



Agreement No. CE 64/2020 (EP) Environmental Team for Tung Chung New Town Extension (West) – Design and Construction

Monthly Environmental Monitoring & Audit Report for September 2025

October 2025

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Agreement No. CE 64/2020 (EP) Environmental Team for Tung Chung New Town Extension (West) – Design and Construction

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Environmental Permit No. EP-519/2016

Tung Chung New Town Extension (West)

Environmental Team Leader Certification

Reference Document/Plan

Document to be Certified: Monthly Environmental Monitoring and Audit Report

for September 2025

Date of Document: October 2025

Date received by ETL: 13 October 2025

Reference EP Condition

Environmental Permit Condition: 3.5 & 4.1 Email from EPD dated 29 September 2022

The Permit Holder shall submit 1 hard copy and 1 electronic copy of Monthly EM&A Reports for the construction stage of the Project to the Director, within 2 weeks after the end of the reporting month. The monthly EM&A Reports shall include an executive summary of all environmental audit results, together with actions taken in the event of non-compliance (exceedances) of the environmental quality performance limits (Action and Limit Levels), complaints received and emergency events relating to violation of environmental legislation (such as illegal dumping and landfilling). The submissions shall be certified by the ET Leader and verified by the IEC as having complied with the requirements as set out in the updated EM&A Manual before submission to the Director. Additional copies of the Monthly EM&A Reports shall be provided upon request by the Director.

ETL Certification

I hereby certify that the above reference document/plan complies with the above referenced condition of EP-519/2016.

Daniel Sum

Environmental Team Leader Date: 13 October 2025



Your Ref.

By Post

Our Ref. 198377-1075

Date 13 October 2025

South Development and Sustainable Lantau Office Civil Engineering and Development Department 13/F, North Point Government Offices 333 Java Road, North Point Hong Kong

Attention: Mr. Ryan CHAK / Ms. Carol LAM

Dear Sir / Madam,

Agreement No. CE 59/2017 (EP)

Independent Environmental Checker for Tung Chung New Town Extension – Investigation Monthly Environmental Monitoring & Audit Report for September 2025 for TCW

We refer to the Monthly Environmental Monitoring & Audit Report for September 2025 for Tung Chung New Town Extension (West) (TCW) dated October 2025 and certified by the Environmental Team (ET) Leader of TCW on 13 October 2025. Please note the submission is hereby verified, in accordance with the requirement stipulated in Condition 3.5 of EP-519/2016.

Should you have any query, please feel free to contact the undersigned at 2608 7314 (chuawo@binnies.com) or our Edward Lau at 3894 9695 (lauky@binnies.com).

Yours faithfully, for and on behalf of BINNIES HONG KONG LIMITED

MANUEL CHUA

INDEPENDENT ENVIRONMENTAL CHECKER

ET Leader / TCW - Mott (Attn: Mr. Daniel SUM) [by Email: daniel.sum@mottmac.com] cc: PM / TCW - Arup (Attn: Mr. Jackson WONG) [by Email: jackson.wong@tcw.c5c6.hk]



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Executive summary

Tung Chung New Town Extension (TCNTE) is one of the major initiatives under the Government's multi-pronged approach to increase land supply to meet Hong Kong's medium- to long-term needs for housing, economic and social developments. The Environmental Impact Assessment (EIA) Report for TCNTE (Register No. AEIAR-196/2016) was approved on 8 April 2016 and the Environmental Permit (EP) No. EP-519/2016, covering the construction and operation of TCNTE, was granted on 9 August 2016. The EIA Report and EP cover both Tung Chung East (TCE) and Tung Chung West (TCW, hereafter referred to as "the Project").

Civil Engineering and Development Department (CEDD) commissioned Mott MacDonald Hong Kong Limited (MMHK) to undertake the role of Environmental Team (ET) for carrying out the Environmental Monitoring & Audit (EM&A) works during the construction phase of the Project in accordance with the requirements specified in the EP, Updated EM&A Manual (the Manual), EIA Report of the Project – i.e., Tung Chung New Town Extension (TCNTE) development in Tung Chung West (TCW) and other relevant statutory requirements.

This EM&A Report summarises the monitoring results and audit findings of the EM&A programme undertaken for the TCW Project during the reporting period from 1 to 30 September 2025 in accordance with the Manual. A summary of the monitoring and audit activities conducted in the reporting period is listed as below.

Summary of Monitoring and Audit Activities in the Reporting Period

Parameter	Number of Sessions
Air Quality Monitoring	6 sessions
Noise Monitoring	5 sessions
Water Quality Monitoring	11 sessions ⁽¹⁾
Ecological Monitoring	1 session
Environmental Site Inspection	Contract No. NL/2020/05 ("Contract 5"): 5 sessions
	Contract No. NL/2020/06 ("Contract 6"): 5 sessions

Note:

(1) Water quality monitoring scheduled on 8 and 24 Sep 2025 were cancelled due to the hoisting of Tropical Cyclone Warning Signal.

Environmental auditing works, including weekly site inspections of construction works conducted by the ET, audit of implementation of Plan on Provision of Buffer Zones, Detailed Preservation and/or Translocation Plan for Plant Species of Conservation Importance and Waste Management Plan were conducted in the reporting period. Based on the audit results and the observation for the reporting period, environmental pollution control and mitigation measures for the Project were properly implemented.

Breaches of Action and Limit Levels for Air Quality

No exceedance of Action and Limit Levels was recorded for impact air quality monitoring in the reporting period.

Breaches of Action and Limit Levels for Noise

No exceedance of Action and Limit Levels was recorded for construction noise monitoring in the reporting period.

Breaches of Action and Limit Levels for Water Quality

Turbidity and Suspended Solids (SS) exceedances were recorded during the reporting period. Relevant investigations and follow-up actions were conducted in accordance with the Event and Action Plan.

Ecological Monitoring

No exceedance of Action and Limit Levels was recorded for impact ecological monitoring in the reporting period.

Environmental Complaints, Non-compliance & Summons

There was no notification of summons or prosecution recorded in the reporting period.

Three (3) environmental complaints related to Contract 5 were received in the reporting period. Investigations were conducted for the environmental complaints in accordance with the complaint handling process as stated in the Complaint Management Plan.

Reporting Change

There was no reporting change in the reporting period.

Summary of Upcoming Construction Activities

Contract No. NL/2020/05 ("Contract 5") - Ma Wan Chung

- Backfilling and Road Work, Sloping Work, Excavation for Retaining Wall, Drainage Work (Excavation, Pipe Installation and Concreting), Sheet-pile Installation, Retaining Wall Construction (Excavation and Reinforce Concrete Works), Drainage Reinforce Concrete Construction and Excavation for Pipe Jacking Work at Part E;
- Excavation and Installation for Drainage Work, Cycle Track Construction, Drainage Pipe Jacking Excavation Work, Backfilling, Planter Reinstatement and Road Work at Part F;
- Defective and Outstanding Reinstatement Work at Part G;
- Sheet-pile Installation, Excavation for Retaining Wall Construction, Barrier-Free-Access construction, Retaining Wall, Plant Room and Service Building Construction, Hiking Trail Construction, Landscape Planting Work and Road Work at Part H;

Contract No. NL/2020/06 ("Contract 6") - Tung Chung Valley

- Excavation, Backfilling, Excavation and Lateral Support (ELS) and Reinforce Concrete
 Work for Riverbed and Box Culvert, Reinforce Concrete Work for Bridge A and Retaining
 Wall Construction, Piling Work for Noise Barrier Construction and Soldier Pile Wall
 Construction (Piling Work and Excavation for Capping Beam and Skin Wall) at Road L29;
- Drainage and Road Work, Utility Work, Water Piping Work and Construction Work for Bridge B at Road L30;
- Site Clearance, Excavation, ELS Work, Water Main and Rising Main Installation, Hard Paving, Backfilling and Compaction, Sloping Work at Yu Tung Road;
- Site Clearance, Excavation, ELS Work, Water Piping Work, Sewerage Work, Drainage Work, Sloping Work and Backfilling for Cycle Track and Footpath at Chung Mun Road;
- Excavation, Formwork Erection for Bridge C, Backfilling, Drainage and Sewerage Work, Road Work, Water Piping Work, Lamp Post and Railing Installation at Shek Mun Kap Road;
- Reinforce Concrete Work and Falsework Erection at Visitor Centre;
- Reinforce Concrete Work and Falsework Erection at Sewage Pumping Station-A;
- Backfilling and Reinforce Concrete Work at Sewage Pumping Station-B;

- Reinforce Concrete Work, Retaining Wall Construction, Site Clearance, Drainage Work and Construction of Transformer Room at Stormwater Attenuation and Treatment Pond (SATP) A02;
- Backfilling, Water Proofing Work and Stone Wall Construction at SATP A04;
- Site Clearance and Excavation at SATP A07.

1 Introduction

1.1 Background

Tung Chung New Town Extension (TCNTE) is one of the major initiatives under the Government's multi-pronged approach to increase land supply to meet Hong Kong's medium- to long-term needs for housing, economic and social developments. The Environmental Impact Assessment (EIA) Report for TCNTE (Register No. AEIAR-196/2016) was approved on 8 April 2016 and the Environmental Permit (EP) No. EP-519/2016, covering the construction and operation of TCNTE, was granted on 9 August 2016. The EIA Report and EP cover both Tung Chung East (TCE) and Tung Chung West (TCW, hereafter referred to as "the Project").

Civil Engineering and Development Department (CEDD) commissioned Mott MacDonald Hong Kong Limited (MMHK) to undertake the role of Environmental Team (ET) for carrying out the Environmental Monitoring & Audit (EM&A) works during the construction phase of the Project in accordance with the requirements specified in the EP, Updated EM&A Manual (the Manual), EIA Report of the TCW Project and other relevant statutory requirements. The scope of the Project works in TCW includes the following elements:

- Site formation works;
- Construction of the River Park including a visitor centre;
- Construction of proposed open space;
- Construction of sustainable urban drainage system;
- Construction of roads, footpath and the associated junction / road improvement works;
- Construction of coastal pedestrian access;
- Engineering infrastructure works covering drainage, sewerage, waterworks and landscaping works; and
- Implementation of environmental mitigation measures and environmental monitoring and audit works.

The construction works for the Project were commenced on 3 November 2021 and are divided into various works contracts. The following active works contracts were commenced on the dates shown in **Table 1.1**.

Table 1.1: Commencement Dates of Construction Works for the Active Works Contracts

Contract No.	Contract Name	Commencement Date of Construction Works
Contract No. NL/2020/05 ("Contract 5")	Tung Chung New Town Extension – Site Formation and Infrastructure Works at Ma Wan Chung	3 Nov 2021
Contract No. NL/2020/06 ("Contract 6")	Tung Chung New Town Extension – Site Formation and Infrastructure Works at Tung Chung Valley, Phase 1	3 Nov 2021 (Note: Construction works at Tung Chung Valley commenced on 30 Nov 2021)

The locations of Contracts 5 and 6 are shown in Figures 1.1 and 1.2 respectively.

1.2 Scope of this Report

This is the Monthly EM&A Report for the TCW Project which summarises the key findings of the EM&A programme for the construction works during the reporting period from 1 to 30 September 2025.

1.3 Organisation Structure

The organisation structure of the Project is shown in **Appendix A**. The key personnel contact names and contact details of the active works contracts are summarised in **Table 1.2** below.

Table 1.2: Contact Information of Key Personnel

Project Proponent Senior Resident Engineer Sharon Wu 2231 4439 Senior Engineer Ryan Chak 2231 4439 Senior Engineer Ryan Chak 2231 4468 Senior Engineer Ryan Chak 2231 4472 Engineer's Representative (ER) Principal Resident Engineer Sam Chan 9671 5538 Senior Resident Engineer Sam Chan 9671 5538 Senior Inspector of Works Tony Chiu 5699 5792 Senior Resident Engineer Ricky Hon 9100 7509 Environmental Officer Calvin Chan 6117 2894 Senior Resident Engineer Ricky Hon 9100 7509 Environmental Officer Calvin Chan 6117 2894 Senior Resident Engineer Sam Chan 9326 1161 Senior Inspector of Works Tony Chiu 5699 5792 Site Agent Ricky Hon 9100 7509 Environmental Officer Calvin Chan 6117 2894 24-hour Complaint Hotline - 9326 1161 Senior Engineer Sharon Wu 2231 4439 Senior Engineer Sharon Wu 2231 4439 Senior Engineer Samuel Yiu 2231 4459 Senior Engineer Samuel Yiu 2231 4459 Senior Engineer Samuel Yiu 2231 4459 Senior Inspector of Works Jensen Lo 5699 5746 Senior Resident Engineer Shirley Yeung 9671 5518 Senior Inspector of Works Jensen Lo 5699 5746 Senior Resident Engineer Sharon Works Senior Senior Engineer Senior Hours Senior Inspector of Works Jensen Lo 5699 5746 Senior Resident Engineer Shirley Yeung 9671 5518 Senior Inspector of Works Jensen Lo 5699 5746 Senior Resident Engineer Sharon Works 5699 5746 Senior Resident Engineer Sharon Works Senior	Party	Position	Name	Telephone
Project Proponent (Civil Engineering and Development Department (CEDD)) Chief Engineer Senior Engineer Sharon Wu Ryan Chak 2231 4468 Department (CEDD)) Senior Engineer Ryan Chak 2231 4472 Engineer's Representative (ER) (Ove Arup and Partners Hong Kong Limited) Principal Resident Engineer Jackson Wong 5699 5710 Contractor Senior Resident Engineer Sam Chan 9671 5538 Contractor Project Manager Eric Yip 9196 6098 (Build King – Richwell Civil Joint Venture) Construction Manager Artie Wong 9633 0977 Site Agent Ricky Hon 9100 7509 Environmental Officer Calvin Chan 6117 2894 24-hour Complaint Hotline - 9326 1161 Contract No. NL/2020/06 ("Contract 6") Tung Chung New Town Extension – Site Formation and Infrastructure Works at Tung Chung Valley, Phase 1 Project Proponent (Civil Engineering and Development Department (CEDD)) Senior Engineer Sharon Wu 2231 4439 (Civil Engineering and Development Department (CEDD)) Engineer Samuel Yiu 2231 4469 Engineer's Representative (ER) Fincipal Resident Engin	Contract No. NL/2020/05 ("Contract 5")			
Civil Engineering and Development Department (CEDD)) Senior Engineer Ryan Chak 2231 4468 Department (CEDD)) Engineer Carol Lam 2231 4472 Engineer's Representative (ER) (Ove Arup and Partners Hong Kong Limited) Principal Resident Engineer Jackson Wong 5699 5710 Contractor (Build King – Richwell Civil Joint Venture) Project Manager Eric Yip 9196 6098 Contract No. NL/2020/06 ("Contract 6") Site Agent Ricky Hon 9100 7509 Environmental Officer Calvin Chan 6117 2894 24-hour Complaint Hotline - 9326 1161 Contract No. NL/2020/06 ("Contract 6") Tung Chung New Town Extension – Site Formation and Infrastructure Works at Tung Chung Valley, Phase 1 Project Proponent Chief Engineer Sharon Wu 2231 4439 Civil Engineering and Development Department (CEDD)) Senior Engineer Liz Li 2231 4469 Department (CEDD)) Engineer Samuel Yiu 2231 4510 Engineer's Representative (ER) Principal Resident Engineer Jackson Wong 5699 5710 Contractor Project Director Andy Yeung 6266 0715 <td>Tung Chung New Town Extension - Site</td> <td>Formation and Infrastructure Wo</td> <td>orks at Ma Wan Chun</td> <td>g</td>	Tung Chung New Town Extension - Site	Formation and Infrastructure Wo	orks at Ma Wan Chun	g
Department (CEDD)) Engineer Carol Lam 2231 4472 Engineer's Representative (ER) (Ove Arup and Partners Hong Kong Limited) Principal Resident Engineer Jackson Wong 5699 5710 Contractor Senior Resident Engineer Sam Chan 9671 5538 Contractor Project Manager Eric Yip 9196 6098 (Build King – Richwell Civil Joint Venture) Project Manager Artie Wong 9633 0977 Site Agent Ricky Hon 9100 7509 Environmental Officer Calvin Chan 6117 2894 24-hour Complaint Hotline - 9326 1161 Contract No. NL/2020/06 ("Contract 6") Tung Chung New Town Extension – Site Formation and Infrastructure Works at Tung Chung Valley, Phase 1 Project Proponent Chief Engineer Sharon Wu 2231 4439 (Civil Engineering and Development Senior Engineer Liz Li 2231 4469 Department (CEDD)) Engineer Samuel Yiu 2231 4510 Engineer's Representative (ER) Principal Resident Engineer Jackson Wong 5699 5710 (Ove Arup and Partners Hong Kong Senior Resident Engineer	Project Proponent	Chief Engineer	Sharon Wu	2231 4439
Engineer	(Civil Engineering and Development	Senior Engineer	Ryan Chak	2231 4468
(Ove Arup and Partners Hong Kong Limited) Senior Resident Engineer Sam Chan 9671 5538 Contractor (Build King – Richwell Civil Joint Venture) Project Manager Project Proponent Project Pro	Department (CEDD))	Engineer	Carol Lam	2231 4472
Senior Inspector of Works	Engineer's Representative (ER)	Principal Resident Engineer	Jackson Wong	5699 5710
Senior Inspector of Works	(Ove Arup and Partners Hong Kong	Senior Resident Engineer	Sam Chan	9671 5538
Build King - Richwell Civil Joint Venture) Construction Manager Artie Wong 9633 0977	Limited)	Senior Inspector of Works	Tony Chiu	5699 5792
Site Agent Ricky Hon 9100 7509	Contractor	Project Manager	Eric Yip	9196 6098
Environmental Officer	(Build King – Richwell Civil Joint Venture)	Construction Manager	Artie Wong	9633 0977
Contract No. NL/2020/06 ("Contract 6") Tung Chung New Town Extension – Site Formation and Infrastructure Works at Tung Chung Valley, Phase 1 Project Proponent (Civil Engineering and Development Department (CEDD)) Engineer's Representative (ER) (Ove Arup and Partners Hong Kong Limited) Project Director Contractor (China Railway Group Limited) Project Manager Project Manager Project Manager Project Manager Construction Manager Construction Manager Construction Manager Construction Manager Environmental Officer Simon Mak 6266 0745 24-hour Complaint Hotline - 9326 1161		Site Agent	Ricky Hon	9100 7509
Contract No. NL/2020/06 ("Contract 6") Tung Chung New Town Extension – Site Formation and Infrastructure Works at Tung Chung Valley, Phase 1 Project Proponent (Civil Engineering and Development Department (CEDD)) Engineer's Representative (ER) (Ove Arup and Partners Hong Kong Limited) Contractor (China Railway Group Limited) Project Manager Jeffrey Woo 5538 0950 Site Agent Samuel Sim 6105 8233 Construction Manager Chris Lai 9060 4362 Superintendent Hua Xinrong 6582 3049 Environmental Officer Simon Mak 6266 0745 24-hour Complaint Hotline - 9326 1161		Environmental Officer	Calvin Chan	6117 2894
Tung Chung New Town Extension – Site Formation and Infrastructure Works at Tung Chung Valley, Phase 1 Project Proponent (Civil Engineering and Development Department (CEDD)) Engineer Samuel Yiu 2231 4469 Engineer's Representative (ER) (Ove Arup and Partners Hong Kong Limited) Encontractor (China Railway Group Limited) Project Director Manager Jeffrey Woo 5538 0950 Site Agent Samuel Sim 6105 8233 Construction Manager Chris Lai 9060 4362 Superintendent Hua Xinrong 6582 3049 Environmental Officer Simon Mak 6266 0745 24-hour Complaint Hotline - 9326 1161		24-hour Complaint Hotline	-	9326 1161
Project Proponent (Civil Engineering and Development Department (CEDD)) Chief Engineer Sharon Wu 2231 4439 Engineer (CEDD)) Senior Engineer Liz Li 2231 4469 Engineer's Representative (ER) Principal Resident Engineer Samuel Yiu 2231 4510 Engineer's Representative (ER) Principal Resident Engineer Jackson Wong 5699 5710 (Ove Arup and Partners Hong Kong Limited) Senior Resident Engineer Shirley Yeung 9671 5518 Senior Inspector of Works Jensen Lo 5699 5746 Contractor Project Director Andy Yeung 6266 0716 Project Manager Jeffrey Woo 5538 0950 Site Agent Samuel Sim 6105 8233 Construction Manager Chris Lai 9060 4362 Superintendent Hua Xinrong 6582 3049 Environmental Officer Simon Mak 6266 0745 24-hour Complaint Hotline - 9326 1161	Contract No. NL/2020/06 ("Contract 6")			
(Civil Engineering and Development Department (CEDD)) Senior Engineer Liz Li 2231 4469 Department (CEDD)) Engineer Samuel Yiu 2231 4510 Engineer's Representative (ER) Principal Resident Engineer Jackson Wong 5699 5710 (Ove Arup and Partners Hong Kong Limited) Senior Resident Engineer Shirley Yeung 9671 5518 Senior Inspector of Works Jensen Lo 5699 5746 Contractor Project Director Andy Yeung 6266 0716 (China Railway Group Limited) Project Manager Jeffrey Woo 5538 0950 Site Agent Samuel Sim 6105 8233 Construction Manager Chris Lai 9060 4362 Superintendent Hua Xinrong 6582 3049 Environmental Officer Simon Mak 6266 0745 24-hour Complaint Hotline - 9326 1161	Tung Chung New Town Extension – Site	Formation and Infrastructure We	orks at Tung Chung \	/alley, Phase 1
Engineer Samuel Yiu 2231 4510	Project Proponent	Chief Engineer	Sharon Wu	2231 4439
Engineer's Representative (ER) (Ove Arup and Partners Hong Kong Limited) Senior Resident Engineer Shirley Yeung 9671 5518 Senior Inspector of Works Senior Inspector of Works Contractor (China Railway Group Limited) Project Manager Shirley Yeung 9671 5518 Senior Inspector of Works Jensen Lo 5699 5746 Project Director Andy Yeung 6266 0716 Project Manager Jeffrey Woo 5538 0950 Site Agent Samuel Sim 6105 8233 Construction Manager Chris Lai 9060 4362 Superintendent Hua Xinrong 6582 3049 Environmental Officer Simon Mak 6266 0745 24-hour Complaint Hotline - 9326 1161	(Civil Engineering and Development	Senior Engineer	Liz Li	2231 4469
(Ove Arup and Partners Hong Kong Limited) Senior Resident Engineer Shirley Yeung 9671 5518 Contractor (China Railway Group Limited) Project Director Andy Yeung 6266 0716 Project Manager Jeffrey Woo 5538 0950 Site Agent Samuel Sim 6105 8233 Construction Manager Chris Lai 9060 4362 Superintendent Hua Xinrong 6582 3049 Environmental Officer Simon Mak 6266 0745 24-hour Complaint Hotline - 9326 1161	Department (CEDD))	Engineer	Samuel Yiu	2231 4510
Senior Inspector of Works Jensen Lo 5699 5746	Engineer's Representative (ER)	Principal Resident Engineer	Jackson Wong	5699 5710
Senior Inspector of Works Jensen Lo 5699 5746	(Ove Arup and Partners Hong Kong	Senior Resident Engineer	Shirley Yeung	9671 5518
(China Railway Group Limited) Project Manager Jeffrey Woo 5538 0950 Site Agent Samuel Sim 6105 8233 Construction Manager Chris Lai 9060 4362 Superintendent Hua Xinrong 6582 3049 Environmental Officer Simon Mak 6266 0745 24-hour Complaint Hotline - 9326 1161	Limited)	Senior Inspector of Works	Jensen Lo	5699 5746
Site Agent Samuel Sim 6105 8233 Construction Manager Chris Lai 9060 4362 Superintendent Hua Xinrong 6582 3049 Environmental Officer Simon Mak 6266 0745 24-hour Complaint Hotline - 9326 1161	Contractor	Project Director	Andy Yeung	6266 0716
Construction Manager Chris Lai 9060 4362 Superintendent Hua Xinrong 6582 3049 Environmental Officer Simon Mak 6266 0745 24-hour Complaint Hotline - 9326 1161	(China Railway Group Limited)	Project Manager	Jeffrey Woo	5538 0950
Superintendent Hua Xinrong 6582 3049 Environmental Officer Simon Mak 6266 0745 24-hour Complaint Hotline - 9326 1161		Site Agent	Samuel Sim	6105 8233
Environmental Officer Simon Mak 6266 0745 24-hour Complaint Hotline - 9326 1161		Construction Manager	Chris Lai	9060 4362
24-hour Complaint Hotline - 9326 1161		Superintendent	Hua Xinrong	6582 3049
· · · · · · · · · · · · · · · · · · ·		Environmental Officer	Simon Mak	6266 0745
Environmental Team (ET) ET Leader Daniel Sum 2585 8495		24-hour Complaint Hotline	-	9326 1161
	Environmental Team (ET)	ET Leader	Daniel Sum	2585 8495
(Mott MacDonald Hong Kong Limited) Deputy ET Leader Heidi Yu 2828 5704	(Mott MacDonald Hong Kong Limited)	Deputy ET Leader	Heidi Yu	2828 5704
Independent Environmental Checker (IEC) IEC Manuel Chua 3894 9807	Independent Environmental Checker (IEC)	IEC	Manuel Chua	3894 9807
(Binnies Hong Kong Limited) Deputy IEC Edward Lau 3894 9695	(Binnies Hong Kong Limited)	Deputy IEC	Edward Lau	3894 9695

1.4 Summary of Construction Works

The programme of the construction is shown in **Appendix B**.

As informed by the Contractors of the active works contracts, details of the major works carried out in this reporting period are listed in **Table 1.3**.

The environmental mitigation implementation schedule is presented in **Appendix C**.

Table 1.3: Major Activities in the Reporting Period

Activities Key Issues Key Mitigation Measures

Contract No. NL/2020/05 ("Contract 5")(1)

Tung Chung New Town Extension - Site Formation and Infrastructure Works at Ma Wan Chung

- Sloping Work, Excavation for Retaining Wall, Temporary ELS Work (Tie-Back Drilling and Installation, Sheet-piling and Excavation), Drainage Work (Excavation, Pipe Installation and Concreting), Retaining Wall Construction (Excavation and Reinforce Concrete Work), Temporary Pipe-pile Wall Construction, Sheet-pile Installation, Piling and Excavation for Pipe Jacking Work, Drainage Reinforce Concrete Construction and Backfilling Work at Part E;
- Sheet-pile Installation, Excavation, Drain Pipe Installation and Backfilling for Drainage Work, Cycle Track Construction, Pipe Jacking Work, Backfilling and Planter Reinstatement at Part F;
- Defective and Outstanding Reinstatement Work at Part G;
- Sheet-pile Installation, Excavation for Retaining Wall and Drainage Work, Excavation and Soil Nail Work for Barrier-Free-Access, Retaining Wall, Plant Room and Service Building Construction, Hiking Trail Construction, Backfilling, Soil Mix Backfilling and Planting Work at Part H.

- Dust Emission
- Handling and storage of C&D materials generated from construction activities
- Noise from plant operation
- Emission of dark smoke from PMEs
- Efficiency of wastewater and drainage management
- Tree Protection

- Good site practices
- Regular water spraying on stockpiles
- Provide tarpaulin sheets coverage on stockpiles
- Sorting and reuse of C&D materials as far as practicable
- Use of QPME and noise barrier/acoustic mat
- Regular maintenance of PMEs
- Implementation of wastewater and drainage management
- Retain and protect all existing trees and vegetation within the study area which are not directly affected by the works

Contract No. NL/2020/06 ("Contract 6")(2)

Tung Chung New Town Extension - Site Formation and Infrastructure Works at Tung Chung Valley, Phase 1

- Excavation, Backfilling, ELS, Reinforce Concrete Work and Removal of Clutch Pile for Box Culvert and Riverbed, Reinforce Concrete Work for Bridge A and Retaining Wall, Piling Work for Noise Barrier Construction and Soldier Pile Wall Construction (Piling Work, Excavation for Capping Beam and Skin Wall) at Road L29;
- Road and Drainage Work, Utility Work, Water Piping Work and Construction Work for Bridge B at Road L30;
- Site Clearance, Excavation, ELS Work, Water Main and Rising Main Installation, Hard Paving, Backfilling and Compaction, Sloping and Demolition Work at Yu Tung Road;
- Excavation, ELS Work, Water Piping Work, Sloping Work, Sewerage Work, Drainage Work, Backfilling of Cycle Track and Footpath and Site Clearance at Chung Mun Road;
- Excavation, Backfilling, Formwork Erection of Bridge C, Drainage, Sewerage, Water Piping and Road Work at Shek Mun Kap Road;
- Reinforce Concrete Work and Falsework Erection at Visitor Centre;
- Reinforce Concrete Work and Falsework Erection at Sewage Pumping Station-A;
- ELS and Reinforce Concrete Work at Sewage Pumping Station-B;

- Dust Emission
- Handling and storage of C&D materials generated from construction activities
- Noise from plant operation
- Emission of dark smoke from PMEs
- Efficiency of wastewater and drainage management
- Tree Protection

- Good site practices
- Regular water spraying on stockpiles
- Provide tarpaulin sheets coverage on stockpiles
- Sorting and reuse of C&D materials as far as practicable
- Use of QPME and noise barrier/acoustic mat
- Regular maintenance of PMEs
- Implementation of wastewater and drainage management
- Retain and protect all existing trees and vegetation within the study area which are not directly affected by the works

Activities Key Issues Key Mitigation Measures

- Reinforce Concrete Work, Site Clearance, Retaining Wall Construction, Drainage Work and Construction of Transformer Room at SATP A02;
- Reinforce Concrete Work, Backfilling, Water Proofing Work and Falsework Erection at SATP A04;
- Site Clearance and Excavation at SATP A07.

Note:

- (1) The construction work in Area Part D was completed and the management and maintenance responsibility for the works was taken over by the Housing Department in Feb 2024.
- (2) The construction work in Area 42 and Area 46 were completed and the management and maintenance responsibility for the works were taken over by the Housing Department in May 2023 and April 2024 respectively.

1.5 Summary of EM&A Requirements

The status of all environmental aspects is presented in **Table 1.4**. The EM&A requirements remained unchanged during the reporting period.

Table 1.4: Summary of Status for the Environmental Aspects under the Updated EM&A Manual

Parameter	Status
Air Quality	
Baseline Monitoring	The results of baseline air quality monitoring for TCW were reported in the Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	On-going for TCW. Monitoring conducted three times in every 6 days.
Noise	
Baseline Monitoring (Construction Noise)	The results of baseline noise monitoring for TCW were reported in the Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring (Construction Noise)	On-going for TCW. Monitoring conducted once per week.
Impact Monitoring for Road Traffic Noise during Operational Phase	To be conducted during operational phase.
Fixed Noise Commissioning Test	To be implemented by the Contractor before operation of Tung Chung New Town Extension (TCNTE) development.
Water Quality	
Baseline Monitoring	The results of baseline water quality monitoring for TCW were reported in the Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	On-going for TCW. Monitoring conducted three times per week.
Waste Management	
Waste Monitoring	On-going.
Land Contamination	
Contamination Assessment Plan (CAP), Remediation Action Plan (RAP) and Remediation Report (RR)	Re-appraisal of the remaining areas of the Possible Development Areas (PDAs) (including Area 46) and works areas for the associated infrastructures for both Contract 5 and Contract 6 in accordance with Section 8.3.4 and 8.4.2 of the approved EIA report (AEIAR-196/2016) and Section 10.3 of the Updated EM&A Manual were implemented and the associated reports were approved by EPD.
	Remediation works in Area 42 was completed in accordance with the Contamination Assessment Report and Remediation Action Plan as approved by EPD. Revised Remediation Report for Area 42 was submitted to EPD on 9 August 2023 and approved by EPD on 28 August 2023.
	Site investigation at the potentially contaminated sites/surveyed sites in Chung Mun Road, Road L29 and Shek Mun Kap Road was completed in accordance with the Supplementary Contamination Assessment Plan as approved by EPD. Contamination Assessment Report was approved by EPD on 11 January 2023.
	Site investigation for Site TC-1 located in Area Part F was completed in accordance with the Supplementary Contamination Assessment Plan as approved by EPD. Contamination Assessment Report for Site TC-1 was approved by EPD on 16 May 2023.
	Site investigation for Site TC-4 located in Chung Mun Road was carried out in July 2023 in accordance with the Supplementary Contamination Assessment Plan as approved by EPD. Revised Supplementary Contamination Assessment Report for Site TC-4 was approved by EPD on 5 October 2023.

Status
Compensation Woodland Planting was completed in May 2022. With the approval from EPD on the monitoring proposal in October 2022, the monitoring for Compensation Woodland was commenced in November 2022. Quarterly post-planting monitoring report for August 2025 was submitted to EPD on 30 September 2025. The 1 st report for establishment of action targets on percentage canopy cover formation was submitted to EPD on 30 September 2025. Quarterly post-planting monitoring for the compensation woodland was ongoing.
To be conducted when the emergent plants are planted.
Pre-construction survey was conducted during 20-22 October 2021. Capture and translocation exercise was conducted during 29-31 October 2021. Report of Capture and Translocation Exercise was submitted by Contractor and no target amphibian species were captured or translocated during the exercise.
Pre-construction Survey Report and the Preservation/Translocation Proposal were submitted to EPD. Preservation of Plant Species of Conservation Importance has been commenced and monitoring has been carried out in the reporting period. Translocation of the two (2) individuals of Aquilaria sinensis to temporary holding nursery in Tai Po as stipulated in the revised Proposal for Plant Species of Conservation Importance for Contract 6 was completed on 29 September 2023.
The results of baseline ecological monitoring at the Eastern and
Western Tributary of Tung Chung Stream for TCW were reported in the Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Monitoring for Wong Lung Hang was not required and the proposal by the ET Leader of TCE was accepted by EPD on 2 September 2021.
On-going for the Eastern Tributary of Tung Chung Stream for TCW. Monitoring conducted at monthly intervals.
The results of baseline landscape and visual monitoring were reported in the Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
On-going.
On-going.
Under implementation by the Contractor of Contract 6.
Not applicable during this reporting period.
Not applicable during this reporting period.
Under implementation by the Contractors of Contracts 5 and 6.
Under implementation by the Contractor of Contract 6.
Under implementation by the Contractor of Contract 6.

Parameter	Status
Waste Management Plan implementation measures	Under implementation by the Contractors of Contracts 5 and 6.
Complaint Hotline and Email Channel	Under implementation by the Contractors of Contracts 5 and 6.
Environmental Log Book	On-going.

Taking into account the construction works, impact monitoring of air quality, noise, water quality, ecology and waste management were carried out in the reporting period. The monitoring schedule of air quality, noise, water quality and ecological monitoring are provided in **Appendix F**, **Appendix G**, **Appendix H** and **Appendix I** respectively.

The EM&A programme also involved environmental site inspections and related auditing conducted by the ET for checking the implementation of the required environmental mitigation measures recommended in the approved EIA Report and relevant EP submissions, including Detailed Preservation and/or Translocation Plan for Plant Species of Conservation Importance, Plan on Provision of Buffer Zones and Waste Management Plan.

1.6 Status of Statutory Environmental Compliance with the Environmental Permit

The status of statutory environmental compliance with the EP conditions under the EIAO, submission status under the EP and implementation status of mitigation measures are presented in **Appendix D**.

1.7 Status of Other Statutory Environmental Requirements

The environmental licences and permits (including Environmental Permit, waste disposal billing account, registration as chemical waste producer and construction noise permit) which were valid in the reporting period are presented in **Appendix E**. No non-compliance with environmental statutory requirements was recorded.

1.8 Reporting of EM&A Results

The EM&A programme for the Project required environmental monitoring for air quality, noise and water quality as well as environmental site inspections for air quality, noise, water quality, waste management, ecology, and landscape and visual impacts. The EM&A requirements and related findings for each component are summarised in the following sections:

- Section 2 Air Quality;
- Section 3 Noise;
- Section 4 Water Quality;
- Section 5 Ecology;
- Section 6 Waste Management Status;
- Section 7 EM&A Site Inspection;
- Section 8 Implementation Status of Environmental Mitigation Measures;
- Section 9 Summary of Exceedances of the Environmental Quality Performance Limit;
- Section 10 Summary of Complaints, Notification of Summons and Successful Prosecutions;
- Section 11 Future Key Issues; and
- Section 12 Conclusions and Recommendations.

2 Air Quality

2.1 Monitoring Requirements

According to the requirements in the Updated EM&A Manual, regular impact air quality monitoring shall be carried out at the designated monitoring locations during the construction period of the Project to obtain 1-hour Total Suspended Particulate (TSP) concentrations. One-hour sampling should be done at least 3 times per 6 days while the highest dust impact is expected. Further details of the impact air quality monitoring are presented in the following sections.

2.2 Monitoring Locations

A total of two air quality monitoring stations were identified for impact monitoring in the TCNTE possible development area (PDA) at Tung Chung West and are covered by this Report.

Locations of the impact air quality monitoring stations covered in this Report are summarised in **Table 2.1** and shown in **Appendix F1**.

Table 2.1: Impact Air Quality Monitoring Stations

Monitoring Station	Location
DM-5	Lung Tseung Tau
DM-6	Mok Ka

2.3 Monitoring Parameters, Frequency, Duration and Monitoring Dates

Table 2.2 summarises the parameters, frequency, duration and monitoring dates for impact air quality monitoring during the reporting period.

Table 2.2: Impact Air Quality Monitoring Parameters, Frequency, Duration and Monitoring Dates

Monitoring Station	Parameter	Frequency and Duration	Monitoring Dates
DM-5	1-hour Total Suspended	3 times per 6 days during the	3, 9, 15, 19, 25 & 30
DM-6	Particulates (TSP)	construction period of the Project	Sep 2025

2.4 Action and Limit Levels

The Action and Limit Levels of the air quality monitoring are provided in **Table 2.3** below.

