8.0	8.0	30.8	30.8	98.5	97.8	7.6		2.1		4	:
						1.0	19.3		8.0		30.8		97.1		7.5	7.6	2.1		4	:
M3	Fine	Calm	16:01	7.2	Middle	3.6	19.3	19.3	8.0	8.0	30.8	30.8	98.7	98.2	7.6		2.2	2.3	4	3
						3.6	19.3		8.0		30.8		97.7		7.5		2.2		3	
					Bottom	6.2 6.2	19.3 19.3	19.3	8.0	8.0	30.8	30.8	99.1 98.1	98.6	7.6 7.5	7.6	2.5		3	
DA David	1	l .	<u> </u>	1		0.2	13.3		0.0		50.0		30.1	1	1.5	l	2.0		J	

DA: Depth-averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher Value exceeding Action Level is underlined; Value exceeding Limit Level is bolded and underlined

Water Quality Monitoring Results on 02 January 24 during Mid-Flood Tide

Monitoring	Weather	Sea Condition	Sampling		Sampling Dep	oth (m)		emperature (°C)		рН	Salin	ity (ppt)	DO Satur	ation (%)	Dissolv Oxygen (Turbidity((NTU)	Suspende (mg	
Station	Condition		Time	(m)	3 1	,	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA
					Surface	1.0	19.2	19.2	8.0	8.0	30.7	30.7	97.8	97.1	7.5		2.2		2.3	
					Surface	1.0	19.2	19.2	8.0	0.0	30.7	30.7	96.4	37.1	7.4	7.5	2.2		2.5	İ l
C1	Fine	Calm	10:43	10.0	Middle	5.0	19.2	19.2	8.0	8.0	30.8	30.8	98.3	97.6	7.6	7.5	2.6	2.8	2.6	2.8
	1 1110	Cum	10.10	10.0	Wildaic	5.0	19.2	13.2	8.0	0.0	30.7	50.0	96.8	37.0	7.5		2.6	2.0	2.8	1
					Bottom	9.0	19.3	19.3	8.0	8.0	30.8	30.8	98.7	98.0	7.6	7.6	3.5		3.1	1
					Bottom	9.0	19.2	10.0	8.0	0.0	30.7	00.0	97.2	30.0	7.5	7.0	3.5		3.4	
					Surface	1.0	19.3	19.3	7.9	7.9	30.8	30.8	94.4	94.4	7.3		1.1		2.7	1
						1.0	19.2		7.9		30.8		94.4		7.3	7.3	1.1		3.0	1
C2	Fine	Calm	10:25	10.8	Middle	5.4	19.3	19.3	7.9	7.9	30.8	30.8	94.4	94.4	7.3		1.3	1.4	2.6	2.6
						5.4	19.3		7.9		30.8		94.4		7.3		1.2		2.6	ŧ l
					Bottom	9.8 9.8	19.3 19.3	19.3	7.9 7.9	7.9	30.8	30.8	95.3 94.4	94.9	7.3 7.3	7.3	1.7 1.8		2.4	1
						1.0	19.3		8.0		30.8		98.5		7.6		1.0		2.4	
					Surface	1.0	19.3	19.3	8.0	8.0	30.8	30.8	97.7	98.1	7.5		1.9		2.4	†
						-	-		-		-		-		-	7.6	-		-	t l
M1	Fine	Calm	10:40	4.2	Middle	-	-	-	-	-	_	-	_	-	_		_	2.2	_	2.8
					5	3.2	19.3	40.0	8.0		30.8		98.9		7.6		2.5		3.2	i l
					Bottom	3.2	19.3	19.3	8.0	8.0	30.8	30.8	98.2	98.6	7.6	7.6	2.4		2.8	i
					Surface	1.0	19.4	19.4	7.9	8.0	30.9	30.9	98.7	98.4	7.6		1.6		2.1	
					Surface	1.0	19.4	19.4	8.0	6.0	30.9	30.9	98.1	96.4	7.5	7.6	1.5		2.3	ĺ
M2	Fine	Calm	10:36	5.0	Middle		-		-		-	_	-	_	-	7.6	-	1.6	-	2.0
IVIZ	rine	Cairii	10.36	5.0	Middle		-	-	-] -	-	-	-] -	-		-	1.0	-	2.0
					Bottom	4.0	19.4	19.4	8.0	8.0	30.9	30.9	98.9	98.7	7.6	7.6	1.6		1.7	ĺ
					Bollom	4.0	19.4	19.4	7.9	0.0	30.9	30.9	98.5	30.7	7.6	7.0	1.7		1.9	ĺ
					Surface	1.0	19.3	19.3	8.0 7.9	8.0	30.8	30.8	98.6	97.8	7.6		1.0		2	
					Gunace	1.0	19.3	10.0		0.0	30.7	50.0	96.9	37.0	7.5	7.6	1.0		2	1
МЗ	Fine	Calm	10:32	6.4	Middle	3.2	19.3	19.3	8.0	8.0	30.8	30.8	99.1	98.3	7.6		1.3	1.4	3	3
				J		3.2	19.3		7.9	0.0	30.7		97.4	00.0	7.5		1.3		3	
					Bottom	5.4	19.2	19.3	8.0	8.0	30.8	30.8	99.4	98.7	7.7	7.6	2.0		3	
DA: Darth aver					1	5.4	19.3		7.9		30.7		98.0		7.5		2.0		3	<u> </u>

DA: Depth-averaged

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

Value exceeding Action Level is underlined; Value exceeding Limit Level is bolded and underlined

Water Quality Monitoring Results on 04 January 24 during Mid-Ebb Tide

rater qua	inty interin	oring itesu			0+ January 2+	adming Mid-	<u> </u>													
Monitoring	Weather	Sea Condition	Sampling		Sampling Dep	oth (m)	Water Te	emperature (°C)	ŀ	ЭΗ	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	19.0	19.0	7.9	7.9	30.3	30.3	93.3	93.4	7.2		1.3		1.0	
					Surface	1.0	19.0	19.0	7.9	7.9	30.3	30.3	93.4	93.4	7.2	7.2	1.4		1.2	
C1	Fine	Moderate	17:51	10.8	Middle	5.4	19.0	19.0	7.9	7.9	30.3	30.3	92.5	92.6	7.2	1.2	0.8	1.0	1.7	1.6
Ci	1 1116	Moderate	17.51	10.6	Middle	5.4	19.0	19.0	7.9	1.9	30.3	30.3	92.6	92.0	7.2		0.8	1.0	1.5	1.0
					Bottom	9.8	19.2	19.2	7.9	7.9	31.0	31.0	90.7	90.7	7.0	7.0	0.7		2.0	
					Dottom	9.8	19.2	13.2	7.9	1.5	31.0	31.0	90.6	30.1	7.0	7.0	0.7		2.3	
					Surface	1.0	19.0	19.0	8.0	8.0	30.2	30.2	94.6	94.7	7.3		1.4		1.4	
					Canado	1.0	19.0	10.0	8.0	0.0	30.2	00.2	94.7	0 1.7	7.4	7.3	1.3		1.1	
C2	Fine	Moderate	18:22	10.2	Middle	5.1	19.0	19.0	8.0	8.0	30.3	30.3	93.2	93.3	7.2	1.0	2.2	2.4	1.6	1.7
						5.1	19.0		8.0		30.3		93.3		7.2		2.2		1.8	
					Bottom	9.2	19.1	19.1	7.9	7.9	30.7	30.7	91.4	91.4	7.1	7.1	3.7		2.1	
						9.2	19.1		7.9		30.7		91.4		7.1		3.7		2.4	
					Surface	1.0	19.1	19.1	7.9	7.9	30.3	30.3	95.7	95.7	7.4		3.4		1.3	
						1.0	19.1		7.9		30.3		95.7		7.4	7.4	3.4		1.2	
M1	Fine	Calm	18:04	5.1	Middle	-	-	-	-	-	-	-	-	-	-		-	2.2	-	1.4
						-	-		-		-		-				-			
					Bottom	4.1	19.1	19.1	8.0	8.0	30.7	30.7	95.5 95.4	95.5	7.4	7.4	1.0		1.4	
						1.0	19.1 19.0				30.7						1.1		1.7	
					Surface	1.0	19.0	19.0	8.0	8.0	30.2	30.2	95.6 95.6	95.6	7.4 7.4		1.3		1.3	
						1.0	19.0		0.0		30.2		- 33.0		7.4	7.4	- 1.2		- 1.1	
M2	Fine	Calm	18:09	4.9	Middle			-		-		-		-				1.4		1.5
						3.9	19.0		8.0		30.3		94.6		7.3		1.6		1.9	
					Bottom	3.9	19.0	19.0	8.0	8.0	30.3	30.3	94.6	94.6	7.3	7.3	1.6		1.6	
						1.0	19.1		7.9		30.4		95.9		7.4		5.6		2	
					Surface	1.0	19.1	19.1	7.9	7.9	30.4	30.4	95.9	95.9	7.4	l	5.6		1	
						3.4	19.1		7.9		30.5		95.3		7.4	7.4	5.5		2	
M3	Fine	Moderate	17:57	6.7	Middle	3.4	19.1	19.1	7.9	7.9	30.5	30.5	95.3	95.3	7.4	1	5.5	7.0	2	2
					D ::	5.7	19.2		7.9		30.7		94.5		7.3		9.8		2	1
				1	Bottom	5.7	19.2	19.2	7.9	7.9	30.8	30.8	94.5	94.5	7.3	7.3	9.7		2	1

