

Airport City Link

Monthly EM&A Report for June 2024 July 2024

Airport Authority Hong Kong

Mott MacDonald 3/F Manulife Place 348 Kwun Tong Road Kwun Tong Kowloon Hong Kong

T +852 2828 5757 mottmac.hk

Airport Authority Hong Kong

Airport City Link

Monthly EM&A Report for June 2024

July 2024

This Submission of Construction Phase Monthly

Environmental Monitoring and Audit (EM&A) Report for June 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:

Mum Cler

Ir Thomas Chan Environmental Team Leader (ETL) Mott MacDonald Hong Kong Limited

Date

11 July 2024



AECOM 12/F. Grand Central Plaza. Tower 2. 138 Shatin Rural Committee Road, Shatin, Hong Kong 香港新界沙田鄉事會路138號 新城市中央廣場第2座12樓 www.aecom.com

+852 3922 9000 tel +852 3922 9797 fax

Your Ref: Our Ref: 60664934/C/FYW24071101

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)

11 July 2024

Dear Sir,

Contract C21C02 – Independent Environmental Checker Consultancy Services for Airport City Link

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

Reference is made to the Environmental Team's submission of Monthly EM&A Report for June 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 11 July 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 23rd 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 30 June 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
- Segment construction works
- Bridge deck construction works

Land Section

- Underground utilities diversion work
- Bored pile work
- Pile cap
- ELS
- Erection of tower crane
- Erection of temporary platform / working platform
- Construction of crosshead on Pier 2
- Building at platform
- Construction of crosshead and segment on pier

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
Weekly environmental site inspections (Marine Section)	4
Weekly environmental site inspections (Land Section)	4

Breaches of Action and Limit Levels

Water Quality

The post-construction water quality monitoring has been completed 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
- Segment construction works
- Bridge deck construction works

Land Section

- Construction of pile cap
- Erection of tower crane
- Erection of temporary platform / working platform
- Construction of column structure
- Road/UU diversion
- Bored piling
- ELS
- Building at plantroom
- Construction of crosshead and segment on pier
- Construction of form traveller

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 23rd Monthly EM&A report summarising the key findings of the construction phase EM&A programme from 1 to 30 June 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**.

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

Table 1.1: Contact Information of Key Personnel

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 (until 2 Jul 2024)	Elena Lai	6841 3324
	Environmental Officer (from 3 Jul 2024)	Ariana Chan	6449 3086
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
- Segment construction works
- Bridge deck construction works

Land Section

- Underground utilities diversion work
- Bored pile work
- Pile cap
- ELS
- Erection of tower crane
- Erection of temporary platform / working platform
- Construction of crosshead on Pier 2
- Building at platform
- Construction of crosshead and segment on pier

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**.

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.

2. 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.

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

Table 2.2: Impact Water Quality Monitoring Equipment

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.

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.

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

Table 2.3: Derived Action and Limit Levels

Notes:

1. For DO measurement, non-compliance occurs when the monitoring result is lower than the limits.

For parameters other than DO, non-compliance of water quality occurs when the monitoring result is higher 2. than the limits.

3. Depth-averaged results are used unless specified otherwise.

Impact station M3 is represents the impact station SR1A of "Expansion of Hong Kong International Airport into 4 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.

Event and Action Plan 2.3.2

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 E shall be carried out.

2.4 **Post-Construction Water Quality Monitoring**

Monitoring Requirement, Locations and Parameters 2.4.1

The post-construction water quality monitoring of the Project was 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 post-construction water quality monitoring was commenced on 16 December 2023 and completed on 12 January 2024.

2.5 Water Quality Monitoring Results

2.5.1 Impact Water Quality Monitoring

The impact water quality monitoring was terminated after 15 December 2023.

2.5.2 Post-Construction Water Quality Monitoring

The post-construction water quality monitoring has been completed and the results for DO, turbidity and SS will be reported in the Final EM&A Review Report under this Project.

2.6 Conclusion

The post-construction water quality monitoring has been completed.

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 4, 12, 18 and 26 June 2024 for marine section. Joint IEC site inspection for marine section was carried out on 18 June 2024. Monthly landscape and visual site audit was carried out on 18 June 2024.

Land Section

During the reporting period, site inspections were carried out on 3, 13, 17 and 24 June 2024 for land section. Joint IEC site inspection for land section was carried out on 24 June 2024. Monthly landscape and visual site audit was carried out on 24 June 2024.

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

on the pile cap of Pier 7.refuse and prevent any materials from falling into the sea to minimise potential floating refuse.12 Jun4 Jun 2024Chemical containers were observed without drip tray at Pier 4.The Contractor should provide drip trays for the chemical containers to avoid any potential spillage.12 Jun4 Jun 2024Construction materials were observed stockpiled on the pile cap of Pier 8.The Contractor should place the materials at area with bunds and prevent any materials from falling into the sea to minimise potential refuse.12 Jun12 Jun 2024Construction debris were observed on the temporary platform at Pier 4.The Contractor should clear the debris and prevent any materials from falling into the sea to minimise potential floating refuse.18 Jun 202418 Jun 2024Chemical containers wereThe Contractor should provide drip26 Jun	Inspection Date	Key Observations / Reminders	Recommendations / Actions	Close-Out Date
4 Jun 2024Construction materials were observed stockpiled on the pile cap of Pier 8.The Contractor should place the materials at area with bunds and prevent any materials from falling into the sea to minimise potential refuse.12 Jun 12 Jun 18 Jun 202412 Jun 2024Construction debris were observed on the temporary 	28 May 2024		refuse and prevent any materials from falling into the sea to minimise	4 Jun 2024
observed stockpiled on the pile cap of Pier 8.materials at area with bunds and prevent any materials from falling into the sea to minimise potential refuse.12 Jun 202412 Jun 2024Construction debris were observed on the temporary platform at Pier 4.The Contractor should clear the debris and prevent any materials from falling into the sea to minimise potential floating refuse.18 Jun 202418 Jun 2024Chemical containers wereThe Contractor should provide drip26 Jun	4 Jun 2024	observed without drip tray at Pier	trays for the chemical containers to	12 Jun 2024
observed on the temporary platform at Pier 4.debris and prevent any materials from falling into the sea to minimise potential floating refuse.18 Jun 2024Chemical containers wereThe Contractor should provide drip26 Jul	4 Jun 2024	observed stockpiled on the pile	materials at area with bunds and prevent any materials from falling into the sea to minimise potential	12 Jun 2024
······································	12 Jun 2024	observed on the temporary	debris and prevent any materials from falling into the sea to minimise	18 Jun 2024
7. avoid any potential spillage.	18 Jun 2024	observed without drip tray at Pier	trays for the chemical containers to	26 Jun 2024

Table 3.1: Summary of Site Inspections and Recommendations

Land Section				
Inspection Date	Key Observations / Reminders	Recommendations / Actions	Close-Out Date	
27 May 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.	3 Jun 2024	
17 Jun 2024	Rainwater was observed accumulated in the drip tray after rainy event.	The Contractor should clean up the rainwater as accumulated in the drip tray to ensure adequate capacity of drip tray.	24 Jun 2024	
17 Jun 2024	General refuse was observed on the ground. (Reminder)	The Contractor was reminded to provide a receptacle for proper collection of refuse and regularly clear the general refuse.	17 Jun 2024	
24 Jun 2024	No drip tray was provided for the chemical container.	The Contractor should provide a drip tray for the chemical container to prevent any potential spillage.	Ongoing	
24 Jun 2024	Soil materials were observed near the shoreline to open sea. (Reminder)	The Contractor was reminded to implement proper mitigation measures to prevent any seepage of soil materials and surface runoff to the sea.	24 Jun 2024	
24 Jun 2024	Exposed soil stockpile was observed. (Reminder)	The contractor was reminded to provide sufficient dust suppression measures (e.g. water spraying) for the soil stockpile.	24 Jun 2024	

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 F.**

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

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 H**. Environmental Mitigation Measures Implementation Status. 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 has been completed on 12 January 2024 and the results for DO, turbidity and SS will be reported in the Final EM&A Review Report under this Project.

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 (June 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 (July 2024) are summarized in **Table 4.1**.

Marine Section	
Period	Description of Activities
July 2024	 Plant mobilization and material delivery Segment construction works Bridge deck construction works
Land Section	
Period	Description of Activities
July 2024	 Construction of pile cap Erection of tower crane Erection of temporary platform / working platform Construction of column structure Road/UU diversion Bored piling ELS Building at plantroom Construction of crosshead and segment on pier Construction of form traveller

 Table 4.1: Construction Activities for the Next Reporting Period

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 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 has been completed on 12 January 2024 and the results for DO, turbidity and SS will be reported in the Final EM&A Review Report under this Project.