Table 2.3: Action and Limit Levels for 1-hour TSP

Monitoring Station	Action Level (µg/m³)	Limit Level (µg/m³)
DM-5	266	500
DM-6	260	500

2.5 Monitoring Equipment

Portable direct reading dust meter was used to carry out the 1-hour TSP impact monitoring for the Project. The proposed use of portable direct reading dust meters was submitted to IEC and agreed by IEC in accordance with Section 5.5 of the Updated EM&A Manual. With the use of direct reading dust meter, it can allow prompt and direct results for the EM&A reporting and the implementation of the Event and Action Plan. The portable direct reading dust meter would be calibrated every year against High Volume Sampler (HVS) to check the validity and accuracy of the results measured by direct reading method.

Table 2.4 summarizes the equipment used in the impact air quality monitoring during the reporting period. Copies of the calibration certificates for the portable dust meters are presented in **Appendix F2** and show that the portable direct reading dust meter is capable of providing comparable results with that provided by HVS.

Table 2.4: Impact Air Quality Monitoring Equipment

Monitoring Station	Equipment	Model
DM-5	Portable direct reading dust meter	SIBATA LD-3B (Serial No. 456666) and
DM-6		SIBATA LD-5R (Serial No. 781281)

2.6 Monitoring Schedule for the Reporting Period

The schedule for impact air quality monitoring during the reporting period is provided in **Appendix F3**.

2.7 Results and Observations

The monitoring results for 1-hour TSP are summarised in **Table 2.5**. The monitoring data and the graphical presentation are provided in **Appendix F4**.

Table 2.5: Summary of 1-hour TSP Monitoring Results in the Reporting Period

Monitoring Station	Average (μg/m³)	Range (μg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
DM-5	51	44 – 59	266	500
DM-6	35	30 – 42	260	500

The dust sources in the reporting period included road traffic and nearby construction sites.

No exceedance of Action and Limit Levels was recorded for construction air quality monitoring in the reporting period. No action was thus required to be undertaken in accordance with the Event and Action Plan presented in **Appendix F5**.

3 Noise

3.1 Monitoring Requirements

According to the requirements in the Updated EM&A Manual, regular impact construction noise monitoring shall be carried out at the designated monitoring locations once per week during the construction period of the Project. Construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (L_{eq}). L_{eq} (30min) shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods, L_{eq} (5min) shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. As supplementary information for data auditing, statistical results such as L_{10} and L_{90} shall also be obtained for reference.

Further details of the impact construction noise monitoring are presented in the following sections.

3.2 Monitoring Locations

A total of five construction noise monitoring stations were identified for impact monitoring in the TCNTE possible development area (PDA) at Tung Chung West and are covered by this Report.

Locations of the impact construction noise monitoring stations covered in this Report are summarised in **Table 3.1** and shown in **Appendix G1**.

Table 3.1: Impact Construction Noise Monitoring Stations

Monitoring Station	Location	Type of Measurement
NMS-CA-5	Village house in Ma Wan Chung (G/F)	Free field [^]
NMS-CA-6	Village house in Shek Mun Kap (G/F)	Free field [^]
NMS-CA-7	YMCA of Hong Kong Christian College (Roof Floor)	Façade
NMS-CA-8	Caritas Wu Cheng-Chung College (Roof Floor) ⁽¹⁾	Façade
NMS-CA-9*	Hong Chi Shiu Pong Morninghope School (Roof Floor)	Façade

Remark: * NMS-CA-9, which was described as "possible school development near Tung Chung Area 39" in the Updated EM&A Manual, was subsequently confirmed as "Hong Chi Shiu Pong Morninghope School" prior to commencement of baseline monitoring.

3.3 Monitoring Parameters, Frequency, Duration and Monitoring Dates

Table 3.2 summarises the parameters, frequency, duration and monitoring dates for impact construction noise quality monitoring during the reporting period.

Table 3.2: Impact Construction Noise Monitoring Parameters, Frequency, Duration and Monitoring Dates

Monitoring Station	Parameter	Frequency and Duration	Monitoring Dates
NMS-CA-5	30-min measurement		
NMS-CA-6	between 0700 & 1900 hrs on	Once every week for 30 mins	
NMS-CA-7	normal weekdays (Monday to Saturday)	during the construction period of	2, 11, 16, 25 & 30 Sep 2025
NMS-CA-8	$L_{\rm eq}$, L_{10} and L_{90} would be	the Project	
NMS-CA-9	recorded		

3.4 Action and Limit Levels

The Action and Limit Levels for construction noise of the Project are provided in Table 3.3 below.

[^] For Free Field measurement, +3dB(A) should be added to the measured results.

⁽¹⁾ NMS-CA-8 was renamed as "Caritas Wu Cheng-Chung College" since 1 Sep 2024.

Table 3.3: Action and Limit Levels for Construction Noise

Monitoring Station	Time Period	Action Level	Limit Level (dB(A), L _{eq(30min)})
NMS-CA-5			75
NMS-CA-6	0700 1000 1	When one	75
NMS-CA-7*	0700-1900 hrs on normal weekdays#	documented complaint	
NMS-CA-8*	normal wookaayo	is received	70
NMS-CA-9*			(65 during school examination periods)

Note:

3.5 Monitoring Equipment

Integrating Sound Level Meters were used to conduct impact construction noise monitoring. They were the Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level (L_{Aeq}) and percentile sound pressure level (L_{x}). They complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1). **Table 3.4** summarizes the equipment used in the impact construction noise monitoring. Copies of the calibration certificates for the sound level meters and acoustical calibrators are attached in **Appendix G2**.

Table 3.4: Noise Monitoring Equipment

Monitoring Station	Equipment & Model		
	Integrating Sound Level Meter	Acoustical Calibrator	
NMS-CA-5			
NMS-CA-6			
NMS-CA-7	Rion NL-52 (serial no. 00175561)	Larson Davis CAL200 (serial no. 15678)	
NMS-CA-8			
NMS-CA-9			

3.6 Monitoring Schedule for the Reporting Period

The schedule for impact construction noise monitoring during the reporting period is provided in **Appendix G3**.

3.7 Results and Observations

The monitoring results for construction noise are summarised in **Table 3.5**. The monitoring data and the graphical presentation are provided in **Appendix G4**.

Table 3.5: Summary of Construction Noise Monitoring Results in the Reporting Period

Monitoring Station	Average	Range	Limit Level
	$(dB(A), L_{eq(30min)})$	$(dB(A), L_{eq(30min)})$	(dB(A), L _{eq(30min)})
NMS-CA-5	61^	55 – 66^	- 75
NMS-CA-6	56^	52 – 59^	- 75
NMS-CA-7	65	64 – 66	70
NMS-CA-8	65	64 – 66	65 [#] during school
NMS-CA-9	62	60 – 64	examination periods)

Note:

The noise sources during the construction noise monitoring in the reporting period included bird sound, nearby traffic, school activities and aircraft as well as nearby construction sites.

[#] If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

^{*} Denotes school / educational institution.

^{^ +3}dB(A) Façade correction included for Free Field measurement.

^{*} No school examination was taken place at NMS-CA7, NMS-CA8 and NMS-CA-9 during this reporting period.

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No exceedance of Action and Limit Levels was recorded for construction noise monitoring in the reporting period. No action was thus required to be undertaken in accordance with the Event and Action Plan presented in **Appendix G5**.

4 Water Quality

4.1 Monitoring Requirements

According to the requirements in the Updated EM&A Manual, regular impact water quality monitoring shall be carried out 3 days per week at the designated monitoring locations during the construction period of the Project. The interval between two sets of monitoring shall not be less than 36 hours. Further details of the impact water quality monitoring are presented in the following sections.

4.2 Monitoring Locations

The locations of the monitoring stations under the Project are shown in **Table 4.1** and **Appendix H1**.

Table 4.1: Impact Water Quality Monitoring Stations

Monitoring	Description	Location	
Station		Easting	Northing
TCW-WQM1	Downstream of Tung Chung Stream	810784	815710
Tung Chung Stre	am (West)		
TCW-WQM2	Middle of Tung Chung Stream (West)	810701	815015
TCW-WQM4	Upstream of Tung Chung Stream (West)	810641	814405
TCW-WQM6 ⁽¹⁾	Downstream of Tung Chung Stream (West)	810814	815385
Tung Chung Stre	am (East)		
TCW-WQM3A ⁽²⁾	Middle of Tung Chung Stream (East) [aka Upstream of River Park]	811083	814895
TCW-WQM5A ⁽³⁾	Upstream of Tung Chung Stream (East)	811194	814368
		811138	814498
TCW-WQM7 ⁽¹⁾	Downstream of Tung Chung Stream (East)	810862	815400
	[aka Downstream of River Park]		

Notes:

- (1) TCW-WQM6 and TCW-WQM7 are additional monitoring stations which can monitor the water quality impact associated with construction activities along the Tung Chung Stream (West) and Tung Chung Stream (East) respectively.
- (2) TCW-WQM3A is the proposed relocated TCW-WQM3, which will be upstream of the River Park where there are no direct works on Tung Chung Stream (East). The original TCW-WQM3 location lies within the construction works area for the future River Park, which will be directly modified and inaccessible during construction phase.
- (3) The monitoring location of TCW-WQM5A will be bounded by the coordinates shown, with the exact location depending on the nearest safe accessible and practical location to the original TCW-WQM5.

4.3 Monitoring Parameters, Frequency and Duration

Table 4.2 summarises the parameters, frequency and duration for impact water quality monitoring during the reporting period.

Table 4.2: Water Quality Monitoring Parameters, Duration and Frequency

Monitoring Station	Parameters (Units)	Frequency, Duration and Replication	Monitoring Dates
TCW-WQM1, TCW-WQM2, TCW-WQM3A, TCW-WQM4, TCW-WQM5A, TCW-WQM6, TCW-WQM7	 Dissolved Oxygen (DO) (mg/L and % saturation) Temperature (°C) Turbidity (NTU) Salinity (ppt) pH Suspended Solids (SS) (mg/L) 	Impact monitoring: 3 days per week during the construction period of the Project. Not less than 36 hours' interval between two sets of monitoring. Two (2) replicate in-situ measurements and water samples.	1, 3, 5, 10, 12, 15, 17, 19, 22, 26 & 29 Sep 2025 ⁽²⁾

Monitoring Station	Parameters (Units)	Frequency, Duration and Replication	Monitoring Dates
	 Conductivity⁽¹⁾ (µS/cm) 		

Remark

Note:

- (1) Conductivity is an additional reference monitoring parameter adopted during a review of the baseline monitoring programme in June 2021. It is not compulsory as prescribed in the Updated EM&A Manual.
- (2) Water quality monitoring scheduled on 8 and 24 Sep 2025 were cancelled due to the hoisting of Tropical Cyclone Warning Signal.

In addition to the parameters presented in **Table 4.2**, other relevant data were also recorded, including monitoring location, time, approximate water depth (by visual observation), tidal condition (if applicable), weather conditions and any special phenomena or work underway at the Project site.

4.4 Action and Limit Levels

The calculated Action and Limit Levels of the impact water quality monitoring for the monitoring stations of Tung Chung Stream (West), Tung Chung Stream (East) and TCW-WQM1 are shown in **Table 4.3** below.

Table 4.3: Calculated Action and Limit Levels for Impact Water Quality Monitoring

Action Level	Limit Level		
am (West)			
3.4 mg/L	3.3 mg/L		
7.0 mg/L or	16.9 mg/L or		
120% of upstream control station at the same tide of the same day, whichever is higher	130% of upstream control station at the same tide of the same day, whichever is higher		
6.7 NTU or	22.0 NTU or		
120% of upstream control station at the same tide of the same day, whichever is higher	130% of upstream control station at the same tide of the same day, whichever is higher		
am (East)			
4.2 mg/L	4.0 mg/L		
7.2 mg/L or	9.7 mg/L or		
120% of upstream control station at the same tide of the same day, whichever is higher	130% of upstream control station at the same tide of the same day, whichever is higher		
9.8 NTU or	22.5 NTU or		
120% of upstream control station at the same tide of the same day, whichever is higher	130% of upstream control station at the same tide of the same day, whichever is higher		
2.2 mg/L	1.8 mg/L		
7.3 mg/L	9.7 mg/L		
24.7 NTU 35.3 NTU			
	3.4 mg/L 7.0 mg/L or 120% of upstream control station at the same tide of the same day, whichever is higher 6.7 NTU or 120% of upstream control station at the same tide of the same day, whichever is higher am (East) 4.2 mg/L 7.2 mg/L or 120% of upstream control station at the same tide of the same day, whichever is higher 9.8 NTU or 120% of upstream control station at the same tide of the same day, whichever is higher 2.2 mg/L 7.3 mg/L		

Notes:

- (1) For DO, non-compliance occurs when monitoring results is lower than the limits.
- (2) For SS and Turbidity, non-compliance occurs when monitoring results is larger than the limits.
- (3) Action and Limit Levels do not apply to TCW-WQM4 and TCW-WQM5A which are upstream control stations.

4.5 Monitoring Equipment

Table 4.4 summarizes the equipment used in the impact water quality monitoring works. All the monitoring equipment complied with the requirements set out in the Updated EM&A Manual. Copies of the calibration certificates are attached in **Appendix H2**.

^{1.} Water depth measurement is not applicable due to very shallow depth of the monitoring locations.

Table 4.4: Water Quality Monitoring Equipment

Equipment	Brand and Model
Multifunctional Meter (in-situ measurement of DO, pH,	Horiba U-53
temperature, salinity, turbidity and conductivity)	(serial no. FXMONLLF & KP23RRSM)

4.6 Monitoring Schedule for the Reporting Period

The schedule for impact water quality monitoring during the reporting period is provided in **Appendix H3**.

4.7 Results and Observations

A total of 11 monitoring events for impact water quality monitoring were conducted at all designated monitoring stations during the reporting period. Impact water quality monitoring results and graphical presentations were provided in **Appendix H4**.

Action and Limit Level exceedances were recorded for water quality impact monitoring in the reporting period and the Event and Action Plan (**Appendix H5**) was undertaken. Investigations on the Action and Limit Level exceedances were conducted and summarised in **Table 4.5** below.

Table 4.5: Details of Exceedances Recorded for Water Quality Monitoring

Date	Parameter	Station	Type	Justification
3 Sep 2025	Suspended Solids	TCW-WQM1	Limit	(a) (b) (c) (d) (f) (g)
	Turbidity	TCW-WQM2	Action	(a) (b) (c) (d) (g) (h)
	Turbidity	TCW-WQM7	Limit	(a) (b) (c) (d) (e)
	Suspended Solids	_	Limit	(a) (b) (c) (d) (e)
5 Sep 2025	Suspended Solids	TCW-WQM7	Limit	(a) (b) (c) (d) (i)
10 Sep 2025	Suspended Solids	TCW-WQM1	Limit	(a) (b) (c) (f) (k)
	Turbidity	TCW-WQM2	Limit	(a) (b) (c) (g) (h) (k)
	Suspended Solids		Limit	(a) (b) (c) (g) (h) (k)
	Turbidity	TCW-WQM3A	Limit	(a) (b) (c) (g) (k)
	Suspended Solids		Limit	(a) (b) (c) (g) (k)
	Turbidity	TCW-WQM6	Limit	(a) (b) (c) (g) (h) (k)
	Suspended Solids		Limit	(a) (b) (c) (g) (h) (k)
	Turbidity	TCW-WQM7	Limit	(a) (b) (c) (g) (j) (k) (l) (m)
	Suspended Solids		Limit	(a) (b) (c) (g) (j) (k) (l) (m)
12 Sep 2025	Suspended Solids	TCW-WQM1	Action	(a) (b) (c) (d) (g) (i)

Remarks:

- (a) Construction runoff was diverted to the wastewater treatment facility for treatment before final discharge.
- (b) Sump pits were constructed at site for temporary containment of surface runoff.
- (c) Deployment of additional of sedimentation tank for the existing wastewater treatment facility to enhance the overall treatment capacity of the wastewater treatment facility.
- (d) No deficiency in the practices of the implementation of the environmental mitigation measures was observed during the course of monitoring.
- (e) Silty water was observed at the monitoring station but the source of silty water could not be identified during the course of monitoring.
- (f) The cause of the elevated measurement result might be due to the runoff from upstream monitoring stations.
- (g) No measurement exceedance was recorded during the subsequent monitoring event.
- (h) No construction activities were taken place along the Western Tributary of Tung Chung Stream.
- (i) No specific observations were made during the course of monitoring which might result in the exceedance in the measurement results.

- (j) Deficiency in the practices of the implementation of the environmental mitigation measures was observed during the course of monitoring.
- (k) The weather was rainy on the sampling day. The high river water flow resulted in resuspension of the deposited sediment in the riverbed and the elevated measurements at the monitoring station.
- (I) Contractor has hard-paved the works area along the river shore near Visitor Centre construction site to prevent formation of silty surface runoff.
- (m) Contractor has reconnected the water pipe to divert wastewater to the sedimentation tank for treatment prior to discharge.

5 Ecology

5.1 Monitoring Requirements

According to the requirements in the Updated EM&A Manual, regular impact ecological monitoring in terms of water quality, aquatic invertebrate and fish species shall be carried out on a monthly basis at the designated monitoring locations during the construction period of the Project. Further details of the impact ecological monitoring are presented in the following sections.

5.2 Monitoring Locations

A total of seven (7) monitoring stations at Tung Chung Stream covering both River Park and other Public Works (road crossings, polders, and stormwater attenuation and treatment ponds) were identified for the construction phase monitoring.

The locations of the monitoring stations are presented in **Table 5.1** and **Appendix I1**. Note that the exact monitoring locations were subject to fine adjustment based on site conditions (e.g. adverse weather conditions, blockage by plants, rocks or other obstacles).

Table 5.1: Impact Ecological Monitoring Stations

Monitoring	Description		ordinates		
Station		Easting	Northing	Latitude (N)	Longitude (E)
RP1	Conservation Zone (Natural Section)	811150	814469	22°16'07.95"N	113°55'59.41"E
RP2	Upstream of River Park	811083	814895	22°16'21.77"N	113°55'57.05"E
RP3 ⁽¹⁾	Revitalisation Zone (Channelised Section)	811036	815076	22°16'27.66"N	113°55'55.38"E
RP4	Downstream of River Park	810846	815402	22°16'38.25"N	113°55'48.72"E
PW1	Near Public Works	811099	814589	22°16'11.83"N	113°55'57.63"E
PW2 (1)	Near Public Works	810933	815318	22°16'35.54"N	113°55'51.79"E
PW3	Near Public Works	810789	815658	22°16'46.56"N	113°55'46.71"E

Note (1): Ecological Monitoring at the monitoring station RP3 and PW2 were suspended since March 2023 with the commencement of temporary river diversion in Tung Chung Stream.

5.3 Monitoring Frequency and Dates

As required under the Updated EM&A Manual, the impact ecological monitoring shall cover the full construction programme on a monthly basis. **Table 5.2** summarises the frequency and monitoring dates for the impact monitoring during the reporting period.

Table 5.2: Impact Ecological Monitoring Schedule

Sep 2025	16 September 2025	
Month	Other Public Works Study Area (PW1 and PW3)	
Reporting	River Park Study Area (RP1, RP2 and RP4) and	

5.4 Monitoring Methodology

5.4.1 Stream Fauna

Several survey methods which covered different components of the stream fauna (which includes fish species and aquatic invertebrates) were used to monitor the study areas to yield a comprehensive result:

- 1. Direct Observation covered all along the accessible part of the watercourse to provide a species list of fish and aquatic invertebrate with corresponding relative abundance.
- 2. Baited Fish Cage At each sampling location, two replicates of baited fish cages were deployed for a duration of at least one hour. All collected fish and aquatic invertebrate species were recorded and their abundance were counted. This method may collect fishes which are wary of humans. Permit from the AFCD was obtained before the use of any equipment to collect stream fauna in any streams and watercourses.
- 3. Kick Sampling at least two replicates of kick sampling were performed at each monitoring station to obtain aquatic invertebrate (and fish) samples. Kick sampling is a relatively quick method to survey aquatic invertebrates in shallow fast-flowing streams. A ~30 cm x ~30 cm kick sampler with ~0.5 mm mesh size was placed on the stream bed and the area just upstream of the sampler were vigorously disturbed by kicking for one minute. The contents of the net were transferred to suitable containers with freshwater for identification and counting in situ. All identifiable samples were released back to the sampling locations.

5.4.2 Water Quality

Parameter

Ecologically related water quality monitoring, including *in situ* measurements and collection of water samples for laboratory analysis, was conducted at each monitoring location. Duplicate water samples were collected at surface water level at each monitoring location.

Water quality parameters including Dissolved Oxygen (in % saturation and mg/L), pH value, temperature, turbidity and salinity were measured in situ while the other parameters, including Suspended Solids (SS), Ammonia, Total Kjeldahl Nitrogen (TKN), Total Phosphorus (TP), Escherichia coli (E. coli), 5-day Biochemical Oxygen Demand (BOD₅), Chemical Oxygen Demand (COD) and Oil & Grease, were measured at a HOKLAS accredited laboratory for water quality analysis. Other relevant data, including time, water depth, weather conditions and special phenomena or works underway in the vicinity were recorded.

The measured water quality parameters and laboratory testing method are shown in **Table 5.3**.

Table 5.3: Ecologically related Water Quality Monitoring Parameters and Testing Methods

In situ measurements	Instrument Range Capability	Measurement rEsolution
рН	0 – 14 pH Units	0.01 pH units
Salinity	0 – 40 ppt	0.01 ppt
Temperature	0 – 45°C	0.1°C
Turbidity	0 – 1000 NTU	0.1 NTU
Dissolved Oxygen (DO)	0 – 20 mg/L	0.1 mg/L
	0 – 200% saturation	0.1% saturation
Laboratory testing and analyses	Method Reference	Level of Reporting
Suspended Solids (SS)	APHA 2540 D	0.5 mg/L
Ammonia as N	APHA 4500 NH₃ G	0.01 mg/L
Total Kjeldahl Nitrogen (TKN) as N	APHA 4500 P: J;	0.05 mg/L
	APHA 4500 NO3: I	
Total Phosphorus as P	APHA 4500 P: J	0.01 mg/L

Parameter

E. coli	TM09/EC/10/98 Issue 3, HKEPD	1 CFU/100mL
5-day Biochemical Oxygen Demand (BOD₅)	APHA 5210 B	1 mg/L
Chemical Oxygen Demand (COD)	APHA 5220 B	2 mg/L
Oil & Grease	APHA 5520 B	2 mg/L

The equipment used for the *in situ* ecologically related water quality monitoring work is summarised in **Table 5.4**. Copies of the calibration certificates are attached in **Appendix I2**.

Table 5.4: Ecologically-related Water Quality Monitoring Equipment

Equipment	Brand and Model
Multifunctional Meter (in-situ measurement of DO, pH,	Horiba U-53
temperature, salinity and turbidity)	(serial no. X42XKBNO)

5.5 Action and Limit Levels

The Action and Limit Levels for the impact ecological monitoring are defined in Table 5.5.

Table 5.5: Action and Limit Levels for Impact Ecological Monitoring

Exceedance Level Description			
Action Level	Reduction in the monthly taxa diversity (i.e. number of species) of fish or aquatic invertebrate (macroinvertebrate only) of any monitoring station compared to the corresponding monitoring season and station of the baseline survey by 30% .		
Limit Level	Reduction in the monthly taxa diversity (i.e. number of species) of fish or aquatic invertebrate (macroinvertebrate only) of any monitoring station compared to the corresponding monitoring station and season of the baseline survey by 50% .		

For ease of reference, the Action and Limit Levels for aquatic invertebrate and fish (rounded to nearest 0.1) in Wet Season (April to October) and Dry Season (November to March) at each monitoring station are provided in **Table 5.6** and **Table 5.7** respectively.

Table 5.6: Action Level (AL) and Limit Level (LL) for Number of Aquatic Invertebrate Species at Each Monitoring Station during Wet (Apr - Oct) and Dry (Nov - Mar) Seasons

			River Park Study Area			Public	Works Stud	ly Area
		RP1	RP2	RP3	RP4	PW1	PW2	PW3
Wet	AL	2.1	1.2	1.3	2.0	0.9	2.8	1.6
season	LL	1.5	0.9	1.0	1.5	0.7	2.0	1.2
Dry	AL	1.5	1.3	0.7	2.5	1.4	2.6	0.5
season	LL	1.1	0.9	0.5	1.8	1.0	1.9	0.4

Table 5.7: Action Level (AL) and Limit Level (LL) for Number of Fish Species at Each Monitoring Station during Wet (Apr – Oct) and Dry (Nov – Mar) Seasons

		River Park Study Area			Public	Works Stud	dy Area	
		RP1	RP2	RP3	RP4	PW1	PW2	PW3
Wet	AL	3.6	3.5	0.9	5.0	2.8	0.9	4.4
season	LL	2.6	2.5	0.7	3.6	2.0	0.7	3.2
Dry	AL	4.1	3.5	0.1	4.3	4.7	0.5	4.2
season	LL	2.9	2.5	0.1	3.1	3.4	0.4	3.0

5.6 Results and Observations

5.6.1 Environment of Stream Courses

The environment of stream courses at the monitoring stations for the River Park Study Area (RP1 to RP4) and other Public Works Study Area (PW1 to PW3) are presented in **Table 5.8**.

Table 5.8: Environment of Stream Courses at each Monitoring Station

Station Name	Location	Physical Environment
RP1	Conservation Zone (Natural Section)	Fast flowing natural stream. The substrate was dominant with boulders and rocks, and sands were sometimes observed. Woodland with dense vegetation was on the river banks.
RP2	Upstream of River Park	Moderate fast flowing natural stream. The substrate was in the form of boulders, rocks, sand and silt mixture. Short but dense herbaceous vegetation was on the right bank of the stream, while dense woodland was on the left bank.
RP4	Downstream of River Park	The channelised section of Tung Chung Stream ended at the upstream of RP4. RP4 is a moderate fast flowing natural stream close to the estuary. The substrate was in the form of boulders, rocks, sand and silt mixture. Woody plants and herbaceous plants were along the river banks.
PW1	Near Public Works	Fast flowing natural stream. The substrate was dominant with boulders and rocks, and sand was sometimes observed. Woodland with dense vegetation was on the river banks. Stagnant water with foul smell was observed at direct upstream of the monitoring station in the reporting month.
PW3	Near Public Works	A natural estuary. The substrate was dominant with sand and mud. Dense mangroves were on the shores of the estuary.

Note (1): Ecological Monitoring at the monitoring station RP3 and PW2 were suspended since March 2023 with the commencement of temporary river diversion in Tung Chung Stream.

5.6.2 Stream Fauna

A total of 12 aquatic invertebrate species and 20 fish species were recorded across all monitoring stations during the reporting period. The monitoring results for aquatic invertebrate and fish species are summarised in **Table 5.9** and **Table 5.10**. The monitoring data is provided in **Appendix I4** and **Appendix I5**. Representative photos of the species of conservation importance and other species recorded are presented in **Appendix I3**.

Table 5.9: Summary of Aquatic Invertebrate Species Recorded in the Reporting Period

Common Name	Species Name	River Park Study Area			Public Works Study Area	
		RP1	RP2	RP4	PW1	PW3
Agriocnemis femina oryzae	Orange-tailed Midget (Larva)			~		
Amphipoda	Scud					~
Baetidae	Small Minnow Mayfly	~	✓		~	
Caridina cantonensis	Freshwater Shrimp	~			✓	
Copera marginipes	Yellow Featherlegs (Larva)			~		
Eriocheir hepuensis	Hepu Mitten Crab			~		
Heptageniidae	-		~			
Hydropsychidae	Caddisfly	~				
Leptophlebiidae	Prong-gilled Mayfly				~	
Parasesarma bidens	Mudflat Crab					~
Ptilomera tigrina	Water Strider				✓	
Zygonyx iris insignis ⁽¹⁾	Emerald Cascader (Larva)		~			
	Total no. of species	3	3	3	4	2
Action Level (Wet Season)		2.1	1.2	2.0	0.9	1.6
Limit Level (Wet Season)		1.5	0.9	1.5	0.7	1.2

Note (1): Species of conservation importance (Fellowes et. al., 2002)

Table 5.10: Summary of Fish Species Recorded in the Reporting Period

Common Name	Species Name	River Park Study Area			Public Works Study Area	
		RP1	RP2	RP4	PW1	PW3
-	Rhinogobius duospilus	~	~			
Barcheek Goby	Rhinogobius similis			~		
Beijiang Thick-lipped Barb	Acrossocheilus beijiangensis ⁽¹⁾	~				
Broken-band Hillstream Loach	Liniparhomaloptera disparis	~			~	
Chinese Barb	Barbodes semifasciolatus	~				
Common Mudskipper	Periophthalmus modestus					~
Common Silverbiddy	Gerres oyena					~
Fork Tongue Goby	Glossogobius giuris			~		
Indo-Pacific Tropical Sand Goby	Favonigobius reichei					~
Jarbua Terapon	Terapon jarbua					~
Javanese Fatnose Goby	Pseudogobius javanicus					~
Mullet	Mugilidae			~		~
Needlefish	Belonidae					~
Predaceous Chub	Parazacco spilurus ⁽²⁾	~	~		~	
Rice Fish	Oryzias curvinotus ⁽¹⁾			~		
Sucker-belly Loach	Pseudogastromyzon myersi	~			~	
Swordtail	Xiphophorus hellerii	~	~		~	
Tilapia	Tilapia sp.			~		~
Variable Platyfish	Xiphophorus variatus		~		~	
Yellowfin Seabream	Acanthopagrus latus					~
	Total no. of species	7	4	5	5	9
Action Level (Wet Season)		3.6	3.5	5.0	2.8	4.4
	Limit Level (Wet Season)	2.6	2.5	3.6	2.0	3.2

Note (1): Species of conservation importance (Fellowes et. al., 2002)

No exceedance of Action and Limit Levels was recorded for the impact ecological monitoring in the reporting period, comparing against the baseline monitoring data. No action was thus required to be undertaken in accordance with the Event and Action Plan presented in **Appendix 16**.

5.6.3 Water Quality

As the EM&A programme of TCW already has its own river water quality monitoring (i.e. 3 times per week, refer to **Section 4** of this EM&A Report) and its associated Action and Limit Levels, this section of ecologically-related water quality monitoring results (i.e. at monthly basis) will be adopted for facilitating the investigation in case of any trigger of Action and Limit Levels of the ecological monitoring. The ecologically related water quality monitoring result during the reporting period is summarised in **Appendix 17**.

5.7 References

Fellowes, J., M. Lau, D. Dudgeon, G.T. Reels, G.W.J., Ades, G. Carey, B. Chan, K. Roger, K.S. Lee M. Leven, K. Wilson and Y.T. Yu. 2002. Wild animals to watch: terrestrial and freshwater

^{(2):} Species of conservation importance (Yue & Chen, 1998)

fauna of conservation concern in Hong Kong. Memoirs of the Hong Kong Natural History Society. 25:123-159.

Yue, P., and Chen, Y. 1998. China Red Data Book of Endangered Animals: Pisces. Science Press, Beijing. China. 256pp.

6 Waste Management Status

6.1 General

The Contractors of Contracts 5 and 6 have each obtained a waste disposal billing account and registered as chemical waste producer. Sufficient numbers of receptacles were available for general refuse collection and sorting.

All dump trucks engaged on site were equipped with Real Time Tracking and Monitoring (RTTM) system during the reporting period. The Surveillance Team of the ET conducted regular site inspections on the dump trucks and their track records. No illegal dumping and landfilling of C&D materials was found during the reporting period.

Wastes generated during this reporting period include mainly non-inert construction wastes. Reference has been made to the waste flow tables prepared by the Contractors. The quantities of different types of wastes and imported fill materials are summarised in **Table 6.1**.

Table 6.1: Quantities of Different Waste Generated and Imported Fill Materials for TCW

Month / Year	Inert C&D Materials ^(a) (in '000m ³)	Imported Fill Materials ^(d) (in '000m³)	Inert Construction Waste Re-used in the Contract (in '000m³)	Inert Construction Waste Re-used in other Projects ^(e) (in '000m³)	Non-inert Construction Waste ^(b) (in '000m³)	Recyclable Materials ^(c) (in '000kg)	Chemical Waste ('000kg)
Jul 2025	5.91	0	0.94	4.95	0.44	0.50	0
Aug 2025	2.74	0.14	0.20	2.41	0.33	0.65	0
Sep 2025	4.87	2.42	0.20	2.62	0.38	0.54	0

- (a) Inert construction and demolition wastes include hard rock and large broken concrete, and materials disposed as public fill.
- (b) Non-inert construction wastes include general refuse disposed at landfill. (c) Recyclable materials include metals, paper, cardboard, plastics and others.
- (d) Imported fill materials include public fill.
- (e) Inert Construction Waste reused in other construction contracts under TCNTE.

7 EM&A Site Inspection

7.1 Monitoring Requirements

Environmental site inspections were carried out on a weekly basis with the Contractors and ER to monitor the implementation of proper environmental pollution control and mitigation measures for air quality, noise, water quality, waste management, ecology and landscape and visual impacts under the Project.

7.2 Site Inspections and Key Observations

In the reporting period:

- Five (5) site inspections were carried out on 2, 9, 16, 23 and 29 September 2025 for Contract 5: and
- Five (5) site inspections were carried out on 4, 11, 18, 25 and 30 September 2025 for Contract

Key observations during the site inspections are summarised in **Table 7.1**.

The Contractors were reminded to implement all relevant mitigation measures related to construction dust, construction noise, water quality, waste management, ecology and landscape and visual outlined in the EIA Report and the Updated EM&A Manual.

Table 7.1: Key Observations Identified during Site Inspections in this Reporting Period

Contract No.	Inspection Date(s)	Environmental Observation	Recommendation / Remark				
Contract 5	2 Sep 2025	Area Part H	Area Part H				
		Drip tray was not provided for the containment of chemicals	 Provide drip tray for the proper containment of chemicals to prevent potential spillage at the site 				
	9 Sep 2025	Area Part E	Area Part E				
		The chemical waste storage cabinet was not secured	 Secure the chemical waste storage cabinet to prevent unauthorised access by others 				
	16 Sep 2025	Area Part H	Area Part H				
		 Environmental Permit was not displayed NRMM label was found missing on the body of excavator 	 Display the copy of Environmental Permit for public information in accordance with the Permit requirement 				
			 Display the NRMM label on the body of the excavator in accordance with EPD's requirement 				
	23 Sep 2025	Area Part E	Area Part E				
		 Drip tray was not provided for the containment of chemicals 	Provide drip tray for proper containment of chemicals to prevent				
		Area Part H	potential spillage at the site				
		No deficiency was observed					
	29 Sep 2025	Area Part E	Area Part E				
		 The effluent quality as observed in the settling chamber of the wastewater treatment facility was unsatisfactory 	 Arrange proper maintenance of the wastewater treatment facility to ensure that the discharge quality could comply with discharge licence requirement 				
Contract 6	4 Sep 2025	Visitor Centre	Visitor Centre				
		 The effluent quality as observed in the settling chamber of the wastewater treatment facility was unsatisfactory 	 Arrange checking and maintenance of the wastewater treatment facility to ensure the wastewater could be treated properly before final discharge 				
	11 Sep 2025	Sewage Pumping Station-B	Sewage Pumping Station-B				
		Drip tray was not provided for the containment of oil drum and oil pump	Provide drip tray for the proper containment of oil drum and oil pump				
		Bridge A, Road L29 and SATP A05					
		No deficiency was observed					
	18 Sep 2025	Road L29	Road L29				
		Colour of the NRMM label affixed on the excavator was faded	Replace the NRMM label on the excavator as the colour of the label				
		Shek Mun Kap Road	was faded				
		Environmental Permit was not displayed	Shek Mun Kap Road				
			 Display the copy of Environmental Permit for public information in accordance with the Permit requirement 				

Contract No.	Inspection Date(s)	Environmental Observation	Recommendation / Remark
	25 Sep 2025	Bridge A	Bridge A
		 NRMM label was found missing on the body of the generator SATP A05 	 Affix valid NRMM label on the body of the generator SATP A05
		 Water pipe diverting the construction runoff to the wastewater treatment facility was disconnected Road L29 	 Connect the water pipe to divert the construction runoff to the wastewater treatment facility for proper treatment in accordance with discharge licence requirements before final discharge
		No deficiency was observed	
	30 Sep 2025	Road L29	Road L29
		 Oil stain was observed on the ground and oil was accumulated in the drip tray 	 Clean up the spillage and oil in drip tray and handle it as chemical waste
		Sewage Pumping Station-B	
		No deficiency was observed	

7.3 Landscape and Visual Mitigation Measures

Implementation of applicable landscape and visual mitigation measures (reference to the environmental protection measures MM1 to MM5, MM7 to MM8, MM10 to MM20 in **Appendix C**) was monitored in accordance with Manual. All measures undertaken by the Contractor during the construction phase and establishment work phase shall be audited by ET to ensure compliance with the intended aims of the measures.

The implementation status of the environmental protection measures is summarised below in **Table 7.2**. Examples of landscape and visual mitigation measures are shown in **Table 7.3**. The monitoring programme for detailed design, construction and establishment stages is presented in **Table 7.4**. Event and Action Plan for Landscape and Visual impacts is stated in **Table 7.5**.