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Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher Value exceeding Action Level is underlined; Value exceeding Limit Level is bolded and underlined

Water Quality Monitoring Results on 04 January 24 during Mid-Flood Tide

Monitoring	Weather	Sea Condition	Sampling		Sampling Dep	th (m)	Water Te	emperature (°C)	р	Ή	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	19.1	19.1	8.0	8.0	30.3	30.3	96.1	96.1	7.4		1.6		1.4	
					Surface	1.0	19.1	19.1	8.0	0.0	30.3	30.3	96.1	30.1	7.4	7.4	1.6		1.5	
C1	Sunny	Moderate	11:59	10.1	Middle	5.1	19.1	19.1	8.0	8.0	30.5	30.5	94.6	94.6	7.3	7.4	2.0	2.3	1.6	1.8
01	Curry	Woderate	11.00	10.1	Middle	5.1	19.1	19.1	8.0	0.0	30.5	30.5	94.6	34.0	7.3		2.0	2.0	1.8	1.0
					Bottom	9.1	19.1	19.1	8.0	8.0	30.7	30.7	91.9	91.9	7.1	7.1	3.3		2.2	
					Dottom	9.1	19.1	19.1	8.0	0.0	30.7	30.7	91.9	31.3	7.1	7.1	3.3		2.1	
					Surface	1.0	19.2	19.2	8.0	8.0	30.2	30.2	96.3	96.4	7.4		1.4		1.5	
					Gundoo	1.0	19.2	10.2	8.0	0.0	30.2	00.2	96.4	00.1	7.5	7.4	1.4		1.3	
C2	Sunny	Moderate	11:33	9.9	Middle	5.0	19.0	19.0	8.0	8.0	30.3	30.3	94.4	94.4	7.3		1.5	1.9	1.8	1.8
02		moderate		0.0	· · · · · · · · · · · · · · · · · · ·	5.0	19.0		8.0	0.0	30.3	00.0	94.4	0	7.3		1.5		1.9	
					Bottom	8.9	19.1	19.1	8.0	8.0	30.6	30.6	92.8	92.8	7.2	7.2	2.7		2.3	
						8.9	19.1		8.0		30.6		92.8		7.2		2.7		2.1	
					Surface	1.0	19.2	19.2	8.0	8.0	30.8	30.8	97.1	97.1	7.5		1.2		2.3	
						1.0	19.2		8.0		30.8		97.1		7.5	7.5	1.2		2.1	
M1	Sunny	Calm	11:46	4.7	Middle	-	-	-	-	-	-	-	-	-	-		-	1.2	-	2.4
	-					-	-		-		-		-		-		-		-	
					Bottom	3.7	19.2	19.2	8.0	8.0	30.8	30.8	94.8	94.8	7.3	7.3	1.2		2.8	
						3.7	19.2		8.0		30.8		94.8		7.3		1.2		2.5	
					Surface	1.0	19.2	19.2	8.0	8.0	30.6	30.6	95.8	95.8	7.4	ł	2.6		2.0	4
						1.0	19.2		8.0		30.6		95.8		7.4	7.4	2.6		2.2	4
M2	Sunny	Calm	11:42	4.3	Middle		-	-	-	-	-	-	-	-	-		-	3.3	-	1.8
	-						-		-		-		-				-		-	
					Bottom	3.3	19.2	19.2	8.0	8.0	30.8	30.8	96.1	96.1	7.4	7.4	4.0		1.4	
						3.3	19.2		8.0		30.7		96.0		7.4		3.9		1.6	
					Surface	1.0	19.2	19.2	8.0	8.0	30.6	30.6	96.4	96.4	7.4		5.8		1	
						1.0	19.2		8.0		30.6		96.4		7.4	7.4	5.8		1	
M3	Sunny	Calm	11:52	6.2	Middle	3.1	19.2	19.2	8.0	8.0	30.5	30.5	96.3	96.3	7.4		8.4	7.3	2	2
						3.1	19.2		8.0		30.5		96.3	ļ	7.4		8.4		1	1
					Bottom	5.2 5.2	19.2 19.2	19.2	8.0	8.0	30.7	30.7	94.6 94.6	94.6	7.3 7.3	7.3	7.8 7.7		2	-

DA: Depth-averaged

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

Value exceeding Action Level is underlined; Value exceeding Limit Level is bolded and underlined

Water Quality Monitoring Results on 06 January 24 during Mid-Ebb Tide

		l l			oo canaan y z n	daining iinid	1									_				
Monitoring	Weather	Sea Condition		Water Depth	Sampling Dep	th (m)	Water Te	emperature (°C)		рН	Salin	ity (ppt)	DO Satur	ration (%)	Dissolved (mg/l		Turbidity((NTU)	Suspende (mg/	
Station	Condition		Time	(m)	22.1 3 41		Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA
					Surface	1.0	19.4	19.4	8.0	8.0	30.3	30.3	97.3	97.3	7.5		3.0		<1	
					Surface	1.0	19.4	19.4	8.0	0.0	30.3	30.3	97.3	97.3	7.5	7.5	3.0		<1	1
C1	Cloudy	Moderate	09:22	10.2	Middle	5.1	19.4	19.4	7.9	7.9	30.5	30.5	96.2	96.2	7.4	7.5	4.0	4.2	<1	#DIV/0!
C1	Cloudy	Woderate	03.22	10.2	Wildale	5.1	19.4	19.4	7.9	1.5	30.5	30.3	96.2	30.2	7.4		4.0	7.2	<1	#D10/0:
					Bottom	9.2	19.4	19.4	7.9	7.9	30.9	30.9	96.2	96.2	7.4	7.4	5.7		1.3]
					Bottom	9.2	19.4	15.4	7.9	7.5	30.9	00.0	96.2	30.2	7.4	/	5.7		1.2	<u> </u>
					Surface	1.0	19.4	19.4	7.9	7.9	30.2	30.1	95.2	95.7	7.3		2.5		<1	1
					Canado	1.0	19.4	10.1	7.9	7.0	30.0	00.1	96.1	00.7	7.4	7.3	2.5		<1	1
C2	Cloudy	Moderate	08:59	10.3	Middle	5.2	19.4	19.4	7.9	7.9	31.0	31.0	94.1	94.5	7.2		2.6	2.6	1.2	#DIV/0!
02	o.ouu,	cac.a.c	00.00	10.0		5.2	19.4		7.9		30.9	0.10	94.8	00	7.3		2.6	0	1.5	1
					Bottom	9.3	19.4	19.4	7.9	7.9	31.0	31.0	94.3	94.8	7.2	7.3	2.6		1.7	1 '
						9.3	19.4		7.9		31.0		95.2	•	7.3		2.7		1.9	
					Surface	1.0	19.3	19.4	7.9	7.9	30.8	30.8	96.8	96.6	7.4		5.5		<1	1
						1.0	19.4	-	7.9		30.8		96.4		7.4	7.4	5.2		<1	4
M1	Cloudy	Moderate	09:12	5.5	Middle	-	-	-	-	-	-	-	-	-	-		-	5.5	-	#DIV/0!
						-	-		-		-		-		-		-		-	1
					Bottom	4.5	19.3	19.3	7.9	7.9	30.8	30.8	97.1	97.0	7.5	7.5	5.9		<1	4
						4.5	19.3		7.9		30.8		96.8		7.4		5.5		<1	
					Surface	1.0	19.3	19.4	7.9	7.9	30.5	30.3	97.3	97.2	7.5		3.3		<1	4
						1.0	19.4		7.9		30.1		97.0		7.5	7.5	3.4		<1	1
M2	Cloudy	Moderate	09:08	5.2	Middle		-	-	-	-	-	-	-	-	-		-	3.9	-	#DIV/0!
	-					4.0	-		-		-		- 07.7		-		-			ł '
					Bottom	4.2	19.3	19.3	7.9 7.9	7.9	30.6 30.8	30.7	97.7 96.1	96.9	7.5 7.4	7.5	4.3		1.5	
						4.2	19.3												1.3	
					Surface	1.0	19.4	19.4	8.0	8.0	29.8 29.9	29.9	98.6 98.7	98.7	7.6 7.6	4	3.7		<1	1
							19.4									7.6	4.0		<1	1
M3	Cloudy	Moderate	09:17	6.3	Middle	3.2	19.3	19.3	7.9	7.9	30.6	30.6	98.4	98.2	7.6	4	3.6	3.8	1	#DIV/0!
						3.2	19.3		7.9		30.6		98.0		7.5	1	3.4		1	1
					Bottom	5.3 5.3	19.3	19.3	7.9	7.9	30.8	30.8	98.9	98.4	7.6	7.6	3.7 4.1		2	1
						5.3	19.3		7.9		30.8		97.9		7.5		4.1			<u></u>