Environmental Site Inspections

Environmental site inspections were carried out 4 times for marine section and 4 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.

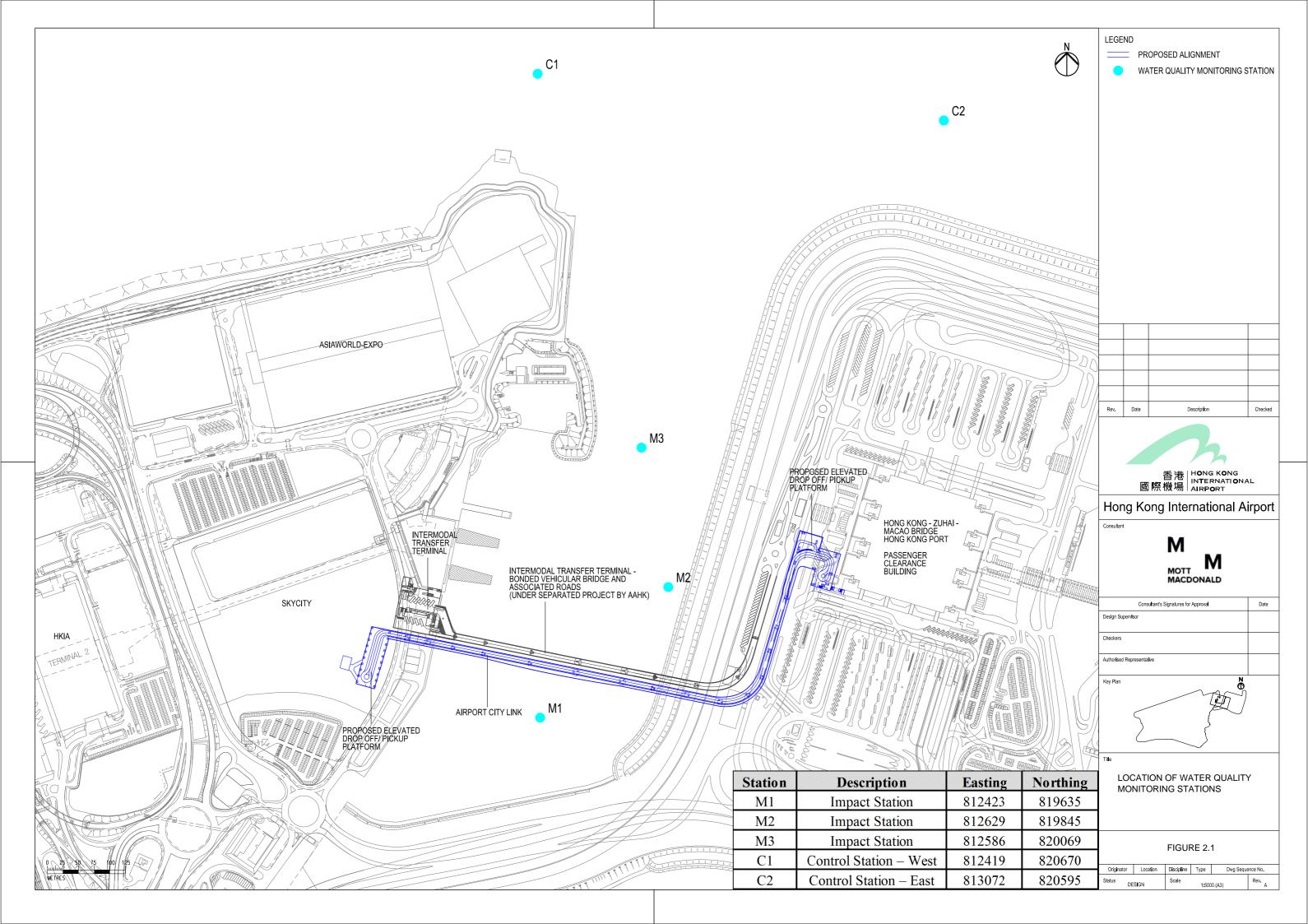
Notifications of Summons and Successful Prosecutions

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



17

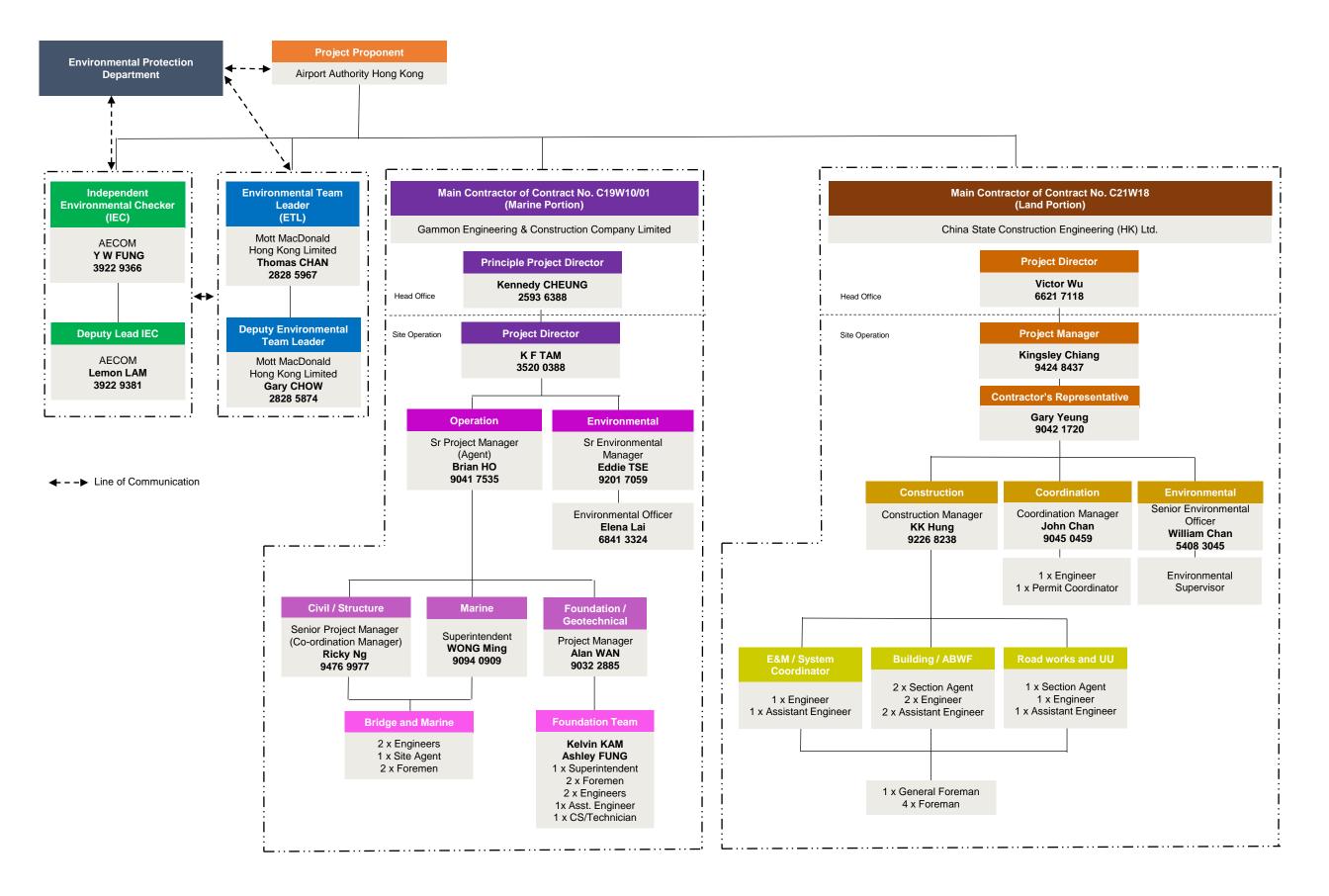
Figure 2.1 Water Quality Monitoring Locations