Table 7.2: Landscape and Visual – Construction Phase Audit Summary

Landscape and Visual Mitigation Measures during Construction	Implementation Status	Relevant Contract(s) in the Reporting Period
MM1- Optimization of Construction Areas & Providing Temporary Landscape on Temporary Construction	Implementation of the measures were carried out during the detailed design stage of the Project.	All works contracts
MM2 - Minimize Topographical Changes		
MM3 - Preservation of Potentially Registerable OVTs, Rare and Protective Vegetation	Tree Protection Specifications were provided in the relevant Contract Specifications respectively for implementation by the Contractors under the Project.	All works contracts
	The Detailed Preservation and/or Translocation Plan for Plant Species of Conservation Importance was submitted under EP Condition 2.21 and accepted by EPD.	
	The Contractors' performance on the implementation of the tree maintenance and protection measures were observed and checked by the ET weekly during construction period.	
MM4 - Transplanting of Existing Trees	Tree Transplanting Specifications were provided in the relevant Contract Specifications respectively for implementation by the Contractors under the Project where trees would unavoidably be affected by the construction works.	All works contracts
	The Detailed Preservation and/or Translocation Plan for Plant Species of Conservation Importance was submitted under EP Condition 2.21 and accepted by EPD.	
	The Contractors were required to submit Method Statements for tree transplanting prior to the transplanting works. Tree inspections were conducted by ET to check the tree transplanting works implemented by the Contractors on site.	
	The Contractors' performance on the implementation of trees maintenance and protection measures on transplanted trees were observed and checked by the ET bi-monthly during the 24-month establishment period after the completion of each batch of transplanting works.	

Landscape and Visual Mitigation Measures during Construction	Implementation Status	Relevant Contract(s) in the Reporting Period
MM5 – Screen Hoarding	Implementation of mitigation measures was checked by ET during weekly site inspection. Implementation of the measures by Contractors was observed.	All works contracts
MM7 – Protection of Natural Rivers and Streams	Implementation of mitigation measures was checked by ET during weekly site inspection. Implementation of the measures by Contractors was observed.	Contract 6
MM8 - Preservation of Natural Coastline	Implementation of the measures was carried out during the detailed design stage of the Project.	Contract 5
MM10 – Compensatory Planting	Not applicable during the reporting period	All works contracts
MM11 – Woodland Restoration	Implementation of mitigation measures was checked by ET during weekly site inspection. Implementation of the measures by Contractors was observed.	Contract 6
MM12 – Screen Planting	Not applicable during the reporting period	All works contracts
MM13 – Roadside Planting	Not applicable during the reporting period	All works contracts
MM14 – Aesthetic Design of Built Development	Not applicable during the reporting period	All works contracts
MM15 – Maximise Greening on Structure	Not applicable during the reporting period	All works contracts
MM16 – Noise Barrier Design	Not applicable during the reporting period	Contract 6
MM17 – Landscape Treatment for Polders & Stormwater Attenuation and Treatment Ponds	Not applicable during the reporting period	Contract 6
MM18 - Landscaping on Slopes	Implementation of mitigation measures was checked by ET during weekly site inspection. Implementation of the measures by Contractors was observed.	All works contracts
MM19 - Landscape Treatment on Channelized Watercourses	Not applicable during the reporting period	Contract 6
MM20 - Lighting Control	Implementation of mitigation measures was checked by ET during weekly site inspection. Implementation of the measures by Contractors was observed.	All works contracts

Table 7.3: Examples of Landscape and Visual Mitigation Measures

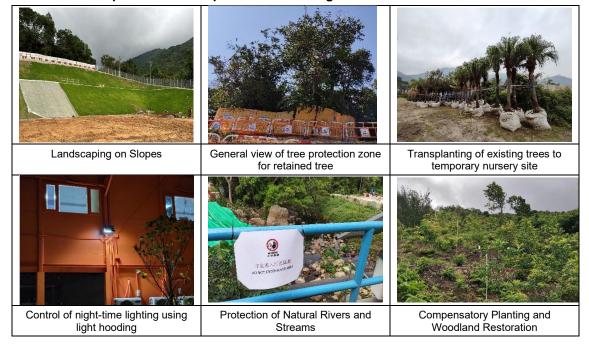


Table 7.4: Monitoring Programme for Landscape and Visual

Stage	Monitoring Task	Monitoring Report	Form of Approval	Frequency
Design	Monitoring of design works against the recommendations of the landscape and visual impact assessments within the EIA should be undertaken by the Engineer and Landscape Architect, to ensure that they fulfil the intentions of the mitigation measures. Any changes to the design, including design changes on site should also be checked	Report by CEDD / ER confirming that the design conforms to requirements of EP.	Approved by CEDD	At completion of design stage
Construction	Monitoring of the contractor's operations during the construction period.	Report on Contractor's compliance by ET	Counter signature of report by IEC	Monthly
Establishment Works	Monitoring of the planting works during the 24-months Establishment Period after completion of the construction works.	Report on Contractor's compliance by ET	Counter signature of report by IEC	Bi-monthly

Table 7.5: Event and Action Plan for Landscape and Visual

Event Action Action Level

	ET	IEC	ER	Contractor
Design Check	Check final design conforms to the requirements of EP and prepare report.	Check report. Recommend remedial design if necessary.	Undertake remedial design if necessary.	
Non-conformity on one occasion	Inform the IEC, ER and the Contractor Discuss remedial actions with IEC, ER and Contractor Monitor remedial actions until rectification has been completed.	Check report. Check Contractor's working method Discuss with ET, ER and Contractor on possible remedial measures. Advise ER on effective of proposed remedial measures. Check implementation of remedial measures.	Confirm receipt of notification of non-conformity in writing Review and agree on the remedial measures proposed by the Contractor Ensure remedial measures are properly implemented.	Identify source and investigate the non-conformity Amend working methods agreed with ER as appropriate Rectify damage and undertake any necessary replacement.
Repeated Non-conformity	Identify sources Inform the Contractor, IEC and ER Discuss inspection frequency Discuss remedial actions with IEC, ER and Contractor Monitor remedial actions until rectification has been completed If non-conformity stops, cease additional monitoring.	Check inspection report Check Contractor's working method Discuss with ET, ER and Contractor on possible remedial measures Advise ER on effectiveness of proposed remedial measures.	Notify the Contractor In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented Supervise implementation of remedial measures.	Identify source and investigate the non-conformity Amend working methods agreed with ER as appropriate Rectify damage and undertake any necessary replacement. Stop relevant portion of works as determined by ER until the non-conformity is abated.

7.4 Land Contamination Assessment

Re-appraisal of the remaining areas of the Possible Development Areas (PDAs) (including Area 46) and works areas for the associated infrastructures for both Contract 5 and Contract 6 in accordance with Section 8.3.4 and 8.4.2 of the approved EIA report (AEIAR-196/2016) and Section 10.3 of the Updated EM&A Manual were implemented and the associated reports were approved by EPD.

Remediation works in Area 42 was completed in accordance with the Contamination Assessment Report (CAR) and the Remediation Action Plan (RAP) as approved by EPD. Revised Remediation Report for Area 42 was submitted to EPD on 9 August 2023 and approved by EPD on 28 August 2023. Site Investigation at the potentially contaminated sites/surveyed sites in Chung Mun Road, Road L29 and Shek Mun Kap Road was completed in accordance with the Supplementary CAP as approved by EPD. CAR was approved by EPD on 11 January 2023. Site investigation for Site TC-1 located in Area Part F was completed in accordance with the Supplementary CAP as approved by EPD. CAR was approved by EPD on 16 May 2023. Site investigation for Site TC-4 located in Chung Mun Road was carried out in July 2023 in accordance with the Supplementary Contamination Assessment Plan as approved by EPD. Revised Supplementary Contamination Assessment Report for Site TC-4 was approved by EPD on 5 October 2023.

Further site investigation/reappraisal on land contamination for other potentially contaminated sites, surveyed sites, remaining areas and works areas in TCW would be conducted under

separate works contract(s) in accordance with the approved EIA Report and Updated EM&A Manual.

7.5 Monitoring for Compensation Woodland

Compensation Woodland Planting was completed in May 2022. With the approval from EPD on the monitoring proposal in October 2022, the monitoring for Compensation Woodland was commenced in November 2022. Quarterly post-planting monitoring report for September 2025 was submitted to EPD on 30 September 2025. The 1st report for establishment of action targets on percentage canopy cover formation was submitted to EPD on 30 September 2025. Photos of the Compensation Woodland planting are shown in **Table 7.6**.

Table 7.6: Photos of the Compensation Woodland Planting





7.6 Monitoring for Preserved/Transplanted Plant Species of Conservation Importance

For the plant species of conservation importance within the works area of Contract 5, there were three (3) individuals of *Gmelina chinensis*, six (6) individuals of *Aquilaria sinensis* and five (5) individuals of *Canthium dicoccum* identified. One (1) individual of *Gmelina chinensis*, two (2) individuals of *Aquilaria sinensis* and two (2) individuals of *Canthium dicoccum* were recommended being preserved *in-situ*. The remaining individuals were recommended to be removed owing to poor form and structure condition.

As for the plant species of conservation importance within the works area of Contract 6, there were twelve (12) individuals of *Aquilaria sinensis* identified. Three (3) individuals of *Aquilaria sinensis* were recommended being preserved *in-situ* while two (2) individuals of *Aquilaria sinensis* were recommended being transplanted to the receptor site in accordance with the Preservation and/or Translocation Proposal for Plant Species of Conservation Importance submitted under section 3.1.1 of Detailed Preservation and/or Translocation Plan for Plant Species of Conservation Importance (Condition 2.21 of the EP No. EP-519/2016). The remaining individuals were recommended to be removed owing to poor form and structure condition.

7.6.1 Preserved Plant Species of Conservation Importance

Monthly monitoring of a total of eight (8) individuals of the plant species of conservation importance which are recommended to be preserved *in-situ*, were implemented by the Qualified Botanist (QB) under Contract 5 and Contract 6 during the reporting period.

Monthly monitoring was conducted by QB appointed under Contract 5 on 25 September 2025. Branch failure was found at the individual of *Canthium dicoccum* (Tree No. T8217). The failure was suspected to be caused by strong wind induced by Typhoon WIPHA and adverse weather in July 2025. Overall condition of the individual and its remaining part was fair. One of the epicormic branch attached to the individual of *Canthium dicoccum* (Tree No. T8231) under Contract 5 was

found fallen from its own trunk on 3 May 2024 after the inclement weather. A second instance of epicormic failure was found at the individual which was suspected to be caused by the adverse weather in July 2025. The overall condition of the individual and its remaining part was fair. No obvious old termite tracks were found at the individual of Aquilaria sinensis (Tree No. U041) under Contract 5 during the reporting period. Peeling off of bark near trunk base was observed at the individual and internal decay was worsening with sounding test. Abnormal bark crack was observed at the individual. The risk of trunk failure was high as the trunk wound was significantly decayed. Adjustment of staking was carried out at the individual. Wound wood development was observed at the individual of Gmelina chinensis (Tree No. U042) under Contract 5. Root zone was partially restricted by existing slope surface. Crack on trunk base was found at the individual of Aquilaria sinensis (Tree No. U043) under Contract 5. Fungal fruiting bodies were found on the trunk occasionally and the trunk structure of the individual was weak. The structural condition of the individual would be kept monitoring by QB. Application of fungicide and insecticide were carried out at T8217, T8231, U041, U042 and U043. Trunk protection pads were readjusted for T8231, U041, U042 and U043. No significant damage was found for all individuals after the inclement weather induced by the Tropical Cyclones in September 2025.

As advised by Contract 6, three (3) individuals of *Aquilaria sinensis* (Tree No. A9, A10, A11) under Contract 6 were found to be felled illegally on 21 August 2023. The case was reported to the Hong Kong Police and EPD on 21 August 2023. However, one of the individuals of *Aquilaria sinensis* (Tree No. A11) was found resprouting. Monthly monitoring was conducted by QB appointed under Contract 6 on 27 September 2025. No insect infestation was observed at the individual during the reporting period. The foliage density of the individual was reduced after the inclement weather induced by the Tropical Cyclones in September 2025.

Photographic record and tree schedule of the preserved plant species of conservation importance monitoring are provided in **Appendix J**.

ET will continue to monitor the implementation of monitoring of *in-situ* preserved plant species of conservation importance.

7.6.2 Transplanted Plant Species of Conservation Importance

With the approval from EPD, the translocation of the two (2) individuals of *Aquilaria sinensis* to temporary holding nursery in Tai Po as stipulated in the revised Proposal for Plant Species of Conservation Importance for Contract 6 was completed on 29 September 2023. Monthly monitoring and maintenance works (e.g. weeding and watering) for the transplanted individuals for maintain the plant health and survival were carried out until translocation to the receptor site. Monthly monitoring was conducted by QB appointed under Contract 6 on 27 September 2025. The severity of insect feeding at both individuals was low during the reporting period. The foliage density of both individuals of *Aquilaria sinensis* (Tree No. A8 and A12) were reduced after the inclement weather induced by the Tropical Cyclones in September 2025. Regular watering, weeding and grass cutting were carried out and the conditions of these individuals were closely monitored.

Photographic record and tree schedule of the transplanted plant species of conservation importance monitoring are provided in **Appendix J**.

8 Implementation Status of Environmental Mitigation Measures

A summary of the Environmental Mitigation Implementation Schedule is presented in **Appendix C**. The necessary mitigation measures were implemented properly for the Project.

9 Summary of Exceedances of the Environmental Quality Performance Limit

No Action/Limit Level exceedance was recorded for the impact air quality monitoring (1-hour TSP) in the reporting period.

No Action/Limit Level exceedance was recorded for the construction noise monitoring in the reporting period.

Two (2) Action Level exceedances and thirteen (13) Limit Level exceedances were recorded for impact water quality monitoring in the reporting period. The investigations on the Action Level exceedances were conducted and the results were summarised in **Section 4.7**.

No Action/Limit Level exceedance was recorded for impact ecological monitoring in the reporting period.

Cumulative statistics on exceedance are summarised in Appendix K.

10 Summary of Complaints, Notification of Summons and Successful Prosecutions

There was no notification of summons or prosecution recorded in the reporting period.

Three (3) environmental complaints related to Contract 5 were received in the reporting period. Investigations were conducted for the environmental complaints in accordance with the complaint handling process as stated in the Complaint Management Plan. Environmental complaints in the reporting period are summarised in **Table 10.1** below.

Table 10.1: Summary of Environmental Complaint

	Complaint	Investigation/Follow Up action(s)
1	Environmental complaint related to Contract 5 was referred by EPD on 19 September 2025 regarding the construction dust nuisance generated from the construction site near Ma Wan Chung Carpark along Tung Chung Road North	Breaking of existing hard paving for drainage works at Tung Chung Road North south bound were carried out at the concerned construction site. To mitigate the potential dust impact from the construction activities, the Contractor has implemented the following mitigation measures specifically: 1. Water spraying during breaking works for dust suppression; and 2. Monitoring of exhaust emission from the excavator using Ringelmann Chart Site inspection at the concerned construction site was carried out by ET on 23 September 2025 and the performance of the mitigation measures as undertaken by the Contractor was satisfactory.
2&3	Two Environmental complaints related to Contract 5 were referred by EPD on 23 and 25 September 2025 regarding the soil/muddy water discharged at Tung Chung Bay	The weather was rainy with daily rainfall ranging from 140 to 200 mm recorded in Tung Chung with Amber Rainstorm Warning Signal issued on 20 and 21 September 2025. To mitigate the potential water quality impacts from the construction activities, the Contractor has implemented the following mitigation measures specifically: 1. Construction runoff was diverted to wastewater treatment facility at the construction site for treatment before final discharge; and 2. Deployment of silt curtain for Coastal Pedestrian Access works area. Daily inspection and maintenance for the wastewater treatment facilities were carried out and no abnormal observation was recorded by the Contractor. Site inspection at Coastal Pedestrian Access, Tung Chung Road North and Ma Wan Chung Carpark construction sites by RSS and ET on 23 September 2025. No muddy water discharge from the construction sites was observed. No deficiency in the practices of the implementation of the environmental mitigation measures was observed. The source of the muddy water discharge as observed by complainant at Tung Chung Bay could not be identified.

Statistics on complaints, notifications of summons, successful prosecutions are summarised in **Appendix K**.

11 Future Key Issues

11.1 Construction Programme for the Coming Reporting Period

Works to be undertaken in the coming reporting period (October 2025) are summarised in **Table 11.1** below, together with the key issues and the key mitigation measures.

The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures. The ET will also recommend to the Contractors about the environmental toolbox topics on the abovementioned key issues for the next reporting period.

11.2 Monitoring Schedule for the Coming Reporting Period

The tentative schedules for environmental monitoring in October 2025 are provided in **Appendix** L.

Table 11.1: Major Activities for the next Reporting Period

Activities Key Issues Key Mitigation Measures

Contract No. NL/2020/05 ("Contract 5")

Tung Chung New Town Extension - Site Formation and Infrastructure Works at Ma Wan Chung

- Backfilling and Road Work, Sloping Work, Excavation for Retaining Wall,
 Drainage Work (Excavation, Pipe Installation and Concreting), Sheet-pile
 Installation, Retaining Wall Construction (Excavation and Reinforce Concrete
 Work), Drainage Reinforce Concrete Construction and Excavation for Pipe
 Jacking Work at Part E;
- Excavation and Installation for Drainage Work, Cycle Track Construction,
 Drainage Pipe Jacking Excavation Work, Backfilling, Planter Reinstatement and Road Work at Part F;
- Defective and Outstanding Reinstatement Work at Part G;
- Sheet-pile Installation, Excavation for Retaining Wall Construction, Barrier-Free-Access Construction, Retaining Wall, Plant Room and Service Building Construction, Hiking Trail Construction, Landscape Planting Work and Road Work at Part H.

- Dust Emission
- Handling and storage of C&D materials generated from construction activities
- Noise from plant operation
- Emission of dark smoke from PMEs
- Efficiency of wastewater and drainage management
- Tree Protection

- Good site practices
- Regular water spraying on stockpiles
- Provide tarpaulin sheets coverage on stockpiles
- Sorting and reuse of C&D materials as far as practicable
- Use of QPME and noise barrier/acoustic mat
- Regular maintenance of PMEs
- Implementation of wastewater and drainage management
- Retain and protect all existing trees and vegetation within the study area which are not directly affected by the works

Contract No. NL/2020/06 ("Contract 6")

Tung Chung New Town Extension - Site Formation and Infrastructure Works at Tung Chung Valley, Phase 1

- Excavation, Backfilling, ELS and Reinforce Concrete Work for Riverbed and Box Culvert, Reinforce Concrete Work for Bridge A and Retaining Wall Construction, Piling Work for Noise Barrier Construction and Soldier Pile Wall Construction (Piling Work and Excavation for Capping Beam and Skin Wall) at Road L29;
- Drainage and Road Work, Utility Work, Water Piping Work and Construction Work for Bridge B at Road L30;
- Site Clearance, Excavation, ELS Work, Water Main and Rising Main Installation, Hard Paving, Backfilling and Compaction, Sloping Work at Yu Tung Road;
- Site Clearance, Excavation, ELS Work, Water Piping Work, Sewerage Work, Drainage Work, Sloping Work and Backfilling for Cycle Track and Footpath at Chung Mun Road;
- Excavation, Formwork Erection of Bridge C, Backfilling, Drainage and Sewerage Work, Road Work, Water Piping Work, Lamp Post and Railing Installation at Shek Mun Kap Road;
- Reinforce Concrete Work and Falsework Erection at Visitor Centre;
- Reinforce Concrete Work and Falsework Erection at Sewage Pumping Station-A;
- Backfilling Work and Reinforce Concrete Work at Sewage Pumping Station-B;
- Reinforce Concrete Work, Retaining Wall Construction, Site Clearance, Drainage Work and Construction of Transformer Room at SATP A02;
- Backfilling, Water Proofing Work and Stone Wall Construction at SATP A04;

- Dust Emission
- Handling and storage of C&D materials generated from construction activities
- Noise from plant operation
- Emission of dark smoke from PMEs
- Efficiency of wastewater and drainage management
- Tree Protection

- Good site practices
- Regular water spraying on stockpiles
- Provide tarpaulin sheets coverage on stockpiles
- Sorting and reuse of C&D materials as far as practicable
- Use of QPME and noise barrier/acoustic mat
- Regular maintenance of PMEs
- Implementation of wastewater and drainage management
- Retain and protect all existing trees and vegetation within the study area which are not directly affected by the works

Activities Key Issues Key Mitigation Measures

Site Clearance and Excavation at SATP A07.

12 Conclusions and Recommendations

General

This EM&A Report presents the findings of the EM&A activities undertaken for the Project – i.e., Tung Chung New Town Extension (TCNTE) development in Tung Chung West (TCW) – during the period from 1 to 30 September 2025 in accordance with the Updated EM&A Manual and the requirements of the Environmental Permit (EP) (No. EP-519/2016).

Air Quality

No exceedance of Action/Limit Levels was recorded for the air quality monitoring (1-hour TSP) in the reporting period.

Noise

No exceedance of Action/Limit Levels was recorded for the construction noise monitoring in the reporting period.

Water Quality

Two (2) Action Level exceedances and thirteen (13) Limit Level exceedances were recorded for impact water quality monitoring in the reporting period.

Ecology

No exceedance of Action/Limit Levels was recorded for impact ecological monitoring in the reporting period.

Environmental Site Inspections

Environmental site inspections were carried out during the reporting period. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site inspections.

Environmental Complaint, Notification of Summons or Prosecution

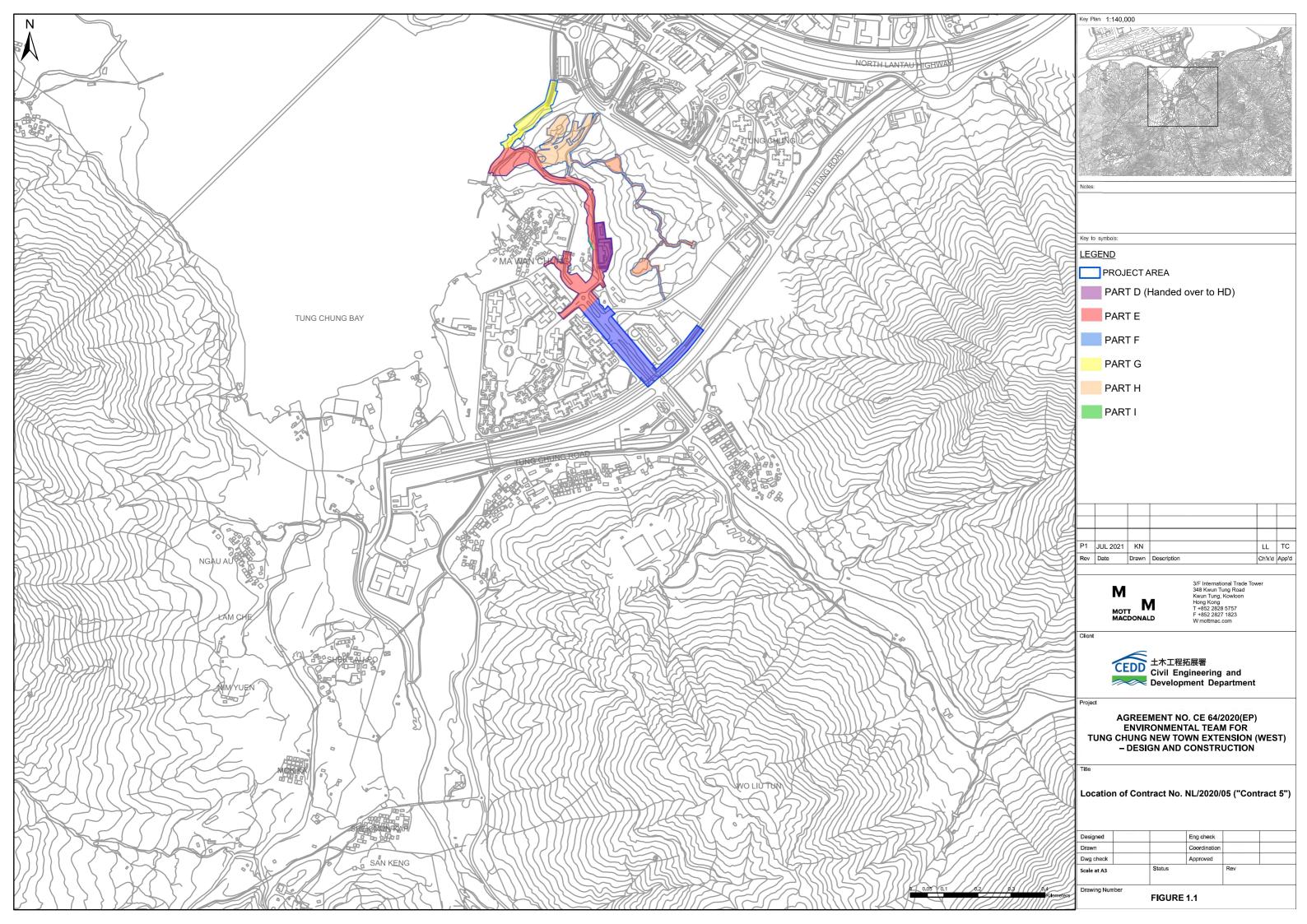
There was no notification of summons or prosecution recorded in the reporting period.

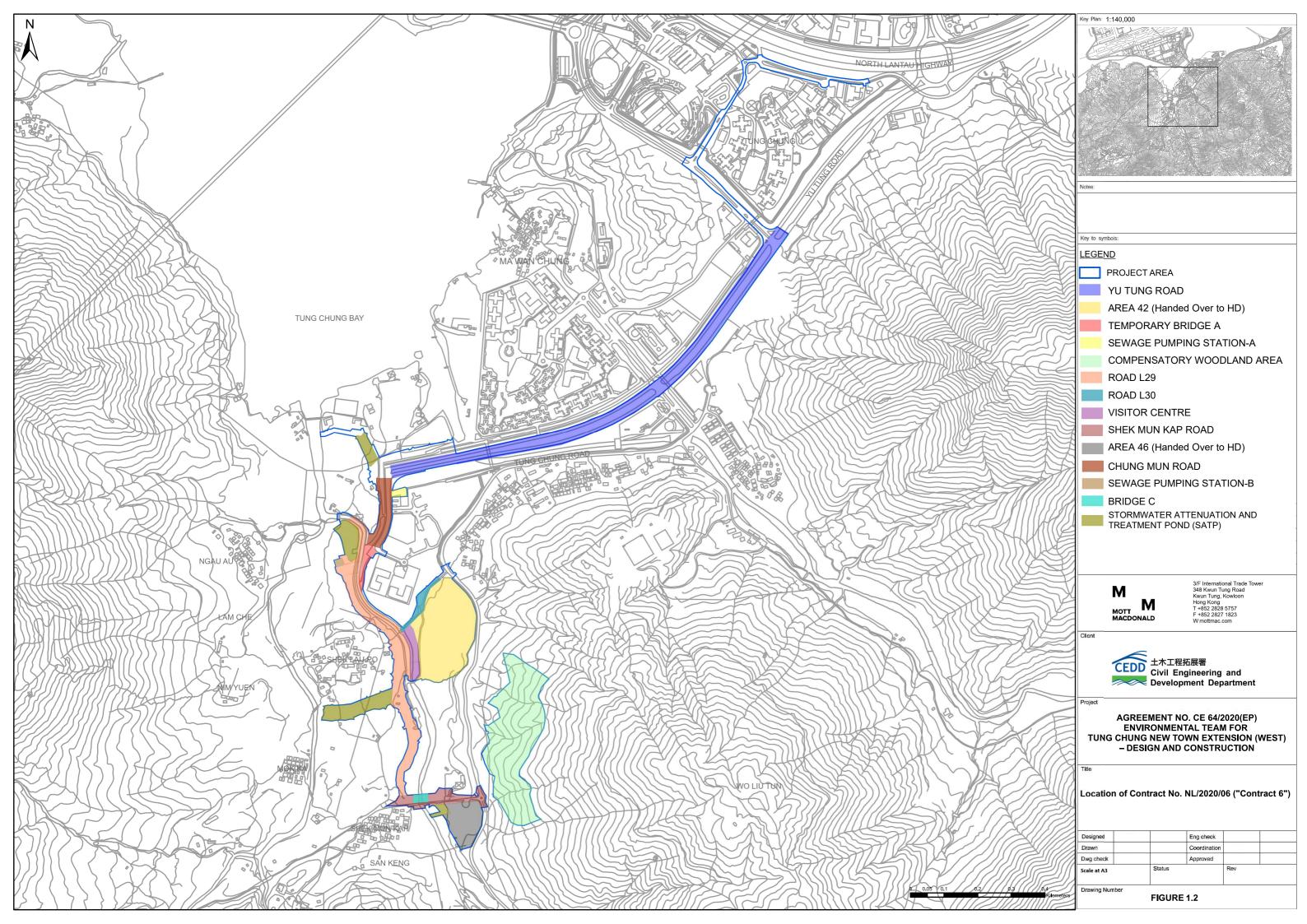
Three (3) environmental complaints related to Contract 5 were received in the reporting period. Investigations were conducted for the environmental complaints in accordance with the complaint handling process as stated in the Complaint Management Plan.

Recommendations

ET will keep track of the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Figures

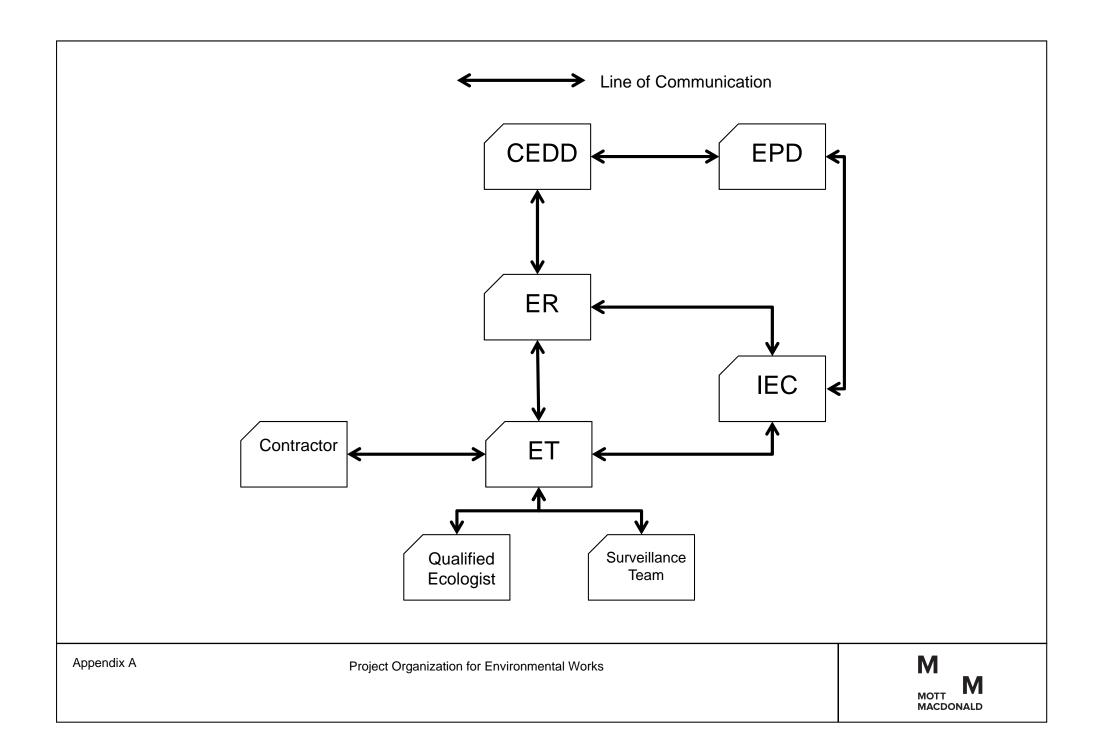




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A. Project Organisation

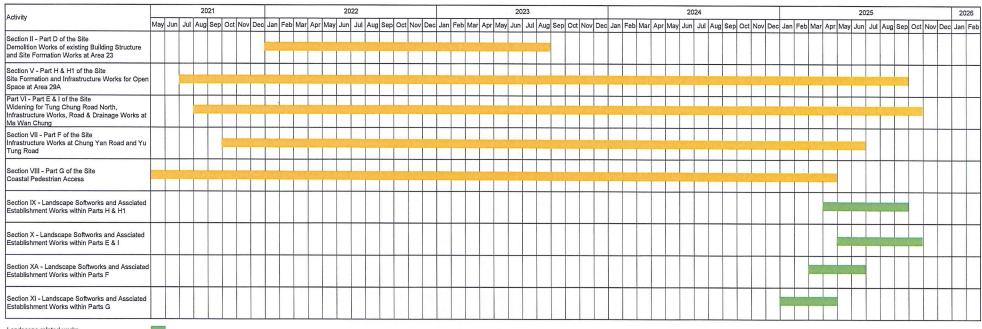


B. Construction Works Programme

Contract Title: Tung Chung New Town Extension - Site Formation and Infrastructure Works at Ma Wan Chung

Construction Work Schedule for EP Condition 2.12

Rev. 03 Updated: January 2025



Landscape related works
Construction works except Landscape

Contract No. NL/2020/06

Contract Title: Tung Chung New Town Extension – Site Formation and Infrastructure Works at Tung Chung Valley, Phase1

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Landscape related works Construction works except Landscape

C. Environmental Mitigation Implementation Schedule

(Relevant pages for the Project works in Tung Chung West, originally extracted from the Updated EM&A Manual, dated May 2018)

Note: Chapters 1 to 2 of the EIA report present the background information of the Project, identified concurrent projects, objectives and scope for various environmental aspects, and description on alternative options and construction description. Chapters 3 to 12 of the EIA report present the EIA findings and mitigation measures are described below with cross-reference to the EIA report. Chapters 13 to 15 describe the environmental monitoring requirements, summary of environmental outcomes and conclusion.