DA: Depth-averaged

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

<u>Value exceeding Action Level is underlined</u>; <u>Value exceeding Limit Level is bolded and underlined</u>

Water Quality Monitoring Results on 06 January 24 during Mid-Flood Tide

Monitoring	Weather	Sea Condition	Sampling	Water Depth	Sampling Dept	th (m)		emperature (°C)		рН	Salin	ity (ppt)	DO Satur	ration (%)	Dissolved (mg/l		Turbidity((NTU)	Suspende (mg.	
Station	Condition	oca contaition	Time	(m)	Gampling Dep	ur (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA
					Surface	1.0	19.4	19.4	8.0	8.0	30.2	30.3	97.5	97.6	7.5		2.8		2.8	
					Surface	1.0	19.4	19.4	8.0	0.0	30.3	30.3	97.7	97.0	7.5	7.5	2.7		3.1	1
C1	Cloudy	Moderate	12:37	10.5	Middle	5.3	19.4	19.4	8.0	8.0	30.9	30.9	97.5	97.8	7.5	7.5	3.5	3.3	2.3	2.3
Ci	Cloudy	Woderate	12.31	10.5	ivildale	5.3	19.4	19.4	8.0	0.0	30.8	30.9	98.0	97.0	7.5		2.9	3.3	2.5	2.3
					Bottom	9.5	19.4	19.5	8.0	8.0	30.6	30.4	98.9	99.2	7.6	7.6	3.7		1.8	1
					DOMONI	9.5	19.5	19.5	8.0	0.0	30.2	30.4	99.4	99.2	7.6	7.0	4.0		1.4	
					Surface	1.0	19.5	19.5	8.0	8.0	29.9	30.1	101.3	100.4	7.8		2.6		2.7	
					Odridoc	1.0	19.5	13.5	8.0	0.0	30.2	50.1	99.4	100.4	7.6	7.7	2.6		2.6]
C2	Cloudy	Moderate	12:56	10.7	Middle	5.4	19.4	19.4	8.0	8.0	30.8	30.8	97.1	98.7	7.5		2.7	2.6	2.1	2.1
02	Cloudy	Moderate	12.00	10.7	Wildalo	5.4	19.4	10.1	8.0	0.0	30.7	00.0	100.2	00.7	7.7		2.6	2.0	2.3	1
					Bottom	9.7	19.4	19.5	8.0	8.0	30.9	30.6	98.7	100.1	7.6	7.7	2.7		1.4	1
					20110111	9.7	19.5		8.0	0.0	30.3	00.0	101.5		7.8		2.6		1.7	
					Surface	1.0	19.3	19.4	8.0	8.0	30.7	30.7	97.4	97.3	7.5		5.3		<1	4
						1.0	19.4		8.0		30.7		97.2		7.5	7.5	4.6		<1	4
M1	Cloudy	Moderate	12:47	5.6	Middle	-	-	-	-	-	-	-	-	-	-		-	4.9	-	#DIV/0!
						-	-		-		-		-				-		-	4
					Bottom	4.6	19.3	19.4	8.0	8.0	30.8	30.8	97.6	97.5	7.5	7.5	5.1		1.3	1
						4.6	19.4		8.0		30.7		97.3		7.5		4.6		1.5	
					Surface	1.0	19.4 19.3	19.4	8.0	8.0	30.4	30.5	98.4 98.2	98.3	7.6 7.6		4.4 5.0		1.5	ł
						1.0	19.5				30.5		90.2		7.0	7.6			1.3	1
M2	Cloudy	Moderate	12:50	5.7	Middle		-	-	-	-	-	-	-	-	-		-	4.7	-	1.8
						4.7	10.4		-		20.5		- 00.0		7.6		4.9		2.1	1
					Bottom	4.7	19.4 19.3	19.4	8.0	8.0	30.5	30.7	98.3 98.0	98.2	7.5	7.6	4.9		2.1	ł
		l		<u> </u>		1.0	19.3		8.0				99.2		7.6		3.3		1	
					Surface	1.0	19.4	19.4	8.0	8.0	30.3	30.5	98.8	99.0	7.6		4.1		1	1
						3.3	19.3		8.0		30.4		99.0		7.6	7.6	4.1		<1	1
M3	Cloudy	Moderate	12:43	6.6	Middle	3.3	19.4	19.4	8.0	8.0	30.4	30.6	98.8	98.9	7.6		4.3	4.0	<1	#DIV/0!
						5.6	19.4		8.0		30.3		98.9		7.6		4.2		<1	l
					Bottom	5.6	19.4	19.4	8.0	8.0	30.8	30.6	98.5	98.7	7.6	7.6	4.1		<1	1
DA. Donth aver		l	1	<u> </u>		J.U	19.0		0.0	l	50.0		30.5		7.0		7.1		` '	

DA: Depth-averaged

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

Value exceeding Action Level is underlined; Value exceeding Limit Level is bolded and underlined

Water Quality Monitoring Results on 09 January 24 during Mid-Ebb Tide

		lornig itesu			03 bandary 24	during ima		emperature (°C)		pH	Salin	ity (ppt)	DO Satu	ration (%)	Dissolved		Turbidity(NTU)	Suspende	
Monitoring	Weather Condition	Sea Condition	Sampling Time	Water Depth	Sampling Dep	oth (m)		5po.a.a.o (e,		F · ·		··- 7 (FF-7		(,,,	(mg/l	L)	,		(mg	/L)
Station	Condition		Time	(m)			Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA
					Surface	1.0	19.7	19.8	8.0	8.0	31.1	31.1	105.1	106.8	8.0		0.1		1.2	
					Surface	1.0	19.8	19.0	8.0	0.0	31.1	31.1	108.4	100.0	8.2	8.1	0.1		1.4	i
C1	Fine	Calm	11:24	10.0	Middle	5.0	19.7	19.8	8.0	8.0	31.1	31.1	103.8	105.6	7.9	0.1	1.1	1.1	1.4	1.5
0.	1 1110	Cum		10.0	Wildalo	5.0	19.8	10.0	8.0	0.0	31.1	01.1	107.3	100.0	8.2		1.1		1.6	
					Bottom	9.0	19.7	19.8	8.0	8.0	31.1	31.1	103.2	104.9	7.9	8.0	2.0		1.7	1
						9.0	19.8		8.0		31.1	• • • •	106.5		8.1		2.0		1.8	
					Surface	1.0	19.7	19.8	8.1	8.1	31.2	31.2	103.8	103.7	7.9		1.3		1.6	1
						1.0	19.8		8.1		31.2		103.6		7.9	7.9	1.3		1.8	1
C2	Fine	Calm	11:36	10.0	Middle	5.0	19.7	19.7	8.1	8.1	31.2	31.2	103.0	103.1	7.8	_	2.2	2.2	2.5	2.4
						5.0	19.7		8.1		31.2		103.2		7.9		2.1		2.1	1
					Bottom	9.0	19.8	19.8	8.1	8.1	31.1	31.2	102.5	102.3	7.8	7.8	3.0		2.9	1
				<u> </u>		9.0	19.7						102.1		7.8	1	3.0		3.2	
					Surface	1.0	19.8 19.7	19.8	8.0	8.0	31.0 31.1	31.1	103.3 104.4	103.9	7.9 7.9		1.1		3.1 2.7	İ
															7.9	7.9				İ
M1	Fine	Calm	11:21	3.8	Middle	-	-	-	-	-	-	-	-	-	-		-	1.5	-	2.6
						2.8	19.5		8.0		31.3		101.4		7.7		1.9		2.1	İ
					Bottom	2.8	19.8	19.7	8.0	8.0	31.0	31.2	104.0	102.7	7.9	7.8	1.9		2.4	1
						1.0	19.8		8.1		31.1		100.3		7.6		1.2		3.8	
					Surface	1.0	19.8	19.8	8.1	8.1	31.1	31.1	101.2	100.8	7.7	1	1.3		3.7	İ
140	- ·	0.1	44.40	- A	N 42 1 11	_	-		-		-		-		-	7.7	_	4 -	-	
M2	Fine	Calm	11:18	5.4	Middle		-	-	-	-	-	-	-	-	-		-	1.7	-	3.3
					Bottom	4.4	19.8	19.8	8.1	8.1	31.1	31.1	99.0	99.9	7.5	7.6	2.1		2.6	İ
					Bollom	4.4	19.8	19.8	8.1	0.1	31.1	31.1	100.8	99.9	7.7	7.6	2.1		2.9	İ
					Surface	1.0	19.8	19.8	8.1	8.1	31.2	31.2	107.3	107.3	8.2		0.1		2	
					Surface	1.0	19.8	19.0	8.1	0.1	31.2	31.2	107.3	107.3	8.2	8.0	0.1		2	1
МЗ	Fine	Calm	11:30	7.0	Middle	3.5	19.7	19.8	8.1	8.1	31.3	31.3	102.1	102.1	7.8	0.0	1.0	0.7	2	2
IVIO	1 1116	Callii	11.50	7.0	Mildule	3.5	19.8	13.0	8.1	0.1	31.2	31.3	102.1	102.1	7.8		1.0	0.7	2	_
					Bottom	6.0	19.4	19.6	8.1	8.1	31.4	31.3	101.6	101.6	7.8	7.8	1.1		1	ı
DA: Depth aver					Dottom	6.0	19.8	15.0	8.1	0.1	31.1	01.0	101.5	101.0	7.7	7.0	1.1		1	<u> </u>