Appendices

Appendix A. Project Organisation

Management Organizations for EP Condition 2.3



Appendix B. Construction Works Programme

Marine Section

<i>v</i> ity ID	Activity Name	Orig Dur	BL Project Start	BL Project Finish	Start	Finish	Total Float	Remaining Duration	Physical % Complete	Jun 29	
9W10/01 - ACL - Mitigatio	I on Programme Rev. D Updated as of 30 Jun 2024	I			1					29	
Contract Dates											
Project Key Date 19W10.A.C0W745	Ormal-Far of the Wester	0		00 Mar 04		40.0 0.4*	4.40	0	00/		
Statutory Submission	Completion of the Works	0		29-Mar-24		18-Sep-24*	-148	0	0%		
19W10.A.C0W895	Design Preparation, Submissoin and Approval for Navigation Aids	100	02-Feb-23	29-May-23	01-May-23 A	02-Jul-24	-119	2	80%		
19W10.A.C0W960	Submission of Final Version of O&M Manuals and As Constructed Drawings (as per APS APp	0	28-Feb-24		15-Jul-24*		-107	0	0%		ব
19W10.A.C0W985	Submission of Final Version of Documents for BA14 Submission	0	28-Feb-24		15-Jul-24*		-107	0	0%		য
19W10.A.C0W975	Final Version of O&M Manuals and As Constructed Drawings (as per APS APpendix C3/SA)	0		28-Mar-24		16-Aug-24	-107	0	0%		
19W10.A.C0W965	Submissions and Approval of Q&M Manuals and As-Cosntructred Drawings	26	28-Feb-24	28-Mar-24	15-Jul-24	16-Aug-24	-107	26	0%		
19W10.A.C0W995	Submissions and Approval of Final Version of Documents for BA14 Submission	26	28-Feb-24	28-Mar-24	15-Jul-24	16-Aug-24	-107	26	0%		
19W10.A.C0W998	Final Version of Documents and ready for BA14 Submission by Others	0		28-Mar-24		16-Aug-24	-107	0	0%		
Marine Viaduct Erection											
ACL P6 Span	Stressing DE 9, DC Pottom Tandon	4	20 Cor 02	05 Oct 22	21 May 24 A	01 1		0	1000/		
19W10.U.SD432 19W10.U.SD442	Stressing P5 & P6 Bottom Tendon Grouting C-tendon Between P5 & P6	4	28-Sep-23 06-Oct-23	05-Oct-23 12-Oct-23	31-May-24 A 01-Jun-24 A	01-Jun-24 A 03-Jun-24 A		0	100%		
19W10.U.SD442	Grouting C-tendon Between P5 & P6 Grouting Bottom Tendon Between P5 & P6	3	13-Oct-23	12-Oct-23	01-Jun-24 A 01-Jun-24 A	03-Jun-24 A 03-Jun-24 A		0			
ACL P4 Span		5	10 001-20	10 00-20	01-0011-24 A	00-0uii-24 A		U	100 /0		
19W10.U.SD322	Cantilever Segment Erection (7 Cycles, 10 days per cycle)	20	06-Nov-23	13-Jan-24	10-May-24 A	19-Jul-24	-130	17	70%		
19W10.U.SD462	Casting the Stitching Between P4 & P5	7	15-Jan-24	22-Jan-24	20-Jul-24	27-Jul-24	-130	7	0%		
19W10.U.SD472	Stressing P4 & P5 Bottom Tendon	2	23-Jan-24	24-Jan-24	21-Aug-24	22-Aug-24	-145	2	0%		
19W10.U.SD482	Grouting C-tendon Between P4 & P5	4	25-Jan-24	29-Jan-24	23-Aug-24	27-Aug-24	-142	4	0%		
19W10.U.SD492	Grouting Bottom Tendon Between P4 & P5	2	30-Jan-24	31-Jan-24	28-Aug-24	29-Aug-24	-142	2	0%		
ACL P7 Span											
19W10.U.SD352	Cantilever Segment Erection (7 Cycles, 10 days per cycle)	35	21-Sep-23	28-Nov-23	25-May-24 A	09-Aug-24	-148	35	50%		*
19W10.U.SD502	Casting the Stitching Between P6 & P7	7	29-Nov-23	06-Dec-23	10-Aug-24	17-Aug-24	-148	7	0%		
19W10.U.SD512	Stressing P6 & P7 Bottom Tendon	2	07-Dec-23	08-Dec-23	19-Aug-24	20-Aug-24	-131	2	0%		
19W10.U.SD522	Grouting C-tendon Between P6 & P7	4	09-Dec-23	13-Dec-23	21-Aug-24	24-Aug-24	-126	4	0%		
19W10.U.SD532	Grouting Bottom Tendon Between P6 & P7	2	14-Dec-23	15-Dec-23	26-Aug-24	27-Aug-24	-126	2	0%		
ACL P3 Span	Chroning D2 D4 Dattary Tanden	2	05 Fab 24	06 Eab 24	20 14 24	20 14 24	110	0			
19W10.U.SD552 19W10.U.SD562	Stressing P3-P4 Bottom Tendon Grouting C-tendon Between P3 & P4	2	05-Feb-24	06-Feb-24 14-Feb-24	29-Jul-24	30-Jul-24	-118	2	0%		
19W10.U.SD572	Grouting Bottom Tendon Between P3 & P4	4	07-Feb-24 15-Feb-24	14-Feb-24	01-Aug-24 06-Aug-24	05-Aug-24 07-Aug-24	-110 -110	2	0%		
ACL P8 Span		2	13-160-24	10-1 60-24	00-Aug-24	07-Aug-24	-110	2	0 78		
19W10.U.SD582	Erection of P8 End Span	5	29-Nov-23	27-Dec-23	29-May-24 A	06-Jul-24	-101	5	70%		
19W10.U.SD592	Stressing P7-P8 Bottom Tendon		23-Jan-24	24-Jan-24	19-Aug-24	20-Aug-24	-134	2	0%		
19W10.U.SD602	Grouting C-tendon Between P7 & P8	4	25-Jan-24	29-Jan-24	21-Aug-24	24-Aug-24	-133	4	0%		
19W10.U.SD612	Grouting Bottom Tendon Between P7 & P8	2	30-Jan-24	31-Jan-24	26-Aug-24	27-Aug-24	-133	2	0%		
Installation of Drainage P	ipe										
Main Carriage Drain Insi		1		1		1					
19W10.A.C0W380	P5-P6 Span		17-Oct-23	01-Nov-23	01-Jul-24	05-Jul-24	-90	5	0%		
19W10.A.C0W390	P6-P7 Span	5	16-Dec-23	03-Jan-24	28-Aug-24	02-Sep-24	-140	5	0%		
19W10.A.C0W400	P7-P8 Span		01-Feb-24	19-Feb-24	28-Aug-24	02-Sep-24	-140	5	0%		
19W10.A.C0W360	P3-P4 Span		17-Feb-24	02-Mar-24	30-Aug-24	04-Sep-24	-142 -142	5	0%		
19W10.A.C0W370	P4-P5 Span	5	01-Feb-24	19-Feb-24	30-Aug-24	04-Sep-24	-142	5	0%		
125mm dia. Drainage Pi 19W10.A.C0W450	P5-P6 Span	14	06-Oct-23	24-Oct-23	01-Jul-24	16-Jul-24	-93	14	0%		
19W10.A.C0W430	P3-P4 Span	14	07-Feb-24	24-00-23 26-Feb-24	31-Jul-24	15-Aug-24	-119	14	0%		
19W10.A.C0W460	P6-P7 Span	14	09-Dec-23	27-Dec-23	21-Aug-24	05-Sep-24	-137	14	0%		
19W10.A.C0W470	P7-P8 Span		25-Jan-24	09-Feb-24	21-Aug-24	05-Sep-24	-137	14	0%		
19W10.A.C0W440	P4-P5 Span		25-Jan-24	09-Feb-24	23-Aug-24	07-Sep-24	-139	14	0%		
	y Inside the Deck Void (328m)										
19W10.A.C0W520	P5-P6 Span	5	02-Nov-23	09-Nov-23	06-Jul-24	11-Jul-24	-90	5	0%		
19W10.A.C0W530	P6-P7 Span	5	04-Jan-24	11-Jan-24	03-Sep-24	07-Sep-24	-140	5	0%		
19W10.A.C0W540	P7-P8 Span	5	20-Feb-24	27-Feb-24	03-Sep-24	07-Sep-24	-140	5	0%		1

Three-Month Rolling Programme (as of 30 June 2024)