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
Common	Mitigation	Measures (Applicable to ALL Project Components, including D	Ps and Non-DPs)				
Construct	tion Dust In	npact					
S3.4.6	D1	Water spraying every hour on exposed worksites and haul road.	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	APCO To control the dust impact to meet HKAQO and TM-EIAO criteria
S3.4.6	D2	The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	APCO To control the dust impact to meet HKAQO and TM-EIAO criteria
S3.4.6	D3	The following dust suppression measures should be incorporated to control the dust nuisance throughout the construction phase: • Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; • Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	APCO To control the dust impact to meet HKAQO and TM-EIAO criteria

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		• A stockpile of dusty material should not be extended beyond the pedestrian barriers, fencing or traffic cones;					
		• The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle;					
		 Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores; 					
		 When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period; 					
		• The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials;					
		• Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously;					
		• Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet;					
		• Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens,					

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding;					
		• Any skip hoist for material transport should be totally enclosed by impervious sheeting;					
		• Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides;					
		• Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed;					
		• Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system; and					
		• Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shortcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.					
S3.4.6	D4	Implement regular dust monitoring under EM&A programme during the construction stage.	Monitoring of dust impact	Contractor	Selected dust monitoring stations	Construction stage	• TM-EIAO

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
Construc	ction Noise						
S4.3.4	N1	 Implement the following good site management practices: only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme; machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs; silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works; mobile plant should be sited as far away from NSRs as possible and practicable; material stockpiles, site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities. 	Control construction airborne noise	Contractor	All construction sites where practicable	Construction stage	• Annex 5, TM-EIAO
S4.3.4	N2	Use of quiet plant which should be made reference to the Powered Mechanical Equipment (PME) listed in the Technical Memorandum or the Quality Powered Mechanical Equipment (QPME) / other commonly used PME listed in Environmental Protection Department (EPD) web pages as far as possible which includes the Sound Power Level (SWLs) for specific quiet PME.	Reduce the noise levels of plant items	Contractor	All construction sites where practicable	Construction stage	• Annex 5, TM-EIAO
S4.3.4	N3	Install movable temporary noise barriers (typical design is wooden framed barrier with a small-cantilevered upper portion of superficial density no less than 7kg/m² on a skid	Screen the noisy plant items to be used at all	Contractor	All construction sites where	Construction stage	• Annex 5, TM- EIAO

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		footing with 25mm thick internal sound absorptive lining), and full enclosure, screen the noisy plants including air compressors, generators etc.	construction sites		practicable		
S4.3.4	N4	Implement a noise monitoring under EM&A programme.	Monitor the construction noise levels at the selected representative locations	Contractor	Selected noise monitoring stations	Construction stage	• TM-EIAO
Operation	onal Noise (I	Road Traffic Noise)					
S4.5.4	N5	Provide a series of noise mitigation measures including low noise surfacing material, noise barriers, facades with no openable window, school boundary walls and architectural fins before occupation of the protected NSRs. Locations of noise mitigation measures are stated as following: Year 2023: • Facade with no openable window at B1-1 and B1-2 for TCE; TCV-6 for TCW • 1.5m long architectural fin at B1-1 and B1-2 for TCE • Approx. 50m long, 4m high school boundary wall at possible school development near Tung Chung Area 39 • Approx. 120m long, 5m high vertical barrier with 3m cantilevered arm at 45° at the corner at junction between	Reduce operation noise from road traffic	Relevant government departments / Private developers	Refer to Figure 6.1, Figure 6.1a- b, Figure 6.2, Figures 6.2a-b, Figure 6.3, Figures 6.3a-d, Figure 6.4, and Figures 6.4a-e	While for mitigation measures to protect planned NSRs, it should be constructed before population intake	
		Chung Mun Road and Road L24 • Approx. 210m long LNRS along Chung Mun Road					
		Approx. 160m long LNRS along Road L24					
		Approx. 160m long LNRS along Road L30					
		Year 2025:					
		• Facade with no openable window at B1-1, B1-2, D1-1,					

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		D1-2, D2-3 and D2-4 for TCE; TCV-6 for TCW					
		• 1.5m long architectural fin at B1-1, B1-2 and D2-4 for TCE; TCV-1 for TCW					
		• Approx. 60m long, 5m high school boundary wall along Road L3					
		• Approx. 70m long, 5m high school boundary wall with 3m cantilevered arm at 45° along Road L3					
		• Approx. 50m long, 4m high school boundary wall at possible school development near Tung Chung Area 39					
		• Approx. 120m long, 5m high vertical barrier with 3m cantilevered arm at 45° at the corner at junction between Chung Mun Road and Road L24					
		Approx. 210m long LNRS along Chung Mun Road					
		Approx. 160m long LNRS along Road L24					
		Approx. 160m long LNRS along Road L30					
		Year 2027:					
		• Facade with no openable window at A1-1, A1-2, A2-1, A2-2, A2-3, A2-4, B1-1, B1-2, D1-1, D1-2, D2-3 and D2-4 for TCE; TCV-6 for TCW					
		• 1.5m long architectural fin at A2-1, A2-4, B1-1, B1-2 and D2-4 for TCE;					
		• 1.8m long architectural fin at A1-1, A1-2, A2-1 and A2-4					
		• Approx. 60m long, 5m high school boundary wall along Road L3					
		• Approx. 70m long, 5m high school boundary wall with 3m cantilevered arm at 45° along Road L3					
		• Approx. 50m long, 4m high school boundary wall at					

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		possible school development near Tung Chung Area 39					
		 Approx. 120m long, 5m high vertical barrier with 3m cantilevered arm at 45° at the corner at junction between Chung Mun Road and Road L24 					
		Approx. 210m long LNRS along Chung Mun Road					
		Approx. 160m long LNRS along Road L24					
		Approx. 160m long LNRS along Road L30					
		Year 2045:					
		• Facade with no openable window at A1-1, A1-2, A2-1, A2-2, A2-3, A2-4, B1-1, B1-2, C1-1, C2-1, C2-2, D1-1, D1-2, D2-3, D2-4, E1-4 and E1-5 for TCE; TCV-1 and TCV-6 for TCW					
		• 1.5m long architectural fin at A2-1, A2-4, B1-1, B1-2, C1-1 and D2-4 for TCE; TCV-1 for TCW					
		• 1.8m long architectural fin at A1-1, A1-2, A2-1, A2-4 and C1-1					
		• Approx. 100m long, 5m high absorptive vertical barrier along Road D3					
		• Approx. 50m long, 5m high absorptive vertical barrier with 3m cantilevered arm at 45° along Road L7					
		• Approx. 60m long, 5m high school boundary wall along Road L3					
		• Approx. 70m long, 5m high school boundary wall with 3m cantilevered arm at 45° along Road L3					
		• Approx. 80m long, 4m high school boundary wall along Road L2					
		• Approx. 40m long, 3m high school boundary wall along Road L2					

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		 Approx. 50m long, 4m high school boundary wall at possible school development near Tung Chung Area 39 					
		• Approx. 120m long, 5m high vertical barrier with 3m cantilevered arm at 45° at the corner at junction between Chung Mun Road and Road L24					
		Approx. 210m long LNRS along Chung Mun Road					
		• Approx. 160m long LNRS along Road L24					
		• Approx. 160m long LNRS along Road L30					
Operation	nal Noise (I	Fixed Noise)					
S4.6.4	N6	For existing and planned NSRs which are located near to the proposed noise sources, the following tentative noise mitigation measures are considered:		government departments /	All plant rooms where practicable		• Noise Control Ordinance and its TM, TM- EIAO
		• All the pumps should be enclosed inside building structures;		Future Operator			
		• Proper selection of quiet plant to reduce the tonality at NSRs;					
		Installation of silencer / acoustic enclosure / acoustic louvers for the exhaust of ventilation system.					
		• For underground train stations, sound attenuators with sufficient attenuations can be installed to the ventilation shafts.					
		• Openings of ventilation system should be located away from NSRs.					
	 nal Noise (1						

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
S4.8.4	N7	 Facade with no openable windows for residential block at B1-2 1.5m long architectural fin at B1-2 Before Phase 3 is occupied: It should be noted that Railway Stations at TCE and TCW and its associated railway system is a Designated Project under Item A.2 of Schedule 2 of TM-EIAO. Hence, the proposed mitigation measures are tentative for cumulative assessment purpose in this EIA and all the mitigation measures will be revised by the railway operator during their Schedule 2 EIA. Approx. 325m long, semi enclosure along the tracks of Tung Chung Line facing B0-2 and COM-1 Approx. 210m long, semi enclosure along the tracks of Tung Chung Line facing A1-2 and C1-1 Approx. 390m long, semi enclosure along the track of Tung Chung Line to Tung Chung direction facing C1-1 to C2-1 Approx. 630m long, semi enclosure along the track of Tung Chung Line to Hong Kong direction facing C1-1 and C2-1 		government	Refer to Figure 6.1, Figure 6.1a- b, Figure 6.2, Figures 6.2a-b, Figure 6.3, Figures 6.3a-d, Figure 6.4, and Figures 6.4a-e	population intake	• Noise Control Ordinance and its TM, TM-EIAO

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
Water Qu	uality (Const	ruction Phase)					
S5.4.3	W1	 General Construction Activities In accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection Department, 1994 (ProPECC PN1/94), best management practices should be implemented on site as far as practicable. The best practices are detailed below: At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works. Channels, earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities.; Diversion of natural stormwater should be provided as far as possible. The design of temporary on-site drainage should prevent runoff going through site surface, construction machinery and equipment in order to avoid or minimize polluted runoff. Sedimentation tanks with sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8 m3 capacities, are recommended as a general mitigation measure which can be used for settling surface runoff prior to disposal. The system capacity shall be flexible and able to handle multiple inputs from a variety of sources and suited to applications where the influent is pumped; The dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a silt/sediment trap. The silt/sediment traps should be incorporated in the permanent drainage channels to enhance deposition rates; 	To minimize water quality impact from construction site runoff and general construction activities	Contractor	All construction sites where applicable	Construction stage	Water Pollution Control Ordinance ProPECC PN1/94 TM-EIAO TM-DSS
		• The design of efficient silt removal facilities should be					

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		based on the guidelines in Appendix A1 of ProPECC PN 1/94. The detailed design of the sand/silt traps should be undertaken by the contractor prior to the commencement of construction;					
		Construction works should be programmed to minimize surface excavation works during the rainy seasons (April to September). All exposed earth areas should be completed and vegetated as soon as possible after earthworks have been completed. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means;					
		All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms. Deposited silt and grit should be removed regularly and disposed of by spreading evenly over stable, vegetated areas;					
		If the excavation of trenches in wet periods is necessary, it should be dug and backfilled in short sections wherever practicable. Water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities;					
		All open stockpiles of construction materials (for example, aggregates, sand and fill material) should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system;					
		Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being					

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		directed into foul sewers;					
		Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarized in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events;					
		• All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facilities should be provided at every construction site exit where practicable. Wash-water should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains;					
		Oil interceptors should be provided in the drainage system downstream of any oil/fuel pollution sources. The oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be provided for the oil interceptors to prevent flushing during heavy rain;					
		Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts;					
		All fuel tanks and storage areas should be provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching water sensitive					

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		 Regular environmental audit on the construction site should be carried out in order to prevent any malpractices. Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the water bodies, mangroves and open sea. 					
S5.4.3	W2	 Sewage from workforce Portable chemical toilets and sewage holding tanks are recommended for handling the construction sewage generated by the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance; Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the Project; Regular environmental audit on the construction site should be conducted in order to provide an effective control of any malpractices and achieve continual improvement of environmental performance on site. 	To minimize water quality from sewage effluent in construction phase	Contractor	All construction sites where practicable	Construction stage	Water Pollution Control Ordinance TM-DSS
S5.4.3	W3	Construction Works and Bridge Works near Tung Chung Stream • Use precast structures or other similar approaches	To prevent any construction works in river and avoid any direct water quality impact to Tung Chung Stream	Contractor	All construction sites where practicable	Construction stage	• ProPECC PN1/94
S5.4.3	W4	Construction Works of Sewage Pumping Stations A buffer zone of about 20m or about 30m will be zoned to	To avoid any direct water quality impact to Tung Chung Stream		All construction sites where	Construction stage	• ProPECC PN1/94

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		prevent any construction works near river.			practicable		
S5.4.3	W5	 Construction Work of Fresh Water and Salt Water Reservoirs Good site management as stipulated in ProPECC PN1/94 will be fully implemented to avoid polluted liquid or solid wastes from falling into the river waters or drainage. 	To avoid water quality impact	Contractor	All construction sites where practicable	Construction stage	• ProPECC PN1/94
S5.4.3	W6	 Construction of Storm Water Management Facilities and Polder Scheme Good site management as stipulated in ProPECC PN1/94 will be fully implemented to avoid polluted liquid or solid wastes from falling into the river waters or drainage. 	To avoid any direct water quality impact to Tung Chung Stream		All construction sites where practicable	Construction stage	• ProPECC PN1/94
S5.4.3	W7	 Groundwater and Runoff for Tunnel Works Cut-and-Cover method for the underpass at Road D1 in Tung Chung East to minimise the intrusion of groundwater. Good site management as stipulated in ProPECC PN1/94 will be fully implemented to avoid polluted liquid or solid wastes from falling into the river waters or drainage. 	To avoid water quality impact	Contractor	All construction sites where practicable	Construction stage	• ProPECC PN1/94
S5.5.8	W8	 Good Management Practice in Construction Phase The following good site management practices shall be adopted for the filling works: Water quality monitoring shall be implemented to ensure effective control of water pollution and recommend additional mitigation measures required; The decent speed of grabs shall be controlled to minimize the seabed impact and to reduce the volume of overdredging; A perimeter silt curtain shall be installed during the entire 	To avoid water quality impact	Contractor	All construction sites where practicable	Construction stage	• ProPECC PN1/94

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		reclamation periods;					
		Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation;					
		• Excess materials shall be cleaned from the decks and exposed fittings of barges before the vessels are moved;					
		Plants should not be operated with leaking pipes and any pipe leakages shall be repaired quickly;					
		Adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action;					
		 All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; and 					
		• The works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site.					
S5.5.8	W9	The recovered C&D materials for filling would be ensured no floating or non-inert material by visual inspection, quality assurance, etc.		Contractor	All construction sites where practicable	Construction stage	• Waste Disposal Ordinance

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
Water Qu	ality (Opera	tional Phase)					
S5.6.10	W10	The following mitigation measures will be implemented to TCV East, North and West SPS, upgraded CMRSPS, proposed TCE West SPS and TCE East SPS • 100% standby pump capacity with spare pump of 50% pump capacity • Dual-feed power supply • Wet well storage providing up to 6-hours ADWF capacity (equivalent to about 4 hours of response time during peak flow condition); and • Emergency communication mechanism amongst relevant government departments.	To prevent the impact due to the emergency discharge at TCW and TCE		Proposed Sewage Pumping Station at TCW and TCE	Operational Stage	• DSD's Sewerage Manual
S5.6.10	W11	 The following mitigation measures will be implemented to gravity sewers and rising mains Adopt high density polyethylene (HDPE) pipe for proposed gravity sewers and rising mains. Further protection on proposed rising mains with concrete surround will be provided to mitigate the risk of bursting. 	To minimize the risk of bursting and hence bursting discharge from gravity sewers and rising mains	DSD	Proposed rising mains within TCE and TCW	Operational Stage	-
S5.6.10	W12	Maintenance Dredging for the Proposed Marina Silt curtain should be deployed to reduce the sediment dispersion from the dredging inside the marina.	To reduce the sediment dispersion	Future operator	Proposed marina at TCE	Operational Stage	-

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
Sewage d	and Sewerag	e Treatment Implications					
S6.5.4	SS1	 Emergency Discharge of Proposed TCV West SPS, TCV East SPS, TCV North SPS and Upgraded CMRSPS The following mitigation measures will be implemented to TCV East, North and West SPS, and upgraded CMRSPS: 100% standby pumping capacity within each SPS, with spare pump up to 50% pumping capacity stockpiled in each SPS for any emergency use Twin rising mains Dual-feed power supply Emergency storage facilities up to 6-hours ADWF capacity; and Emergency communication mechanism amongst relevant government departments. 	To prevent the impact due to the emergency discharge at TCW	DSD	Proposed Sewage Pumping Station at TCW	Operational stage	N/A
S6.5.4	SS2	 Emergency Discharge of Proposed TCE West SPS and TCE East SPS In order to minimize the impact due to the emergency discharge, the following precautionary measures shall be included in the design of sewage pumping station: 100% standby pumping capacity within each SPS, with spare pump up to 50% pumping capacity stockpiled in each SPS for any emergency use Twin rising mains Dual-feed power supply Emergency storage facilities up to 6-hours ADWF capacity; and Emergency communication mechanism amongst relevant 	To minimize the impact due to the emergency discharge at TCE	DSD	Proposed Sewage Pumping Station at TCE	Operational stage	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		government departments.					
S6.5.4	SS3	The following mitigation measures will be implemented to prevent pipe bursting on Rising Mains within TCE and TCW: • Strong pipe – use HDPE pipe with welded joints • Concrete encasement – concrete surround all rising mains	To minimize the risk of bursting and hence bursting discharge from gravity sewers and rising mains		Proposed rising mains within TCE and TCW		N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
Waste M	anagement (Construction Waste)					
S7.4.1	WM1	Good Site Practices The following good site practices are recommended throughout the construction activities:	Minimize waste generation during construction	Contractor	All construction sites	Construction stage	Waste Disposal Ordinance
		 nomination of an approved personnel, such as a site manager, to be responsible for the implementation of good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; 					
		training of site personnel in site cleanliness, appropriate waste management procedures and concepts of waste reduction, reuse and recycling;					
		 provision of sufficient waste disposal points and regular collection for disposal; 					
		• imposition of penalty system on Contractors' improper behaviours when illegal dumping and landfilling outside their respective construction sites, i.e. on nearby farmlands and riverbanks, are reported;					
		appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers;					
		regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; and					
		• the contractor should prepare a Waste Management Plan (WMP) as part of the Environmental Management Plan (EMP) in accordance with the ETWB TC(W) No. 19/2005 for construction phase. The EMP should be submitted to the Engineer for approval. Mitigation measures proposed in the EIA Report and the EM&A Manual should be adopted.					

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
S7.4.1	WM2	 Waste Reduction Measures Waste reduction is best achieved at the planning and design phase, as well as by ensuring the implementation of good site practices. The following recommendations are proposed to achieve reduction: segregate and store different types of waste in different containers, skip or stockpiles to enhance reuse or recycling of materials and their proper disposal; proper storage and site practices to minimize the potential for damage and contamination of construction materials; plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste; sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable portions (i.e. soil, broken concrete, metal etc.); provide training to workers on the importance of appropriate waste management procedures, including waste reduction, reuse and recycling. 	Reduce waste generation	Contractor	All construction sites	Construction stage	• Waste Disposal Ordinance
S7.4.1	WM3	 Storage of Waste The following recommendation should be implemented to minimize the impacts: waste such as soil should be handled and stored well to ensure secure containment; and Depends on actual site activities, certain locations within the site area would be used for storage of waste to enhance reuse. However, there would not be any designated location for storage of waste, and the storage locations would need to be adjusted to suite actual site conditions; 	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal		All construction sites	Construction stage	 Land (Miscellaneous Provisions) Ordinance Waste Disposal Ordinance ETWB TCW No. 19/2005

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
S7.4.1	WM4	Collection and Transportation of Waste The following recommendation should be implemented to minimize the impacts: • remove waste in timely manner; • employ the trucks with cover or enclosed containers for waste transportation; • obtain relevant waste disposal permits from the appropriate authorities; and • disposal of waste should be done at licensed waste disposal facilities.	Minimize waste impacts from storage	Contractor	All construction sites	Construction stage	Waste Disposal Ordinance
S7.4.1	WM5	 Excavated and C&D Materials Wherever practicable, C&D materials should be segregated from other wastes to avoid contamination and ensure acceptability at public fill reception facilities or reclamation sites. The following mitigation measures should be implemented in handling the excavated and C&D materials: maintain temporary stockpiles and reuse excavated fill material for backfilling; carry out on-site sorting; make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; and implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified, so as to avoid the illegal dumping and landfilling of C&D materials on farmlands/ riverbanks at TCW; The recommended C&D materials handling should include: 	Minimize waste impacts from excavated and C&D materials	Contractor	All construction sites		 Land (Miscellaneous Provisions) Ordinance Waste Disposal Ordinance ETWB TCW No. 19/2005 Project Administrative Handbook for Civil Engineering Works, 2012 Edition

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		On-site sorting of C&D materials					
		Reuse of C&D materials					
		Use of Standard Formwork and Planning of Construction Materials purchasing					
S7.4.1	WM6	Provision of Wheel Wash Facilities Wheel wash facilities have to be provided at the site entrance before the trucks leaving the works area. Dust disturbance due to the trucks transportation to the public road network could be minimized by such arrangement.	Minimize waste impacts from trucks transportation		All construction sites	Construction Stage	N/A
S7.4.1	WM7	Excavated Contaminated Soil As a precaution, it is recommended that standard good site practice should be implemented during the construction phase to minimize any potential exposure to contaminated soils or groundwater.	Remediate contaminated soil	Contractor	All construction sites where applicable	Construction stage	 Practice Guide for Investigation and Remediation of Contaminated Land
S7.4.1	WM8	 Excavated Marine Sediments Reference has been made to the sediment testing results. Possible mitigation measures to handle the contaminated/uncontaminated sediment are summarized as follows. All construction plant and equipment shall be designed and maintained to minimise the risk of silt, sediments, contaminants or other pollutants being released into the water column or deposited in the locations other than designated location. All vessels shall be sized such that adequate draft 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. Adequate freeboard shall be maintained on barges to 	Handle excavated sediment	Contractor	All construction sites where applicable	Construction stage	• ETWB-TCW 34/2002

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		ensure that decks are not washed by wave action.					
S7.4.1	WM9	 Dumping of excavated sediment Keep and produce logs and other records to demonstrate compliance and ensure journeys are consistent with designated locations Comply with the conditions in the dumping permit. All bottom dumping vessels (hopper barges) shall be fitted with tight fittings seals to their bottom openings to prevent leakage of material. The excavated sediment shall be placed into the disposal pit by bottom dumping. Contaminated marine mud shall be transported by split barge of not less than 750m³ capacity and capable of rapid opening and discharge at the disposal site. Discharge shall be undertaken rapidly and the hoppers shall be closed immediately. Sediment adhering to the sides of the hopper shall not be washed out of the hopper and the hopper shall remain closed until the barge returns to the disposal site. For Type 3 special disposal treatment, sealing of contaminant with geosynthetic containment before dropping into designated mud pit. A geosynthetic containment method is a method whereby the sediments are sealed in geosynthetic containers and, the containers would be dropped into the designated contaminated mud pit where they would be covered by further mud disposal and later by the mud pit capping at the disposal site, thereby fulfilling the requirements for fully confined mud disposal. 	Handle excavated sediment	Contractor	All construction sites where applicable		• ETWB-TCW 34/2002
S7.4.1	WM10	<u>Chemical Waste</u>	Control the chemical waste and ensure proper	Contractor	All construction	Construction stage	1

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		If chemical wastes are produced at the construction site, the Contractors should register with EPD as chemical waste producer. Chemical wastes should be stored in appropriate containers and collected by a licensed chemical waste collector. Chemical wastes (e.g. spent lubricant oil) should be	storage, handling and disposal.		sites		(Chemical Waste) General) Regulation
		recycled at an appropriate facility as far as possible, while the chemical waste that cannot be recycled should be disposed of at either the Chemical Waste Treatment Centre, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.					Code of Practice on the Packaging, Labelling and Storage of Chemical Waste
S7.4.1	WM11	General Refuse General refuse should be stored in enclosed bins separately from construction and chemical wastes. Recycling bins should also be placed to encourage recycling.	Minimize production of the general refuse and avoid odour, pest and litter impacts		All construction sites	Construction stage	Waste Disposal Ordinance
		 Preferably enclosed and covered areas should be provided for general refuse collection and routine cleaning for these areas should also be implemented to keep areas clean. A reputable waste collector should be employed to remove general refuse on a daily basis. 					
S7.4.1	WM12	Floating Refuse accumulated along the seawall The floating refuse along seawall should be collected to avoid accumulation. In addition, proper seawall design should be employed, and regular checking and cleaning of floating refuse should be implemented.	Control floating refuse and ensure proper disposal	Contractor	Construction sites along seawall	Construction stage	Waste Disposal Ordinance
Waste Ma	anagement (Operational Waste)					
S7.4.2	WM13	Illegal dumping and landfilling	Prevent waste from	Relevant	All	Operational stage	

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		As a Development Permission Area (DPA) plan will be issued by the Town Planning Board as a temporary measure before the formal Outline Zoning Plan (OZP) for Tung Chung New Town Extension is adopted, statutory right to guide and control the development and use of land would be authorised. Should there be illegal dumping and landfilling observed/ reported on nearby farmlands and riverbanks, the government authority should take all necessary actions including but not limited to prosecution to remediate the circumstances.	illegal dumping and landfilling	government departments	construction sites		
S7.4.2	WM14	 Municipal Solid Waste A reputable waste collector should be employed to remove general refuse on a daily basis. A 4-bin recycling system for paper, metals, plastics and glass should be adopted together with a general refuse bin. They should be placed in prominent places to promote waste separation at source. All recyclable materials should be collected by recyclers. 	Remove general refuse generated from the proposed development	FEHD/ Relevant Operators	All construction sites	Operational stage	Waste Disposal Ordinance
S7.4.2	WM15	 Chemical Waste Localized chemical waste storage areas should be located close to the source of waste generation for temporary storage. Drum-type containers with proper labelling should be used to collect chemical wastes for storage at the designated areas. A licensed collector should be employed for the chemical waste collection and the chemical wastes should be disposed at an appropriate facility, such as 	Reduce chemical waste due to waste handling	Contractors/ Relevant Operators	All construction sites	Operational stage	
		 Chemical Waste Treatment Centre (CWTC) in Tsing Yi. Collection receipts issued by the licensed collector showing the quantities and types of chemical waste taken off-site and details of the treatment facility should be kept for record. 					

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S7.4.2	WM16	Floating Refuse accumulated along seawall The floating refuse along seawall should be collected to avoid accumulation.	Control floating refuse and ensure proper disposal		Along seawall	Operational stage	• Waste Disposal Ordinance
S7.4.2	WM17	Floating Refuse inside Marina • Floating refuse at the marina will be collected and disposed by the licensed waste collector and as required.	Reduce floating refuse washing up onto marina by currents and wind	_	Marina	Operational stage	• Waste Disposal Ordinance

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
Land Con	tamination						
S8.4.1	LC1	Undertaking environmental Site Inspection (SI) for all potentially contaminated sites as listed in the Contamination Assessment Plan (CAP).	contamination potential before the		All potentially contaminate d sites as listed in the CAP	construction stage	 Annex 19 of the TM-EIAO, Guidelines for Assessment of Impact On Sites of Cultural Heritage and Other Impacts (Section 3: Potential Contaminated Land Issues); Guidance Manual for Use of Risk-Based Remediation Goals (RBRGs) for Contaminated Land Management; Guidance Notes for Contaminated Land Assessment and Remediation; and Practice Guide for Investigation and Remediation of Contaminated Land

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
							• Recommendation s in Health Risk Assessment
S8.4.2	LC2	Re-appraisal would be required for the surveyed sites, other remaining areas of the PDAs and the works areas for the associated infrastructures because the development of these sites/ areas would only commence a number of years later, which may allow changes in the land usage of these sites and may give rise to potential land contamination issues. The Project Proponent's appointed consultant would prepare a supplementary CAP presenting the findings of the reappraisal and strategy of the recommended SI, if required, and submit to EPD for review and approval.	To assess the latest site situation and identify any potential additional hot spots and contaminated sites.	Detailed Design	All the surveyed sites as listed in the CAP, other remaining areas of the PDAs and works areas for the associated infrastructur es	Prior to the construction stage	Ditto
S8.5	LC3	After approval of the supplementary CAP and upon completion of the SI works, the PP should prepare and submit a Contamination Assessment Report (CAR) for all potentially contaminated sites listed in the CAP to EPD for agreement.	Present the findings of SI and evaluate the level and extent of potential contamination	Detailed Design	All the surveyed sites as listed in the CAP, other remaining areas of the PDAs and works areas for the associated infrastructures	Prior to the construction stage	Ditto
S.8.5	LC4	Preparation and submission of Remediation Action Plan (RAP) to EPD for agreement if land contamination is confirmed.	Recommend appropriate mitigation measures for the contaminated soil and groundwater identified in the	Detailed Design Consultant /	All the surveyed sites as listed in the CAP, other remaining	Prior to the construction stage	Ditto

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			assessment if remediation is required		areas of the PDAs and works areas for the associated infrastructu res		
S.8.5	LC5	Preparation and submission of Remediation Report (RR) to EPD for agreement.	Demonstrate that the decontamination work is adequate and is carried out in accordance with the endorsed CAR and RAP	Detailed Design Consultant / Private developer	All the surveyed sites as listed in the CAP, other remaining areas of the PDAs and works areas for the associated infrastructures	Prior to the construction stage	Ditto

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Ecology	(Design Ph	ase)			•		
S9.8.1	EC1	Development under the Project have avoided all the recognised sites of conservation importance, including Country Parks,		PlanD	TCW	RODP	Not available
S9.8.1	EC2	About 30m buffer zone at the two main branches and the joined outlet section of Tung Chung Stream; and about 20m buffer for the major tributary at Ngau Au of Tung Chung Stream	To protect the Tung Chung Stream	PlanD	Tung Chung Stream	RODP	Not available
S9.8.2	EC3	Detailed designs should avoid the encroachment of important habitats (e.g. Fung Shui Wood) within the Project Site		PlanD	TCW	Design Phase	Not available
S9.8.2	EC4	Detailed designs of noise barriers to prevent bird collision	To prevent bird collision	HyD	Noise barriers	Design Phase	Guidelines on Design of Noise Barriers
S9.8.2	EC5	Measures and suitable designs of sewage pumping stations to prevent emergency discharge accidents in TCE and TCW 100% standby pumping capacity within each SPS, with spare pump up to 50% pumping capacity stockpiled in each SPS for any emergency use Twin rising mains Dual-feed power supply Emergency storage facilities up to 6-hours ADWF capacity; and Emergency communication mechanism amongst relevant government departments.	bodies from impacts due to emergency discharge in TCE and TCW	DSD	Proposed and Upgraded Sewage pumping stations at TCE and TCW	Design Phase	• DSD standards

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Ecology	(Constructio	on Phase)					
S9.8.2	EC6	Adoption of non-dredged reclamation method	To maintain the marine water quality	Contractor	Reclamation area of TCE and Road P1	Construction phase	• EIA • Contractual requirements
S9.8.3	EC7	Compensation woodland planting	To compensate loss of woodland, fung shui wood and orchard	Contractor	Uphill of Sheung Lei Pai FSW and Tung Chung Road		• EIA • Contractual requirements
S9.8.3	EC8	Planting of emergent plant	To provide habitats for this Jhora Scrub Hopper, and to compensate the loss of their habitats (wet abandoned agricultural land) in northern section of Fong Yuen		Inside the future River Park	Construction phase	EIA Contractual requirements
S9.8.3	EC9	Capture-and-translocation exercise	Minimize the potential impact to amphibian species of conservation importance including Romer's Tree Frog and Chinese Bullfrog due to site formation	For public works, provided by the government departments responsible for the construction of those public works or the site formation works. For TCV-1 and	the eastern branch of Tung Chung Stream, in particular 1)	Capture-and- translocation exercise before commencement of site formation	

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
				TCV-5, where the lands within mostly belong to private lots, the future project proponents of those private lots, via the established mechanism for land transaction application.	branch of Tung Chung Stream, 3) the road		
S9.8.3	EC10	Preservation and/or Transplantation of plant species of conservation importance and the following monitoring of preserved/transplanted plant individuals	Protection of plant species of conservation importance	For public works, provided by the government departments responsible for the construction of those public works or the site formation works.	Within construction sites All areas for public works Also be required in private lands	before commencement of site formation.	Contractual requirements

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
				For TCV-1, where the lands within mostly belong to private lots, the future project proponents of those private lots, via the established mechanism for land transaction application.	in TCV-1.		
S9.8.3	EC11	Defining and maintaining construction site boundaries (including erection of site hoarding, fences etc.)	Screen construction disturbance to the nearby habitats	Contractor	Along the boundary of construction sites and buffer zones of Tung Chung Streams, along the boundary of mature woodland and Fung Shui Wood, and along the boundary between TCV-6 and the middle section of Fong Yuen	commencement of site formation	• EIA • Contractual requirements
S9.8.3	EC12	Protection of Tung Chung Stream	Minimize the potential water pollution due to	Contractor	Within construction	Construction	• EIA

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
			construction of road crossings or other works near Tung Chung Stream		sites	phase	Contractual requirements
S9.8.3	EC13	Implementation of standard site practices	Minimize the potential impact due to dust, noise and runoff during construction phase	Contractor	Within construction sites	Construction phase	• EIA • Contractual requirements
S9.8.4	EC14	Adopting Eco-shoreline design	To mitigate the impact of the marine loss	CEDD	Along future seawall	Construction stage	• EIA • Contractual requirements
S9.8.4	EC15	Strict enforcement on no-dumping	Minimise the potential impact to marine habitats	Contractor	In reclamation area as well as all works area and travel route of works vessels	Before and during construction phase	EIA Contractual requirements
S9.8.4	EC16	Spill response plan	Minimise the potential impact to marine habitats	Contractor	In reclamation area as well as all works area and travel route of works vessels	Before and during construction phase	EIA Contractual requirements
S.9.8.4	EC17	Control and minimization of marine traffic by including using larger-sized barges, land transportation of materials, reuse of excavation and C&D materials and speed limits &	Reduce marine traffic	Contractor	In reclamation area as well	Construction phase	• EIA • Contractual

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		regular routes of works vessels			as all works area and travel route of works vessels		requirements
S9.8.4	EC18	Dolphin exclusion zone and dolphin watching plan	Protection of CWD	Contractor	In reclamation area as well as all works area	Construction phase	EIA Contractual requirements
S9.8.4	EC19	Speed limits and regular routes of works vessels; Prepare and submit a "Works Vessel Travel Route Plan"	Protection of CWD	Contractor	In reclamation area as well as all works area	Construction phase	EIA Contractual requirements
S9.11.1	EC20	Monitoring of compensatory planting woodland	Monitor the survival of trees and establishment of the woodland	CEDD/ Contractor	Areas of compensator y woodland planting	Quarterly for 3 years after completion of planting works	• EIA • Contractual requirements
S9.11.1	EC21	Monitoring of translocated amphibians	Monitor the effectiveness of the translocation programme	Public works: Responsible government departments / Contractor Private lots: Private developers	Release sites for translocated amphibians	After translocation exercise. At least three surveys in each release site during the breeding season, preferably monthly between April and June,	 EIA Contractual requirements Explanatory statement of the OZP (for private lots)
S9.11.1	EC22	Monitoring of preserved / transplanted plant species	Monitor and evaluate	Public works:	Construction	After	• EIA

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
			the effectiveness of the preservation and transplantation programme.	Responsible government departments / Contractor Private lots: Private developers	sites for preserved plants; recipient sites for transplanted plants	transplantation or preservation. For transplanted individuals, for two years, monthly for the first year, and then quarterly for the second year. For the preserved individuals, monthly throughout the construction.	requirements
S9.11.1	EC23	Monitoring of Tung Chung Stream and Wong Lung Hang Stream EISs	Protect the EISs	Contractor	Tung Chung Stream and Wong Lung Hang Stream	Construction phase and post- construction phase	• EIA • Contractual requirements
9.11.2	EC24	Monitoring of Tung Chung Bay and Tai Ho Wan	Protect Tung Chung Bay and Tai Ho Wan	Contractor	Tung Chung Bay and Tai Ho Wan	nhase and nost-	• EIA • Contractual requirements
Ecology (Operationa	l Phase)					
S9.11.1	EC25	Monitoring of emergent plant inside River Park	Monitor the survival of emergent plant	DSD/ Contractor	Three months after completion of planting in future River Park	Quarterly for 2 years after completion of planting works	EIAContractual requirements

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures		Implementation Agent		Implementation Stage	Requirements and / or standards to be achieved
9.11.2	EC26	Eco-shoreline monitoring	Monitor the colonisation and establishment of fauna and/or flora, water quality, and recruitments of fisheries species	CEDD/ Contractor	Eco- shoreline at TCE PDA reclamation	nhase twice in	EIA Contractual requirements

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location	Implementation Stage	Requirements and / or standards to be achieved
Fisheries	1						
S10.8	F1	Good Site Practices	To protect the fisheries resources	Contractor	In reclamation area	Construction phase	EIAContractual requirements
S10.8	F2	No dumping	To protect the fisheries resources	Contractor	In reclamation area	Construction phase	EIAContractual requirements
S10.8	F3	Spill response plan	To protect the fisheries resources	Contractor	In reclamation area	Construction phase	EIAContractual requirements
S10.9	F4	Follow the mitigation measures proposed in the water quality assessment for the construction and operation phases of the project.	To protect the fisheries resources	Contractor	Waters in Northern Lantau	Construction phase and operation phase	EIAContractual requirements
S10.9	F5	Follow the mitigation measure of eco-shoreline in ecology chapter for the construction and operation phases of the project.	To enhance the fisheries resources	Contractor	Eco- shorelines	Construction phase and operation phase	EIAContractual requirements

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementati on Agent	Location	Implementation Stage	Requirements and / or standards to be achieved
Landscap	pe and Visua	el (Construction Phase)					
S11.7 MM1	LV1	Optimisation of Construction Areas & Providing Temporary Landscape on Temporary Construction – Construction areas' control shall be enforced, where possible, to ensure that the landscape and visual impacts arising from the construction activities are minimised. It includes reduction of the extent of working areas and temporary works areas, management on storing and using the construction equipment and materials, and consideration of detailed schedules to shorten the construction period. Temporary landscape treatments are considered to be adopted such as applying hydro-seeding on temporary stockpiles and reclamation areas to alleviate the potential impacts.	Minimise the landscape and visual impacts arising from the construction activities	Relevant Government Departments / Private Sector	Through-out Tung Chung West (TCW) area and Tung Chung East (TCE) area	Construction Phase	
S11.7 MM2	LV2	Minimize Topographical Change – The footprint of construction elements and temporary works areas should be optimised to reduce topographical/ landform changes, as well as reduce land take and interference with natural terrain. Where there is a need to significantly cut into the existing landform, retaining walls and cut slopes should be considered as appropriate. To minimize landform changes and land resumption, earthworks and engineered slopes should be designed to be a visually interesting, compatible with the surrounding landscape and to mimic the natural contouring and terrain as appropriate.	Reduce topographical changes and minimize land resumption	Relevant Government Departments / Private Sector	Through-out TCW area	Prior to Construction & Construction Phase	• GEO Publication No/1/2011, Technical Guidelines on Landscape Treatment for Slopes
S11.7 MM3	LV3	Preservation of Potentially Registerable OVTs, Rare and Protective Vegetation – Exiting trees to be retained within the Project Site should be carefully protected during construction. In particular Potentially Registerable OVTs are considered to be preserved according to ETWB	Protect and Preserve Trees	Relevant Government Departments / Private Sector	Onsite, particularly for TCW area	Prior to Construction & Construction Phase	• ETWB TC(W) No.29/2004 and DEVB TC(W)

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementati on Agent	Location	Implementation Stage	Requirements and / or standards to be achieved
		Technical Circular (Works) No. 29/2004. Rare and Protective Vegetation shall be protected following Forestry Regulations (Cap.96) and Protection of Endangered Species of Animals and Plants Ordinance (Cap.586). Detailed Tree Protection Specification shall be provided in the Contract Specification according to DEVB TCW No. 10/2013 Tree Preservation. Following DEVB (GLTM) Guidelines for Tree Preservation during Development, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas. A detailed tree survey will be carried out for the Tree Removal Application (TRA) process which will be carried out at the later detailed design stage of the Project. The detailed tree survey will propose which trees should be retained, transplanted or felled and will include details of tree protection measures for those trees to be retained.					No.10/2013. • Greening, Landscape and Tree Management Section (GLTM) of the Development Bureau, Guidelines on Tree Preservation during Development (April, 2015)
S11.7 MM4	LV4	Transplanting of Existing Trees – Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor locations within the site and not held in a temporary nursery as far as possible. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, where applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme. A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with DEVB TCW 10/2013 and LAO PN 7/2007 and final locations of transplanted trees should be agreed prior to commencement of the work. For trees associated with highways e.g. roadside planting	Transplant Trees where suitable for transplantation	Relevant Government Departments / Private Sector	Onsite where possible, otherwise consider offsite locations	Prior to Construction & Construction Phase	 DEVB TC(W) No.10/2013 and LAO PN7/2007 HyD HQ/GN/13 Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementati on Agent	Location	Implementation Stage	Requirements and / or standards to be achieved
		along highways, that are unavoidably affected and should be transplanted. HyD HQ/GN/13 'Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit' should be referred to.					Ambit GLTM of the Development Bureau, Guidelines on Tree Preservation during Development (April, 2015)
S11.7 MM5	LV5	Screen hoarding – To reduce negative visual impact, construction site hoarding should be erected around the site to screen pedestrian level views into the construction area from visual sensitive receivers. Hoarding design should consider greening measures such as colour and form should be adopted to improve its visual appearance.	To screen undesirable views of the work site.	Relevant Government Departments / Private Sector	Through-out TCW and TCE areas	Construction Phase	
S11.7 MM6	LV6	Adopting Non-dredge Method for the Reclamation — In order to minimize the potential adverse impacts caused by the reclamation, a number of alternative construction methodologies has been critically examined. After considering all the options such as fully dredged, partially dredged and non-dredged methods for seawall construction and reclamation, non-dredged method for both the seawall construction and reclamation are recommended so as to minimize the generation of dredged sediment.	Minimize the potential adverse impacts caused by the reclamation	Relevant Government Departments / Private Sector	Through-out TCE area	Construction Phase	• Foreshore and Sea-bed (Reclamations) Ordinance (Cap.127)
S11.7 MM7	LV7	Protection of Natural Rivers and Streams – For all the natural rivers and streams inside the development area, in accordance with ETWB TCW 5/2005, consideration of protection measures should be made to minimize any impacts from the construction works, especially those	Protection of Natural Rivers and Streams Minimize the impacts from the construction works	Relevant Government Departments / Private Sector	Through-out TCW area	Prior to Construction & Construction Phase	 EPD ProPECC PN1/94 Construction Site Drainage. DSD Technical