DA: Depth-averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher Value exceeding Action Level is underlined; Value exceeding Limit Level is bolded and underlined

Water Quality Monitoring Results on 09 January 24 during Mid-Flood Tide

Monitoring	Weather	Sea Condition	Sampling	Water Depth	Sampling Dep	oth (m)	Water Te	emperature (°C)	рН	5	Salinity (pp	opt) DO S	turation (%)	Dissolved (mg/l		Turbidity	(NTU)	Suspende (mg	
Station	Condition		Time	(m)	337 3 31	()	Value	Average	Value Aver	age Va	llue Avei	rage Valu	e Average	Value	DA	Value	DA	Value	DA
					Surface	1.0	19.7	19.7	8.0	3	1.2	1.2	106.1	8.1		0.9		2.2	
					Sulface	1.0	19.7	19.7	8.0	3	1.2	106	100.1	8.1	8.1	1.0		2.4	1
C1	Fine	Calm	15:02	9.8	Middle	4.9	19.7	19.7	7.9 8.	3	1.2	1.2	105.4	8.0	0.1	1.3	1.5	1.7	1.8
	1 1110	Caim	10.02	3.0	Wildale	4.9	19.7	19.7	8.0	3	1.2	106	2	8.1		1.3	1.0	1.9	1.0
					Bottom	8.8	19.7	19.7	7.9		1.2	1.2	105.1	7.9	8.0	2.2		1.4]
					Dottom	8.8	19.7	19.7	8.0	3	1.2	106	100.1	8.1	0.0	2.2		1.3	<u> </u>
					Surface	1.0	19.7	19.7	8.0	3		1 1 107		8.2		1.1		2.1	
						1.0	19.7		8.0	3	1.1	108		8.2	8.2	1.2		2.4	1
C2	Fine	Calm	15:21	10.0	Middle	5.0	19.7	19.7	8.0 8.	3		1.1	1075	8.2		2.4	2.2	1.9	1.8
						5.0	19.7		8.0		1.1	107		8.2		2.4		1.7	1
					Bottom	9.0	19.7	19.7	8.0	3		1.1	10/6	8.2	8.2	3.0		1.5	4
						9.0	19.7		8.0	3		107		8.2		3.0		1.2	
					Surface	1.0	19.7	19.7	8.0	$\frac{3}{3}$	- 31	1.1	1086	8.3		1.1		1.9	1
						1.0	19.7		8.0	3	1.1	108)	8.3	8.3	1.0		1.8	1
M1	Fine	Calm	15:15	4.2	Middle	-	-	-	-		-			-	4	-	1.7	-	1.6
						3.2	19.7		8.0	3	1 1	108	1	8.2		2.2		1.2	1
					Bottom	3.2	19.7	19.7	8.0)	1.1 31	1.1	1085	8.3	8.3	2.3		1.5	İ
					Surface	1.0	19.7	19.7	8.0 8.	3	1.0	1.0	108.3	8.2		1.1		<1	
					Sulface	1.0	19.7	19.7	8.0	3	1.0	108	}	8.2	8.2	1.1		<1	1
M2	Fine	Calm	15:12	5.4	Middle		-				-		_	-	0.2	-	1.7	-	#DIV/0!
IVIZ	i iiie	Callii	13.12	3.4	ivildale		-	-	-		- '		-	-		-	1.7	-	#DIV/0:
					Bottom	4.4	19.7	19.7	8.0	3	1.0	1.0	108.2	8.2	8.2	2.3		2.1]
					Dottom	4.4	19.7	19.7	8.0	3	1.0	108	2 100.2	8.2	0.2	2.3		2.3	
					Surface	1.0	19.7	19.7	8.0		1.2	1.2		8.1		0.5		3	
					Odridoc	1.0	19.7	13.7	8.0	3	1.1	107	3	8.2	8.2	0.6		3]
M3	Fine	Calm	15:08	7.2	Middle	3.6	19.7	19.7	8.0 8.)	1.2	1.2		8.1	0.2	0.7	0.8	3	2
1110	1 1110	Cann	10.00	'	Middle	3.6	19.7	10.7	8.0	3	1.1	107	2	8.2		0.7	0.0	2	1 -
					Bottom	6.2	19.7	19.7	8.0)	1.2	1.2	1066	8.1	8.1	1.1		2	1
						6.2	19.7		8.0	3	1.1	107)	8.1		1.1		2	<u> </u>

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Water Quality Monitoring Results on 11 January 24 during Mid-Ebb Tide

Monitoring	Weather	Sea Condition		Water Depth	Sampling Dept	th (m)		emperature (°C)		рН	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	20.1	20.1	8.0	8.0	30.8	30.8	109.9	110.2	8.4		0.9		2.2	ĺ
					Sulface	1.0	20.0	20.1	8.0	0.0	30.8	30.0	110.5	110.2	8.4	8.4	0.9		2.0	1
C1	Fine	Calm	11:39	10.0	Middle	5.0	20.1	20.1	7.9	8.0	30.8	30.8	108.7	109.5	8.3	0.4	1.3	1.4	2.8	2.7
01	1 1110	Odilli	11.00	10.0	Wildaic	5.0	20.0	20.1	8.0	0.0	30.8	00.0	110.3	100.0	8.4		1.3	1.4	2.5	
					Bottom	9.0	20.1	20.1	7.9	8.0	30.8	30.8	107.8	109.2	8.2	8.3	2.0		3.1	1
						9.0	20.0	20.1	8.0	0.0	30.8	00.0	110.5	100.2	8.4	0.0	2.0		3.5	
					Surface	1.0	20.0	20.1	8.0	8.0	30.7	30.7	111.3	111.8	8.5		1.1		2.3	1
						1.0	20.1		8.0		30.7		112.2		8.6	8.6	1.1		2.6	1
C2	Fine	Calm	11:58	10.2	Middle	5.1	20.0	20.0	8.0	8.0	30.7	30.7	111.3	111.6	8.5		2.4	2.2	2.8	3.0
						5.1	20.0		8.0		30.7		111.9		8.6		2.5		3.1	1
					Bottom	9.2	20.0	20.0	8.0	8.0	30.7	30.7	111.8	111.7	8.5	8.5	3.1		3.4	4
						9.2	20.0		8.0		30.7		111.6		8.5		3.0		3.6	
					Surface	1.0	20.1	20.1	8.0	8.0	30.7	30.7	112.6	112.7	8.6	4	1.0		2.5	1
						1.0	20.0		8.0		30.7		112.7		8.6	8.6	1.1		3.0	1
M1	Fine	Calm	11:52	4.0	Middle	-	-	-	-	-	-	-	-	-	-	4	-	1.6	-	3.2
						- 2.0	- 20.4		-		20.7		110 5		-		-		- 2.4	1
					Bottom	3.0	20.1	20.2	8.0	8.0	30.7	30.7	112.5 112.6	112.6	8.6 8.6	8.6	2.2		3.4	1
						1.0	20.2		8.0		30.7		112.3		8.6		1.1		2.1	
					Surface	1.0	20.1	20.2	8.0	8.0	30.6	30.6	112.4	112.4	8.6	1	1.1		2.4	1
						1.0	-		-		-		-		-	8.6	-		-	1
M2	Fine	Calm	11:49	5.4	Middle		-	-	_	-	_	-	_	-	_		_	2.0	_	2.9
					_	4.4	20.1		8.0		30.6		112.2		8.6		2.9		3.8	1
					Bottom	4.4	20.2	20.2	8.0	8.0	30.6	30.6	112.3	112.3	8.6	8.6	2.9		3.3	1
					0 (1.0	20.1	00.4	8.0	0.0	30.8	00.0	110.6	444.6	8.4		0.9		2	
					Surface	1.0	20.0	20.1	8.0	8.0	30.7	30.8	111.7	111.2	8.5	1	0.9		2	1
Ma	Fine	Calm	11.15	6.0	Middle	3.4	20.1	20.4	8.0	0.0	30.8	20.0	110.3	110.0	8.4	8.5	1.7	4 7	3	
М3	Fine	Calm	11:45	6.8	Middle	3.4	20.0	20.1	8.0	8.0	30.7	30.8	111.3	110.8	8.5	1	1.7	1.7	3	3
					Bottom	5.8	20.1	20.1	8.0	8.0	30.8	30.8	110.3	110.7	8.4	8.5	2.3		4	1
					DULLUIII	5.8	20.0	20.1	8.0	0.0	30.7	30.0	111.1	110.7	8.5	0.0	2.4		3	l