Actual Work

Milestone

Remaining Work

Critical Remaining Work

 \diamond

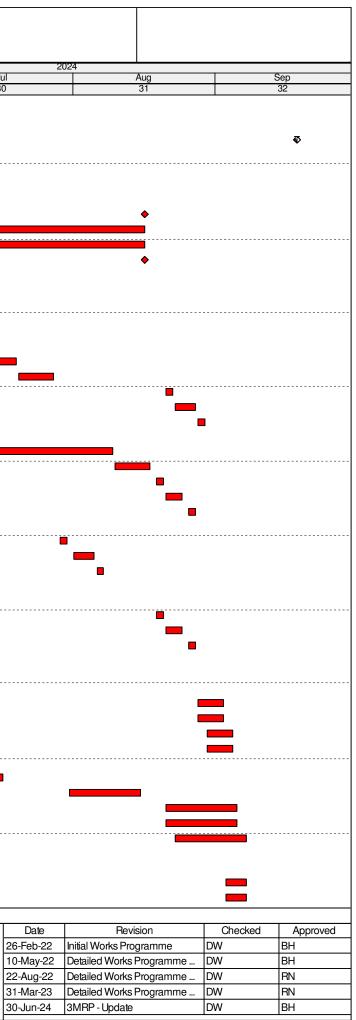
₽

Proiect Baseline

O Baseline Milestone

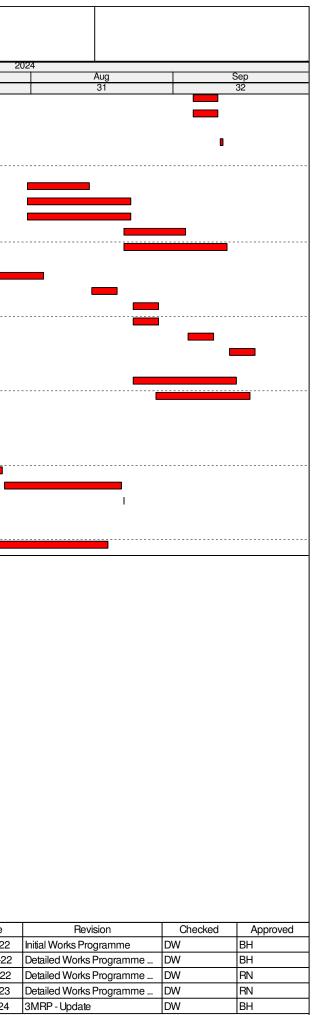
Start Constraint ₽ Finish Constraint

Printed: 04-Jul-24 13:45 Layout: C19W10/01 ACL 3MR M28 TASK filter: 3 Mths Rolling.



		C19W10/0	1 - ACL - I	Vitigation I	Program	ne R	lev.D U	pdated a	as of 30 Jun 20	24
ivity ID	Activity Name	Orig BL Pr	oject BL Project	Start	Finish	Total	Remaining	Physical %		•
		Dur Start	Finish			Float	Duration	Complete	Jun 29	
19W10.A.C0W500	P3-P4 Span	5 04-Ma	-24 11-Mar-24	05-Sep-24	10-Sep-24	-142	5	0%	25	
19W10.A.C0W510	P4-P5 Span	5 20-Fet	-24 27-Feb-24	05-Sep-24	10-Sep-24	-142	5	0%		
Sealing Up the Temporary	Opening on Deck									
19W10.A.C0W550	Sealing up the Temporary Opening	1 12-Ma	-24 20-Mar-24	11-Sep-24	11-Sep-24	-142	1	0%		
Viaduct Parapet Erection										
19W10.A.C0W555	Off-site Fabrication and Delivery of Precast Parapet	180 06-Ma	/-23 20-Dec-23	11-Dec-23 A	17-Jul-24	-119	15	75%		
19W10.A.C0W560	P3-P4 Parapet (50m)	12 07-Feb	-24 27-Feb-24	31-Jul-24	13-Aug-24	-130	12	0%		
19W10.A.C0W570	P4-P5 Parapet (76m)	20 28-Feb	-24 22-Mar-24	31-Jul-24	22-Aug-24	-130	20	0%		
19W10.A.C0W580	P5-P6 Parapet (76m)	20 07-Fet	-24 05-Mar-24	31-Jul-24	22-Aug-24	-130	20	0%		
19W10.A.C0W600	P7-P8 Parapet (50m)	12 07-Feb	-24 27-Feb-24	21-Aug-24	03-Sep-24	-148	12	0%		
19W10.A.C0W590	P6-P7 Parapet (76m)	20 28-Feb	-24 22-Mar-24	21-Aug-24	12-Sep-24	-148	20	0%		
Top Railing and Road Light	ting Plinth									
19W10.A.C0W790	Off-site Fabrication and Delivery of Top Railing	30 06-Ma	/-23 20-Dec-23	01-Jul-24	03-Aug-24	-114	30	0%		
19W10.A.C0W795	P3-P4 Top Railing and Road Lighting Plinth	5 28-Feb	-24 04-Mar-24	14-Aug-24	19-Aug-24	-122	5	0%		
19W10.A.C0W805	P4-P5 Top Railing and Road Lighting Plinth	5 23-Ma	-24 28-Mar-24	23-Aug-24	28-Aug-24	-130	5	0%		
19W10.A.C0W815	P5-P6 Top Railing and Road Lighting Plinth	5 06-Ma	-24 11-Mar-24	23-Aug-24	28-Aug-24	-130	5	0%		
19W10.A.C0W835	P7-P8 Top Railing and Road Lighting Plinth	5 28-Feb	-24 04-Mar-24	04-Sep-24	09-Sep-24	-140	5	0%		
19W10.A.C0W825	P6-P7 Top Railing and Road Lighting Plinth	5 23-Ma	-24 28-Mar-24	13-Sep-24	18-Sep-24	-148	5	0%		
Erection of Staircase										
19W10.A.C0W715	At P4	20 07-Feb	-24 08-Mar-24	23-Aug-24	14-Sep-24	-145	20	0%		
19W10.A.C0W725	At P7	18 01-Feb	-24 02-Mar-24	28-Aug-24	17-Sep-24	-147	18	0%		
Fender Installation										
19W10.A.C0W865	Fender Installation at P3	0 29-Au	-23 23-Sep-23	02-Jul-24	02-Jul-24	-110	0	0%		1
19W10.A.C0W915	Fender Installation at P4	0 25-Se	-23 20-Oct-23	02-Jul-24	02-Jul-24	-110	0	0%		1
19W10.A.C0W925	Fender Installation at P5	0 21-Od	-23 14-Nov-23	02-Jul-24	02-Jul-24	-110	0	0%		1
19W10.A.C0W935	Fender Installation at P6	20 15-No	-23 07-Dec-23	02-Jul-24	25-Jul-24	-110	20	0%		
19W10.A.C0W945	Fender Installation at P7	20 08-De	-23 03-Jan-24	26-Jul-24	20-Aug-24	-110	20	0%		
19W10.A.C0W955	Fender Installation at P8	0 04-Jar	-24 26-Jan-24	21-Aug-24	21-Aug-24	-110	0	0%		
Navigation Aids Installation	n									
19W10.A.C0W875	Off-site fabrication and delivery	80 30-Ma	/-23 16-Oct-23	15-Mar-24 A	13-Jul-24	-108	10	70%		
19W10.A.C0W885	Navigation Aids Installation	27 05-Feb	-24 09-Mar-24	15-Jul-24	17-Aug-24	-108	27	0%		1

Actual LOE	•	🔶 Crit Milestone	٩	No Predecessors	Droiget ID: C10W/10/01 DW/D D M000	Data Date: 30-Jun-24	Date
Remaining LOE		Actual Milestone	Þ	No Successors	Project ID: C19W10/01-DWP-D-M282	Printed: 04-Jul-24 13:45	26-Feb-22
Actual Work	_	Project Baseline			Three-Month Rolling Programme (as of 30 June 2024)	Layout: C19W10/01 ACL 3MR M28	10-May-2
Remaining Work	\diamond	🔷 Baseline Milestone			Page 2 of 2	TASK filter: 3 Mths Rolling.	22-Aug-22
Critical Remaining Work	₽	Start Constraint			Fage 2 of 2		31-Mar-23
Milestone		₽ Finish Constraint					30-Jun-24



Land Section



Contract C21W18 - Airportcity Link - Land Viaducts at Hong Kong Port and Airport Island MU25A - 3-Month Rolling Programme (CWPG-A04) DD 30-Jun-24 (advance)