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementati on Agent	Location	Implementation Stage	Requirements and / or standards to be achieved
		development near Tung Chung Stream. According to the latest RODP, a 30m buffer zone will be zoned as "CA". Precast structures or other similar approaches will be used to prevent / minimise any construction works in river and thus to avoid any direct water quality impact. Good site management as stipulated in ProPECC PN1/94 will be fully implemented to avoid polluted liquid or solid wastes from falling into the river waters.					Circular No. 2/2004. • ETWB TC(W) No.5/2005 Protection of natural streams/rivers from adverse impacts arising from construction works
S11.7 MM8	LV8	Preservation of Natural Coastline – The natural coastline along the proposed "RO" of the RODP in TCW should be preserved. The remaining natural shorelines in Tung Chung Bay including sandy shores close to the Tung Chung old pier will be conserved as a Waterfront Park according to the latest RODP.	Preservation of Natural Coastline	Relevant Government Departments	Onsite where possible	Prior to Construction & Construction Phase	
S11.7 MM9	LV9	Providing Natural Rock Material/ Planting for Artificial Seawall – There would be inevitable permanent losses of marine waters (seabed and water column), and direct impacts on existing artificial seawalls due to the reclamation. To minimize the impacts, the design of the future seawall like 'eco-shoreline' could be improved to provide high ecological functions and mitigate the impact of the loss. An 'eco-shoreline' is any shoreline which provides beneficial functions to the local ecosystem through a range of active or passive solutions, whilst providing coastal protection. By means of using natural rock materials for artificial seawall and considering to introduce a native vegetation buffer directly behind the top of seawalls as appropriate to create habitat, shelter and a source of food	Mitigate the impacts on existing artificial seawalls	Relevant Government Departments	Onsite where possible	Prior to Construction & Construction Phase	

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementati on Agent	Location	Implementation Stage	Requirements and / or standards to be achieved
		for benefiting both terrestrial and aquatic species along the foreshore, these measures can help to enhance the ecological functions and 'natural-look' of the shoreline, and the potential impacts will be mitigated.					
Landscap	e and Visua	el (Operational Phase)					
S11.7 MM10	LV10	Compensatory Planting – Compensatory planting for felled trees shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Removal Application process under DEVB TCW No. 10/2013 and LAO PN 7/2007. The location of compensatory planting is proposed at the potential open areas such as open spaces, amenity areas, open areas of the streetscapes including roadside planting, as well as the open areas within development lots. The species to be planted should be all native species,	Compensate for trees and shrubs lost due to the Project	Relevant Government Departments / Private Sector	Onsite where possible, particular-ly for TCW area	Prior to Construction, Construction Phase & Maintenance in Operation Phase	 DEVB TC(W) No.10/2013 and LAO PN 7/2007. GLTM of the Development Bureau, Guidelines on Tree Preservation during Development (April, 2015)
		taken "Characteristics of Major Local Tree Species Propagated by AFCD" as a reference. A search of species to be planted will be conducted in a further detailed stage.					(April, 2013)
S11.7 MM11	LV11	Woodland Restoration – A search of area to mitigate the loss of woodland has been conducted. Priority has been given to the practicability of compensation of woodland within the boundary of RODP. Given the nature of the project is to provide development opportunities to satisfy the needs for the society in general and the aspirations of local communities, compensation of woodland is only possible for the areas beyond the RODP. It is considered that the areas adjoining the woodlands near the existing services reservoirs, and hillsides to the east of Tung Chung Road, would be suitable locations. The advantage of these locations is that there are existing woodlands immediately	Reprovide areas of woodland to compensate for those areas of quality woodland lost	CEDD/AFCD	In areas identified and as agreed with AFCD	Prior to Construction, Construction Phase & Maintenance in Operation Phase	 DEVB Technical Circular Works 10/2013- Tree Preservation GLTM of the Development Bureau, Guidelines on Tree Preservation

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementati on Agent	Location	Implementation Stage	Requirements and / or standards to be achieved
		downhill to the location and the Sheung Ling Pei Fung Shui Wood is further downhill behind Sheung Ling Pei Village, planting new woodland areas adjoining existing woodlands would form an ecological linkage and increase the overall habitat size, and hence would help to enhance the ecological and landscape values in the long run.					during Development (April, 2015)
		It is noted that the compensation trees for landscape impacts will also be planted near the future service reservoirs. The tree species to be planted should be all native species for woodland compensation, and the two areas uphill to Sheung Ling Pei should also make reference to the existing tree species reported in Fung Shui Woods habitat.					
S11.7 MM12	LV12	Screen Planting – Tall screen/buffer trees and shrubs should be planted to screen proposed structures such as roads and buildings. This measure will form part of the compensatory planting and will improve compatibility with the surrounding environment and create a pleasant pedestrian environment.	To screen proposed structures Improve compatibility with the surrounding environment	Relevant Government Departments	Through-out the working sites of the TCW and TCE areas	Prior to Construction, Construction Phase & Maintenance in Operation Phase	• HyD HQ/GN/15— Guidelines for Greening Works along Highways.
S11.7 MM13	LV13	Roadside Planting – Roadside greening is proposed alongside all roads within the possible developments. It will enhance local identity, if theme planting is used, and reduce visual impact through screening. At-grade road planting should be considered along central dividers and on road islands e.g. in the middle of roundabouts.	Soften the hard, straight edges and provide greening along the roads; Improve the visual amenity	Relevant Government Departments	Along new roads, and On appropriate viaducts	Prior to Construction, Construction Phase & Maintenance in Operation Phase	 HyD HQ/GN/15- Guidelines for Greening Works along Highways. Development Bureau Technical Circular Works No.2/2012 - Allocation of Space for Quality

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementati on Agent	Location	Implementation Stage	Requirements and / or standards to be achieved
							Greening on Roads

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementati on Agent	Location	Implementation Stage	Requirements and / or standards to be achieved
S11.7 MM14	LV14	Aesthetic Design of Built Development – The planning of the revised RODP has considered reducing potential visual impacts, enhancing visual amenity and keeping visual corridors. The proposed development will ensure the building massing is compatible with its surroundings. To improve visual amenity, natural building materials could be used on building facades. For example, stone and timber should be considered for architectural features; light earthy tone colours such as shades of green, shades of grey, shades of brown and off-white should be considered for the façade treatment to reduce the visibility of the development components. The form, textures, finishes and colours of the proposed development components should aim to be compatible with the existing surroundings. It would only be implemented for public developments/projects.	Improve visual amenity of the new buildings, keep visual corridors and integrate as possible into the surrounding landscape	Relevant Government Departments	Through-out the TCW and TCE areas	Prior to Construction, Maintenance in Operation Phase	 Hong Kong Planning Standards and Guidelines (HKPSG) issued by the Planning Department (As at Aug 2011); PNAP APP-152, Sustainable Building Design Guidelines
S11.7 MM15	LV15	Maximise Greening on Structures – The Government has been actively promoting greening in buildings and structures such as bridges to improve the environment. This includes actively implementing rooftop greening or vertical greening, as where practicable to enhance the cityscape and mitigate the heat island effect in urban areas. For the new built forms in TCW and TCE, it is considered the implementation of the following greening measures could alleviate the landscape and visual impacts of new development and help the development blend in with its surrounding landscape: • Sky Garden: Refuge floors or voids in building mass formed by partial removal of floor plates on certain building storeys or provision of freed up areas on certain building storeys provide opportunities for sky	Maximise Greening coverage Enhance visual amenity, create visual corridors and integrate as possible into the surrounding landscape	Relevant Government Departments	On appropriate buildings and structures	Prior to Construction, Construction Phase & Maintenance in Operation Phase	Development Bureau Technical Circular (Works) No. 3/2012 Site Coverage of Greenery for Government Building Projects PNAP APP- 152, Sustainable Building
		gardens for the proposed built development. It can allow views through the development to the background formed by the natural hillsides and					Design Guidelines

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementati on Agent	Location	Implementation Stage	Requirements and / or standards to be achieved
		enhance the visual amenity effectively. For public developments, relevant technical document Technical Circular (Works) No. 3/2012 Site Coverage of Greenery for Government Building Projects by Development Bureau in 2011 shall be referred to. For private developments, it is only applicable to sites with inadequate greening coverage and should be implemented in accordance with Sustainable Building Design Guidelines PNAP APP-152.					
		• Green Roof: The Architectural Services Department completed the Study on Green Roof Application in Hong Kong in 2007 which reviewed the latest concepts and design technology of green roof and recommended technical guidelines suitable for application in Hong Kong. The study will be taken into account to the new buildings to be built in TCW and TCE. Landscape and visual impact can be alleviated and the landscape and visual value can be enhanced. For private development, it is only applicable to sites with inadequate greening coverage and should be implemented in accordance with Sustainable Building Design Guidelines PNAP APP-152. Relevant technical document Technical Circular (Works) No. 3/2012 Site Coverage of Greenery for Government Building Projects by Development Bureau in 2011 shall be reference. For public developments, relevant technical document Technical Circular (Works) No. 3/2012 Site Coverage of Greenery for Government Building Projects by Development Bureau in 2011 shall be referred to. For private developments, it is only applicable to sites with inadequate greening coverage and should be implemented in accordance with Sustainable Building Design Guidelines PNAP APP-152.					
		Vertical Green: Planting of climbers to grow up					

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementati on Agent	Location	Implementation Stage	Requirements and / or standards to be achieved
		vertical surfaces where appropriate (e.g. building edges), to soften hard structures and facilities. Relevant technical document Technical Circular (Works) No. 3/2012 Site Coverage of Greenery for Government Building Projects by Development Bureau in 2011 shall be observed. For public developments, relevant technical document Technical Circular (Works) No. 3/2012 Site Coverage of Greenery for Government Building Projects by Development Bureau in 2011 shall be reference. For private development, it is only applicable to sites with inadequate greening coverage and should be implemented in accordance with Sustainable Building Design Guidelines PNAP APP-152. • Greening on infrastructure: Planting could be provided on infrastructure such as bridges where appropriate to enhance greenery to soften its built edges. Screen planting could be provided near infrastructure to reduce any undesirable visual impacts.					
S11.7 MM16	LV16	Noise barrier design — The visual impact of noise mitigation measures will be mitigated by appropriate detailed design, including suitable combination of transparent and sound absorbent materials, appropriate colour selection of panels and supporting structures, or provision of at-grade planting of trees, shrubs and/or climbers camouflage to the barriers, as well as design of supporting structures to incorporate a high level of quality and aesthetics. A combination of transparent panels at top and solid panels at bottom would lighten the visual impact, and at the same time maintain the attractiveness by using colourful panels. The noise barriers would be implemented for District Distributor Roads and Local Distributor Roads at both TCE and TCW area.	Minimize the visual impact from the structures of noise barriers	HyD	Noise barriers within the TCW and TCE areas	Prior to Construction, Construction Phase & Maintenance in Operation Phase	 GLTM of the Development Bureau's Guidelines on Greening of Noise Barriers (April 2012). Guidelines on Design of Noise Barriers by HyD and EPD in 2003

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementati on Agent	Location	Implementation Stage	Requirements and / or standards to be achieved
S11.7 MM17	LV17	Landscape Treatment for Polders & Attenuation Ponds – There would be polders and attenuation ponds in TCW. While they are primarily used for receiving and treating surface runoff and alleviating the flood risk during heavy rainfall, the design of those has provided an opportunity to have a synergy to enhance both the ecological and landscape values together. Depending on detailed design, part of these attenuation	Enhance the landscape and visual value	DSD	Polders & Attenuation Ponds where possible	Prior to Construction, Construction Phase & Maintenance in Operation Phase	
		ponds (mainly the biofiltration zone) could be refined in an appropriate manner, without compromising its primary functions of treating surface runoff and flood protection, to incorporate ecological and landscape design such as planting of aquatic plants and butterfly foodplant for providing the landscape and ecological enhancement.					
Landscape	e and Visua	l (Construction & Operational Phase)					
S11.7 MM18	LV18	Landscaping on Slopes – Hydro seeding of modified slopes should be done as soon as grading works are completed to prevent erosion and subsequent loss of landscape resources and character. Woodland tree seedlings and/ or shrubs should be planted where gradient and site conditions allow. In addition, landscape planting should be provided for the retaining structures associated with modified slopes where condition allow.	Enhance landscape value, plant diversity and their visual appearance	CEDD	Onsite, particularly in TCW area	Prior to Construction, Construction Phase & Maintenance in Operation Phase	• GEO Publication No.1/2011 Technical Guidelines on Landscape Treatment for Slopes by CEDD in 2011
S11.7 MM19	LV19	Landscape Treatment on Channelized Watercourses – For the channelized watercourses in Tung Chung Stream that will be dechannelized, the Drainage Services Department Practice Note No.1/2005 – Guidelines on Environmental Considerations for River Channel Design, should be considered and appropriate measures included ensuring the new watercourses match the existing as far as possible.	Avoid direct impacts on the watercourse Improve the visual amenity	CEDD	The channelized watercourses throughout the TCW area	Prior to Construction, Construction Phase & Maintenance in Operation Phase	• Drainage Services Department Practice Note No.1/2005 — Guidelines on Environmental

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementati on Agent	Location	Implementation Stage	Requirements and / or standards to be achieved
		Measures can include enhancement planting to upgrade the channels as appropriate, including consideration of wetland planting along embankments where appropriate; as well as consideration of the best materials for the channel lining (e.g. gabion).					Considerations for River Channel Design
S11.7 MM20	LV20	Light Control – Construction day and night time lighting should be controlled to minimize glare impact to adjacent VSRs during the construction stage. Street and night time lighting shall also be controlled to minimize glare impact to adjacent VSRs during the operation phase.	Minimize negative glare impact to adjacent VSRs	Relevant Government Departments / Private Sector	Through-out the TCW and TCE areas	Construction Phase & Operation Phase	

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
Cultural 1	Heritage Im	pact (Construction and Operational Phase)					
S.12.5	СН1	Terrestrial Archaeology • Implement rescue excavations/ survey-cum-rescue excavations/ further surveys after land resumption and prior to any construction works (see Figure 14.1 for the locations of rescue excavations/survey-cum-rescue excavations/further survey)	Rescue excavations to salvage archaeological data and cultural materials Survey-cum-rescue excavations to better locate and design the follow up rescue excavations Further surveys to obtain sufficient data for formulation of appropriate mitigation measures	Future Private Developer	After land resumption and prior to any construction works	resumption and prior to any construction works	Guidelines for Cultural Heritage Impact Assessment TM-EIAO Annex 10 and Annex 19 Antiquities and Monuments Ordinance
S.12.5	CH2	Terrestrial Archaeology Implement watching brief during construction phase (see Figure 14.1 for the locations of watching brief)	To identify and record any archaeological material or features revealed during construction phase	Future Private	During construction phase	During construction phase	

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
EM&A P	roject						
S13.2	EM1	An Independent Environmental Checker needs to be employed as per the EM&A Manual.	Control EM&A Performance	Project Proponent	All constructi on sites	Construction stage	EIAO Guidance Note No.4/2010TM-EIAO
S13.2 – 13.4	EM2	 An Environmental Team needs to be employed as per the EM&A Manual. Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures. An environmental impact monitoring needs to be implementing by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with. 	Perform environmental monitoring & auditing	Project Proponent	All constructi on sites	Construction stage	• EIAO Guidance Note No.4/2010 • TM-EIAO

ET's note: Pages B-53 and B-54 are not relevant to the Project works in Tung Chung West and therefore not presented.

EIA EM&A Log Ref Recommended Mitigation Measures		I	Requirements and / or standards to be achieved
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Post-planting Monitoring and Maintenance (Details to be provided after the submission of Detailed Compensatory Woodland Planting Plan as required under EP Condition 2.22)

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
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Use of New Low Noise Road Surfacing Material(s) (Details to be provided after the submission of Plan for Review of Use of New Low Noise Road Surfacing Material(s) as required under EP Condition 2.23)

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
	Follow-up actions to be taken by the Contractor and Dump Truck Drivers in case of Illegal Dumping and Landfilling of C&D Materials (Extracted from Waste Management Plan submitted under Condition 2.24 of the EP)						
S5.4	WM1	Investigation report will be prepared by the Contractor and submit to ER within 2 working days.	Control EM&A Performance	Contractor	All constructi on sites		• EP • Contractual requirements
S5.4	WM2	The Contractor will discuss with ER for the follow up actions (e.g. warning letter, cease operation, etc.) if required.	Control EM&A Performance	Contractor	All constructi on sites		• EP • Contractual requirements

D. Status of Submissions and Implementation Status of Mitigation Measures under EP

Appendix D: Status of Submissions and Implementation Status of Mitigation Measures under EP

EP Condition	Submission / Implementation Status	Status
2.1	Set up of Community and Professional Liaison Groups	Community and Professional Liaison Groups were set up
2.1	Complaint Management Plan (for Contracts 5 and 6)	Accepted by EPD
2.5	Employment of Qualified Ecologist(s)	Qualified Ecologists have been employed to carry out work relating to ecological aspects
2.6	Employment of Surveillance Team	Surveillance Team has been employed to conduct regular site inspection
2.11	Management Organisations (for Contracts 5 and 6)	Accepted by EPD
2.12	Construction Works Schedule and Location Plans (for Contracts 5 and 6)	Revised submission submitted to EPD on 15 Sep 2025
2.18	Plan on Provision of Buffer Zones	Accepted by EPD
2.19	River Park Plan	Accepted by EPD
2.20	Habitat Enhancement and Translocation Plan for Amphibian Species of Conservation Importance	Accepted by EPD
2.21	Detailed Preservation and/or Translocation Plan for Plant Species of Conservation Importance	Accepted by EPD
2.22	Detailed Compensatory Woodland Planting Plan	Accepted by EPD with conditions
2.23	Plan for Review of Use of New Low Noise Road Surfacing Material(s)	Accepted by EPD
2.24	Waste Management Plan (for Contracts 5 and 6)	Accepted by EPD
2.31	Implement Plan on Provision of Buffer Zones, River Park Plan, Habitat Enhancement and Translocation Plan for Amphibian Species of Conservation Importance, Detailed Preservation and/or Translocation Plan for Plant Species of Conservation Importance and Detailed Compensatory Woodland Planting Plan	Plan on Provision of Buffer Zones, Habitat Enhancement and Translocation Plan for Amphibian Species of Conservation Importance, Detailed Preservation and/or Translocation Plan for Plant Species of Conservation Importance and Detailed Compensatory Woodland Planting Plan are under implementation. Others are to be implemented.
2.32	Implement Plan for Review of Use of New Low Noise Road Surfacing Material(s)	To be implemented
2.32	Implement Waste Management Plan	Under implementation
2.33	Install noise barriers and low noise road surfacing at the extended Chung Mun Road and Road D3. All noise mitigation measures implemented shall be properly maintained during the operation of the above roads.	To be implemented
2.34	Implement a deodouriser with an odour removal efficiency of at least 95% shall be installed, operated and maintained within each sewage pumping station. The exhaust of the deodouriser shall be oriented away from sensitive receivers; and all odourous facilities of each sewage pumping station shall be enclosed and negative pressure shall be maintained within the facilities.	To be implemented
	pressure shall be maintained within the facilities.	

EP Condition	Submission / Implementation Status	Status
2.36	(i) a 100% standby pumping capacity shall be installed and maintained;	To be implemented
	(ii) a 50% spare pumping capacity shall be installed and maintained;	To be implemented
	(iii) dual-feed power supply shall be installed and maintained; and	To be implemented
	(iv) an emergency facility with a 6-hour storage capacity of average dry weather flow shall be installed and maintained.	To be implemented

E. Status of Statutory Environmental Requirements

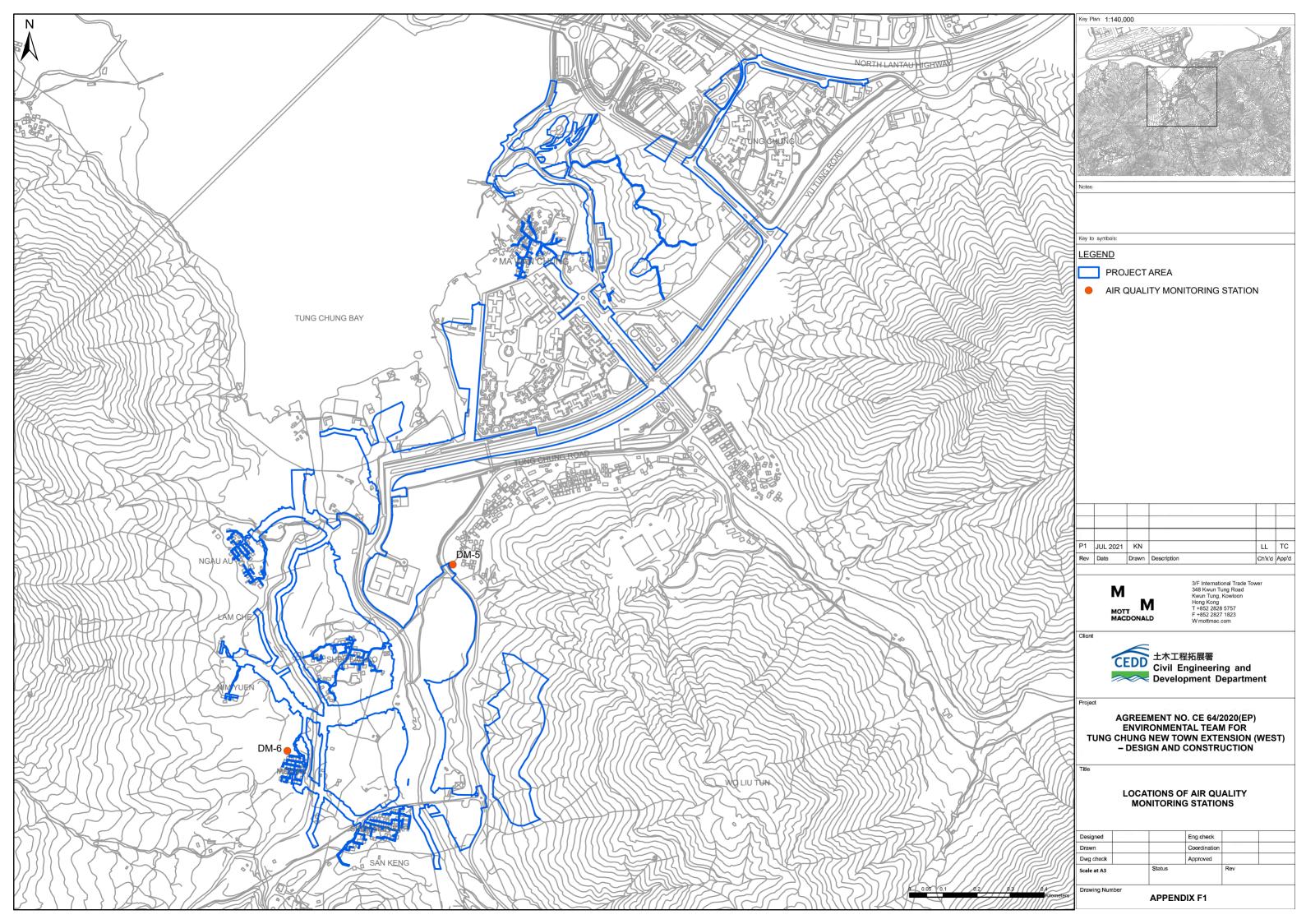
Appendix E: Status of Statutory Environmental Requirements

Contract No.	Description	Location	Ref. No.	Status
General	Environmental Permit	TCW Works Areas	EP-519/2016	Issued on 9 Aug 2016
NL/2020/05 ("Contract 5")	Billing Account for Disposal of Construction Waste	Contract 5 works areas	Account No. 7040874	Issued on 25 Jun 2021
	Registration as Chemical Waste Producer	Contract 5 works areas	WPN 5213-950-B2634-01	Issued on 13 Jul 2021
	Discharge Licence under Water Pollution Control Ordinance	Area Part E Ma Wan Chung Nullah	WT00040844-2022	Valid from 27 May 2022 to 31 May 2027
		Area Part H	WT00041263-2022	Valid from 22 Aug 2022 to 31 Aug 2027
		Area Part E (E1)	WT00041489-2022	Valid from 8 Sep 2022 to 30 Sep 2027
		Area Part G	WT00043146-2023	Valid from 6 Mar 2023 to 31 Mar 2028
		Area Part F	WT00043587-2023	Valid from 11 May 2023 to 31 May 2028
	Construction Noise Permit	-	-	-
NL/2020/06 ("Contract 6")	Billing Account for Disposal of Construction Waste	Contract 6 works areas	Account No. 7040815	Issued on 17 Jun 2021
	Registration as Chemical Waste Producer	Contract 6 works areas	WPN 5213-950-C4603-01	Issued on 13 Jul 2021
	Discharge Licence under Water Pollution Control Ordinance	Sewage Pumping Station-A	WT00039653-2021	Valid from 17 Jan 2022 to 31 Jan 2027
		Portion of Tung Chung River, Road L29, Road L30, Bridge A, River Park, Sewage Pumping Station (TCV East) and Bridge B	WT00040875-2022	Valid from 15 Jul 2022 to 31 Jul 2027
		Cheung Tung Road, Fu Tung Street, Yu Tung Road, Chung Mun Road, Bridge A and Temp Bridge A	WT00040895-2022	Valid from 17 Jun 2022 to 30 Jun 2027
		Visitor Centre	WT00042252-2022	Valid from 7 Nov 2022 to 30 Nov 2027
		Area 46	WT00042495-2022	Valid from 2 Dec 2022 to 31 Dec 2027
		Road L29 and Shek Mun Kap Road	WT00043245-2023	Valid from 12 May 2023 to 31 May 2028
	Construction Noise Permit	Yu Tung Road	GW-RS0662-25	Valid from 9 Jul 2025 to 8 Jan 2026
		Sewage Pumping	GW-RS0214-25	Valid from 3 Mar 2025 to 2 Sep 2025
		Station-A	GW-RS0878-25	Valid from 3 Sep 2025 to 2 Mar 2026
		Sewage Pumping Station-B and SATP A05	GW-RS0565-25	Valid from 8 Jun 2025 to 7 Dec 2025 (Superseded by GW-RS0980-25)
		Station-D and OATT A03	GW-RS0980-25	Valid from 18 Sep 2025 to 14 Mar 2026
		Shek Mun Kap Road	GW-RS0572-25	Valid from 6 Jun 2025 to 5 Dec 2025

F. Air Quality

- F1. Locations of Air Quality Monitoring Stations
- F2. Air Quality Monitoring Equipment Calibration Certificates
- F3. Air Quality Monitoring Schedule
- F4. Air Quality Monitoring Results
- F5. Air Quality Monitoring Event and Action Plan

F1. Locations of Air Quality Monitoring Stations



F2. Air Quality Monitoring Equipment Calibration Certificates

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



SUB-CONTRACTING REPORT

HK2502558 WORK ORDER CONTACT : MR MAGNUM FAN

CLIENT : ENVIROTECH SERVICES CO.

ADDRESS : RM 712, 7/F, MY LOFT 9 HOI WING ROAD, SUB-BATCH : 1

> DATE RECEIVED : 15-JAN-2025 TUEN MUN, N.T. HK DATE OF ISSUE : 21-JAN-2025

PROJECT NO. OF SAMPLES: 1

CLIENT ORDER

General Comments

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

- Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the
- Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition.
- Calibration was subcontracted to Envirotech Services Company.

Signatories

This document has been signed by those names that appear on this report and are the authorised signatories

Signatories Position

Richard Fung

Managing Director

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

All pages of this report have been checked and approved for release.

: HK2502558 WORK ORDER

SUB-BATCH

: 1 : ENVIROTECH SERVICES CO. CLIENT

PROJECT



ALS Lab	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2502558-001	Sibata LD-3B (456666)	Equipments	02-Jan-2025	S/N: 456666

----- END OF REPORT -----



Envirotech Services Co.

Rm. 712, 7/F My Loft, 9 Hoi Wing Roed, Tuen Mun, H.K. Tel: 2560 8450 Fax: 2560 6553

E-mail; envirotech@netvigator.com

Equipment Verification Report (TSP)

Equipment Calibrated:

Type:

Laser Dust Monitor

Manufacturer:

Sibata LD-3B

Serial No.:

456666

Equipment Ref.:

N/A

ALS Job Order:

HK2500343

Standard Equipment

Standard Equipment:

High Volume Sampler (TSP)

Location:

Envirotech Room (Calibration Room)

Equipment Ref.:

HVS 8162

Last Calibration Date:

1-Jan-2025

Equipment Verification Results:

Verification Date:

2-Jan-2025

Hour	Time	Mean Temp °C	Mean Pressure (hpa)	TSP Level in mg (Standard Equipment) (Y-Axis)	Total Count (Calibrated Equipment) (X-Axis)
1hr 00mins	0900-1000	16.1	1023	0.096	pieso la collata 76 volutemi qui le 8
2hr 00mins	1005-1205	20.5	1022	0.147	160 0000 1000000
3hr 00mins	1330-1630	21.0	1022	0.268	248

Linear Regression of Y or X

Slope (K-factor):

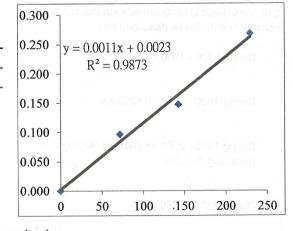
0.0011(mg)/Count

Correlation Coefficient (R):

0.9936

Date of Issue:

15-Jan-2025



Remarks:

- 1. Strong Correlation (>0.8)
- 2. Factor 0.0011 mg/Count should be applied for TSP monitoring

Operator:

P.F.Yeung

Signature

Val

Date: 15 Jan 2025

QC Reviewer:

K.F.Ho

Signature

at the

Date: 15 Jan 2025

^{*}If R<0.5, repair or verification is required for the equipment

TSP SAMPLER CALIBRATION CACULATION SPREADSHEET

Location HVS ID:	01.60		oft, Tuen M	un			Date of Calil		1-Jan-25
Name and		TICCII	IDIC Mada	1 TO F	170		Next Calibra	tion Date:	31-Mar-25
ivame and	i Model:	112CH	HVS Mode			2710	Operator:		K.F.Ho
ann e Metorthologia de l'A nton				CON	DITIC	DIN2		ganetinet/fishem	
	Sea Level Pressure (hpa) Temperature (°C)					ione in	Corrected Pro Temperature	essure (mm Hg) (K)	767.3 288.8
	Province and the second second			CALI	BRA'	TION (ORIFICE	s to xavelen this nam	
			Make: Model: Serial#:	TE-50	SCH)25A 2454		Qstd Slope Qstd Intercep	ot [2.08315 -0.04938
. Sen I			Station 2	CALI	BRA'	TION	Los arossor		
Plate	H2O(L)	H20(R)	H2O	Qst	td	I	IC	the his monitori	INEAR
No.	(in)	(in)	(in)	(m3/r	1	(chart)	(corrected)	BEELD VELLEBOAY I BUT	REGRESSION
18	6.4	6.4	12.8	1.77	77	62	63.30	Slope= 3	
13	5.3	5.3	10.6	1.63	19	56	57.17	Intercept= -	
10	4.2	4.2	8.4	1.44	14	48	49.00	Corr. Coeff.= 0	.9959
7	2.7	2.7	5.4	1.16	53	41	41.86		
5	1.7	1.7	3.4	0.92	27	32	32.67	era Dan (masos jur 1.,	(Seed) paul to la
Calulations						. 03	<u>has snakkae</u> on braining fo	<mark>l instrumento le cesto d</mark> Secondal Audio mares	t iga manakanang ti Salah manakanan histori
		7° (D°4°4)/(P-4-1/7P-1\ 1-1		IC 70			Flow Rate	
	[Sqrt(H2O(F (Pa/Pstd)(Ts		1 Sta/ 1 a))-b]			E	orem enger son: of alastog prehess	nose messonemen - same idantifica mas	
ic – Ilodiu	(1 a/1 stu)(1 s	u/1a)]			65	-			yali Swieyasatap
Ostd = stan	dard flow ra	ite			60	Ē		land made	
	ted chart res				55	-		4 months 3511 3	SELECTION AND DESCRIPTION
	hart respons	_				E			1091 - 0071 oni
	ator Qstd slo				50	=	bos anothered (bolomiest & italia	geneticum quit
= calibra	tor Qstd inte	ercept			45	- mril	tog optista ga		d lood in to be
Ta = actual	temperature	during c	alibration (d	eg K)	40	=	onalyotha Theig	<u> </u>	eh iv day resing i iv iv designation
Pa = actual pressure during calibration (mm Hg)					35	7.31		Miles in pancinom a	SP) including the
					30	-		Anad Station Apple 175	en Busino stuestus
For subsequent calculation of sampler flow: /m((I)[Sqrt(298/Tav)(Pav/760)]-b)						-		•	rina 1900 - 2200
ı/m((1)[Sqri	t(298/Tav)(F	'av//60)]	-b)	18	25		Hocapons and	uelangiaeb is noteta	principada quil
n = sampl	er slope				20	10	<u>POLYEDAD FORS</u> POÚS PROJPUD S	ika ficilisis panalinad dust nocialogistisch	Laég eoro tsubni tasgmi dirik bok
	er intercept				15	<u> </u>	* (927)	epended Semendore	A lost west to
= chart re					10	E	gramita a situte	enco revo faraso sel e edeb è bondo a lot	witos noitomen
						07.00	2 00 10 11	12 12 14 15	1 (17 10

Tav = daily average temperature

Pav = daily average pressure

0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9

Qstd(m3/min)



RECALIBRATION DUE DATE:

December 2, 2025

Certificate of Calibration

Calibration Certification Information

Cal. Date:

December 2, 2024

Rootsmeter S/N: 438320

Ta: 293

°K

Operator: Jim Tisch

Pa: 757.4

mm Hg

Calibration Model #:

TE-5025A

Calibrator S/N: 2454

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4200	3.2	2.00
2	3	4	1	1.0170	6.4	4.00
3	5	6	1	0.9090	7.9	5.00
4	7	8	1	0.8700	8.8	5.50
5	9	10	1	0.7140	12.8	8.00

		Data Tabula	tion		
Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$		Qa	√∆H(Ta/Pa)
(m3)	(x-axis)	(y-axis)	Va	(x-axis)	(y-axis)
1.0093	0.7108	1.4238	0.9958	0.7013	0.8796
1.0051	0.9883	2.0136	0.9916	0.9750	
1.0031	1.1035	2.2512	0.9896	1.0886	1.3907
1.0018	1.1515	2.3611	0.9884	1.1361	1.4586
0.9965	1.3956	2.8476	0.9831	1.3769	
	m=	2.08315		m=	1.30443
QSTD	b=	-0.04938	QA	b=	-0.03050
2310	r=	0.99985		r=	0.99985

	Calculation	S	
Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)		ΔVol((Pa-ΔP)/Pa)
	Vstd/ΔTime	Qa=	Va/ΔTime
	For subsequent flow rat	e calculatio	ns:
Qstd=	$1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$	Qa=	$1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)-b\right)$

	Standard Conditions
Tstd:	298.15 °K
Pstd:	760 mm Hg
	Key
ΔH: calibrato	r manometer reading (in H2O)
ΔP: rootsmet	er manometer reading (mm Hg)
	solute temperature (°K)
Pa: actual ba	rometric pressure (mm Hg)
b: intercept	
m: slope	

RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002 www.tisch-env.com

TOLL FREE: (877)263-7610 FAX: (513)467-9009

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



SUB-CONTRACTING REPORT

CONTACT

: MR MAGNUM FAN

TUEN MUN, N.T. HK

WORK ORDER

HK2444148

CLIENT

: ENVIROTECH SERVICES CO.

ADDRESS

: RM 712, 7/F, MY LOFT 9 HOI WING ROAD,

SUB-BATCH : 1

DATE RECEIVED : 23-OCT-2024

NO. OF SAMPLES : 1

DATE OF ISSUE : 29-OCT-2024

CLIENT ORDER

PROJECT

General Comments

Sample Information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

- Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.
- Calibration was subcontracted to Envirotech Services Company.
- Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition.

Signatories

This document has been signed by those names that appear on this report and are the authorised signatories

Signatories

Position

Richard Fung

Managing Director

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

All pages of this report have been checked and approved for release.

ALS Technichem (HK) Pty Ltd Part of the ALS Laboratory Group WORK ORDER

CLIENT PROJECT : HK2444148

SUB-BATCH

: 1 : ENVIROTECH SERVICES CO.



ALS Lab	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.	
HK2444148-001	Sibata LD-5R (781281)	Equipments	19-Oct-2024	S/N: 781281	

----- END OF REPORT -----



Envirotech Services Co.