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<u>Value exceeding Action Level is underlined</u>; <u>Value exceeding Limit Level is bolded and underlined</u>

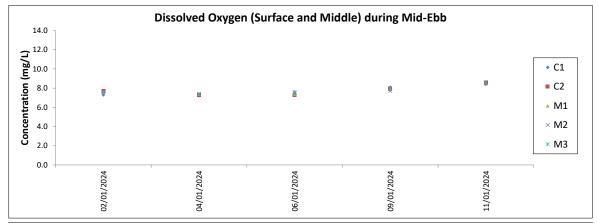
Water Quality Monitoring Results on 11 January 24 during Mid-Flood Tide

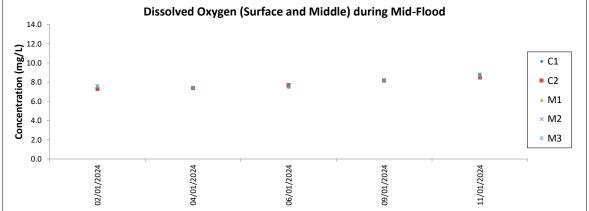
Monitoring	Weather	Sea Condition		Water Depth	Sampling Dep	th (m)		emperature (°C)		рН	Salin	ity (ppt)	DO Satur	ation (%)	Dissolved (mg/L		Turbidity(NTU)	Suspende (mg/	
Station	Condition		Time	(m)			Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA
					Surface	1.0	20.0	20.0	8.2	8.2	30.6	30.6	115.8	115.4	8.8		0.9		3.4	
					Sullace	1.0	20.0	20.0	8.2	0.2	30.6	30.0	115.0	113.4	8.8	8.8	1.0		3.6	I
C1	Fine	Calm	07:20	10.0	Middle	5.0	20.0	20.0	8.2	8.2	30.6	30.6	114.8	114.6	8.7	0.0	1.1	1.4	3.0	3.1
C1	1 1110	Callii	07.20	10.0	ivildule	5.0	20.0	20.0	8.2	0.2	30.6	30.0	114.4	114.0	8.8		1.1	1.4	3.0	J. 1
					Bottom	9.0	20.0	20.0	8.2	8.2	30.6	30.6	113.6	113.4	8.6	8.7	2.0		2.8	I
					DOLLOITI	9.0	20.0	20.0	8.2	0.2	30.6	30.0	113.2	113.4	8.7	0.7	2.0		2.5	
					Surface	1.0	20.0	20.0	8.1	8.1	30.5	30.5	113.5	113.4	8.6		1.0		3.4	
					Sullace	1.0	20.0	20.0	8.1	0.1	30.5	30.3	113.2	113.4	8.7	8.5	0.9		3.2	I
C2	Fine	Calm	07:02	11.0	Middle	5.5	20.0	20.0	8.1	8.1	30.6	30.6	108.8	108.6	8.3	0.5	1.3	1.9	3.8	3.7
02	1 1116	Callii	07.02	11.0	Wildale	5.5	20.0	20.0	8.1	0.1	30.5	30.0	108.4	100.0	8.3		1.4	1.5	3.5	J.7
					Bottom	10.0	20.1	20.1	8.1	8.1	30.6	30.6	106.9	106.7	8.1	8.1	3.3		4.0	I
					Dottom	10.0	20.0	20.1	8.1	0.1	30.5	30.0	106.4	100.7	8.1	0.1	3.3		4.4	1
					Surface	1.0	20.1	20.1	8.2	8.2	30.7	30.7	113.8	114.8	8.6		2.0		3.4	1
					Canado	1.0	20.1	20.1	8.2	0.2	30.7	00.1	115.7	111.0	8.8	8.7	2.0		3.7	I
M1	Fine	Calm	07:11	4.0	Middle	=	-	_	-	_	-	_	-	_	-	0.7	-	2.2	-	3.2
		ou	0		· · · · · · · · · · · · · · · · · · ·	-	-		-		-		1		-		-		-	1
					Bottom	3.0	19.8	19.6	8.2	8.2	30.9	31.1	108.1	106.6	8.2	8.1	2.3		2.9	I
						3.0	19.4		8.2		31.2		105.0		8.0		2.4		2.7	
					Surface	1.0	20.1	20.1	8.1	8.1	30.7	30.7	113.5	114.5	8.6		1.1		2.8	I
						1.0	20.1		8.1	•	30.7		115.4		8.7	8.7	1.0		3.2	I
M2	Fine	Calm	07:08	5.2	Middle		-	_	-	_	-	_	1	_	-	0	-	1.1	-	3.4
14.2	1 1110	Cum	07.00	0.2	Wildulo		-		-		-		-		-		-	•••	-	J. 1
					Bottom	4.2	20.1	20.1	8.1	8.1	30.7	30.7	112.9	113.7	8.6	8.7	1.1		3.9	I
					Bottom	4.2	20.1	20.1	8.1	0.1	30.7	50.7	114.5	110.7	8.7	0.7	1.2		3.7	1
					Surface	1.0	20.1	20.2	8.2	8.2	30.6	30.6	115.8	115.8	8.8		0.3		3	
					Ouridoc	1.0	20.2	20.2	8.2	0.2	30.6	50.0	115.7	110.0	8.8	8.8	0.3		3	İ
M3	Fine	Calm	07:16	7.2	Middle	3.6	20.1	20.2	8.2	8.2	30.6	30.6	114.5	114.7	8.7	0.0	1.8	1.4	4	4
1410	1	Jann	07.10	· ·-	iviidaio	3.6	20.2	20.2	8.2	0.2	30.6	00.0	114.8		8.7		1.8		4	
					Bottom	6.2	20.1	20.2	8.2	8.2	30.6	30.6	113.2	113.2	8.6	8.6	2.0		5	ı
DA: Donth sugar					Bottom	6.2	20.2	20.2	8.2	U.Z	30.6	55.0	113.2	110.2	8.6	0.0	2.1		4	L

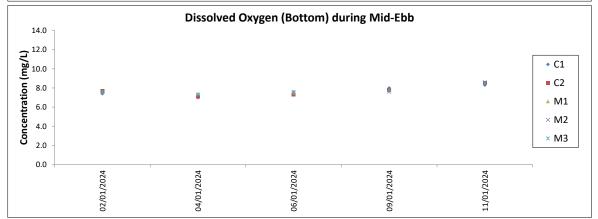
DA: Depth-averaged

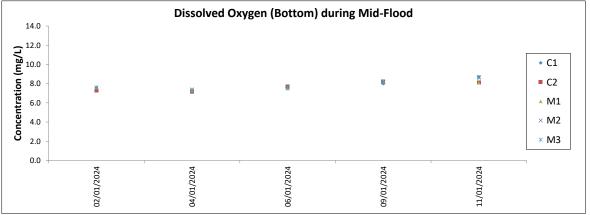
Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

Value exceeding Action Level is underlined; Value exceeding Limit Level is bolded and underlined









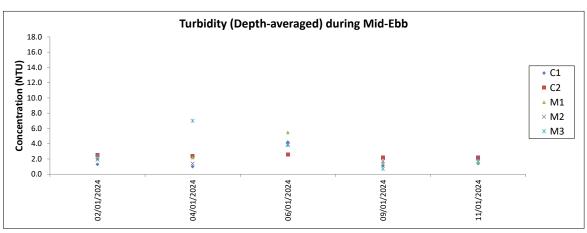
The Action and Limit Level of dissolved oxygen can be referred to Table 2.3 of the monthly EM&A report.

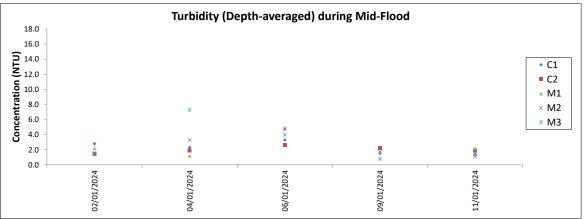
Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report.

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

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

With the completion of marine works below seawater level of the Airport City Link Project on 15 December 2023, the impact water quality monitoring was terminated on 15 December 2023, and the 1-month





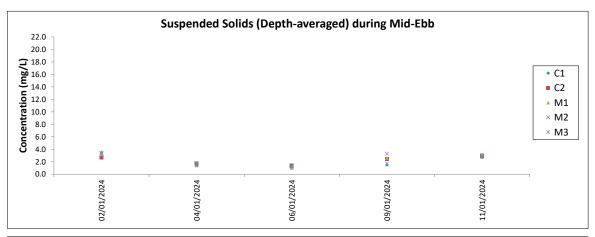
The Action and Limit Level of turbidity can be referred to Table 2.3 of the monthly EM&A report.

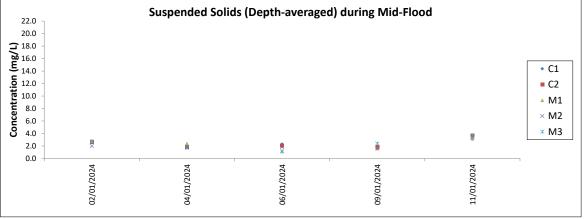
Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report.