機場管理	里局 HONG KONG	(2024-04-30) BL2 (2024-04-30 BL2) Start OD	(2024-04-30 BL2) Finis	sh Prog.	Remaining Duration	Start	Finish	Physical % Remarks Complete	Total Float	
				Update OD			00 May 05	Complete	450	Jun
CO240630 - ACL - CWPG-A04	MU25A adv critical path reseq'd (from JL)	711 04-Nov-22 0 01-May-24	27-Mar-25 01-May-24	624 0	252 0	04-Nov-22 A 14-Jun-24 A	06-May-25 30-Jun-24		159 181	
Procurement		665 30-Dec-22		624	252	30-Dec-22 A	06-May-25		84	
Construction		665 04-Nov-22		550	204	04-Nov-22 A	05-Mar-25		207	
KD2 - Complete Viaducts & Platfor	rms, Associated Road Works, Facilities & At-Grade Plant Room	665 04-Nov-22	01-Feb-25	550	204	04-Nov-22 A	05-Mar-25		207	
Sky City Platform		130 17-Apr-24	20-Sep-24	122	84	17-Apr-24 A	09-Oct-24		178	
Sky City Platform - Foundation	to North & South Bound without Central Divider	68 02-May-24 68 02-May-24		100 68	68 68	17-May-24 A 02-Jul-24	19-Sep-24 19-Sep-24		194 194	
BA14 Submission for Completion of		28 12-May-24		37	3	17-May-24 A	02-Jul-24		-43	
	of Bored Pile Works - SCP Group 2 (#AD NB)	28 12-May-24		37	3	17-May-24 A	02-Jul-24		-43	
Sky City Platform - Superstructure	-BD Submission for Commencement of Works	130 17-Apr-24 34 20-May-24	20-Sep-24 28-Jun-24	122 33	84 14	17-Apr-24 A 07-Jun-24 A	09-Oct-24 17-Jul-24		-25 10	
	e - BA8 & BA10 for Commencement of Works	30 20-May-24		29	10	07-Jun-24 A	12-Jul-24		-38	
	e - BA8, BA10, BA14 for ELS Works	4 25-Jun-24		4	4	13-Jul-24	17-Jul-24		10	
Sky City Platform - Superstructure Sky City Platform - Superstructure		26 29-Jun-24 110 17-Apr-24	30-Jul-24 27-Aug-24	26 102	26 64	18-Jul-24 17-Apr-24 A	16-Aug-24 13-Sep-24		10 -5	
KD2 SCP S 1140	Group 1 - South Bound - Column S-C3 to S-C6 (4 nos x 9		11-Jul-24	53	9	17-Apr-24 A	11-Jul-24	70% #AD - plus pile caps overall 44d + 9d for	-9	
	d)							last column = 53d; Link to suc. KD2_SCP_S_1212 added		
KD2_SCP_S_1170	Group 2 - South Bound - Column S-C1 to S-C2 (2 nos x 9 d)	d/column = 18 71 17-Apr-24	12-Jul-24	71	10	17-Apr-24 A	12-Jul-24	80% #AD - plus pile caps overall 40d + last column 9d = 49d. SS 16d lag after KD2_SCP_S_1140. #Link to suc, KD2_SCV_S_1170 & KD2_SCP_S_1212 added S: S-C1 ELS & exc. 19Feb24	-9	
KD2_SCP_S_1130	Group 1 - North Bound - Column S-C9 to S-C12 (4 nos x d)	9d/column = 36 53 25-Jun-24	26-Aug-24	53	53	13-Jul-24	12-Sep-24	0% #AD - plus pile caps (@32d) overall OD 44d + 9d for column of last cap = 44+9 = 53d; link to pre. S_1220 added back; to pred F_1180 removed; Link to suc. KD2_SCP_S_1232 added	-38	
KD2_SCP_S_1150	Group 2 - North Bound - Column S-C8 (1 nos x 9d/column	n = 9 d) 39 13-Jul-24	27-Aug-24	39	39	31-Jul-24	13-Sep-24	0% #AD - plus pile caps (@30d) = 30+9 = 39; SS, 16d lag after start of KD2_SCP_S_1130. Link to suc. KD2_SCP_S_1232 added	-38	
KD2_SCP_S_1160	Group 2 - North Bound - Commence Lift Pit & Shaft at S-C Platform Deck			0	0	17-Aug-24		0% #AD - commence column S-C7 GL to deck level	. 10	
KD2_SCP_S_1162	Group 2 - North Bound - Complete Lift Pit & Shaft at S-C7 Platform Deck		09-Aug-24	0	0		27-Aug-24	0% #AD - complete column S-C7 GL to deck level	10	
Sky City Platform - Superstructure Sky City - Lift LT-01	- Cross Beam & Deck	59 13-Jul-24 9 31-Jul-24	20-Sep-24 09-Aug-24	74 9	74 9	13-Jul-24 17-Aug-24	09-Oct-24 27-Aug-24		-38 10	
Sky City - Staircase		36 31-Jul-24	10-Sep-24	36	36	17-Aug-24	28-Sep-24		35	
Sky City Viaduct		132 21-May-24	26-Oct-24	122		28-May-24 A	26-Oct-24		74	
Sky City Viaduct - Superstructure Sky City Viaduct - Pier P2		132 21-May-24 4 21-May-24		122 4	88 0	28-May-24 A 28-May-24 A	26-Oct-24		74	
KD2 SCV S 1160	Sky City Viaduct - Pier P2 - Install Bearings	4 21-May-24 4 21-May-24	24-May-24	4	0	28-May-24 A				Sky City Vi
Sky City Viaduct - Bridge Deck		88 13-Jul-24	26-Oct-24	88	88	13-Jul-24	26-Oct-24		74	
KD2_SCV_S_1170	Sky City Viaduct - Span A2 to P2 - Deck Structure	53 13-Jul-24	12-Sep-24	53	53	13-Jul-24	12-Sep-24	0% #Link to pred. KD2_SCP_S_1300 removed	74	
KD2_SCV_S_1190	Sky City Viaduct - Span P2 to P3 - Deck Structure	35 13-Sep-24		35	35	13-Sep-24	26-Oct-24	0% exclude marine truss	74	
HK Port - Platform HKP Platform - Foundation		209 28-Mar-24 94 28-Mar-24	09-Dec-24	231 106	158 33	28-Mar-24 A 28-Mar-24 A	07-Jan-25 08-Aug-24		-52 47	
HKP Platform - Statutory Submissi	ion for Completion	94 20-Mar-24 94 28-Mar-24		106	33	28-Mar-24 A	08-Aug-24		47	
	P(H-P9) #>New Batch 4: H-P4,5,8,13,19	57 28-Mar-24	08-Jun-24	57	2	28-Mar-24 A	03-Jul-24		-41	
HKP Platform - Group 5 Completic HKP Platform - Tower Crane Install	on of Bored Pile (H-P20a, H-P20b, H-P21a, H-P21b)	50 25-May-24 16 03-May-24		52	33	17-Jun-24 A	08-Aug-24		47	
HKP Platform - Superstructure		184 02-May-24		16 190	16 158	02-Jul-24 14-May-24 A	19-Jul-24 07-Jan-25		63 -52	
HKP Platform - Superstructure Por		153 15-May-24	14-Oct-24	145	107	14-May-24 A	14-Oct-24		-11	
KD2_HKPP_S_1090	HKP Platform Structure Portion 1 - Column Construction	82 15-May-24	04-Aug-24	82	36	14-May-24 A	04-Aug-24	52% #New Group 1,2,3: H-P1,2,3,6,7,10,12,16,17. Formwork+rebar PC 4/9, Col 0/9; Concrete PC 0/9, Col 0/9: overall 4/36	-11	
KD2_HKPP_S_1100	HKP Platform Structure Portion 1 - Portal Frame (Protective Installation for Beam & Deck Construction	re Fence) 69 06-Jul-24	12-Sep-24	69	69	06-Jul-24	12-Sep-24	0% #	-11	
KD2_HKPP_S_1110	HKP Platform Structure Portion 1 - Beams & Deck Constru	uction 81 26-Jul-24	14-Oct-24	81	81	26-Jul-24	14-Oct-24	0% #	-11	
HKP Platform - Superstructure Por		177 16-Jun-24	09-Dec-24	168	168	21-Jun-24 A	07-Jan-25		-64	4
	rtion 3 #->New Deck Zone D (next to lift) rtion 4 #->New Deck Zone C (next to P15)	88 15-May-24 123 02-May-24		88 116	88 97	04-Jul-24 28-May-24 A	29-Sep-24 25-Oct-24		37 9	l
•	rtion 5#->New Deck Zone E (Lift area)	86 07-Jun-24	17-Sep-24	65	65	19-Jul-24	04-Oct-24		5	
HKP Platform - External Works at Gr HKP Vladuct HKP Vladuct Pile Group 1 & 3 - UU I		155 02-May-24 498 01-Jun-23	05-Nov-24 01-Feb-25	141 308 7	120 204	28-May-24 A 01-Jun-23 A	21-Nov-24 05-Mar-25		35 207 259	
The viadact the Group T & 3 - 00 I	Aversion - water water biversion Aversion Second Baseline Milestone	29 27-Mar-24			3	27-Mar-24 A	1	Date: 30-Jun-24	209	Date
Actual Work			/IUZ5A-(.VVP(-	3-A()4	41)	Daid			00 1
Actual Work		Project ID: N					Deint	od: 05- 1ul-2/ 17:28		30-Jun-24
Remaining Work	Primary Baseline	CWPG-A04 - 3-1						ed: 05-Jul-24 17:28		
	Primary Baseline	CWPG-A04 - 3-1	Month Ro	olling			Layo	ut: C21W18-WPU_MU25A (2BL) large 3MRP t		Filter
Remaining Work	Primary Baseline	CWPG-A04 - 3-1 (;		olling)			Layo			