Rm. 712, 7/F

Equipment Verification Report (TSP)

Equipment	Calibrated:
-----------	-------------

Type:

Laser Dust Monitor

Manufacturer:

Sibata LD-5R

Serial No.:

781281

Equipment Ref.:

N/A

ALS Job Order:

HK2443150

Standard Equipment

Standard Equipment:

High Volume Sampler (TSP)

Location:

Envirotech Room (Calibration Room)

Equipment Ref .:

HVS 8162

Last Calibration Date:

19-Oct-2024

Equipment Verification Results:

Verification Date:

19-Oct-2024

Hour	Time	Mean Temp°C	Mean Pressure (hpa)	Concentration in µg/m³ (Standard Equipment) (Y-Axis)	Concentration in µg/m ² (Calibrated Equipment) (X Axis)
1hr 00mins	0905-1005	27.6	1015	96	91
2hr 00mins	1015-1215	29.2	1014	101	99
3hr 00mins	1410-1710	29.8	1014	137	129

Linear Regression of Y or X

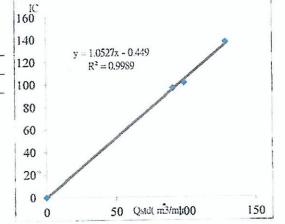
Slope (K-factor):

 $1.0527(\mu g/m^3)/CPM$

Correlation Coefficient (R):

Date of Issue:

0.9995 23-Oct-2024



Remarks:

1. Strong Correlation (>0.8)

Factor 1.0527(ug/m³)/CPM should be applied for TSP monitoring

Operator:

Signature P.F.Yeung

Date: 23 Oct 2024

QC Reviewer:

K.F.Ho

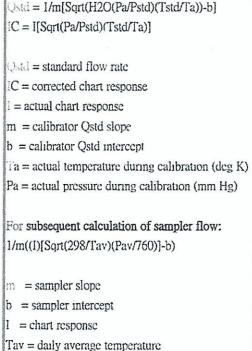
Signature

Date: 23 Oct 2024

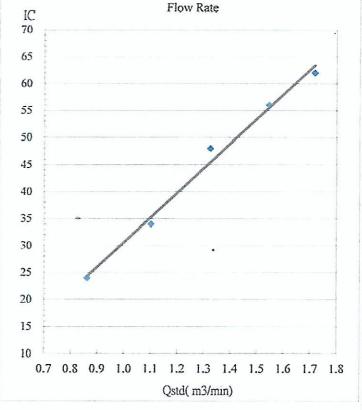
^{*}If R<0.5, repair or verification is required for the equipment

TSP SAMPLER CALIBRATION CACULATION SPREADSHEET

Location: Rm. 712, My Loft, Tuen Mun Date of Calibration: 19-Oct-24 HVS ID: 8162 Next Calibration Date: 19-Dec-24 Name and Model: TISCH HVS Model TE-5170 Operator: K.F.Ho CONDITIONS Sea Level Pressure (hpa) 1015 Corrected Pressure (mm Hg) 761.3 26.0 Temperature (K) 299 Temperature (°C) CALIBRATION ORIFICE Make: TISCH **Qstd Slope** 2.07544 Model: TE-5025A Ostd Intercept -0.03205Senal#: 2454 CALIBRATION H2O(L) H20(R) Plate H₂O IC Ostd I LINEAR No. (in) (in) (m3/min) (chart) (in) (corrected) REGRESSION 18 6.1 6.4 12.5 1.718 62 61.97 Slope= 45.67 13 4.9 5.2 10.1 1.546 56 55.97 Intercept= -15.103 10 3.6 3.8 7.4 1.325 48 47.97 Corr. Coeff.= 0.9947 7 2.7 2.4 5.1 1.103 34 33.98 5 1.4 1.7 3.1 0.863 24 23.99 Calulations: Flow Rate IC Qstd = 1/m[Sqrt(H2O(Pa/Pstd)(Tstd/Ta))-b]70 IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]65 60 Qstd = standard flow rate IC = corrected chart response 55 l = actual chart response 50



Pav = daily average pressure





RECALIBRATION DUE DATE:

December 15, 2024

Certificate of Calibration

Calibration Certification Information

Cal. Date: December 15, 2023

Rootsmeter S/N: 438320

Ta: 295

°K

Operator: Jim Tisch

Pa: 748.5

mm Hg

Calibration Model #:

TE-5025A

Calibrator S/N: 2454

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4250	3.2	2.00
2	3	4	1	1.0090	6.4	4.00
3	5	6	1	0.9040	7.9	5.00
4	7	8	1	0.8610	8.8	5.50
5	9	10	1	0.7110	12.8	8.00