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.

With the completion of marine works below seawater level of the Airport City Link Project on 15 December 2023, the impact water quality monitoring was terminated on 15 December 2023, and the 1-month





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

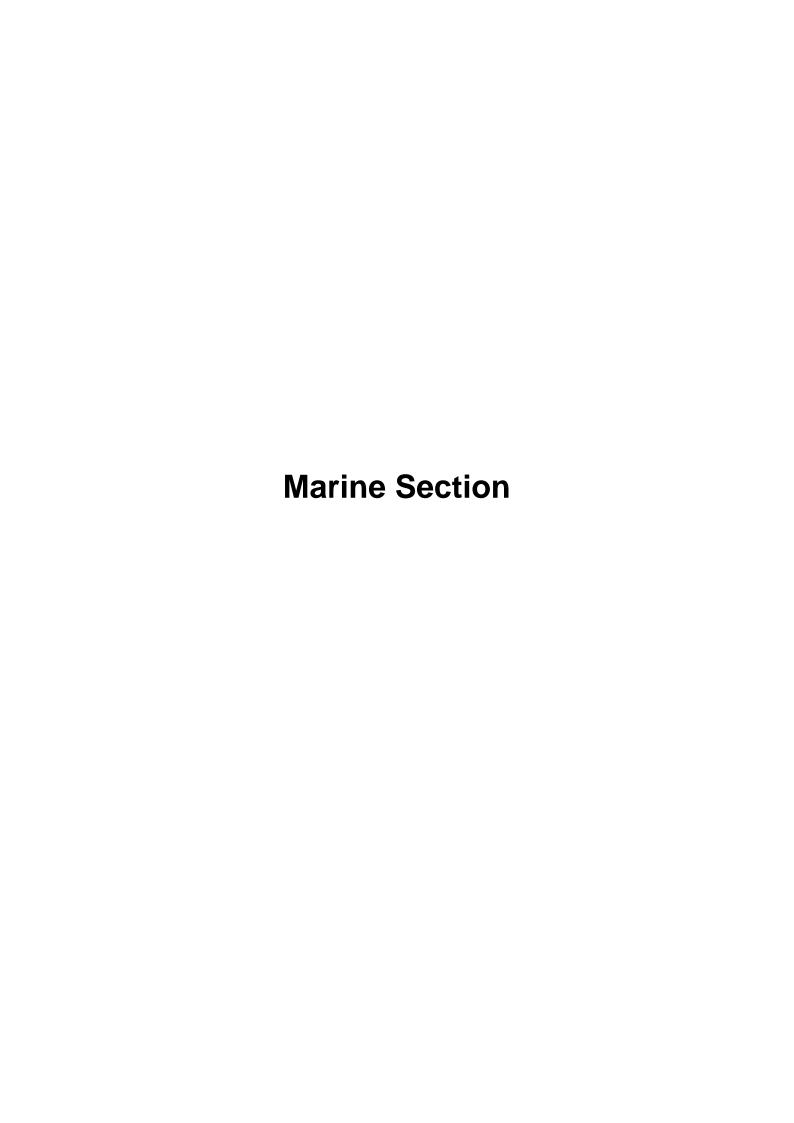
Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report.

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.

With the completion of marine works below seawater level of the Airport City Link Project on 15 December 2023, the impact water quality monitoring was terminated on 15 December 2023, and the 1-month

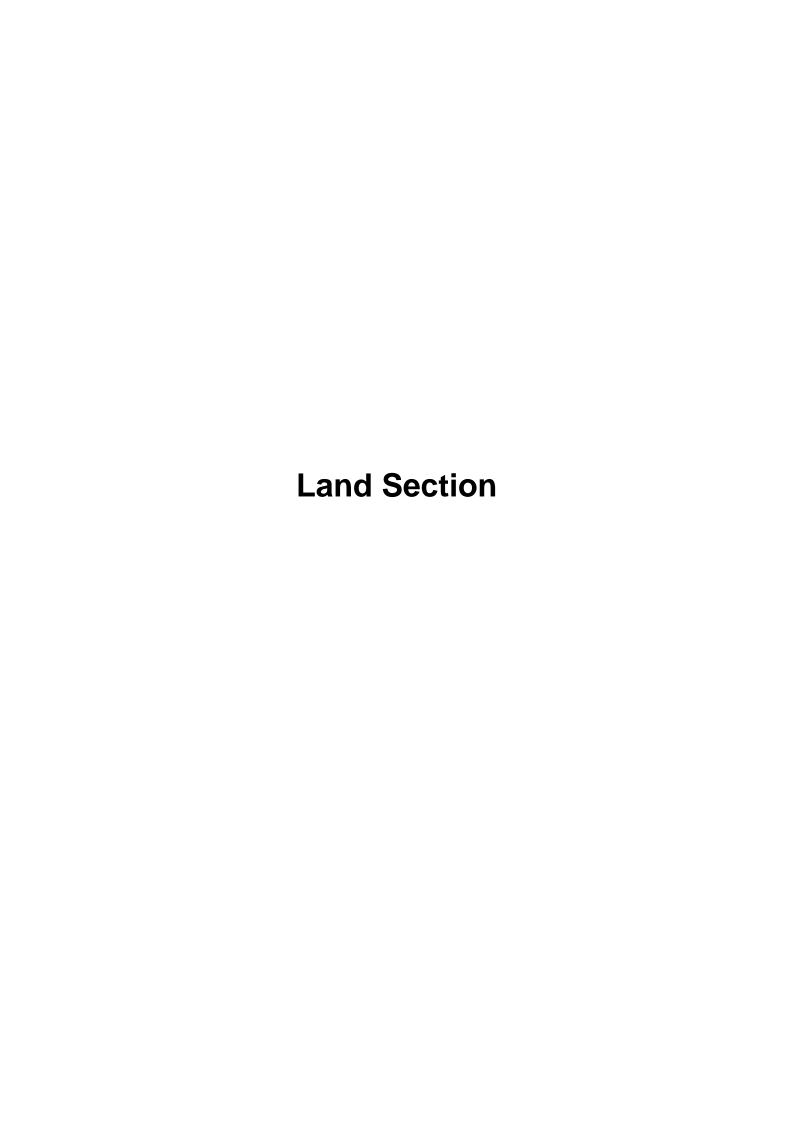
Appendix H. Waste Flow Table



AAHK Supplemental Contract No. C19W10/01 Airport City Link - Marine Portion Monthly Waste Flow Table

		Actual Quan		&D Materials (e.s) e.g. broken co	•	rated waste)	Ac	tual Quantities	of Non-inert C&	kD Waste (tonn	es)		
Month	Excavated Waste (tonnes)	(a) Total inert C&D material generated (a) = (b) + (c) + (d) + (e)	(b) Reused in contract	(c) Reused in other projects	(d) Sent to recycling company	(e) Disposed to public fill	(f) Recycled scrap metal	(g) Reused / recycled timber	(h) Chemical waste	(i) Other waste disposed to landfill	(j) Total non- inert C&D material generated (j) = (f) + (g) +	(k) Total recyclable waste (k) = (b) + (c) + (d) + (f) +	(I) Total construction waste generated (I) = (a) + (j)
											(h) + (i)	(g)	
Apr-22	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
May-22	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
Jun-22	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
Jul-22	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-22	2591.67	2591.67	0.00	0.00	1584.00	1007.67	0.00	0.00	0.00	0.00	0.00	1584.00	2591.67
Sep-22	1340.00	1340.00	0.00	0.00	1340.00	0.00	0.00	0.00	0.36	0.00	0.36	1340.00	1340.36
Oct-22	1385.00	1385.00	0.00	0.00	1385.00	0.00	0.00	0.00	0.00	0.00	0.00	1385.00	1385.00
Nov-22	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
Dec-22	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
Jan-23	1814.47	1814.47	0.00	0.00	1814.47	0.00	0.00	0.00	0.36	0.00	0.36	1814.47	1814.83
Feb-23	761.45	761.45	0.00	0.00	0.00	761.45	0.00	0.00	0.00	0.00	0.00	0.00	761.45
Mar-23	939.46	939.46	0.00	0.00	939.46	0.00	0.00	0.00	0.25	0.00	0.25	939.46	939.71
Apr-23	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
May-23	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
Jun-23	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
Jul-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.99	2.99	0.00	2.99
Aug-23	16.16	16.16	0.00	0.00	0.00	16.16	0.00	0.00	0.00	16.83	16.83	0.00	32.99
Sep-23	95.49	95.49	0.00	0.00	0.00	95.49	0.00	0.00	0.00	4.25	4.25	0.00	99.74
Oct-23	69.96	69.96	0.00	0.00	0.00	69.96	0.00	0.00	0.00	15.83	15.83	0.00	85.79
Nov-23	29.24	29.24	0.00	0.00	0.00	29.24	0.00	0.00	0.00	10.57	10.57	0.00	39.81
Dec-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.64	17.64	0.00	17.64
Jan-24	16.05	16.05	0.00	0.00	0.00	16.05	0.00	0.00	0.00	21.88	21.88	0.00	37.93
Total	9058.95	9058.95	0.00	0.00	7062.93	1996.02	0.00	0.00	0.97	89.99	90.96	7062.93	9149.91