中國連架工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LIMITED

	Jul	Aug	9		Sep	Oct
	Group 1	- South Boun	d - Column	S-C3 to	S-C6 (4 nos >	(9d/co
		——— G	roup 2 - So	uth Boun	d - Column S	-C1 td
						-
						-
			<u></u>			
-					Group 1 - N	orth B
						-
						-
					Group 2 - N	Iorth E
	•	1	Group 2 -	North Bo	und - Comme	ence L
		٠	\$ G	roup 2 - 1	North Bound -	Com
			٥			
auc	t - Pier P2 - Install Bearings	5				
					Sky City Via	auct -
	:	LU.	(D Dlatform	Structur	e Portion 1 - C	
		——————————————————————————————————————	∿⁻ riau0im	Suuciure		
					HKP Platfori	
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		PhatRtrum Return		BDI Le Bu-	enthie BAonGent	for C
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	Revision		Chec	ked	Approve	d
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	C21W18-CWPG-A04-ML	J25A	Gary Yeur	ng	Kingsley Ch	lang

Activity Name	(2024-04-30) BL2 (2024-04-30 BL2) Start OD	(2024-04-30 BL2) Finis	n Prog. Update OD	Remaining Duration	Start	Finish	Physical % R Complete	temarks Total Roat	hin
Diversion - LV, ELV, CT Cable Duct Diversion	369 01-Jun-23	26-Aug-24	201	97	01-Jun-23 A	25-Oct-24	11	191	Jun
	47 23-Apr-24	08-Jun-24	50	2	23-Apr-24 A	01-Jul-24		108	
& 3 - P11 to P15	47 23-Apr-24	08-Jun-24	50	2	23-Apr-24 A	01-Jul-24		108	
2 to P15	28 12-May-24	08-Jun-24	28	2	14-May-24 A				
								108	
				-					
bry Submission for Completion of Bored Pile Works P11					•				
14 D45									
· · · · · · · · · · · · · · · · · · ·		0				0			
		03-Aug-24							
		12_Aug_24							
2 to Span P15									
12 to P15 Pile Cap	30 05-Aug-24	07-Sep-24	55	55	12-Jul-24	13-Sep-24		100	
2 to P15 Pier	29 16-Aug-24	19-Sep-24	54	54	24-Jul-24	25-Sep-24		100	
2 to P15 Pier Head	33 27-Aug-24	05-Oct-24	58	58	03-Aug-24	12-Oct-24		100	
2 to P15 Deck	38 13-Sep-24	30-Oct-24	38	38	22-Aug-24	07-Oct-24		90	;
1 P8 to P11	226 02-May-24	01-Feb-25	230	204	19-Apr-24 A	05-Mar-25		-40	
submission for Commencement of Superstructure	32 22-May-24	28-Jun-24	34	8	10-May-24 A	10-Jul-24		-16	
nission & Approval	13 14-Jun-24	28-Jun-24	10	0	24-May-24 A	28-Jun-24 A			
ssion for Commencement of Superstructure Works	35 22-May-24	25-Jun-24	42	11	10-May-24 A	10-Jul-24		-20	
P11	226 02-May-24	01-Feb-25	223	204	19-Apr-24 A	05-Mar-25		-40	
o P11 Pile Cap	7 29-Jun-24	08-Jul-24	7	7	11-Jul-24	18-Jul-24		-16	
p P11 Pier	64 02-May-24	18-Jul-24	24	24	02-Jul-24	29-Jul-24		128	
HKP Viaduct Portion 2 - Install Bearing - P8	2 02-May-24	03-May-24	2	2	02-Jul-24	03-Jul-24	0%	150	
HKP Viaduct Portion 2 - Pier Construction - P11	9 09-Jul-24	18-Jul-24	9	9	19-Jul-24	29-Jul-24	0%	-3	
p P11 Pier Head	70 13-May-24	05-Aug-24	58	15	07-Jun-24 A	15-Aug-24		-3	
HKP Viaduct Portion 2 - Pier Head Construction - P10				-			100%		
HKP Viaduct Portion 2 - Pier Head Construction - P11				13	30-Jul-24		0%	-3	
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				1/13					
				121					
		2100021							
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for At-Grade Plant Room									
Norks		07-Sep-24	99	80	03-Jun-24 A	04-Oct-24		94	
Cable Trench for Transformer Room	12 29-May-24	12-Jun-24		12	02-Jul-24	15-Jul-24		162	
Wall Construction + Lower Roof of Transformer Room (+10.5mPD)	31 29-May-24	05-Jul-24	37	18	03-Jun-24 A	22-Jul-24		35	
Wall Formwork Erection	9 29-May-24	07-Jun-24	9	0	03-Jun-24 A	26-Jun-24 A	100%	11	:
Wall Rebar Fixing				1	21-Jun-24 A	02-Jul-24	60%	35	
Wall Final Formwork & Transformer Room Lower Roof Formwork Erection	8 15-Jun-24	24-Jun-24	8	8	03-Jul-24	11-Jul-24	0%	35	_
Rebar Fixing for Lower Roof of Transformer Room	6 25-Jun-24	02-Jul-24	6	6	12-Jul-24	18-Jul-24	0%	35	
							0%		
Upper Roof for Transformer Room and Other Rooms Roof Street Fire Hydrant Cumply Water Transco	49 06-Jul-24	31-Aug-24	49	49	23-Jul-24	17-Sep-24		35	
Street Fire Hydrant Supply Water Tanks Roof Parapet Wall + Dog House, Access Hole for Cat Ladder	69 29-May-24	19-Aug-24	69	69	02-Jul-24	20-Sep-24		84	
	14 31-Jul-24	15-Aug-24 07-Sep-24	14	14	31-Aug-24	16-Sep-24		23	
· · · · ·			6	6	19-Sep-24	25-Sep-24		35	
Plinths in Each Room	6 02-Sep-24			4.4					
Plinths in Each Room Roof Surface Finish	14 16-Aug-24	31-Aug-24	14	14	17-Sep-24	04-Oct-24		23	
Plinths in Each Room Roof Surface Finish und Water Main	14 16-Aug-24 21 20-Aug-24	31-Aug-24 12-Sep-24	14 21	21	17-Sep-24 21-Sep-24	04-Oct-24 17-Oct-24		84	
Plinths in Each Room Roof Surface Finish	14 16-Aug-24	31-Aug-24 12-Sep-24	14		17-Sep-24	04-Oct-24			
	Warston - LV, ELV, CT Cable Duct Diversion 33-P11 to P15 13-P11 to P15 13 or Submission for Completion of Bored Pile Works (P12 to P15) 1 ry Submission for Completion of Bored Pile Works P11 to P15 n for Commencement of Superstructure Approval Approval - P12 - P13 (#>P12) & Approval - P13 - P14 Approval - P12 - P13 (#>P12) & Approval - P12 - P13 (#>P12) & Approval - P12 - P13 (#>P12) Commencement of Superstructure Works C10 P15 Pier 210 P15 Pier 210 P15 Pier 210 P15 Deck P8 to P11 ubmission for Commencement of Superstructure Ission & Approval Sion for Commencement of Superstructure Works P11 Pier P11 Pier P11 Pier P11 Pier Naduct Portion 2 - Install Bearing - P8 HKP Viaduct Portion 2 - Pier Head Construction - P10 HKP Viadu	movement - UV, ELV, CT Cable Duct Diversion 369 01-Jun-23 s3-P110P15 47 23-Apr-24 s120P15 28 12-May-24 vg Submission for Completion of Bond Pile Works (P12 to P15) 28 12-May-24 vg Submission for Completion of Bond Pile Works P11 36 23-Apr-24 vg Submission for Completion of Bond Pile Works P11 36 23-Apr-24 vg Submission for Completion of Bond Pile Works P11 36 23-Apr-24 vg Submission for Completion of Bond Pile Works P11 36 23-Apr-24 vg Submission for Completion of Bond Pile Works P11 36 23-Apr-24 vg Submission for Completion of Bond Pile Works P11 36 23-Apr-24 vg Submission for Completion of Bond Pile Works P11 36 23-Apr-24 vg Submission for Commencement of Superstructure Works 28 02-Jun-24 to to Span P15 72 05-Aug-24 to P15 Pile Cap 20 05-Aug-24 to P15 Pile Cap 30 05-Aug-24 to P15 Pile Cap 22 22 22 to P15 Pile Cap 22 02 22	Comparison Comparison <thcomparison< th=""> Comparison Comparis</thcomparison<>	Col Col Col Col Col 3090 01 - Lun-23 28 Aug-24 201 47 23 Aug-24 89 and 24	ord ord userso tweeto tweeto	Operation - LVE EUX CT Carble Duck Diversion Operation - LVE EUX CT Carble Duck DivE EUX DivE Duck Diversion Operation - LVE EUX	00 100 1000000000000000000000000000000000000	Construct Construction Construction <td>col col col col col 3. P10 P1 90 P1_str.22 (2) (2) P1_str.22 (2)</td>	col col col col col 3. P10 P1 90 P1_str.22 (2) (2) P1_str.22 (2)