	Data Tabulation						
Vstd	Qstd	$\sqrt{\Delta H(\frac{Pa}{Pstd})(\frac{Tstd}{Ta})}$		Qa	$\sqrt{\Delta H (Ta/Pa)}$		
(m3)	(x-axis)	(y-axis)	Va	(x-axis)	(y-axis)		
0.9907	0.6952	1.4106	0.9957	0.6988	0.8878		
0.9864	0.9776	1.9949	0.9914	0.9826	1.2556		
0.9844	1.0890	2.2304	0.9894	1.0945	1.4037		
0.9832	1.1420	2.3393	0.9882	1.1478	1.4723		
0.9779	1.3754	2.8213	0.9829	1.3824	1.7756		
I	m=	2.07544		m=	1.29961		
QSTD	b=	-0.03205	QA	b=	-0.02017		
~~~	r=	0.99999		r=	0.99999		

Calculation	ons	
Vstd= ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va= ΔVol((Pa-ΔP)/Pa)	
Qstd= Vstd/∆Time	Qa= Va/ΔTime	
For subsequent flow r	ate calculations:	
Qstd= $1/m \left( \sqrt{\Delta H \left( \frac{Pa}{Pstd} \right) \left( \frac{Tstd}{Ta} \right)} - b \right)$	$Qa = 1/m \left( \left( \sqrt{\Delta H \left( Ta/Pa \right)} \right) - b \right)$	

	Standard Conditions
Tstd:	298.15 °κ
Pstd:	760 mm Hg
	Key
	manometer reading (in H2O)
ΔP: rootsmete	er manometer reading (mm Hg)
Ta: actual abs	olute temperature (°K)
Pa: actual bar	ometric pressure (mm Hg)
b: intercept	
m: slope	

### RECALIBRATION

US EPA recommends annual recalibration per 1998
40 Code of Federal Regulations Part 50 to 51,
Appendix B to Part 50, Reference Method for the
Determination of Suspended Particulate Matter in
the Atmosphere, 9.2.17, page 30

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002 www.tisch-env.com

TOLL FREE: (877)263-7610

FAX: (513)467-9009

### F3. Air Quality Monitoring Schedule

### Sep 2025 - Impact Monitoring Schedule for Tung Chung West

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3 Air Quality Monitoring	4	5	6
7	8	9 Air Quality Monitoring	10	11	12	13
14	15 Air Quality Monitoring	16	17	18	19 Air Quality Monitoring	20
21	22	23	24	25 Air Quality Monitoring	26	27
28	29	30 Air Quality Monitoring				
				Notes: Air Quality Monitoring Station:	DM-5 - Lung Tseung Tau DM-6 - Mok Ka	

### **F4.** Air Quality Monitoring Results

#### 1-hour TSP Results

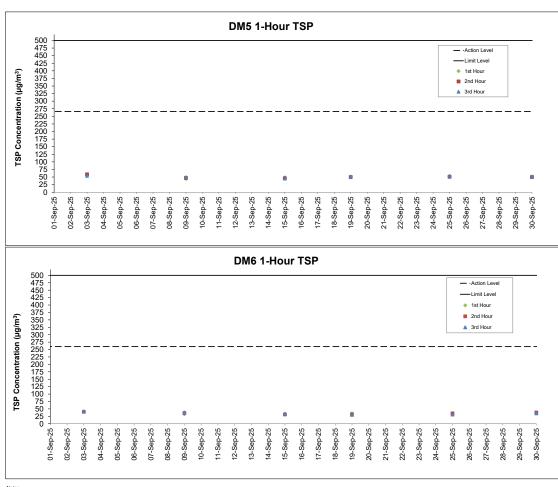
#### Station: DM5 - Lung Tseung Tau

Date	Strat Time	Finish Time	Weather	1-hr TSP (μg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
03-Sep-25	08:32	09:32	Sunny	57	266	500
03-Sep-25	09:32	10:32	Sunny	59	266	500
03-Sep-25	10:32	11:32	Sunny	54	266	500
09-Sep-25	08:39	09:39	Cloudy	44	266	500
09-Sep-25	09:39	10:39	Cloudy	47	266	500
09-Sep-25	10:39	11:39	Cloudy	50	266	500
15-Sep-25	13:05	14:05	Cloudy	49	266	500
15-Sep-25	14:05	15:05	Cloudy	46	266	500
15-Sep-25	15:05	16:05	Cloudy	45	266	500
19-Sep-25	13:40	14:40	Cloudy	49	266	500
19-Sep-25	14:40	15:40	Cloudy	50	266	500
19-Sep-25	15:40	16:40	Cloudy	52	266	500
25-Sep-25	08:20	09:20	Cloudy	51	266	500
25-Sep-25	09:20	10:20	Cloudy	51	266	500
25-Sep-25	10:20	11:20	Cloudy	54	266	500
30-Sep-25	08:15	09:15	Sunny	51	266	500
30-Sep-25	09:15	10:15	Sunny	50	266	500
30-Sep-25	10:15	11:15	Sunny	52	266	500

#### 1-hour TSP Results

#### Station: DM6 - Mok Ka

Date	Start Time	Finish Time	Weather	1-hr TSP (μg/m³)	Action Level (µg/m³)	Limit Level (μg/m³)
03-Sep-25	08:47	09:47	Sunny	42	260	500
03-Sep-25	09:47	10:47	Sunny	40	260	500
03-Sep-25	10:47	11:47	Sunny	41	260	500
09-Sep-25	08:54	09:54	Cloudy	32	260	500
09-Sep-25	09:54	10:54	Cloudy	36	260	500
09-Sep-25	10:54	11:54	Cloudy	38	260	500
15-Sep-25	13:21	14:21	Cloudy	33	260	500
15-Sep-25	14:21	15:21	Cloudy	31	260	500
15-Sep-25	15:21	16:21	Cloudy	34	260	500
19-Sep-25	13:25	14:25	Cloudy	35	260	500
19-Sep-25	14:25	15:25	Cloudy	32	260	500
19-Sep-25	15:25	16:25	Cloudy	30	260	500
25-Sep-25	09:25	10:25	Cloudy	32	260	500
25-Sep-25	10:25	11:25	Cloudy	35	260	500
25-Sep-25	11:25	12:25	Cloudy	31	260	500
30-Sep-25	09:17	10:17	Sunny	36	260	500
30-Sep-25	10:17	11:17	Sunny	38	260	500
30-Sep-25	11:17	12:17	Sunny	35	260	500



Notes

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

Weather conditions during monitoring are presented in the data tables above.
 QA/QC requirements as stipulated in the EM&A Manual were carried out during measurement.

# F5. Air Quality Monitoring Event and Action Plan

Table F5.1: Event and Action Plan for Construction Air Quality (Action Level)

Event		Action			
	ET	IEC	ER	Contractor	
Action Level					
Exceedance for one sample	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform IEC and ER;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily.</li> </ol>	Check monitoring data submitted by ET;     Check Contractor's working method.	Notify Contractor.	Rectify any unacceptable practice;     Amend working methods if appropriate.	
Exceedance for two or more consecutive samples	1. Identify source; 2. Inform IEC and ER; 3. Advise the ER on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and ER; 8. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures.	Confirm receipt of notification of failure in writing;     Notify Contractor;     Ensure remedial measures properly implemented.	1. Submit proposals for remedial to ER within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.	

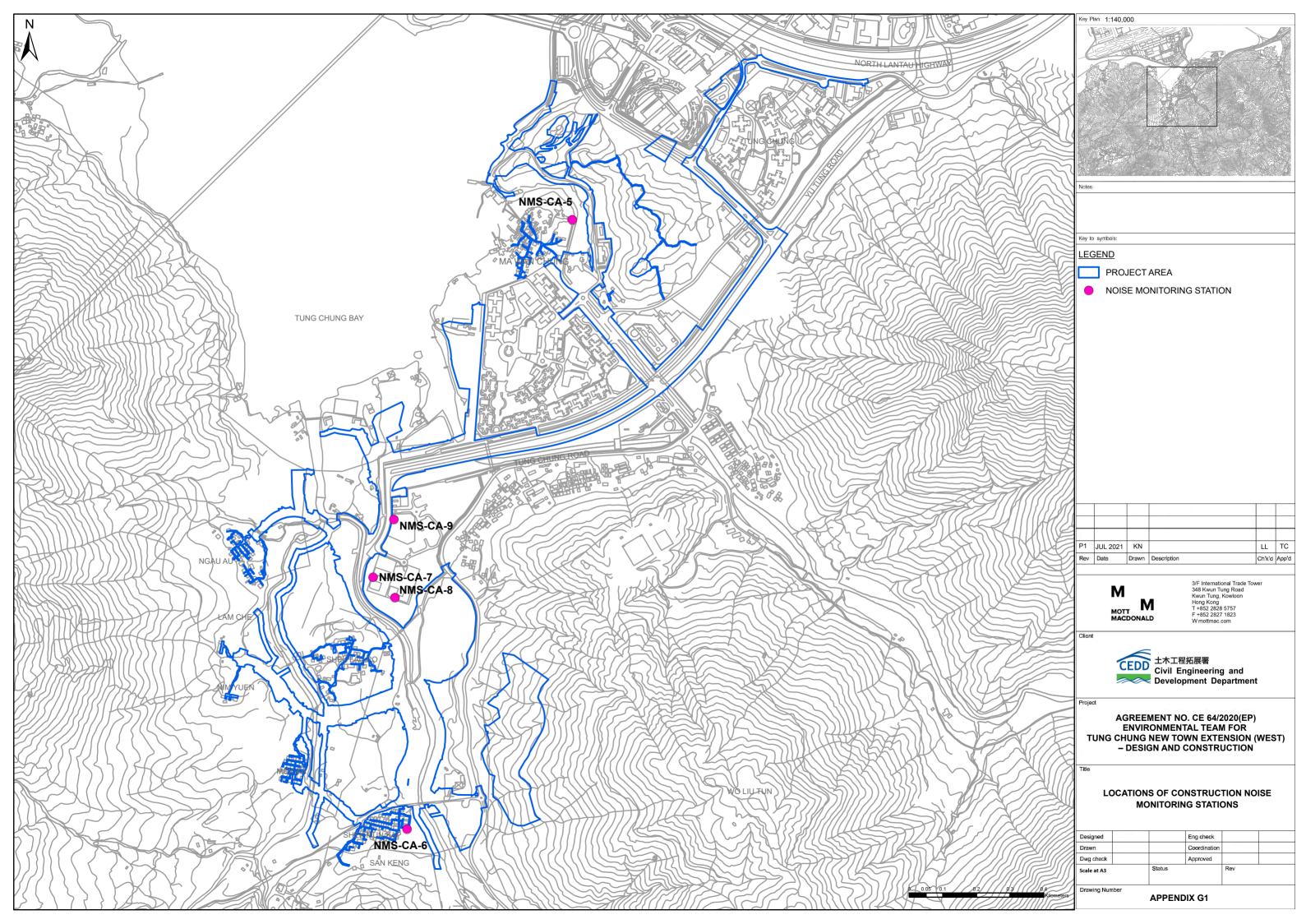
Table F5.2: Event and Action Plan for Construction Air Quality (Limit Level)

Event	Action						
	ET	IEC	ER	Contractor			
Limit Level							
Exceedance for one sample	Identify source, investigate the causes of exceedance and propose remedial measures;     Inform ER, Contractor and EPD;     Repeat measurement to confirm finding;     Increase monitoring frequency to daily;     Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise implementation of remedial measures.</li> </ol>	1.Confirm receipt of notification of failure in writing;     2.Notify Contractor;     3.Ensure remedial measures properly implemented	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>			
Exceedance for two or more consecutive samples	<ol> <li>Notify IEC, ER, Contractor and EPD;</li> <li>Identify source;</li> <li>Repeat measurement to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>Arrange meeting with IEC and ER to discuss the remedial actions to be taken;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	Discuss amongst ER, ET, and Contractor on the potential remedial actions;     Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;     Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.			

# G. Noise

- **G1.** Locations of Construction Noise Monitoring Stations
- **G2.** Construction Noise Monitoring Equipment Calibration Certificates
- **G3.** Construction Noise Monitoring Schedule
- **G4.** Construction Noise Monitoring Results
- **G5.** Construction Noise Monitoring Event and Action Plan

# **G1.** Locations of Construction Noise Monitoring Stations



# **G2.** Construction Noise Monitoring Equipment Calibration Certificates

# Certificate of Calibration

for

Description:

Sound Level Calibrator

Manufacturer:

Larson Davis

Type No.:

CAL 200

Serial No.:

15678

Submitted by:

Customer:

Envirotech Services Co.

Address:

Rm.712, 7/F., My Loft, 9 Hoi Wing Road,

Tuen Mun, Hong Kong

Upon receipt for canoration, the instrument was found to be.
☑ Within
Outside
the allowable tolerance.
The test equipments used for calibration are traceable to National Standards via:  - The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
Date of receipt: 03 January 2025
Date of calibration: 06 January 2025
Date of NEXT calibration: 05 January 2026
Calibrated by:  Calibration Technician  Calibration Technician  Certified by:  Mr. Ng Yan Wa  Vaboratory Manager  Date of issue: 06 January 2025

Certificate No.: APJ24-124-CC003

Page 1 of 2



### 1. Calibration Precautions:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

## 2. Calibration Specifications:

Calibration check

### 3. Calibration Conditions:

Air Temperature:	22.9°C
Air Pressure:	1019 <b>hP</b> a
Relative Humidity:	33.2 %

# 4. Calibration Equipment:

Test Equipment	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV240081	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV240109	HOKLAS

#### 5. Calibration Results

### 5.1 Sound Pressure Level

Nominal value dB	Accept lower level dB	Accept upper level dB	Measured value dB
94.0	93.6	94.4	94.1
114.0	113.6	114.4	114.1

# 6. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 60942 Class 1.

Note:

The values given in this certification only related to the values measured at the time of the calibration.



E-mail: inquiry@aa-lab.com

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Homepage: http://www.aa-lab.com

# Certificate of Calibration

Description:

Sound Level Meter

Manufacturer:

RION

Type No.:

NL-52 (Serial No.: 00175561)

Microphone:

UC-59 (Serial No.: 16651)

Preamplifier:

NH-25 (Serial No.:65663)

# Submitted by:

Customer:

Envirotech Services Co.

Address:

Rm.712, 7/F., My Loft, 9 Hoi Wing Road,

Tuen Mun, Hong Kong

Upon receipt for calibration, the instrument was found to be:

**✓** Within (31.5Hz − 8kHz)

☐ Outside

the allowable tolerance.

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 03 January 2025

Date of calibration: 06 January 2025

Date of NEXT calibration: 05 January 2026

Date of issue: 06 January 2025

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Certificate No.: APJ24-124-CC001

### Acoustics and Air Testing Laboratory Co. Ltd. (A+A)*聲學及空氣測試實驗室有限公司

#### Calibration Precaution: 1.

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

#### Calibration Conditions: 2.

22.9°C Air Temperature: Air Pressure: 1019 hPa Relative Humidity: 33.2%

#### 3. Calibration Equipment:

Calibration Traceable to Type Serial No. Report Number AV240081 **HOKLAS** B&K 4226 2288467 **Multifunction Calibrator** 

#### Calibration Results 4.

Sound Pressure Level

Reference Sound Pressure Level

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	94.0	±0.4

### Linearity

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.0	Ref
30-130	dBA	SPL	Fast	104	1000	104.0	±0.3
				114		114.1	±0.3

### Time Weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Freq. V		Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
		Fast	94	1000	94.0	Ref
аВА	A SPL	Slow			94.0	±0.3
		Freq. Weighting	Freq. Weighting  dBA SPL  Fast	Freq. Weighting Time Weighting Level, dB  dBA SPL Fast 94	Freq. Weighting Time Weighting Level, dB Frequency, Hz  Handle Fast SPL Fast S4 1000	Freq. Weighting Time Weighting Level, dB Frequency, Hz dB  Hast 94.0  Hast 94.0

Certificate No.: APJ24-124-CC001

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Homenage: http://www.aa-lab.com

Frequency Response

# Linear Response

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. We	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	94.2	±2.0
					63	94.3	±1.5
					125	94.2	±1.5
					250	94.2	±1.4
30-130	dB	SPL	Fast	94	500	94.1	±1.4
					1000	94.0	Ref
					2000	93.7	±1.6
					4000	93.2	±1.6
					8000	91.8	+2.1; -3.1

# A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	54.8	-39.4 ±2.0
					63	68.1	-26.2 ±1.5
					125	78.1	-16.1 ±1.5
					250	85.5	-8.6±1.4
30-130	dBA	SPL	Fast	94	500	90.9	-3.2 ±1.4
					1000	94.0	Ref
					2000	94.9	+1.2±1.6
					4000	94.2	`+1.0±1.6
					8000	90.8	-1.1+2.1; -3.1

# C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	91.2	-3.0±2.0
				۰	63	93.4	$-0.8 \pm 1.5$
					125	94.1	$-0.2 \pm 1.5$
					250	94.2	$-0.0\pm1.4$
30-130	dBC	SPL	Fast	94	500	94.1	$-0.0\pm1.4$
					1000	94.0	Ref
					2000	93.6	-0.2±1.6
					4000	92.4	-0.8±1.6
					8000	88.9	-3.0 +2.1: -3.1

Certificate No.: APJ24-124-CC001



# 5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.15
	63 Hz	± 0.10
	125 Hz	± 0.05
	250 Hz	± 0.05
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
	8000 Hz	± 0.10
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

#### Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. (A+A)*L shall not be liable for any loss or damage resulting from the use of the equipment.

(A+A)*L®

Certificate No.: APJ24-124-CC001

G3.	Construction	<b>Noise</b>	<b>Monitor</b>	ing	Schedu	ule
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# Sep 2025 - Impact Monitoring Schedule for Tung Chung West

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	Noise Monitoring	3	4	5	6
7	8	9	10	11 Noise Monitoring	12	13
14	15	16 Noise Monitoring	17	18	19	20
21	22	23	24	25 Noise Monitoring	26	27
28	29	30 Noise Monitoring				
				Notes:  Noise Monitoring Stations:	NMS-CA-5 - Village hous NMS-CA-6 - Village hous NMS-CA-7 - YMCA of Ho NMS-CA-8 - Caritas Wu	e in Shek Mun Kap ing Kong Christian College

G4.	Construction	Noise	Monitoring	Results
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#### **Noise Measurement Results**

Station: NMS-CA-5 Village House in Ma Wan Chung

Date	Weather	Time	Measured	Measured	Measured	
Date	weather	Time	$\mathbf{L}_{eq(Smins)} dB(A)$	<b>L</b> ₁₀ dB(A)	L ₉₀ dB(A)	L _{eq(30mins)} dB(A) [↑]
02-Sep-25	Sunny	13:17	56.6	57.4	55.8	
02-Sep-25	Sunny	13:22	56.5	57.4	55.5	
02-Sep-25	Sunny	13:27	57.1	58.4	55.7	57
02-Sep-25	Sunny	13:32	57.7	59.6	55.7	37
02-Sep-25	Sunny	13:37	57.7	58.7	56.3	
02-Sep-25	Sunny	13:42	58.6	60.5	56.6	
11-Sep-25	Sunny	13:02	54.1	56.3	50.9	
11-Sep-25	Sunny	13:07	56.0	58.2	53.2	
11-Sep-25	Sunny	13:12	54.6	56.2	52.2	56
11-Sep-25	Sunny	13:17	55.2	57.1	52.4	50
11-Sep-25	Sunny	13:22	57.3	59.3	54.3	
11-Sep-25	Sunny	13:27	56.2	57.8	54.1	
16-Sep-25	Sunny	13:04	67.4	70.7	55.4	
16-Sep-25	Sunny	13:09	66.5	70.2	54.3	
16-Sep-25	Sunny	13:14	66.7	71.1	54.3	66
16-Sep-25	Sunny	13:19	67.0	71.7	55.1	00
16-Sep-25	Sunny	13:24	66.6	71.6	54.6	
16-Sep-25	Sunny	13:29	63.1	68.5	55.3	
25-Sep-25	Cloudy	13:03	57.6	59.2	55.7	
25-Sep-25	Cloudy	13:08	59.2	61.5	56.2	
25-Sep-25	Cloudy	13:13	58.1	59.6	56.1	58
25-Sep-25	Cloudy	13:18	57.5	58.4	56.3	58
25-Sep-25	Cloudy	13:23	59.8	63.6	55.8	
25-Sep-25	Cloudy	13:28	58.3	60.2	56.1	
30-Sep-25	Sunny	13:08	57.1	60.1	51.7	
30-Sep-25	Sunny	13:13	53.3	55.4	51.2	
30-Sep-25	Sunny	13:18	52.8	54.8	51.3	55
30-Sep-25	Sunny	13:23	54.3	57.5	51.7	55
30-Sep-25	Sunny	13:28	55.3	57.1	52.1	
30-Sep-25	Sunny	13:33	54.7	55.8	53.5	

Remarks: (^) +3dB (A) Façade correction included for free-field measurement.

#### **Noise Measurement Results**

Station: NMS-CA-6 Village House in Shek Mun Kap

Date	Weather	Time	Measured	Measured	Measured	1 10(4)
Date	weather	Tille	L _{eq(5mins)} dB(A)	<b>L</b> ₁₀ dB(A)	<b>L</b> ₉₀ dB(A)	L _{eq(30mins)} dB(A) [↑]
02-Sep-25	Sunny	08:41	52.6	52.3	49.0	
02-Sep-25	Sunny	08:46	54.9	53.5	49.7	
02-Sep-25	Sunny	08:51	51.4	53.7	49.2	53
02-Sep-25	Sunny	08:56	52.8	56.1	48.6	33
02-Sep-25	Sunny	09:01	51.0	53.5	48.3	
02-Sep-25	Sunny	09:06	52.9	55.6	49.0	
11-Sep-25	Sunny	08:38	58.3	59.1	51.1	
11-Sep-25	Sunny	08:43	57.1	58.1	51.5	
11-Sep-25	Sunny	08:48	54.7	54.5	50.6	55
11-Sep-25	Sunny	08:53	52.2	53.6	50.6	33
11-Sep-25	Sunny	08:58	52.9	54.5	50.5	
11-Sep-25	Sunny	09:03	53.1	54.6	50.6	
16-Sep-25	Sunny	08:40	59.6	62.1	54.3	
16-Sep-25	Sunny	08:45	59.7	61.4	55.1	
16-Sep-25	Sunny	08:50	57.9	60.6	50.6	59
16-Sep-25	Sunny	08:55	57.9	60.7	51.1	39
16-Sep-25	Sunny	09:00	57.1	60.0	52.0	
16-Sep-25	Sunny	09:05	58.8	61.7	52.6	
25-Sep-25	Cloudy	08:46	58.0	60.8	54.3	
25-Sep-25	Cloudy	08:51	56.9	58.0	54.4	
25-Sep-25	Cloudy	08:56	56.1	58.2	54.3	57
25-Sep-25	Cloudy	09:01	55.5	56.7	54.4	37
25-Sep-25	Cloudy	09:06	57.0	59.6	54.6	
25-Sep-25	Cloudy	09:11	55.2	56.1	54.3	
30-Sep-25	Sunny	08:32	51.5	52.8	49.5	
30-Sep-25	Sunny	08:37	51.2	52.5	49.6	
30-Sep-25	Sunny	08:42	51.1	52.5	49.6	52
30-Sep-25	Sunny	08:47	50.0	51.0	49.0	32
30-Sep-25	Sunny	08:52	54.1	51.6	49.0	
30-Sep-25	Sunny	08:57	50.9	52.1	49.7	

Remarks:
(^) +3dB (A) Façade correction included for free-field measurement.

#### **Noise Measurement Results**

Station: NMS-CA-7 YMCA of Hong Kong Christian College

Date	Weather	Time	Measured	Measured	Measured	10(4)
Date	weather	Tille	L _{eq(5mins)} dB(A)	<b>L</b> ₁₀ dB(A)	L _{so} dB(A)	L _{eq(30mins)} dB(A)
02-Sep-25	Sunny	10:25	66.7	70.3	61.5	
02-Sep-25	Sunny	10:30	66.7	69.6	62.1	
02-Sep-25	Sunny	10:35	65.7	68.7	60.9	66
02-Sep-25	Sunny	10:40	67.9	71.0	62.2	00
02-Sep-25	Sunny	10:45	62.8	65.7	57.2	
02-Sep-25	Sunny	10:50	60.4	61.9	57.5	
11-Sep-25	Sunny	10:24	63.1	64.2	61.4	
11-Sep-25	Sunny	10:29	63.0	64.0	61.4	
11-Sep-25	Sunny	10:34	63.2	65.1	60.1	64
11-Sep-25	Sunny	10:39	65.2	65.2	61.6	04
11-Sep-25	Sunny	10:44	62.6	62.7	60.5	
11-Sep-25	Sunny	10:49	64.3	66.7	60.0	
16-Sep-25	Sunny	10:22	62.5	64.4	60.1	
16-Sep-25	Sunny	10:27	64.8	67.4	60.6	
16-Sep-25	Sunny	10:32	65.2	67.8	61.0	64
16-Sep-25	Sunny	10:37	66.5	69.6	56.4	04
16-Sep-25	Sunny	10:42	64.6	65.3	56.1	
16-Sep-25	Sunny	10:47	61.0	63.4	57.0	
25-Sep-25	Cloudy	10:29	65.6	68.9	59.3	
25-Sep-25	Cloudy	10:34	68.6	72.0	62.0	
25-Sep-25	Cloudy	10:39	60.8	62.7	59.1	64
25-Sep-25	Cloudy	10:44	62.1	62.4	58.4	04
25-Sep-25	Cloudy	10:49	61.6	63.2	59.6	
25-Sep-25	Cloudy	10:54	60.4	61.8	58.8	
30-Sep-25	Sunny	10:20	65.9	69.5	59.4	
30-Sep-25	Sunny	10:25	65.8	69.0	59.6	
30-Sep-25	Sunny	10:30	64.7	68.0	59.4	65
30-Sep-25	Sunny	10:35	62.4	64.2	58.6	05
30-Sep-25	Sunny	10:40	62.6	62.9	58.7	
30-Sep-25	Sunny	10:45	64.7	67.4	60.2	

#### **Noise Measurement Results**

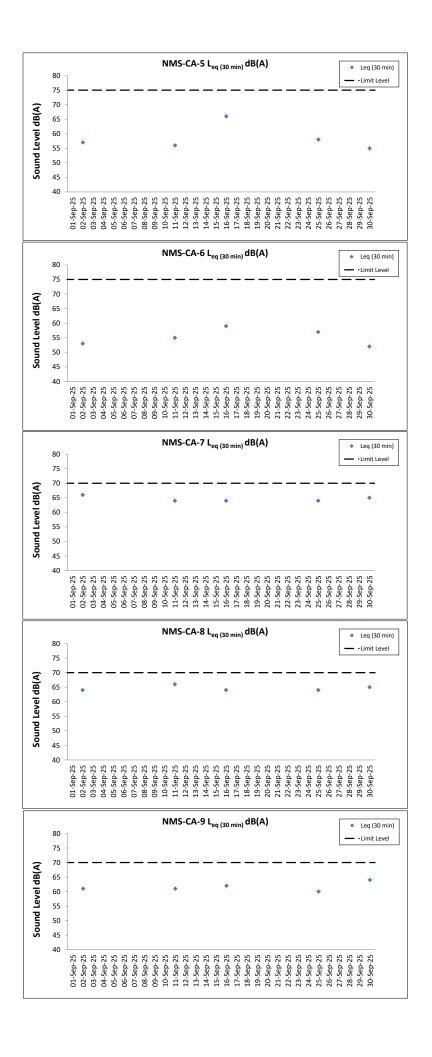
Station: NMS-CA-8 Caritas Wu Cheng-Chung College

Date	Weather	Time				
			L _{eq(Smins)} dB(A)	<b>L</b> ₁₀ dB(A)	L ₉₀ dB(A)	$\mathbf{L}_{eq(30mins)} dB(A)$
02-Sep-25	Sunny	09:39	64.3	65.3	63.2	
02-Sep-25	Sunny	09:44	64.0	65.2	62.7	
02-Sep-25	Sunny	09:49	64.1	65.4	62.9	64
02-Sep-25	Sunny	09:54	64.2	65.0	63.2	04
02-Sep-25	Sunny	09:59	63.7	64.5	62.7	
02-Sep-25	Sunny	10:04	64.3	65.2	63.4	
11-Sep-25	Sunny	09:36	66.3	67.5	64.9	
11-Sep-25	Sunny	09:41	65.9	67.8	64.3	
11-Sep-25	Sunny	09:46	66.8	68.6	64.8	66
11-Sep-25	Sunny	09:51	66.0	67.9	64.3	00
11-Sep-25	Sunny	09:56	66.8	69.1	64.5	
11-Sep-25	Sunny	10:01	65.9	67.2	64.3	
16-Sep-25	Sunny	09:38	63.8	65.7	61.7	
16-Sep-25	Sunny	09:43	64.8	67.1	62.0	
16-Sep-25	Sunny	09:48	64.4	66.3	62.2	64
16-Sep-25	Sunny	09:53	64.0	65.9	61.9	04
16-Sep-25	Sunny	09:58	64.4	66.2	62.3	
16-Sep-25	Sunny	10:03	65.4	67.3	62.9	
25-Sep-25	Cloudy	09:49	60.2	61.3	58.8	
25-Sep-25	Cloudy	09:54	62.4	64.2	59.0	
25-Sep-25	Cloudy	09:59	65.2	67.3	62.3	64
25-Sep-25	Cloudy	10:04	63.9	64.9	62.6	04
25-Sep-25	Cloudy	10:09	64.6	65.9	63.0	
25-Sep-25	Cloudy	10:14	64.7	66.3	62.7	
30-Sep-25	Sunny	09:38	66.3	67.7	65.1	
30-Sep-25	Sunny	09:43	65.5	66.2	64.8	
30-Sep-25	Sunny	09:48	65.4	66.1	64.7	65
30-Sep-25	Sunny	09:53	64.1	65.1	63.1	05
30-Sep-25	Sunny	09:58	64.3	65.3	63.2	
30-Sep-25	Sunny	10:03	63.5	64.3	62.6	

#### **Noise Measurement Results**

Station: NMS-CA-9 Hong Chi Shiu Pong Morninghope School

Date	Weather	Time	Measured	Measured	Measured	I 40(A)	
Date	weather	Time	$\mathbf{L}_{eq(Smins)} dB(A)$	<b>L</b> ₁₀ dB(A)	L ₉₀ dB(A)	L _{eq(30mins)} dB(A)	
02-Sep-25	Sunny	11:17	62.9	66.1	58.6		
02-Sep-25	Sunny	11:22	60.1	62.2	57.7		
02-Sep-25	Sunny	11:27	59.7	62.0	57.0	61	
02-Sep-25	Sunny	11:32	60.8	63.4	56.7	01	
02-Sep-25	Sunny	11:37	60.7	62.9	57.2		
02-Sep-25	Sunny	11:42	61.0	63.3	57.0		
11-Sep-25	Sunny	11:16	60.6	62.7	58.1		
11-Sep-25	Sunny	11:21	62.8	65.3	57.4		
11-Sep-25	Sunny	11:26	59.2	60.8	57.3	61	
11-Sep-25	Sunny	11:31	60.2	62.8	57.7	01	
11-Sep-25	Sunny	11:36	59.1	61.7	56.9		
11-Sep-25	Sunny	11:41	60.6	61.8	55.7		
16-Sep-25	Sunny	11:08	62.4	64.5	60.0		
16-Sep-25	Sunny	11:13	60.9	62.8	58.2		
16-Sep-25	Sunny	11:18	62.1	65.2	58.4	62	
16-Sep-25	Sunny	11:23	61.0	63.5	58.2	02	
16-Sep-25	Sunny	11:28	61.4	63.1	59.4		
16-Sep-25	Sunny	11:33	62.1	63.6	59.5		
25-Sep-25	Cloudy	11:12	60.0	62.7	56.2		
25-Sep-25	Cloudy	11:17	59.8	62.8	56.3		
25-Sep-25	Cloudy	11:22	61.2	64.6	56.2	60	
25-Sep-25	Cloudy	11:27	62.1	64.4	56.0	00	
25-Sep-25	Cloudy	11:32	57.3	59.3	54.6		
25-Sep-25	Cloudy	11:37	60.1	62.5	56.2		
30-Sep-25	Sunny	11:04	62.4	64.5	59.4		
30-Sep-25	Sunny	11:09	64.6	68.4	59.9		
30-Sep-25	Sunny	11:14	65.0	67.8	60.2	64	
30-Sep-25	Sunny	11:19	65.6	69.8	59.3	64	
30-Sep-25	Sunny	11:24	63.6	64.9	58.2		
30-Sep-25	Sunny	11:29	63.0	66.2	57.8		



# **G5.** Construction Noise Monitoring Event and Action Plan

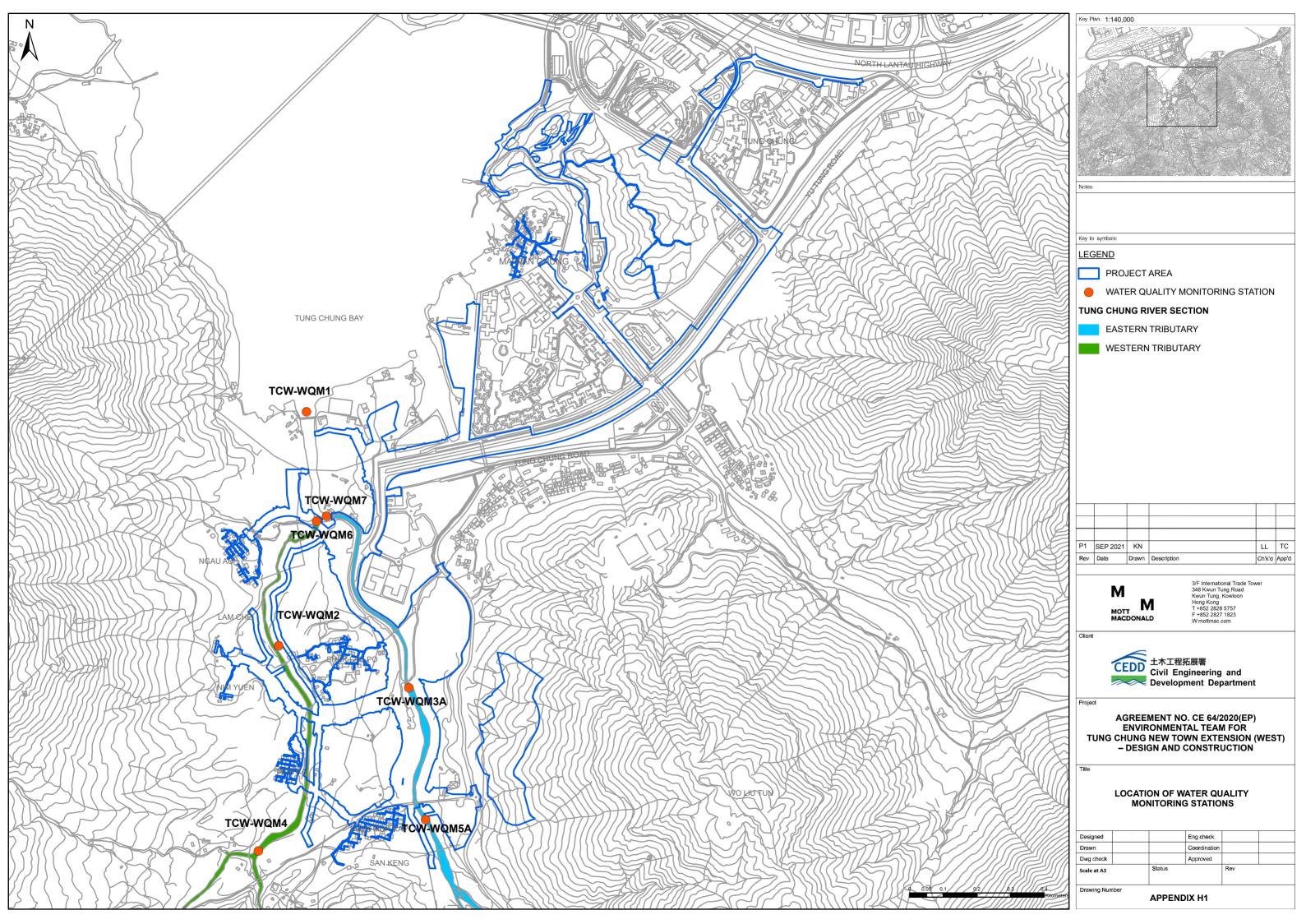
**Table G5.1: Event and Action Plan for Construction Noise** 

Event				Action	1			
	ET		IEC	;	ER		Co	ntractor
Action Level Exceedance	1. 2. 3. 4.	Notify IEC, ER and Contractor; Carry out investigation; Report the results of investigation to the IEC, ER and Contractor; Discuss with the Contractor and formulate remedial measures; Increase monitoring frequency to check mitigation effectiveness.	<ol> <li>2.</li> <li>3.</li> </ol>	Review the analysed results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the ER accordingly; Supervise the implementation of remedial measures.	<ol> <li>2.</li> <li>3.</li> <li>4.</li> </ol>	Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures are properly implemented	1.	Submit noise mitigation proposals to IEC and ER; Implement noise mitigation proposals.
Limit Level Exceedance	1. 2. 3. 4. 5.	Identify source; Inform IEC, ER, EPD and Contractor; Repeat measurements to confirm findings; Increase monitoring frequency; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Inform IEC, ER and EPD the causes and actions taken for the exceedances; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring.	1. 2. 3.	Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures.	1. 2. 3. 4. 5.	Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1. 2. 3. 4. 5.	Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated.

# H. Water Quality

- **H1. Locations of Water Quality Monitoring Stations**
- H2. Water Quality Monitoring Equipment Calibration Certificates
- **H3. Water Quality Monitoring Schedule**
- **H4. Water Quality Monitoring Results**
- **H5. Water Quality Monitoring Event and Action Plan**

# H1. Locations of Water Quality Monitoring Stations



# **H2. Water Quality Monitoring Equipment Calibration Certificates**



#### ALS Technichem (HK) Pty Ltd

11/F., Chung Shun Knitting Centre,

1 - 3 Wing Yip Street,

Kwai Chung, N.T., Hong Kong

T: +852 2610 1044 F: +852 2610 2021 www.alsglobal.com

# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: MR K.W.FAN WORK ORDER: HK2525840

**CLIENT:** ENVIROTECH SERVICES CO.

ADDRESS: RM 712, 7/F, MY LOFT, SUB-BATCH: 0

9 HOI WING ROAD,
TUEN MUN, N.T. HK
DATE RECEIVED: 23-Jun-2025
DATE OF ISSUE: 27-Jun-2025

#### **GENERAL COMMENTS**

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

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

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

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

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

#### **EQUIPMENT INFORMATION**

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

Equipment Type: Multifunctional Meter Service Nature: Performance Check

Scope: Conductivity, Dissolved Oxygen, pH Value, Turbidity, Salinity and Temperature

Brand Name/ Model No.: [HORIBA]/ [U-53]
Serial No./ Equipment No.: [FXMONLLF]/ [N/A]
Date of Calibration: 26-June-2025

 $\mathcal{M}$ 

Ms. Cheng Sin Ying, May Senior Chemist - Inorganics

This report shall not be reproduced except in full without the written approval of the laboratory.

WORK ORDER: HK2525840

**SUB-BATCH:** 0

**DATE OF ISSUE:** 27-Jun-2025

**CLIENT:** ENVIROTECH SERVICES CO.

Equipment Type:

Multifunctional Meter

Brand Name/ Model No.:

[HORIBA]/[U-53]

Serial No./ Equipment No.:

[FXMONLLF]/[N/A]

Date of Calibration:

26-June-2025

26-September-2025

#### **PARAMETERS:**

#### Conductivity

#### Method Ref: APHA (23rd edition), 2510B

Expected Reading (μS/cm)	Displayed Reading (μS/cm)	Tolerance (%)
146.9	147	+0.1
6667	6240	-6.4
12890	12500	-3.0
58670	53500	-8.8
	Tolerance Limit (%)	±10.0

Date of Next Calibration:

#### **Dissolved Oxygen**

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.17	2.21	+0.04
4.04	4.12	+0.08
7.16	7.22	+0.06
	Tolerance Limit (mg/L)	±0.20

#### pH Value

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

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)
4.0	3.92	-0.08
7.0	6.91	-0.09
10.0	9.90	-0.10
	Tolerance Limit (pH unit)	±0.20

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

Man

WORK ORDER: HK2525840

SUB-BATCH:

0

**DATE OF ISSUE:** 

27-Jun-2025

**CLIENT:** 

ENVIROTECH SERVICES CO.

Equipment Type:

Multifunctional Meter

Brand Name/ Model No.:

[HORIBA]/[U-53]

Serial No./

[FXMONLLF]/[N/A]

Equipment No.: Date of Calibration:

26-June-2025

Date of Next Calibration:

26-September-2025

**PARAMETERS:** 

**Turbidity** 

Method Ref: APHA (23rd edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.70	
4	4.2	+5.0
40	37.3	-6.8
80	76.9	-3.9
400	424	+6.0
800	768	-4.0
	Tolerance Limit (%)	±10.0

#### **Salinity**

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.01	
10	9.17	-8.3
20	18.60	-7.0
30	28.20	-6.0
	Tolerance Limit (%)	±10.0

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

Man

WORK ORDER: HK2525840

**SUB-BATCH:** 0

**DATE OF ISSUE:** 27-Jun-2025

**CLIENT:** ENVIROTECH SERVICES CO.

Equipment Type:

Multifunctional Meter

Brand Name/ Model No.:

[HORIBA]/[U-53]

26-June-2025

Serial No./

[FXMONLLF]/[N/A]

Equipment No.: Date of Calibration:

Date of Next Calibration:

26-September-2025

**PARAMETERS:** 

Temperature Method Ref: Section 6 of International Accreditation New Zealand Technical

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

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
12.5	13.45	+0.9
19.0	19.22	+0.2
38.0	37.50	-0.5
	Tolerance Limit (°C)	±2.0

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

Man



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1 - 3 Wing Yip Street,

Kwai Chung, N.T., Hong Kong

T: +852 2610 1044 F: +852 2610 2021 www.alsglobal.com

# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: MR K.W.FAN WORK ORDER: HK2536910

**CLIENT:** ENVIROTECH SERVICES CO.

ADDRESS: RM 712, 7/F, MY LOFT SUB-BATCH: 0

9 HOI WING ROAD,
TUEN MUN, N.T. HK

DATE RECEIVED: 27-Aug-2025

DATE OF ISSUE: 03-Sep-2025

#### **GENERAL COMMENTS**

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

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

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

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

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

#### **EQUIPMENT INFORMATION**

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

Equipment Type: Multifunctional Meter Service Nature: Performance Check

Scope: Conductivity, Dissolved Oxygen, pH Value, Turbidity, Salinity and Temperature

Brand Name/ Model No.: [HORIBA]/ [U-53]
Serial No./ Equipment No.: [KP23RRSM]/ [N/A]
Date of Calibration: 02-September-2025

 $\mathcal{M}$ 

Ms. Cheng Sin Ying, May Senior Chemist - Inorganics

This report shall not be reproduced except in full without the written approval of the laboratory.

WORK ORDER: HK2536910

**SUB-BATCH:** 0

**DATE OF ISSUE:** 03-Sep-2025

**CLIENT:** ENVIROTECH SERVICES CO.

Equipment Type:

Multifunctional Meter

Brand Name/ Model No.:

[HORIBA]/[U-53]

Serial No./

[KP23RRSM]/[N/A]

Equipment No.: Date of Calibration:

02-September-2025 Date of Next Calibration:

02-December-2025

**PARAMETERS:** 

Conductivity Method Ref: APHA (23rd edition), 2510B

Expected Reading (µS/cm)	Displayed Reading (μS/cm)	Tolerance (%)
146.9	148	+0.7
6667	6570	-1.5
12890	12600	-2.2
58670	55900	-4.7
	Tolerance Limit (%)	±10.0

**Dissolved Oxygen** 

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.39	2.51	+0.12
4.39	4.46	+0.07
6.41	6.48	+0.07
	Tolerance Limit (mg/L)	±0.20

pH Value

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

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)
4.0	3.92	-0.08
7.0	6.90	-0.10
10.0	9.84	-0.16
	Tolerance Limit (pH unit)	±0.20

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

Man

WORK ORDER: HK2536910

**SUB-BATCH:** 0

**DATE OF ISSUE:** 03-Sep-2025

**CLIENT:** ENVIROTECH SERVICES CO.

Equipment Type:

Multifunctional Meter

Brand Name/ Model No.:

[HORIBA]/[U-53]

Serial No./ Equipment No.:

[KP23RRSM]/[N/A]

Date of Calibration:

02-September-2025 Date of Next Calibration:

02-December-2025

**PARAMETERS:** 

Turbidity Method Ref: APHA (23rd edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.75	
4	4.25	+6.3
40	40.3	+0.7
80	79.2	-1.0
400	384	-4.0
800	778	-2.8
	Tolerance Limit (%)	±10.0

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)	
0	0.00		
10	9.36	-6.4	
20	19.33	-3.4	
30	28.61	-4.6	
	Tolerance Limit (%)	±10.0	

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

Man

WORK ORDER: HK2536910

**SUB-BATCH:** 0

**DATE OF ISSUE:** 03-Sep-2025

**CLIENT:** ENVIROTECH SERVICES CO.

Equipment Type:

Multifunctional Meter

Brand Name/ Model No.:

[HORIBA]/[U-53]

Serial No./

Equipment No.:

[KP23RRSM]/[N/A]

Date of Calibration: 02-September-2025

Date of Next Calibration: 02-December-2025

**PARAMETERS:** 

Temperature Method Ref: Section 6 of International Accreditation New Zealand Technical

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

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
12.0	13.37	+1.4
19.0	18.57	-0.4
39.0	37.45	-1.6
	Tolerance Limit (°C)	±2.0

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

M

# **H3. Water Quality Monitoring Schedule**

# Sep 2025 - Impact Monitoring Schedule for Tung Chung West

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6
	Water (07:30)		Water (09:50)		Water (11:30)	
	Water (67:55)		Water (66.66)		Water (11.00)	
	8	9	10	11	12	13
	Water (13:20)		Water (14:40)		Water (16:00)	
	Water (10.20)		vator (14.40)		Water (10.00)	
14	15	16	17	18	19	20
	Water (07:30)		Water (09:00)		Water (11:30)	
	, ,		,		, ,	
1	22	23	24	25	26	27
	Water (13:20)		Water (14:20)		Water (15:10)	
8	29	30				
	Water (07:30)					

TCW-WQM1 - Downstream of Tung Chung Stream

Tung Chung Stream (West)

TCW-WQM2 - Middle of Tung Chung Stream (West)

TCW-WQM4 - Upstream of Tung Chung Stream (West)

TCW-WQM6 - Downstream of Tung Chung Stream (West)

#### Tung Chung Stream (East)

TCW-WQM3A - Middle of Tung Chung Stream (East) [aka Upstream of River Park]

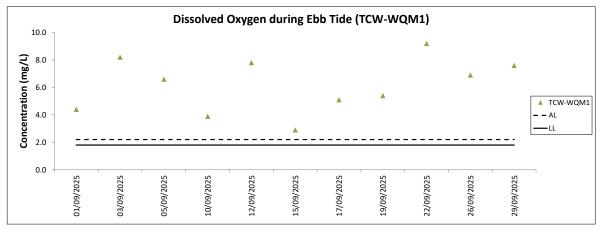
TCW-WQM5A - Upstream of Tung Chung Stream (East)

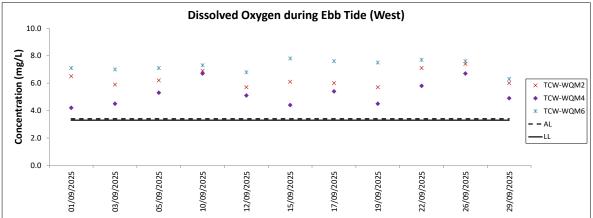
TCW-WQM7 - Downstream of Tung Chung Stream (East) [aka Downstream of River Park]

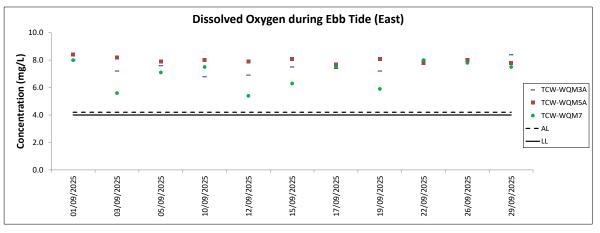
#### Remark:

Water quality monitoring is arranged at the ebb tide of each monitoring day. Tidal information refers to Chek Lap Kok East provided by the Hong Kong Observatory. Water quality monitoring scheduled on 8 and 24 Sep 2025 were cancelled due to the hoisting of Tropical Cyclone Warning Signal.

# **H4.** Water Quality Monitoring Results





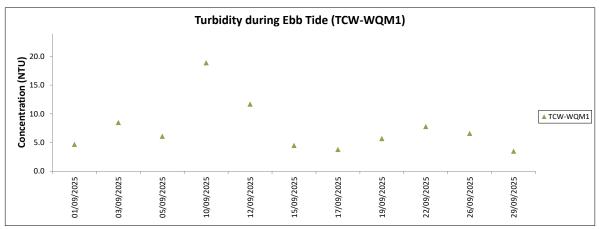


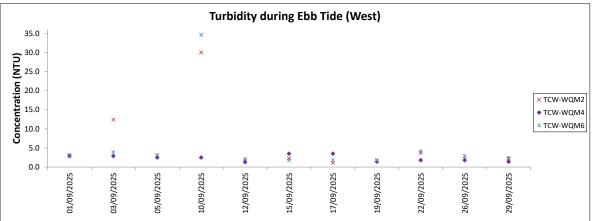
Note: The Action and Limit Level of dissolved oxygen can be referred to Table 4.3 of the monthly EM&A report.

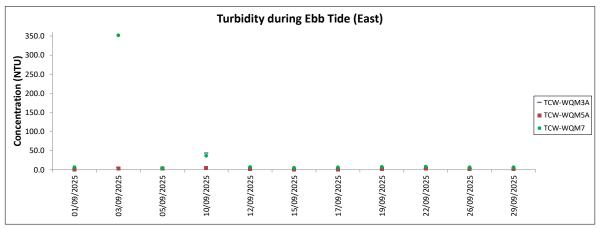
Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report.

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

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





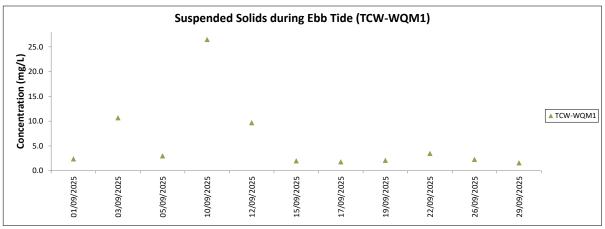


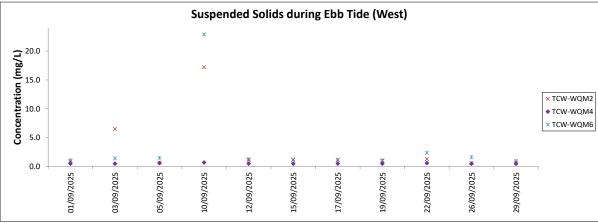
Note: The Action and Limit Level of turbidity can be referred to Table 4.3 of the monthly EM&A report.

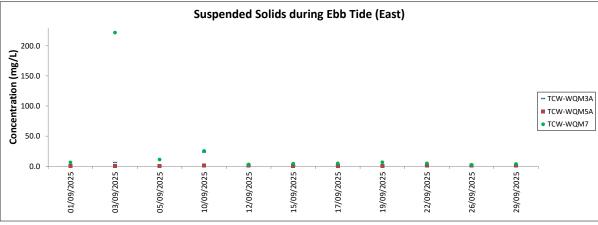
Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report.

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

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







Note: The Action and Limit Level of suspended solids can be referred to Table 4.3 of the monthly EM&A report.

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

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

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

Water Quality Monitoring Results on 01 September 2025 during Ebb Tide

Monitoring Station	Weather	Tidal Condition	Sampling	Replicate		mperature C)	р	Н	Salinit	y (ppt)	Condi (µS	uctivity /cm)	DO Satur	ration (%)	Dissolved (mg	d Oxygen g/L)	Turbidi	ty(NTU)		led Solids g/L)
g c.a	Condition	Tradi Comanion	Time	. topiloato	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
TO\0/ \0/ON44	Common	Davish	00.27	1st	28.0	28.1	7.9	7.9	20.41	20.48	32700	32800	63.3	62.8	4.4	4.4	4.6	4.7	2.4	2.4
TCW-WQM1	Sunny	Rough	08:37	2nd	28.1	28.1	7.9	7.9	20.55	20.48	32900	32800	62.2	02.8	4.3	4.4	4.7	4.7	2.4	2.4
TOW WOMO	0	NA	00-04	1st	26.6	00.0	7.2	7.0	0.02	0.00	49	40	81.2	04.0	6.5	0.5	3.3	0.0	0.9	0.0
TCW-WQM2	Sunny	NA	09:34	2nd	26.6	26.6	7.2	7.2	0.02	0.02	49	49	80.7	81.0	6.5	- 6.5	3.0	3.2	0.9	0.9
TOWNS	•		00.55	1st	26.3	00.0	7.2	7.0	0.03	0.00	61	0.4	99.1	00.4	8.0	0.0	2.6	0.0	1.2	1.0
TCW-WQM3A	Sunny	NA	09:55	2nd	26.2	26.2	7.2	7.2	0.03	0.03	61	61	97.1	98.1	7.9	8.0	2.5	2.6	1.2	1.2
TOW WOLA	•		10.07	1st	27.3	07.0	6.4	0.0	0.02	0.00	48	40	54.7	50.0	4.3	4.0	2.9	0.0	<0.5	.0.5
TCW-WQM4	Sunny	NA	10:37	2nd	27.3	27.3	6.3	6.3	0.02	0.02	48	48	51.6	53.2	4.1	4.2	2.9	2.9	<0.5	<0.5
TOWNSA	0		10.51	1st	26.1	00.4	7.2	7.0	0.02	0.00	39	00	103.5	100.4	8.4	0.4	1.5		0.5	0.0
TCW-WQM5A	Sunny	NA	10:54	2nd	26.1	26.1	7.2	7.2	0.02	0.02	39	39	103.2	103.4	8.4	8.4	1.3	1.4	0.6	0.6
TOW WOM	0	NA	00:40	1st	26.2	00.0	7.1	7.4	0.03	0.00	57	F-7	88.1	00.4	7.1	7.4	2.7	0.0	0.9	1.4
TCW-WQM6	Sunny	NA	09:12	2nd	26.2	26.2	7.1	7.1	0.03	0.03	57	- 57	88.0	88.1	7.1	7.1	2.9	2.8	1.2	1.1
TOW WORK	Commi	NA	00.55	1st	28.1	28.1	9.5	0.5	0.06	0.00	127	126	101.9	102.0	8.0	0.0	6.7	6.7	6.3	6.4
TCW-WQM7	Sunny	NA	08:55	2nd	28.0	∠ŏ. I	9.5	9.5	0.06	0.06	124	120	102.1	102.0	8.0	8.0	6.7	6.7	6.4	0.4