^{*}Chemical waste, Wasted oil density 0.9kg/L



C21W18 Monthly Waste Flow Table

			ties of Inert Con Generated Month	struction Waste	Actual Quantities of Non-inert Construction Waste Generated Monthly									
	Month	(a)=(b)+(c)	(b)	(c)	Recycled	Recycled	Recycled	Recycled		General Refuse				
		Total Quantity Generated	Reused in other Projects	Disposed of as Public Fill	Timber	Metals	Paper/ cardboard	Plastic	Chemical Waste	disposed of at Landfill				
Year		(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)				
	Jan	-	-	-	-	-	-	-	-	-				
	Feb	754.38	0	754.38	0	0.017	0.129	0.038	0	22.27				
	Mar	1464.86	0	1464.86	0	0.014	0.087	0.024	0	13.51				
	Apr	1005.98	0	1005.98	0	0.007	0.025	0.013	0	11.94				
	May	1723.58	0	1723.58	0	0.008	0.039	0.018	0	14.46				
	Jun	944.13	0	944.13	0	0.025	0.022	0.102	0	14.01				
2023	Sub-total	5892.93	0	5892.93	0	0.071	0.302	0.195	0	76.19				
2023	Jul	1174.60	0	1174.60	0	0.012	0.044	0.012	0	31.92				
	Aug	2287.72	0	2287.72	0	0.023	0.075	0.02	0	37.33				
	Sep	2404.54	0	2404.54	0	0.007	0.022	0.015	0	10.12				
	Oct	4354.08	0	4354.08	0	0.007	0.015	0.021	0	8.9				
	Nov	3550.04	0	3550.04	0	0.010	0.025	0.020	0	19.84				
	Dec	4333.88	0	4333.88	0	0.010	0.008	0.015	0	118.82				
	Sub-total	18104.86	0	18104.86	0	0.069	0.189	0.103	0	226.93				
	Jan	3567.51	0	3567.51	0	0	0.076	0.003	0	13.18				
	Feb	-	-	-	-	-	-	-	-	-				
	Mar	-	-	-	-	-	-	-	-	-				
	Apr	-	-	-	-	-	-	-	-	-				
	May	-	-	-	-	-	-	-	-	-				
	Jun	-	-	-	-	-	-	-	-	-				
2024	Sub-total	3567.51	0	3567.51	0	0	0.076	0.003	0	13.18				
2024	Jul	-	-	-	-	-	-	-	-	-				
	Aug	-	-	-	-	-	-	-	-	-				
	Sep	-	-	-	=	-	-	-	-	-				
	Oct	-	-	-	-	-	-	-	-	-				
	Nov	-	-	-	-	-	-	-	-	-				
	Dec	-	-	-	=	-	-	-	-	-				
	Sub-total	0	0	0	0	0.000	0.000	0.000	0	0				
Т	otal	27565.30	0.00	27565.30	0.00	0.14	0.57	0.30	0.00	316.30				

Note: Due to update delay of EPD transaction record, the data of Jan 2024 is updated till 21/1/2024.

Appendix I. Status of Environmental Permits and Licences

Table I.1: Summary of Environmental Licenses and Permits - Marine Section (January 2024)

Type of Licence / Permit	Reference No.	Valid From	Valid Until	Remark
Environmental Permit	EP-581/2020	5 Oct 2020	End of Project	N/A
Billing Account for Disposal of Construction Waste	7043487	18 Mar 2022	End of Project	N/A
Construction Dust Notification under APCO	477560	10 Mar 2022	N/A	N/A
	GW-RS0644-23	15 Aug 2023	14 Feb 2024	Superseded by GW- RS0046-24
Construction Noise Permit	GW-RS0046-24	15 Feb 2024	14 Aug 2024	Superseded GW- RS0644-23
	GW-RS0895-23	20 Oct 2023	17 Apr 2024	N/A
Chemical Waste Producer	5213-951-G2961-01	19 Apr 2022	End of Project	N/A
Water Discharge License – Marine	WT00044182-2023	23 Aug 2023	31 Aug 2028	N/A

Table I.2: Summary of Environmental Licenses and Permits - Land Section (January 2024)

Type of Licence / Permit	Reference No.	Valid From	Valid Until	Remark
Environmental Permit	EP-581/2020	5 Oct 2020	End of Project	N/A
Billing Account for Disposal of Construction Waste	7044291	27 Jun 2022	End of Project	N/A
Construction Dust Notification under APCO	480843	10 Jun 2022	N/A	N/A
Construction Noise Permit	GW-RS0630-23	31 Jul 2023	30 Jan 2024	Expired during reporting period
Construction Noise Femili	GW-RS0027-24	31 Jan 2024	30 Jul 2024	Superseded GW- RS0630-23
Chemical Waste Producer	5213-951-C1169-68	23 Jun 2022	End of Project	N/A
Water Discharge License	WT00042879-2022	17 Apr 2023	31 Jan 2028	Variation of discharge license WT00042879-2022 granted on 4 Jan 2023.
Water Discharge License	WT00042680-2022	29 Aug 2023	31 Jan 2028	Variation of discharge license WT00042680-2022 granted on 9 Jan 2023.

Appendix J. Environmental Mitigation Measures Implementation Status

Environmental Mitigation Measures Implementation Status (January 2024)

Recommended Mitigation Measures for Air Quality Impact

PP Ref.	EM&A Ref.	Recommended Mitigation Measures	Mitigation Measures Implemented? ^ (Marine Section)	Mitigation Measures Implemented? ^ (Land Section)
		 Relevant control measures as required in the Air Pollution Control (Construction Dust) Regulation shall be implemented to minimise dust impact. 	Rem	Obs
		Skip hoist for material transport should be totally enclosed by impervious sheeting.	N/A	Yes
		 All dusty materials should be sprayed with water prior to any loading, unloading or transfer operation to maintain the dusty materials wet. 	N/A	Yes
		 All stockpiles of aggregate or spoil should be covered and/or water applied. 	Obs	Yes
S6.1.1	S4.2.1	 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	Yes
		 Immediately before leaving a construction site, every vehicle shall be washed to remove any dusty materials from its body and wheels. 	N/A	Obs
		 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. 	N/A	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	Yes
Recomm	ended Miti	gation Measures for Noise Impact		
PP Ref.	EM&A Ref.	Recommended Mitigation Measures	Mitigation Measures Implemented? ^ (Marine Section)	Mitigation Measures Implemented? ^ (Land Section)
		Only well-maintained plant should be operated on-site and plant should be serviced regularly.	Yes	Obs
S6.2.1	S5.2.1	Silencers or mufflers on construction plant should be utilised.	Yes	N/A
		Mobile plant should be sited as far away from sensitive uses as possible.	Yes	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	Yes
		• 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	Yes
		 Material stockpiles and other structures such as site hoarding should be effectively utilised to screen noise from on-site construction activities. 	N/A	Yes
		 Noisy construction activities such as road breaking, should be scheduled to less sensitive hours during the day, e.g. midday. 	Yes	Yes
ecomm	ended Miti	gation Measures for Water Quality Impact		
PP Ref.	EM&A Ref.	Recommended Mitigation Measures	Mitigation Measures Implemented? ^ (Marine Section)	Mitigation Measures Implemented? ^ (Land Section)
S6.3.1	S6.2.1	 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	N/A
S6.3.1	S6.2.1	 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	N/A
S6.3.1- S6.3.2	S6.2.1	• 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	N/A
S6.3.1	S6.2.1	 For in-situ construction method, concrete would be delivered from existing concrete batching plants off-site to avoid on site concrete batching activity. During the in-situ bridge deck concreting, the concrete should be pumped or lifted inside an enclosed container for concreting the deck. Tarpaulin plastic sheet should be mounted at the bottom of the temporary working platform for concreting to prevent concrete from falling to the sea. 	Yes	N/A

PP Ref.	EM&A Ref.	Recommended Mitigation Measures	Mitigation Measures Implemented? ^ (Marine Section)	Mitigation Measures Implemented? ^ (Land Section)
S6.3.1	S6.2.1	 The marine works of the Project should be proactively planned and coordinated to avoid any concurrent marine works below seawater level with those of ITT-BVB to minimise cumulative water quality impact during construction phase. 	Yes	N/A
S6.3.1	S6.2.1	 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. 	Yes	Yes
\$6.3.1	S6.2.1	 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. 	Rem	Obs
S6.3.1	S6.2.1	• 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.	N/A	Yes
S6.3.1	S6.2.1	 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. 	N/A	Yes
S6.3.1	S6.2.1	 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. 	N/A	Yes
S6.3.1	S6.2.1	 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 	N/A	Obs