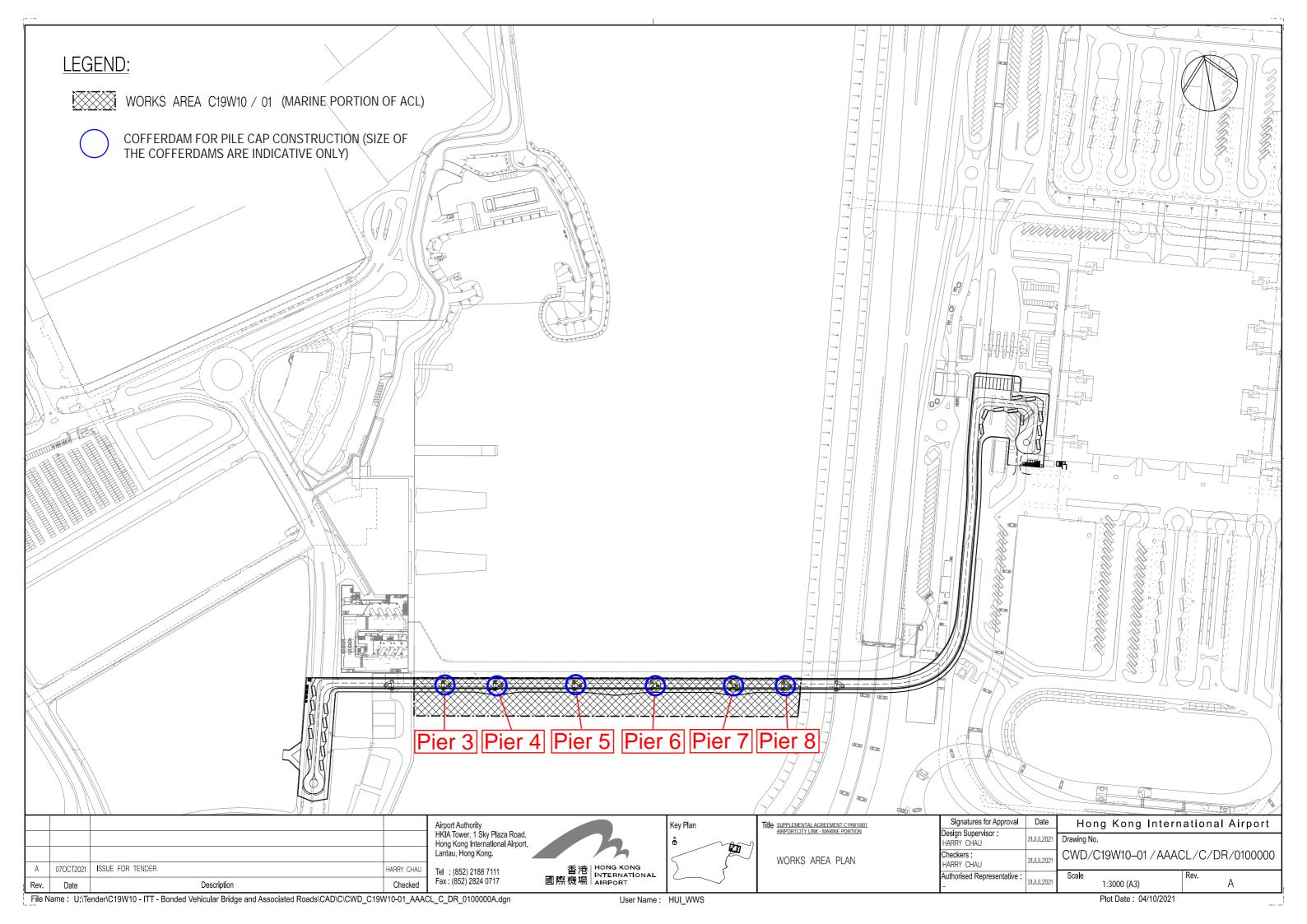
 Actual Work Remaining Work Critical Remaining Work Milestone Second Baseline 	Project ID: MU25A-CWPG-A04D CWPG-A04 - 3-Month Rolling Programme (advance) Page 2 of 2	Data Date: 30-Jun-24 Printed: 05-Jul-24 17:28 Layout: C21W18-WPU_MU25A (2BL) large 3MRP to env Filter TASK filters: 3 Month, without LOE, Without WBS Summary.	Date 30-Jun-24	Revision C21W18-CWPG-A04-MU25A	Checked Gary Yeung	Approved Kingsley Chiang
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		2024		
	Jul	Aug	Sep	Oct
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	🗕 🛛 💳 Rebar Fi	xing for Lower Roof of T	ransformer Room Reb	ar Fix
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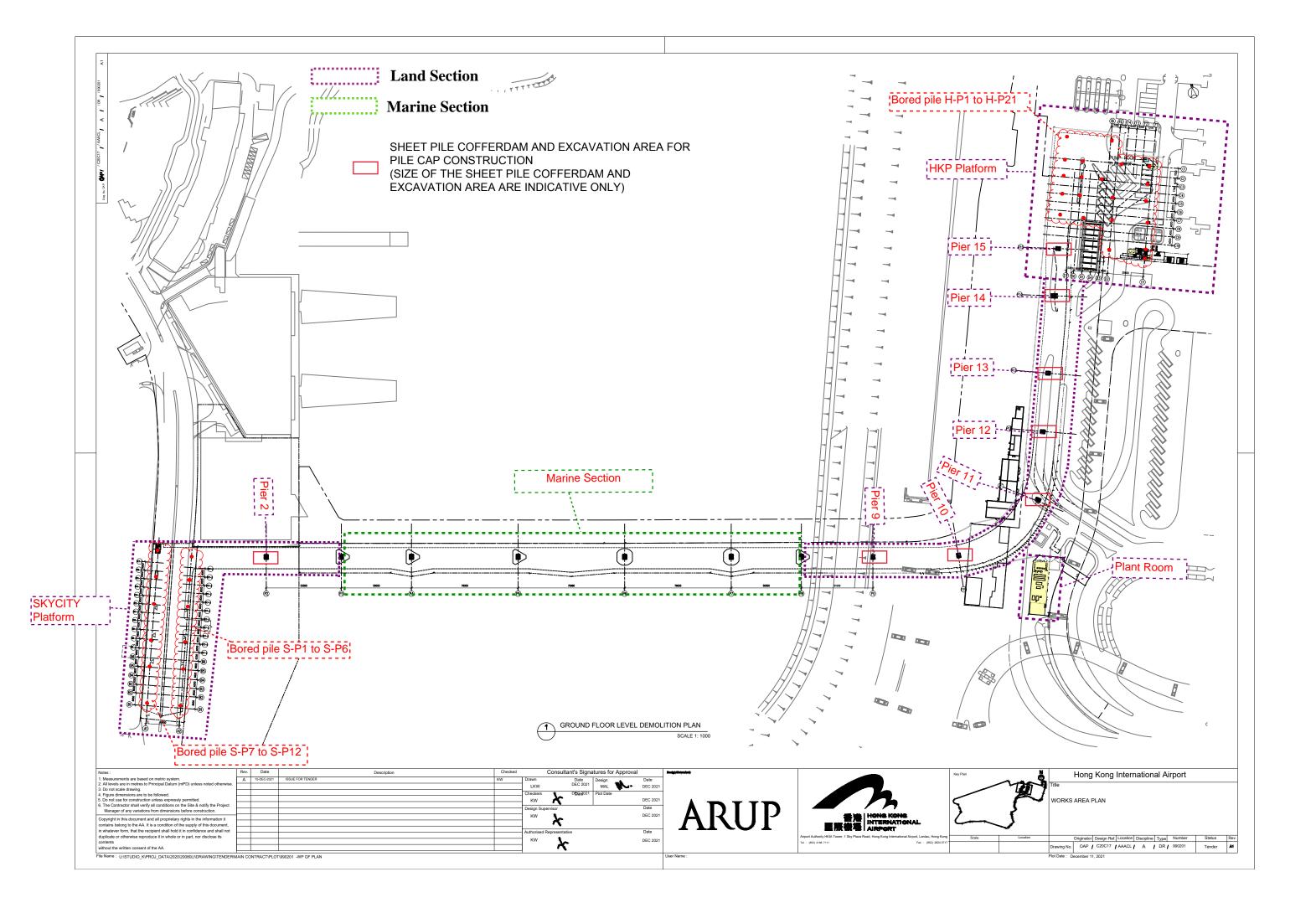
Appendix C. Construction Works Area