PP Ref.	EM&A Ref.	Recommended Mitigation Measures	Mitigation Measures Implemented? ^ (Marine Section)	Mitigation Measures Implemented? ^ (Land Section)
		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.		
S6.3.1	S6.2.1	 Good site practices should be adopted to remove rubbish and litter from construction sites so as to prevent the rubbish and litter from spreading from the site area. It is recommended to clean the construction sites on a regular basis. Also, the following mitigation measures related to the transportation of the sediment should be implemented to minimise the potential water quality impact: 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/ storm drains; The barge/ dump truck transporting the excavated marine-based sediment/ land-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; and Monitoring of the barge/ dump truck loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels/ dump truck shall be equipped with automatic self-monitoring devices as specified by the Director of Environmental Protection (DEP). 	N/A	Yes
S6.3.1	S6.2.1	 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. 	Yes	Yes
S6.3.1	S6.2.1	 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. 	N/A	Yes
S6.3.1	S6.2.1	• 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 onsite 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	Obs
S6.3.1	S6.2.1	 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 	Yes	Yes

PP Ref.	EM&A Ref.	Recommended Mitigation Measures	Mitigation Measures Implemented? ^ (Marine Section)	Mitigation Measures Implemented? ^ (Land Section)
		construction workforce. A licensed waste collector should be deployed to clean the chemical toilets on a regular basis.		
S6.3.1	S6.2.1	 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	Yes
S6.3.1	S6.2.1	 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	Yes
S6.3.1	S6.2.1	 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. 	Yes	Yes
S6.3.1	S6.2.1	 Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport. Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents. Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area. 	Obs	Obs
Recomm	ended Miti	gation Measures for Waste Management		
PP Ref.	EM&A Ref.	Recommended Mitigation Measures	Mitigation Measures Implemented? ^ (Marine Section)	Mitigation Measures Implemented? ^ (Land Section)
S6.4.1-	07.04	 Good Site Practices: 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	Yes
S6.4.2	S7.2.1	 Training of site personnel in site cleanliness, concepts of waste reduction, reuse and recycling, proper waste management and chemical waste handling procedures. 	Yes	Yes
		Provision of sufficient waste reception/ disposal points, and regular collection of waste.	Yes	Yes

PP Ref.	EM&A Ref.	Recommended Mitigation Measures	Mitigation Measures Implemented? ^ (Marine Section)	Mitigation Measures Implemented? ^ (Land Section)
		 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	Yes
		Provision of regular cleaning and maintenance programme for drainage systems and sumps.	Yes	Yes
		 Adoption of a recording system for the amount of wastes generated, recycled and disposed (including the disposal sites). 	Yes	Yes
		 Preparation of Waste Management Plan (WMP), as part of the Environmental Management Plan (EMP). 	Yes	Yes
	S7.2.1	Waste Reduction Measures: 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	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. 	N/A	N/A
		Recycle any unused chemicals or those with remaining functional capacity.	N/A	N/A
S6.4.1		Maximise the use of reusable steel formwork to reduce the amount of C&D materials.	Yes	N/A
		 Adopt proper storage and site practices to minimise the potential for damage to, or contamination of construction materials. 	Yes	Yes
		 Plan the delivery and stock of construction materials carefully to minimise the amount of waste generated. 	Yes	Yes
		 Minimise over ordering and wastage through careful planning during purchasing of construction materials. 	Yes	Yes
S6.4.1	S7.2.1	 <u>C&D materials:</u> The C&D materials generated should be sorted on-site into inert C&D materials (that is, public fill) and non-inert (C&D waste). 	Yes	Yes
S6.4.1	S7.2.1	 To minimise the impact resulting from collection and transportation of C&D materials as far as practicable, C&D waste, such as wood, plastic, steel and other metals should be reused or recycled and, as a last resort, disposed to landfill. 	N/A	N/A
S6.4.1	S7.2.1	 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	Yes
00		Covering materials during heavy rainfall.	N/A	Yes
		Locating stockpiles to minimise potential visual impacts.	Yes	Yes

PP Ref.	EM&A Ref.	Recommended Mitigation Measures	Mitigation Measures Implemented? ^ (Marine Section)	Mitigation Measures Implemented? ^ (Land Section)
		Minimising land intake of stockpile areas as far as possible.	N/A	Yes
		 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	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. 	Yes	N/A
S6.4.1	S7.2.1	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.	Obs	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. 	N/A	N/A
		 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	Yes
\$6.4.1- \$6.4.2	S7.2.1	<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 Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.	Yes	Obs
		 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	Yes
		 Any unused chemicals or those with remaining functional capacity should be collected for reuse as far as practicable. 	Yes	N/A
		 Trip ticket system shall be implemented to prevent illegal dumping in accordance with the "Trip Ticket System for Disposal of Construction and Demolition Materials'. 	Yes	Yes

PP Ref.	EM&A Ref.	Recommended Mitigation Measures	Mitigation Measures Implemented? ^ (Marine Section)	Mitigation Measures Implemented? ^ (Land Section)
	S7.2.1	 Sediment: The sediment should be excavated, handled, treated, transported and/or disposed of in a manner that would minimise adverse environmental impacts. 	N/A	Yes
		 Relevant ordinances (such as Waste Disposal Ordinance, Air Pollution Ordinance (Construction Dust) Regulation and Water Pollution Control Ordinance) shall be complied with during the excavation and handling of the sediment. 	N/A	Yes
S6.4.1 & S6.4.3		• The temporary stockpiling area should be placed within earth bunds or sand bags to prevent leachate from entering the ground, nearby drains and surrounding water bodies. The temporary stockpiling 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, treated 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.	N/A	Obs / Rem
S6.4.1	S7.2.1	 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	N/A
\$6.4.1, 6.4.3	S7.2.1	 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. 	N/A	N/A
		 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	N/A
S6.4.1	S7.2.1	 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	N/A
		 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 	N/A	Yes

PP Ref.	EM&A Ref.	Recommended Mitigation Measures	Mitigation Measures Implemented? ^ (Marine Section)	Mitigation Measures Implemented? ^ (Land Section)
		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).		
		 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/ dump truck shall be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water/ storm drains. 	N/A	Yes
		 The barge/ dump truck 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/ dump truck loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels/ dump truck shall be equipped with automatic self- monitoring devices as specified by the DEP. 	N/A	Yes
S6.4.1	S7.2.1	Potential Floating Refuse: 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.	Rem	Obs
Recomm	ended Miti	gation Measures for Marine Ecological Impact		
PP Ref.	EM&A Ref.	Recommended Mitigation Measures	Mitigation Measures Implemented? ^ (Marine Section)	Mitigation Measures Implemented? ^ (Land Section)
-	-	No underwater percussive piling shall be conducted in this Project	Yes	N/A
S6.5.1	\$8.2.1	 Based upon a precautionary approach, a speed limit of 10 knots should be strictly enforced on all construction-related vessels. 	Yes	N/A
S6.5.1	S8.2.1	 Good site practices, guidelines and mitigation measures detailed in Water Quality Sections 6.3.1 of the Project Profile should be adopted to further alleviate water quality impacts. 	Yes	N/A

Recommended Mitigation Measures for Landscape and Visual Impact

PP Ref.	EM&A Ref.	Recommended Mitigation Measures	Mitigation Measures Implemented? ^	Mitigation Measures Implemented? ^
			(Marine Section)	(Land Section)
S6.6.1	S9.3.1	All affected trees will be felled and compensated, no transplantation is required.	N/A	Yes
S6.6.1	S9.3.1	 Optimising construction activities, e.g. minimising extent of temporary works area, installing site hoardings and minimising illumination on non-target areas. 	Yes	Yes
S6.6.1	S9.3.1	Minimise construction periods where possible.	Yes	Yes
S6.6.1	S9.3.1	Early establishment of planting areas as far as appropriate.	N/A	Yes
S6.6.1	S9.3.1	Erection of decorative mesh screen or construction hoardings.	N/A	Yes
S6.6.1	S9.3.1	Control of night-time lighting.	N/A	N/A
S6.6.1	S9.3.1	 Temporary vertical greening, screen / buffer at-grade planting to soften the engineering structure of construction works. 	N/A	N/A
S6.6.1	S9.3.1	 Tree preservation in accordance with Development Bureau Technical Circular (Works) No. 4/2020 (ref: DEVB(GLTM) 200/2/1/1). 	N/A	Yes
S6.6.1	S9.3.1	Proposed tree felling / tree compensation.	N/A	Yes
Others				
PP Ref.	EM&A Ref.	Recommended Mitigation Measures	Mitigation Measures Implemented? ^ (Marine Section)	Mitigation Measures Implemented? ^ (Land Section)
-	-	 A copy of the valid Environmental Permit shall be displayed conspicuously on the Project site(s) at all vehicular site entrances/exits or at a convenient location for public's information at all times. The most updated information about the Permit, including any amended Permit, shall be displayed at such locations. If the Permit Holder surrenders a part or whole of the Permit, the notice he send to the Director shall also be displayed at the same locations as the original Permit. The suspended, varied or cancelled Permit shall be removed from display at the Project site(s). 	Yes	Yes
-	-	 The required licences should be obtained by the Contractor (including CNP (if any), WPCO licence, etc. 	Yes	Yes

Notes:

Yes = Implemented where applicable

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