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Marine Section



Land Section



Appendix D. Environmental Site Inspection and Monitoring Schedule

ACL Environmental Monitoring and Site Inspection Schedule for June 2024

Jun-24

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

ACL Environmental Monitoring and Site Inspection Schedule for July 2024

			Jui-24			
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2 ACL (Land) Environmental Site Inspection ACL (Marine) Environmental Site Inspection	3	4	5	6
7	8 ACL (Land) Environmental Site Inspection	9 ACL (Marine) Environmental Site Inspection	10	11	12	13
14	15 ACL (Land) Environmental Site Inspection	16 ACL (Marine) Environmental Site Inspection	17	18	19	20
21	22 ACL (Land) Environmental Site Inspection	23 ACL (Marine) Environmental Site Inspection	24	25	26	27
28	29 ACL (Land) Environmental Site Inspection	30 ACL (Marine) Environmental Site Inspection	31			
		Notes:				

Jul-24

Appendix E. Event and Action Plan

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

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

		Ac	tion	
Event	ET	IEC	AAHK / PM	Contractor
	Contractor; 6. Ensure mitigation measures are implemented; 7. Increase the monitoring frequency to daily until no exceedance of limit level.	,		three working days; 6. Implement the agreed mitigation measures.
Limit level being exceeded by two or more consecutive sampling days	 Repeat <i>in-situ</i> measurement to confirm findings; Identify reasons for non-compliance and source(s) of impact; Inform IEC, Contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, AAHK / PM and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. 	PM accordingly; 3. Assess the effectiveness of implemented mitigation measures.	 and Contractor on the proposed mitigation measures Request Contractor to critically review th working methods; Make agreement on the mitigation measures to be implemented; Assess the 	 and confirm notification of non- compliance in writing; e 2. Rectify unacceptabl practices; 3. Check all plant and equipment; 4. Consider changes of working method; 5. Discuss with ET, IE and AAHK / PM and propose mitigation measures to IEC ar AAHK / PM within 3 working days; 6. Implement the agreed mitigation measures:

Appendix F. Waste Flow Table

Marine Section

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	0	vated waste)	Ac	tual Quantities	of Non-inert C8	D Waste (tonn	es)		
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)
		Total inert	Reused in	Reused in	Sent to	Disposed to	Recycled	Reused /	Chemical	Other waste	Total non-	Total	Total
Month	Excavated	C&D material	contract	other projects	recycling	public fill	scrap metal	recycled	waste	disposed to	inert C&D	recyclable	construction
	Waste (tonnes)	generated			company			timber		landfill	material	waste	waste
		(a) = (b) + (c)									generated	(k) = (b) + (c)	generated
		+ (d) + (e)									(j) = (f) + (g) +	+ (d) + (f) +	(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	31.44	31.44	0.00	47.49
Feb-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.45	33.45	0.00	33.45
Mar-24	0.00	0.00	0.00	0.00	0.00	0.00	12.33	0.00	0.00	34.82	47.15	12.33	47.15
Apr-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.57	30.57	0.00	30.57
May-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.15	43.15	0.00	43.15
Jun-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.34	34.34	0.00	34.34
Total	9058.95	9058.95	0.00	0.00	7062.93	1996.02	12.33	0.00	0.97	275.88	289.18	7075.26	9348.13

*Chemical waste, Wasted oil density 0.9kg/L

Land Section

C21W18 Monthly Waste Flow Table

		-	ties of Inert Con Generated Montl	struction Waste		Actual Quanti	ties of Non-inert	Construction Was	te Generated Monthl	у
	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	4902.86	303.29	4599.57	0	0	0.076	0.003	0	14.65
	Feb	1200.33	275.88	924.45	0	0	0	0	0	7.26
	Mar	1737.25	805.43	931.82	0	0.010	0.094	0.012	0	12.30
	Apr	2019.86	1393.54	626.32	0	0	0	0	0	9.98
	May	1239.55	791.04	448.51	0	0	0	0	0	15.00
	Jun	1363.33	1057.39	305.94	0	0.008	0.046	0.02	0	17.11
2024	Sub-total	12463.18	4626.57	7836.61	0	0.018	0.216	0.035	0	76.3
2024	Jul	-	-	-	-	-	-	-	-	-
	Aug	-	-	-	-		-	-	-	-
	Sep	-	-	-	-	_	-	_	-	-
	Oct	_	_	-	-	_	_	-	_	_
	Nov	-	-	-	-	-	-	-	-	-
	Dec	-	-	-	-	-	-	-	-	-
	Sub-total	0	0	0	0	0.000	0.000	0.000	0	0
Т	otal	36460.97	4626.57	31834.40	0.00	0.16	0.71	0.33	0.00	379.42

Appendix G. Status of Environmental Permits and Licences

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
Construction Noise Permit	GW-RS0286-24	18 Apr 2024	17 Oct 2024	Cancelled and replaced by GW-RS0529-24.
Construction Noise Permit	GW-RS0529-24	8 Jun 2024	3 Dec 2024	Issued by EPD on 6 Jun 2024.
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 G.1: Summary of Environmental Licenses and Permits - Marine Section (June 2024)

Table G.2: Summary of Environmental Licenses and Permits - Land Section (June 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
	GW-RS0027-24	31 Jan 2024	30 Jul 2024	N/A
Construction Noise Permit	GW-RS0317-24	19 Apr 2024	18 Oct 2024	Issued by EPD on 10 Apr 2024.
	GW-RS0335-24	1 May 2024	30 Sep 2024	Special case. Issued by EPD on 10 Apr 2024.
Chemical Waste Producer	5213-951-C1169-68	23 Jun 2022	End of Project	N/A
	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.
	WT10002073-2023	5 Feb 2024	28 Feb 2029	N/A

Appendix H. Environmental Mitigation Measures Implementation Status

Environmental Mitigation Measures Implementation Status (June 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. 	Yes	Yes
		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.		Yes
		 All stockpiles of aggregate or spoil should be covered and/or water applied. 	Yes	Obs
56.1.1	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	Yes
		• The load of dusty materials carried by a vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure dust materials do not leak from the vehicle.	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
ecomme	ended Mitig	gation Measures for Noise Impact		
PP Ref.	EM&A Ref.	Recommended Mitigation Measures	Mitigation Measures Implemented? ^	Mitigation Measures Implemented? ^
			(Marine Section)	(Land Section)
		Only well-maintained plant should be operated on-site and plant should be serviced regularly.	Yes	Yes
6.2.1	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
Recomm	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 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
S6.3.1	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.	Yes	Yes
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 	Yes	Yes

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	Rem
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 on-site activities such as dust suppression, wheel washing and general cleaning etc., can minimise water consumption and reduce the effluent discharge volume. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the relevant WPCO license.	Yes	Yes
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
ecomm	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-	S7.2.1	 <u>Good Site Practices:</u> 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		• 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
00.1.1		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	<u>General Refuse:</u> • General refuse should be stored in covered bins or compaction units separately from C&D materials. A reputable waste collector should be employed by the Contractor to remove general refuse from the site regularly, separately from C&D materials. An enclosed and covered area is preferred to reduce the occurrence of "wind blown" light materials.	Yes	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
S6.4.1- S6.4.2	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 <i>Code of Practice on the</i> <i>Packaging, Labelling and Storage of Chemical Wastes.</i>	Yes	Yes
		• 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	 <u>Sediment:</u> 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	N/A
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
S6.4.1, 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

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
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. 	Obs	Yes
ended Miti	gation Measures for Marine Ecological Impact		
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
S8.2.1	 Based upon a precautionary approach, a speed limit of 10 knots should be strictly enforced on all construction-related vessels. 	Yes	N/A
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
	Ref. S7.2.1 Ended Miti EM&A Ref. - S8.2.1	Ref. Recommended Mitigation Measures 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 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. • 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. 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. S7	EM&A Ref. Recommended Mitigation Measures Measures Implemented? ^ (Marine 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). N/A • In order to minimise the potential dodur / dust emissions during excavation and transportation of the sediment, the excavated sediments shall be wetted during excavation and transportation of the sediment, the excavated sediments shall be wetted during excavation and transportation of the sediment the excavated sediments. N/A • 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 \$7.2.1 Proper management and education should be given to construction site workers such that accidental release or intentional disposal would be avoided. The refuse should be stored in enclosed bin to avoid adverse impacts to the surroundings including marine environment. Regular checking should also be carried out to ensure that

PP Ref.	EM&A Ref.	Recommended Mitigation Measures	Mitigation Measures Implemented? ^ (Marine Section)	Mitigation Measures Implemented? ^ (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
thers				
PP	EM&A	Percemmended Mitigation Measures	Mitigation Measures	Mitigation Measures

Recommended Mitigation Measures for Landscape and Visual Impact

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