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

NA: This monitoring location is not subject to tidal effect.

Water Quality Monitoring Results on 03 September 2025 during Ebb Tide

Monitoring Station	Weather	Tidal Condition	Sampling	Replicate	Water Te	mperature °C)	р		Salinit	y (ppt)		uctivity /cm)	DO Satur	ration (%)	Dissolved (mg		Turbidi	ty(NTU)		ded Solids g/L)
	Condition		Time		Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
TCW-WQM1	Sunny	Rough	10:14	1st	30.1	30.1	8.6	8.6	16.99	17.00	27700	27700	119.5	119.4	8.2	8.2	8.7	8.5	10.5	10.7
TCVV-VVQIVIT	Suring	Kougii	10.14	2nd	30.2	30.1	8.6	0.0	17.00	17.00	27700	27700	119.3	119.4	8.2	0.2	8.3	0.5	10.9	10.7
TCW-WQM2	Sunny	NA	11:35	1st	28.2	28.1	7.7	7.6	0.02	0.02	40	41	77.2	76.0	6.0	5.9	12.4	12.4	7.3	6.5
TCVV-VVQIVIZ	Suring	IVA	11.33	2nd	28.1	20.1	7.6	7.0	0.02	0.02	41	41	74.7	70.0	5.8	3.9	12.3	12.4	5.6	0.5
TCW-WQM3A	Sunny	NA	12:06	1st	27.5	27.5	7.6	7.6	0.03	0.03	72	72	92.1	90.9	7.3	7.2	6.1	6.1	6.4	6.3
TCVV-VVQIVISA	Suring	IVA	12.00	2nd	27.5	21.5	7.6	7.0	0.03	0.03	72	12	89.6	90.9	7.1	1.2	6.1	0.1	6.2	0.3
TCW-WQM4	Sunny	NA	12:50	1st	27.9	27.8	6.7	6.6	0.02	0.02	50	50	61.3	57.6	4.8	4.5	2.9	2.9	<0.5	<0.5
TCVV-VVQIVI4	Suring	IVA	12.50	2nd	27.7	21.0	6.5	0.0	0.02	0.02	50	50	53.9	57.0	4.2	4.5	2.8	2.9	<0.5	<b>~</b> 0.5
TCW-WQM5A	Sunny	NA	13:08	1st	27.3	27.3	7.4	7.4	0.02	0.02	41	41	103.5	103.1	8.2	8.2	2.7	2.8	0.5	0.5
TOW-WQIVISA	Suring	IVA	13.06	2nd	27.3	21.5	7.4	7.4	0.02	0.02	40	41	102.6	103.1	8.1	0.2	2.8	2.0	0.5	0.5
TCW-WQM6	Sunny	NA	10:57	1st	27.2	27.2	7.3	7.3	0.03	0.03	64	64	87.4	87.6	6.9	7.0	3.9	3.9	1.3	1.4
TCVV-VVQIVIO	Suring	IVA	10.57	2nd	27.2	21.2	7.3	7.3	0.03	0.03	64	04	87.7	67.0	7.0	7.0	3.8	3.9	1.4	1.4
TCW-WQM7	Sunny	NA	11:11	1st	29.7	29.7	9.5	9.5	0.06	0.06	127	127	74.7	73.8	5.7	5.6	354.0	352.0	227.0	222.0
1000-00 QIVI7	Juliny	IVA	11.11	2nd	29.7	23.1	9.5	3.5	0.06	0.00	127	121	72.8	73.0	5.5	3.0	350.0	332.0	217.0	222.0

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

NA: This monitoring location is not subject to tidal effect.

Water Quality Monitoring Results on 05 September 2025 during Ebb Tide

Monitoring Station	Weather	Tidal Condition	Sampling	Replicate		mperature °C)	р	Н	Salinit	y (ppt)		uctivity /cm)	DO Satur	ration (%)	Dissolved (mg		Turbidi	ty(NTU)		led Solids g/L)
3	Condition		Time		Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
TCW-WQM1	Sunny	Rough	11:21	1st	30.4	30.5	8.5	8.6	16.49	16.57	27000	27100	98.0	95.7	6.7	6.6	6.1	6.1	2.9	3.0
TCVV-VVQIVIT	Suring	Kougii	11.21	2nd	30.5	30.5	8.6	0.0	16.64	10.57	27200	27100	93.4	93.7	6.4	0.0	6.1	0.1	3.1	3.0
TCW-WQM2	Sunny	NA	12:17	1st	28.9	28.9	7.3	7.3	0.02	0.02	43	43	81.8	80.8	6.3	6.2	2.8	3.0	0.7	0.7
TCVV-VVQIVIZ	Suring	INA	12.17	2nd	28.9	20.9	7.3	7.3	0.02	0.02	43	43	79.7	00.0	6.1	0.2	3.1	3.0	0.7	0.7
TCW-WQM3A	Sunny	NA	12:36	1st	27.9	27.9	7.4	7.4	0.03	0.03	61	- 60	96.4	96.2	7.6	7.6	4.2	4.3	1.3	1.3
TOW-WQIVISA	Suring	INA	12.30	2nd	27.8	27.9	7.4	7.4	0.03	0.03	59	00	96.0	90.2	7.5	7.0	4.3	4.3	1.2	1.3
TCW-WQM4	Sunny	NA	13:16	1st	27.5	27.5	6.5	6.5	0.02	0.02	49	49	65.0	66.6	5.1	5.3	2.4	2.5	0.6	0.6
TCVV-VVQIVI4	Suring	INA	13.10	2nd	27.5	21.5	6.5	0.5	0.02	0.02	48	49	68.2	00.0	5.4	5.5	2.5	2.0	0.5	0.0
TCW-WQM5A	Sunny	NA	13:32	1st	27.8	27.8	7.3	7.3	0.02	0.02	41	41	100.4	100.6	7.9	7.9	3.3	3.3	<0.5	- <0.5
TCVV-VVQIVISA	Suring	INA	13.32	2nd	27.8	21.0	7.3	7.3	0.02	0.02	41	41	100.7	100.6	7.9	7.9	3.3	3.3	<0.5	<0.5
TCW-WQM6	Sunny	NA	11:56	1st	28.0	28.0	7.0	7.0	0.03	0.03	58	- 58	90.4	90.7	7.1	7.1	3.0	3.1	1.3	1.5
1 CVV-VV QIVIO	Suring	INA	11.50	2nd	28.0	20.0	7.0	7.0	0.03	0.03	58	- 36	91.0	90.7	7.1	7.1	3.1	3.1	1.7	1.5
TCW-WQM7	Sunny	NA	11:45	1st	31.0	31.1	9.5	9.5	0.07	0.07	153	153	95.4	95.5	7.1	7.1	4.9	4.9	10.7	<u>11.1</u>
10002000007	Guilly	INA	11.45	2nd	31.1	31.1	9.5	3.5	0.07	0.07	153	100	95.6	33.3	7.1	7.1	4.9	7.9	11.5	11.1

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

NA: This monitoring location is not subject to tidal effect.

Water Quality Monitoring Results on 10 September 2025 during Ebb Tide

Monitoring Station	Weather	Tidal Condition	Sampling	Replicate	Water Te	mperature °C)	р		Salinit	ty (ppt)		uctivity /cm)	DO Satur	ation (%)	Dissolved (mg		Turbidi	ty(NTU)		ded Solids ig/L)
3	Condition		Time		Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
TCW-WQM1	Cloudy	Rough	15:30	1st	29.0	29.1	8.0	8.0	21.17	21.16	33800	33800	57.6	57.5	3.9	3.9	18.8	18.9	27.0	<u> 26.5</u>
TCVV-VVQIVIT	Cloudy	Rough	15.50	2nd	29.1	29.1	8.0	6.0	21.15	21.10	33800	33600	57.4	57.5	3.9	3.9	19.0	10.9	26.0	20.5
TCW-WQM2	Cloudy	NA	14:43	1st	26.9	26.9	6.4	6.4	0.03	0.03	64	64	87.7	86.2	7.0	6.9	30.3	20.0	17.0	17.2
TCVV-VVQIVIZ	Cloudy	INA	14.43	2nd	26.9	20.9	6.5	0.4	0.03	0.03	64	04	84.7	00.2	6.8	0.9	29.7	30.0	17.3	<u>17.2</u>
TCW-WQM3A	Claudy	NA	14:10	1st	27.0	27.0	6.4	6.4	0.03	0.03	77	77	85.1	84.6	6.8	6.8	45.0	42.0	24.1	22.5
TCVV-VVQIVI3A	Cloudy	INA	14:10	2nd	27.0	27.0	6.4	0.4	0.03	0.03	76	11	84.0	84.0	6.7	0.8	42.5	43.8	22.9	<u>23.5</u>
TCW-WQM4	Rainy	NA	13:16	1st	26.7	26.7	5.9	5.9	0.02	0.02	45	45	86.4	83.1	6.9	6.7	2.5	2.5	0.6	0.7
TCVV-VVQIVI4	Rainy	INA	13:10	2nd	26.6	20.7	5.8	5.9	0.02	0.02	45	45	79.8	63.1	6.4	0.7	2.5	2.5	0.7	0.7
TCW-WQM5A	Dainu	NIA	13:39	1st	26.8	26.8	5.7	5.7	0.02	0.02	41	41	100.3	100.2	8.0	8.0	4.2	4.3	0.8	0.8
TCVV-VVQIVIDA	Rainy	NA	13:39	2nd	26.8	20.8	5.7	5.7	0.02	0.02	41	41	100.0	100.2	8.0	8.0	4.3	4.3	0.8	0.8
TCW-WQM6	Clavely	NA	15:19	1st	26.7	26.6	7.1	7.1	0.03	0.03	74	74	90.8	91.0	7.3	7.3	34.6	24.6	22.0	22.0
TCVV-VVQIVIO	Cloudy	INA	15:19	2nd	26.6	20.0	7.1	7.1	0.03	0.03	74	74	91.1	91.0	7.3	1.3	34.6	34.6	23.8	22.9
TCW-WQM7	Cloudy	NA	15:07	1st	27.3	27.3	9.0	9.0	0.05	0.05	110	110	93.9	94.1	7.5	7.5	37.3	26.7	26.3	25.5
1 CVV-VVQIVI7	Cloudy	INA	15.07	2nd	27.3	21.3	9.0	9.0	0.05	0.05	110	110	94.3	94.1	7.5	7.5	36.1	<u>36.7</u>	24.7	<u>25.5</u>

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

NA: This monitoring location is not subject to tidal effect.

Water Quality Monitoring Results on 12 September 2025 during Ebb Tide

Monitoring Station	Weather	Tidal Condition	Sampling	Replicate	Water Te	mperature °C)	р		Salinit	y (ppt)		uctivity /cm)	DO Satur	ration (%)	Dissolved (mg		Turbidit	ty(NTU)		led Solids g/L)
	Condition		Time		Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
TCW-WQM1	Cuppy	Dough	15:28	1st	31.2	31.1	7.9	7.9	11.72	11.86	19700	19950	111.3	111.8	7.7	7.8	11.3	11.7	11.9	0.7
TCVV-VVQIVIT	Sunny	Rough	15.20	2nd	31.0	31.1	7.9	7.9	12.00	11.00	20200	19950	112.2	111.0	7.8	7.0	12.0	11.7	7.4	<u>9.7</u>
TOWNSMO	0	NA	44.00	1st	28.8	00.0	6.0	0.0	0.02	0.00	43	40	78.1	74.0	6.0	F 7	1.6	4.7	1.2	1.1
TCW-WQM2	Sunny	NA	14:00	2nd	28.8	28.8	5.9	6.0	0.02	0.02	43	43	70.2	74.2	5.4	5.7	1.7	1.7	1.0	1.1
TOW MONTO A	-		40.00	1st	28.1	00.4	6.1	0.4	0.03	0.00	61	0.4	88.2	00.0	6.9	0.0	1.9	4.0	1.5	4.5
TCW-WQM3A	Sunny	NA	13:38	2nd	28.1	28.1	6.2	6.1	0.03	0.03	61	61	88.2	88.2	6.9	6.9	1.9	1.9	1.5	1.5
TOWNSMA			10.50	1st	26.6	00.0	5.6	5.0	0.02	0.00	39		66.1	00.7	5.3	5.4	1.4	4.0	<0.5	.0.5
TCW-WQM4	Sunny	NA	12:53	2nd	26.6	26.6	5.6	5.6	0.02	0.02	39	39	61.3	63.7	4.9	5.1	1.2	1.3	<0.5	<0.5
TOWNSALA	0	NIA	40.00	1st	28.0	00.0	5.8	5.0	0.01	0.04	35	25	101.3	404.4	7.9	7.0	2.1	0.0	0.8	0.0
TCW-WQM5A	Sunny	NA	13:20	2nd	28.0	28.0	5.7	5.8	0.01	0.01	35	35	101.4	101.4	7.9	7.9	1.9	2.0	1.0	0.9
TOWN MONAC	0	NIA	44.40	1st	28.6	00.0	7.0	0.0	0.02	0.00	55	50	87.5	07.4	6.8	0.0	2.0	0.4	1.2	4.0
TCW-WQM6	Sunny	NA	14:46	2nd	28.6	28.6	6.9	6.9	0.02	0.02	56	- 56	87.2	87.4	6.8	6.8	2.1	2.1	1.4	1.3
TCW-WQM7	Cuppy	NIA	14.15	1st	29.9	29.9	8.1	0.1	0.05	0.05	105	104	71.5	70.8	5.4	5.4	7.4	7.4	2.4	3.0
1 CVV-VVQIVI7	Sunny	NA	14:15	2nd	29.9	29.9	8.2	8.1	0.05	0.05	103	104	70.1	70.8	5.3	5.4	7.4	7.4	3.6	3.0

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

NA: This monitoring location is not subject to tidal effect.

Water Quality Monitoring Results on 15 September 2025 during Ebb Tide

Monitoring Station	Weather	Tidal Condition	Sampling	Replicate	Water Te	mperature °C)	р		Salinit	y (ppt)	Condo (µS	uctivity /cm)	DO Satur	ration (%)	Dissolved (mg	d Oxygen g/L)	Turbidi	ty(NTU)		led Solids g/L)
	Condition		Time		Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
TCW-WQM1	Cuppy	Bough	08:38	1st	27.9	28.0	7.5	7.5	14.61	14.89	24100	24500	39.8	39.2	2.9	2.9	4.2	4.5	2.0	2.0
TCVV-VVQIVIT	Sunny	Rough	00.36	2nd	28.0	20.0	7.5	7.5	15.16	14.09	24900	24300	38.6	39.2	2.8	2.9	4.7	4.5	1.9	2.0
TCW-WQM2	Cuppy	NA	09:33	1st	26.7	26.7	6.1	6.1	0.02	0.02	44	44	76.5	75.9	6.1	6.1	2.1	2.3	1.1	1.2
TCVV-VVQIVIZ	Sunny	INA	09.33	2nd	26.6	20.7	6.1	0.1	0.02	0.02	44	44	75.3	75.9	6.0	0.1	2.4	2.3	1.3	1.2
TCW-WQM3A	Common	NIA	00.50	1st	26.6	26.6	6.6	6.6	0.03	0.03	62	- 62	93.6	93.4	7.5	7.5	2.0	2.0	1.2	1.3
TCVV-VVQIVISA	Sunny	NA	09:50	2nd	26.5	20.0	6.5	0.0	0.03	0.03	61	02	93.1	93.4	7.5	7.5	2.0	2.0	1.3	1.3
TOW WOMA	Common	NA	10:21	1st	26.4	26.4	5.5	5.5	0.02	0.02	40	40	55.0	54.8	4.4	4.4	3.3	3.5	<0.5	- <0.5
TCW-WQM4	Sunny	INA INA	10:21	2nd	26.4	20.4	5.5	5.5	0.02	0.02	40	40	54.6	54.8	4.4	4.4	3.7	3.5	<0.5	<0.5
TCW-WQM5A	Common	NIA	10.20	1st	26.4	26.4	6.2	6.4	0.01	0.01	35	35	100.1	100.1	8.1	0.4	1.3	1.4	0.7	- 0.7
TCVV-VVQIVIDA	Sunny	NA	10:38	2nd	26.4	20.4	6.1	6.1	0.01	0.01	35	35	100.0	100.1	8.1	8.1	1.4	1.4	0.6	0.7
TCW-WQM6	Common	NA	09:12	1st	25.7	25.7	6.5	6.4	0.02	0.02	52	- 52	95.4	95.3	7.8	7.8	1.9	1.8	1.1	1.1
1 CVV-VVQIVIO	Sunny	INA INA	09:12	2nd	25.7	25.7	6.4	0.4	0.02	0.02	52	52	95.1	95.3	7.8	7.8	1.7	1.8	1.1	1.1
TCW-WQM7	Cuppy	NA	08:57	1st	27.0	27.0	8.1	8.1	0.07	0.07	147	144	78.9	78.2	6.3	6.3	5.2	5.4	4.2	4.2
1 CVV-VVQIVI7	Sunny	INA	00.57	2nd	27.0	21.0	8.1	0.1	0.07	0.07	140	144	77.5	10.2	6.2	0.3	5.6	J.4	4.2	4.2

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

NA: This monitoring location is not subject to tidal effect.

Water Quality Monitoring Results on 17 September 2025 during Ebb Tide

Monitoring Station	Weather	Tidal Condition	Sampling	Replicate		mperature C)	р	Н	Salinit	y (ppt)	Condi (µS	uctivity /cm)	DO Satur	ration (%)	Dissolved (mg	d Oxygen g/L)	Turbidi	ty(NTU)		led Solids g/L)
g c.a	Condition		Time	. topiloato	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
TOWN MODAL	Common	Davish	09:05	1st	28.7	28.7	7.9	7.9	17.40	17.39	28300	28250	72.3	71.5	5.1	5.1	3.7	3.8	1.8	1.8
TCW-WQM1	Sunny	Rough	09.05	2nd	28.8	20.7	7.9	7.9	17.37	17.39	28200	20250	70.7	71.5	5.0	5.1	3.8	3.0	1.8	1.0
TOW WOMO	0	NA	40.40	1st	27.4	07.4	5.9	5.0	0.02	0.00	36	20	75.6	75.5	6.0	0.0	1.0	4.4	1.0	4.4
TCW-WQM2	Sunny	NA	10:16	2nd	27.4	27.4	5.9	5.9	0.02	0.02	36	- 36	75.4	75.5	6.0	6.0	1.1	1.1	1.1	1.1
TOWNS	0		10.10	1st	27.7	07.7	6.8	0.0	0.03	0.00	62	00	94.4	00.0	7.4	7.4	2.7	0.0	1.7	1.0
TCW-WQM3A	Sunny	NA	10:43	2nd	27.7	27.7	6.8	6.8	0.03	0.03	61	62	93.1	93.8	7.3	7.4	2.8	2.8	1.5	1.6
				1st	27.0	00.0	5.6		0.02		41		68.4	07.0	5.5		3.4	0.5	<0.5	1
TCW-WQM4	Sunny	NA	11:17	2nd	26.8	26.9	5.4	5.5	0.02	0.02	39	40	66.2	67.3	5.3	5.4	3.6	3.5	<0.5	<0.5
TOWNSA	0		44.07	1st	28.1	00.4	6.4	0.4	0.01	0.04	35	0.5	98.3	00.4	7.7		1.2	4.0	0.6	0.0
TCW-WQM5A	Sunny	NA	11:37	2nd	28.1	28.1	6.4	6.4	0.01	0.01	35	35	98.4	98.4	7.7	7.7	1.3	1.3	0.6	0.6
TOW WOM	0	NIA	00.55	1st	26.6	00.0	6.1	0.4	0.02	0.02	53	50	94.6	04.0	7.6	7.0	1.8	4.0	1.2	4.0
TCW-WQM6	Sunny	NA	09:55	2nd	26.6	26.6	6.1	6.1	0.02	0.02	53	- 53	94.9	94.8	7.6	7.6	1.8	1.8	1.2	1.2
TOW WORK	Commi	NIA	00.44	1st	28.1	20.4	8.7	0.7	0.03	0.02	77	70	97.6	05.0	7.6	7.5	6.5	6.6	5.2	4.0
TCW-WQM7	Sunny	NA	09:44	2nd	28.2	28.1	8.7	8.7	0.03	0.03	79	- 78	94.2	95.9	7.4	7.5	6.7	6.6	4.3	4.8

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

NA: This monitoring location is not subject to tidal effect.

Water Quality Monitoring Results on 19 September 2025 during Ebb Tide

Monitoring Station	Weather	Tidal Condition	Sampling	Replicate	Water Te	mperature °C)	р		Salinit	y (ppt)	Cond (µS	uctivity /cm)	DO Satur	ation (%)	Dissolved (mg	d Oxygen g/L)	Turbidi	ty(NTU)		led Solids g/L)
	Condition		Time		Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
TCW-WQM1	Cloudy	Davish	11:07	1st	28.0	28.0	7.7	7.6	9.67	9.36	16500	16000	71.9	72.2	5.3	5.4	5.4	5.7	2.0	2.1
TCVV-VVQIVIT	Cloudy	Rough	11.07	2nd	28.0	20.0	7.6	7.0	9.05	9.30	15500	16000	72.4	12.2	5.4	5.4	5.9	5.7	2.2	2.1
TCW-WQM2	Claudy	NIA	12-01	1st	26.7	26.7	6.0	6.0	0.02	0.02	43	42	71.3	70.4	5.7	5.7	1.9	4.0	1.0	1.0
TCVV-VVQIVIZ	Cloudy	NA	12:01	2nd	26.7	20.7	6.0	6.0	0.02	0.02	43	43	69.4	70.4	5.6	5.7	1.7	1.8	1.0	1.0
TOWNSANDA	Oleveda	NIA.	40-04	1st	26.3	00.0	6.8	0.0	0.03	0.00	59	50	89.4	89.4	7.2	7.0	2.1	0.4	0.9	0.0
TCW-WQM3A	Cloudy	NA	12:21	2nd	26.3	26.3	6.8	6.8	0.03	0.03	59	- 59	89.4	89.4	7.2	7.2	2.1	2.1	0.9	0.9
TOWNORM	Oleveda	NA	40.50	1st	26.6	00.0	5.7	5.0	0.02	0.00	42	40	57.8	50.0	4.6	4.5	1.5	1.4	<0.5	-0.5
TCW-WQM4	Cloudy	INA INA	12:50	2nd	26.6	26.6	5.6	5.6	0.02	0.02	43	43	55.4	56.6	4.4	4.5	1.3	1.4	<0.5	<0.5
TCW-WQM5A	Claudy	NIA	12.07	1st	26.2	26.2	6.4	6.4	0.01	0.01	35	35	100.1	100.0	8.1	0.4	1.5	4.5	0.5	0.6
TCW-WQM5A	Cloudy	NA	13:07	2nd	26.2	20.2	6.4	6.4	0.01	0.01	35	35	99.8	100.0	8.1	8.1	1.5	1.5	0.6	0.0
TCW-WQM6	Claudy	NA	11:40	1st	26.2	26.2	6.2	6.1	0.03	0.03	58	- 58	93.0	93.2	7.5	7.5	1.7	1.7	0.9	1.1
1 CVV-VVQIVIO	Cloudy	INA INA	11:40	2nd	26.2	20.2	6.1	0.1	0.03	0.03	58	- 56	93.4	93.2	7.5	7.5	1.6	1.7	1.2	1.1
TCW-WQM7	Cloudy	NA	11:28	1st	27.4	27.4	8.7	8.7	0.09	0.09	198	196	75.1	74.7	5.9	5.9	7.4	7.8	6.8	6.6
I CVV-VVQIVI7	Cloudy	INA	11.20	2nd	27.4	21.4	8.7	0.1	0.09	0.09	193	190	74.3	14.1	5.9	5.8	8.1	7.0	6.4	0.0

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

NA: This monitoring location is not subject to tidal effect.

Water Quality Monitoring Results on 22 September 2025 during Ebb Tide

Monitoring Station	Weather	Tidal Condition	Sampling	Replicate		mperature C)	р	Н	Salinit	ty (ppt)		uctivity /cm)	DO Satu	ration (%)	Dissolved (mg		Turbidi	ty(NTU)		led Solids g/L)
	Condition		Time		Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
TOWN WORLD	Claudy	Davish	10.50	1st	26.6	26.6	7.2	7.2	0.75	0.76	1500	1520	115.4	115.2	9.2	9.2	7.7	7.8	3.3	3.5
TCW-WQM1	Cloudy	Rough	12:52	2nd	26.6	20.0	7.2	1.2	0.77	0.76	1540	1520	114.9	115.2	9.2	9.2	7.8	7.8	3.6	3.5
TOW WOMO	Claudy	NA	13:44	1st	26.5	26.5	6.1	6.1	0.02	0.02	41	44	88.8	88.5	7.1	7.1	3.7	3.7	1.2	1.3
TCW-WQM2	Cloudy	INA INA	13:44	2nd	26.5	20.5	6.1	0.1	0.02	0.02	41	41	88.2	00.5	7.1	7.1	3.6	3.7	1.4	1.3
TOW WOMON	Claudy	NA	14:10	1st	26.2	26.2	7.0	7.0	0.02	0.02	50	50	98.8	99.0	8.0	8.0	3.7	3.7	1.6	1.7
TCW-WQM3A	Cloudy	INA INA	14:10	2nd	26.2	20.2	7.0	7.0	0.02	0.02	50	50	99.1	99.0	8.0	8.0	3.7	3.7	1.8	1.7
TOWN MONA	Claudy	NIA	14.50	1st	25.8	25.0	5.9	F 0	0.01	0.04	28	- 28	73.0	71.6	5.9	5.0	1.7	4.0	0.5	0.6
TCW-WQM4	Cloudy	NA	14:50	2nd	25.9	25.8	5.8	5.9	0.01	0.01	28	20	70.1	/1.0	5.7	5.8	1.8	1.8	0.7	0.6
TOW WOMEN	Claudy	NIA	15.00	1st	26.1	26.1	6.0	6.0	0.01	0.01	32	32	96.1	95.8	7.8	7.0	3.2	3.3	1.2	4.2
TCW-WQM5A	Cloudy	NA	15:08	2nd	26.1	20.1	5.9	6.0	0.01	0.01	32	32	95.5	95.8	7.7	7.8	3.4	3.3	1.3	1.3
TCW-WQM6	Olevedie	NA	13:23	1st	26.3	26.3	6.7	6.7	0.02	0.02	47	47	95.4	95.0	7.7	7.7	4.1	4.4	2.2	2.4
TCVV-VVQIVIO	Cloudy	NA	13:23	2nd	26.3	20.3	6.6	0.7	0.02	0.02	47	47	94.6	95.0	7.6	1.1	4.1	4.1	2.6	2.4
TCW-WQM7	Cloudy	NA	13:10	1st	26.6	26.6	8.8	8.8	0.04	0.04	83	83	99.8	99.9	8.0	8.0	8.1	8.3	4.6	4.8
1 CVV-VV QIVI7	Cloudy	INA	13.10	2nd	26.6	20.0	8.9	0.0	0.04	0.04	82	03	99.9	99.9	8.0	0.0	8.4	0.3	4.9	4.0

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

NA: This monitoring location is not subject to tidal effect.

Water Quality Monitoring Results on 26 September 2025 during Ebb Tide

Monitoring Station	Weather	Tidal Condition	Sampling	Replicate	Water Te	mperature °C)	р		Salinit	y (ppt)	Cond (µS	uctivity /cm)	DO Satur	ation (%)	Dissolved (mg	d Oxygen g/L)	Turbidi	ty(NTU)		led Solids g/L)
	Condition		Time		Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
TCW-WQM1	Cuppy	Bough	14:42	1st	27.5	27.5	7.2	7.2	0.37	0.37	766	765	86.9	87.3	6.9	6.9	6.7	6.6	2.6	2.3
TCVV-VVQIVIT	Sunny	Rough	14.42	2nd	27.5	21.5	7.2	7.2	0.37	0.37	763	705	87.7	07.3	6.9	0.9	6.4	0.0	2.0	2.3
TCW-WQM2	Cuppy	NA	13:33	1st	27.1	27.1	6.0	6.0	0.02	0.02	36	36	93.3	93.4	7.4	7.4	2.1	2.2	0.5	0.6
TCVV-VVQIVIZ	Sunny	INA	13.33	2nd	27.1	27.1	6.0	0.0	0.02	0.02	36	- 30	93.5	93.4	7.4	7.4	2.2	2.2	0.7	0.6
TCW-WQM3A	Common	NA	13:13	1st	26.6	26.6	6.4	6.4	0.02	0.02	44	44	100.8	100.7	8.1	8.1	3.4	3.6	1.4	1.4
TCVV-VVQIVI3A	Sunny	INA INA	13:13	2nd	26.6	20.0	6.5	0.4	0.02	0.02	44	44	100.5	100.7	8.1	8.1	3.7	3.0	1.3	1.4
TCW-WQM4	Sunny	NA NA	12:16	1st	25.9	25.9	6.0	6.0	0.01	0.01	31	31	84.0	82.8	6.8	6.7	1.8	- 1.8	<0.5	- <0.5
TCVV-VVQIVI4	Suring	INA	12.10	2nd	25.9	25.9	6.0	6.0	0.01	0.01	31	31	81.5	02.0	6.6	0.7	1.7	1.0	<0.5	
TCW-WQM5A	Sunny	NA	12:52	1st	26.2	26.2	6.4	6.4	0.01	0.01	32	- 32	98.1	98.6	7.9	8.0	2.5	2.5	0.8	- 0.8
TCVV-VVQIVIDA	Sunny	INA INA	12:52	2nd	26.2	20.2	6.4	0.4	0.01	0.01	32	32	99.1	96.6	8.0	8.0	2.5	2.5	0.8	0.8
TCW-WQM6	Cuppy	NA	14:15	1st	26.7	26.7	6.3	6.2	0.02	0.02	49	50	94.9	94.3	7.6	7.6	2.9	2.9	1.4	1.6
1 CVV-VVQIVIO	Sunny	INA INA	14:15	2nd	26.7	20.7	6.2	0.2	0.02	0.02	50	50	93.6	94.3	7.5	7.0	2.9	2.9	1.8	1.0
TCW-WQM7	Suppl.	NA	14:00	1st	27.3	27.3	8.8	8.8	0.03	0.03	62	62	99.0	98.8	7.8	7.8	6.6	6.6	2.1	2.3
1 CVV-VVQIVI7	Sunny	INA	14.00	2nd	27.3	21.3	8.8	0.0	0.03	0.03	61	02	98.6	90.0	7.8	7.0	6.5	0.0	2.5	2.3

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

NA: This monitoring location is not subject to tidal effect.

Water Quality Monitoring Results on 29 September 2025 during Ebb Tide

Monitoring Station	Weather	Tidal Condition	Sampling	Replicate	Water Te	mperature °C)	р		Salinit	ty (ppt)		uctivity /cm)	DO Satur	ration (%)	Dissolved (mg		Turbidit	ty(NTU)		led Solids g/L)
	Condition		Time		Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
TCW-WQM1	Common	Davish	08:34	1st	26.1	26.1	7.2	7.2	3.28	3.17	6050	5845	95.5	94.8	7.6	7.6	3.4	3.5	1.4	1.6
TCVV-VVQIVIT	Sunny	Rough	06.34	2nd	26.1	20.1	7.2	1.2	3.05	3.17	5640	5045	94.0	94.0	7.5	7.0	3.5	3.5	1.7	1.0
TOWNSMO	0	NA	00.07	1st	26.4	00.4	6.2	0.4	0.02	0.00	38	00	74.7	70.0	6.0	0.0	2.1	0.0	0.8	0.7
TCW-WQM2	Sunny	NA	09:27	2nd	26.4	26.4	6.1	6.1	0.02	0.02	38	38	73.1	73.9	5.9	6.0	2.2	2.2	0.6	0.7
TOW WOMON	0		00.47	1st	25.9	05.0	6.8	0.0	0.02	0.00	45	45	102.9	400.0	8.4	0.4	2.6	0.0	1.5	1.7
TCW-WQM3A	Sunny	NA	09:47	2nd	25.8	25.9	6.8	6.8	0.02	0.02	45	45	102.3	102.6	8.3	8.4	2.5	2.6	1.8	1.7
TOWNSMA	0		10.00	1st	26.7	00.7	6.1	0.4	0.02	0.00	36	00	62.1	00.7	5.0	4.0	1.3		<0.5	.0.5
TCW-WQM4	Sunny	NA	10:32	2nd	26.7	26.7	6.1	6.1	0.02	0.02	36	36	59.2	60.7	4.7	4.9	1.4	1.4	<0.5	<0.5
TOWNSAIGN	0	NA	10.50	1st	26.2	00.0	6.0	0.0	0.01	0.04	31	0.4	96.7	00.0	7.8	7.0	2.3	0.0	0.8	0.0
TCW-WQM5A	Sunny	NA	10:50	2nd	26.3	26.2	6.0	6.0	0.01	0.01	31	31	95.9	96.3	7.8	7.8	2.2	2.3	0.7	0.8
TOWNOMS	Common	NIA	09:07	1st	25.9	25.9	7.0	7.0	0.02	0.02	47	47	77.2	77.2	6.3	6.3	2.3	2.4	0.8	1.0
TCW-WQM6	Sunny	NA	09:07	2nd	25.9	25.9	7.0	7.0	0.02	0.02	47	47	77.2	11.2	6.3	0.3	2.4	2.4	1.2	1.0
TCW-WQM7	Cuppy	NIA	08:53	1st	26.1	26.0	9.0	0.0	0.03	0.03	72	70	92.5	92.3	7.5	7.5	6.8	6.8	3.6	3.7
1 CVV-VVQIVI7	Sunny	NA	06:53	2nd	26.0	20.0	9.0	9.0	0.03	0.03	71	72	92.1	92.3	7.5	7.5	6.7	0.8	3.7	3.7

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

NA: This monitoring location is not subject to tidal effect.

### H5. Water Quality Monitoring Event and Action Plan

Table H5.1: Event and Action Plan for Construction Water Quality

Event			Action	
	ET	IEC	ER	Contractor
Action Level Exceedance for one sampling day	1. Inform IEC, Contractor and ER; 2. Check monitoring data, all plant, equipment and Contractor's working methods; and 3. Discuss remedial measures with IEC and Contractor and ER.	Discuss with ET, ER and Contractor on the implemented mitigation measures;     Review proposals on remedial measures submitted by Contractor and advise the ER accordingly; and     Review and advise the ET and ER on the effectiveness of the implemented mitigation measures.	Discuss with IEC, ET and Contractor on the implemented mitigation measures;     Make agreement on the remedial measures to be implemented;     Supervise the implementation of agreed remedial measures.	1. Identify source(s) of impact; 2. Inform the ER and confirm notification of the non-compliance in writing; 3. Rectify unacceptable practice; 4. Check all plant and equipment; 5. Consider changes of working methods; 6. Discuss with ER, ET and IEC and purpose remedial measures to IEC and ER; and 7. Implement the agreed mitigation measures.
Action Level Exceedance for more than one consecutive sampling days	Repeat in-situ measurement on next day of exceedance to confirm findings;     Inform IEC, contractor and ER;     Check monitoring data, all plant, equipment and Contractor's working methods;     Discuss remedial measures with IEC, contractor and ER     Ensure remedial measures are implemented.	1. Discuss with ET, Contractor and ER on the implemented mitigation measures; 2. Review the proposed remedial measures submitted by Contractor and advise the ER accordingly; and 3. Review and advise the ET and ER on the effectiveness of the implemented mitigation measures.	Discuss with ET, IEC and Contractor on the proposed mitigation measures;     Make agreement on the remedial measures to be implemented; and     Discuss with ET, IEC and Contractor on the effectiveness of the implemented remedial measures.	<ol> <li>Identify source(s) of impact;</li> <li>Inform the ER and confirm notification of the non-compliance in writing;</li> <li>Rectify unacceptable practice;</li> <li>Check all plant and equipment and consider changes of working methods;</li> <li>Discuss with ET, IEC and ER and submit proposal of remedial measures to ER and IEC within 3 working days of notification; and</li> <li>Implement the agreed mitigation measures.</li> </ol>

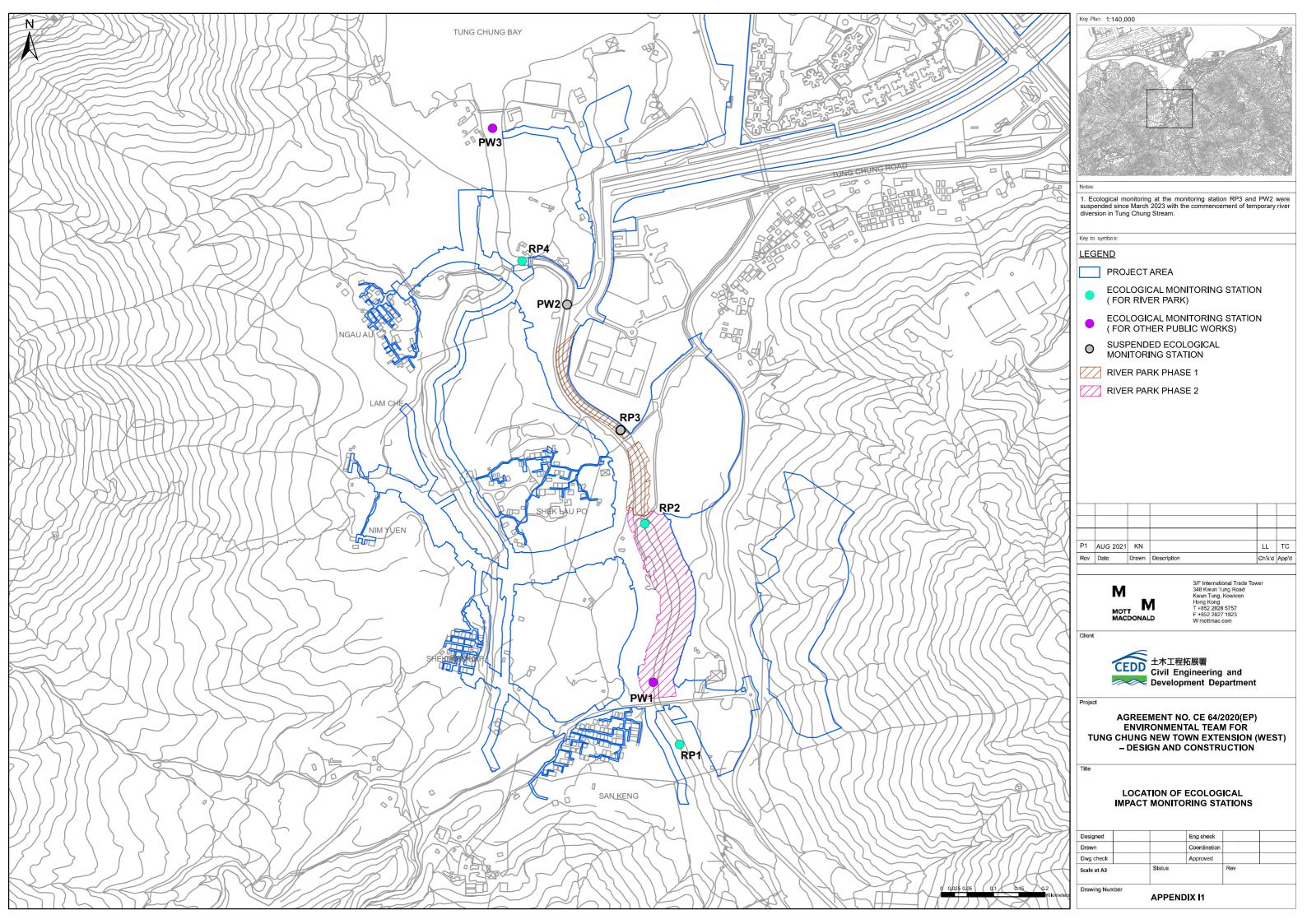
**Event** Action

	ET	IEC	ER	Contractor
Limit Level Exceedance for one sampling day	1. Repeat in-situ measurement on next day of exceedance to confirm findings; 2. Inform IEC, contractor and ER; 3. Rectify unacceptable practice; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Consider changes of working methods; 6. Discuss mitigation measures with IEC, ER and Contractor; and 7. Ensure the agreed remedial measures are implemented.	Discuss with ET, Contractor and ER on the implemented mitigation measures;     Review the proposed remedial measures submitted by Contractor and advise the ER accordingly; and     Review and advise the ET and ER on the effectiveness of the implemented mitigation measures.	Discuss with ET, IEC and Contractor on the implemented remedial measures;     Request Contractor to critically review the working methods;     Make agreement on the remedial measures to be implemented; and     Discuss with ET, IEC and Contractor on the effectiveness of the implemented remedial measures.	<ol> <li>Identify source(s) of impact;</li> <li>Inform the ER and confirm notification of the non-compliance in writing;</li> <li>Rectify unacceptable practice;</li> <li>Check all plant and equipment and consider changes of working methods;</li> <li>Discuss with ET, IEC and ER and submit proposal of additional mitigation measures to ER and IEC within 3 working days of notification; and</li> <li>Implement the agreed remedial measures.</li> </ol>
Limit Level Exceedance for more than one consecutive sampling days	1. Inform IEC, Contractor and ER; 2. Check monitoring data, all plant, equipment and Contractor's working methods; 3. Discuss mitigation measures with IEC, ER and Contractor; and 4. Ensure mitigation measures are implemented; and 5. Increase the monitoring frequency to daily until no exceedance of Limit Level for two consecutive days.	1. Discuss with ET, Contractor and ER on the implemented mitigation measures; 2. Review the proposed remedial measures submitted by Contractor and advise the ER accordingly; and 3. Review and advise the ET and ER on the effectiveness of the implemented mitigation measures.	<ol> <li>Discuss with ET, IEC and Contractor on the implemented remedial measures;</li> <li>Request Contractor to critically review the working methods;</li> <li>Make agreement on the remedial measures to be implemented;</li> <li>Discuss with ET and IEC on the effectiveness of the implemented mitigation measures; and</li> <li>Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the relevant site construction activities until no exceedance of Limit level.</li> </ol>	<ol> <li>Identify source(s) of impact;</li> <li>Inform the ER and confirm notification of the non-compliance in writing;</li> <li>Rectify unacceptable practice;</li> <li>Check all plant and equipment and consider changes of working methods;</li> <li>Discuss with ET, IEC and ER and submit proposal of additional mitigation measures to ER and IEC within 3 working days of notification; and</li> <li>Implement the agreed remedial measures.</li> <li>As directed by the ER, to slow down or stop all or part of the relevant site construction activities until no exceedance of Limit level.</li> </ol>

### I. Ecology

- **I1. Locations of Ecological Impact Monitoring Stations**
- 12. Ecologically-related Water Quality Monitoring Equipment Calibration Certificates
- 13. Representative Photos of Species Surveyed
- I4. Monthly Monitoring Data of Stream Fauna (Aquatic invertebrate) in the Reporting Period
- 15. Monthly Monitoring Data of Stream Fauna (Fish) in the Reporting Period
- I6. Event and Action Plan for Exceedance in Action and Limit Levels of Stream Fauna
- 17. Summary of Water Quality Data in the Reporting Period

# I1. Location of Ecological Impact Monitoring Stations



# I2. Ecologically-related Water Quality Monitoring Equipment Calibration Certificates



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#### REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: THOMAS CHAN WORK ORDER: HK2525676

**CLIENT:** MOTT MACDONALD HONG KONG LIMITED

ADDRESS: 3/F, MANULIFE PLACE, SUB-BATCH:

348 KWUN TONG ROAD, KWUN TONG, LABORATORY: HONG KONG

KOWLOON, HONG KONG

DATE RECEIVED: 20-Jun-2025

**DATE OF ISSUE:** 02-Jul-2025

#### **GENERAL COMMENTS**

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

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

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

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

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

#### **EQUIPMENT INFORMATION**

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

Equipment Type: Multifunctional Meter Service Nature: Performance Check

Scope: Conductivity, Dissolved Oxygen, pH Value, Turbidity, Salinity and Temperature

Brand Name/ Model No.: [HORIBA]/ [U-53]

Serial No./ Equipment No.: [X42XKBNO/4BHN08KG]/[N/A]

Date of Calibration: 26-June-2025

1:5

Ms. Lin Wai Yu, Iris

Assistant Manager - Inorganics

This report shall not be reproduced except in full without the written approval of the laboratory.

#### REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

**WORK ORDER:** HK2525676

**SUB-BATCH:** 0

**DATE OF ISSUE:** 02-Jul-2025

**CLIENT:** MOTT MACDONALD HONG KONG LIMITED

Equipment Type:

Multifunctional Meter

Brand Name/ Model No.:

[HORIBA]/[U-53]

Serial No./

[X42XKBNO/4BHN08KG]/ [N/A]

Equipment No.: Date of Calibration:

26-June-2025 Date of Next Calibration:

26-September-2025

**PARAMETERS:** 

Conductivity Method Ref: APHA (23rd edition), 2510B

Method Ref. Al TIA (2514 edition)	, 23 100	
Expected Reading (μS/cm)	Displayed Reading (μS/cm)	Tolerance (%)
146.9	155	+5.5
6667	7260	+8.9
12890	13600	+5.5
58670	59200	+0.9
	Tolerance Limit (%)	±10.0

**Dissolved Oxygen** 

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.78	2.90	+0.12
4.04	4.10	+0.06
7.16	7.23	+0.07
	Tolerance Limit (mg/L)	±0.20

pH Value

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

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)
4.0	3.85	-0.15
7.0	6.95	-0.05
10.0	9.94	-0.06
	Tolerance Limit (pH unit)	±0.20

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

Ms. Lin Wai Yu, Iris

Assistant Manager - Inorganics

#### **REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION**

**WORK ORDER:** HK2525676

**SUB-BATCH:** 0

**DATE OF ISSUE:** 02-Jul-2025

**CLIENT:** MOTT MACDONALD HONG KONG LIMITED

Equipment Type:

Multifunctional Meter

Brand Name/ Model No.:

[HORIBA]/[U-53]

Serial No./

[X42XKBNO/4BHN08KG]/[N/A]

Equipment No.: Date of Calibration:

26-June-2025

Date of Next Calibration:

26-September-2025

**PARAMETERS:** 

Turbidity Method Ref: APHA (23rd edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.27	
4	3.9	-2.5
40	41.5	+3.8
80	77.6	-3.0
400	417	+4.3
800	775	-3.1
	Tolerance Limit (%)	±10.0

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

Expected Reading (ppt)	pected Reading (ppt) Displayed Reading (ppt)			
0	0.01			
10	10.42	+4.2		
20	21.29	+6.5		
30	31.81	+6.0		
	Tolerance Limit (%)	±10.0		

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

Ms. Lin Wai Yu, Iris

Assistant Manager - Inorganics

#### **REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION**

**WORK ORDER:** HK2525676

**SUB-BATCH:** 0

**DATE OF ISSUE:** 02-Jul-2025

**CLIENT:** MOTT MACDONALD HONG KONG LIMITED

Equipment Type:

Multifunctional Meter

Brand Name/

[HORIBA]/[U-53]

Model No.: Serial No./

[X42XKBNO/4BHN08KG]/ [N/A]

Equipment No.:

Date of Calibration:

26-June-2025

Date of Next Calibration:

26-September-2025

**PARAMETERS:** 

Temperature Method Ref: Section 6 of International Accreditation New Zealand Technical

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

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
11.5	12.59	+1.1
19.0	19.69	+0.7
38.0	38.41	+0.4
	Tolerance Limit (°C)	±2.0

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

Ms. Lin Wai Yu, Iris

Assistant Manager - Inorganics

<b>I3.</b>	Representative Photos of Species Surveyed



Pseudogastromyzon myersi



Periophthalmus modestus



Rhinogobius duospilus



Zygonyx iris insignis*

I4. Monthly Monitoring Data of Stream Fauna (Aquatic invertebrate) in the Reporting Period

Relative abundance: +: Uncommon, ++: Common, +++: Abundant

Date	Sampling Point	Method	Method Scientific Name Common Name		Chinese Name	Abundance	Relative Abundance
Sep-25	RP1	Observe	Caridina cantonensis	Freshwater Shrimp	廣東米蝦		+
Sep-25	RP1	Kick	<i>Baetidae</i>	Small Minnow Mayfly	四節蜉科	3	
Sep-25	RP1	Active search	Hydropsychidae	Caddisfly	石蛾	1	
Sep-25	PW1	Observe	Caridina cantonensis	Freshwater Shrimp	廣東米蝦		+
Sep-25	PW1	Observe	Ptilomera tigrina	Water Strider	虎紋毛足澗黽蝽		+
Sep-25	PW1	Kick	Baetidae	Small Minnow Mayfly	四節蜉科	2	
Sep-25	PW1	Kick	Leptophlebiidae	Prong-gilled Mayfly	-	1	
Sep-25	RP2	Active search	Heptageniidae	-	扁蜉科	1	
Sep-25	RP2	Active search	Baetidae	Small Minnow Mayfly	四節蜉科	8	
Sep-25	RP2	Active search	Zygonyx iris insignis*	Emerald Cascader (Larva)	彩虹蜻 (稚蟲)	3	
Sep-25	RP4	Observe	Eriocheir hepuensis	Hepu Mitten Crab	合浦絨螯蟹	2	
Sep-25	RP4	Kick	Agriocnemis femina oryzae	Orange-tailed Midget (Larva)	杯斑小蟌	1	
Sep-25	RP4	Kick	Copera marginipes	Yellow Featherlegs (Larva)	黃狹扇蟌 (稚蟲)	1	
Sep-25	PW3	Active search	Amphipoda	Scud	端足類	4	
Sep-25	PW3	Active search	Parasesarma bidens	Mudflat Crab	雙齒擬相手蟹		+

### I5. Monthly Monitoring Data of Stream Fauna (Fish) in the Reporting Period

Appendix I5 Monthly Monitoring Data of Stream Fauna (Fish) in the Reporting Period

Relative abundance: +: Uncommon, ++: Common, +++ = Abundant

Date			Scientific Name	Common Name	Chinese Name	Abundance	Relative Abundance
Sep-25	RP1	Observe	Parazacco spilurus*	Predaceous Chub	異鱲		++
Sep-25	RP1	Observe	Acrossocheilus beijiangensis*	Beijiang Thick-lipped Barb	北江光唇魚		+
Sep-25	RP1	Observe	Barbodes semifasciolatus	Chinese Barb	五線無鬚舥		+
Sep-25	RP1	Observe	Xiphophorus hellerii	Swordtail	劍尾魚		+
Sep-25	RP1	Observe	Rhinogobius duospilus	-	溪吻鰕虎魚		++
Sep-25	RP1	Observe	Pseudogastromyzon myersi	Sucker-belly Loach	麥氏擬腹吸鰍		+
Sep-25	RP1	Observe	Liniparhomaloptera disparis	Broken-band Hillstream Loach	擬平鰍		++
Sep-25	RP1	Kick	Pseudogastromyzon myersi	Sucker-belly Loach	麥氏擬腹吸鰍	2	
Sep-25	PW1	Observe	Parazacco spilurus*	Predaceous Chub 異鱲 Swordtail 劍尾魚 Variable Platyfish 雜色劍尾魚 is Broken-band Hillstream Loach 擬平鰍 si Sucker-belly Loach 麥氏擬腹吸鰍 Predaceous Chub 異鱲			+++
Sep-25	PW1	Observe	Xiphophorus hellerii	Swordtail	劍尾魚		++
Sep-25	PW1	Observe	Xiphophorus variatus	Variable Platyfish	雜色劍尾魚		++
Sep-25	PW1	Observe	Liniparhomaloptera disparis	Broken-band Hillstream Loach	擬平鰍		++
Sep-25	PW1	Observe	Pseudogastromyzon myersi	Sucker-belly Loach	麥氏擬腹吸鰍		+
Sep-25	RP2	Observe	Parazacco spilurus*	Predaceous Chub	異鱲		++
Sep-25	RP2	Observe	Xiphophorus hellerii	Swordtail	劍尾魚		+++
Sep-25	RP2	Observe	Rhinogobius duospilus				+
Sep-25	RP2	Observe	Xiphophorus variatus	Variable Platyfish	雜色劍尾魚		++
Sep-25	RP4	Observe	Glossogobius giuris	Fork Tongue Goby	舌鰕虎魚		+
Sep-25	RP4	Observe	Oryzias curvinotus*	Rice Fish	弓背青鱂		++
Sep-25	RP4	Observe	Rhinogobius similis	Barcheek Goby	子陵吻鰕虎魚		+
Sep-25	RP4	Observe	Tilapia sp.	Tilapia	鯽魚		+++
Sep-25	RP4	Observe	Mugilidae	Mullet	鯔科		+++
Sep-25	PW3	Observe	Belonidae	Needlefish	鶴鱵科		+
Sep-25	PW3	Observe	Tilapia sp.	Tilapia	鯽魚		+++
Sep-25	PW3	Observe	Mugilidae	Mullet	鯔科		+++
Sep-25	PW3	Observe	Acanthopagrus latus	Yellowfin Seabream	黃鰭棘鯛		+
Sep-25	PW3	Observe	Terapon jarbua	Jarbua Terapon	細鱗鯻		+++
Sep-25	PW3	Observe	Gerres oyena	Common Silverbiddy	奧奈銀鱸		++
Sep-25	PW3	Observe	Favonigobius reichei	Indo-Pacific Tropical Sand Goby	賴氏蜂巢鰕虎魚		+
Sep-25	PW3	Observe	Periophthalmus modestus	Common Mudskipper	彈塗魚		++
Sep-25	PW3	Observe	Pseudogobius javanicus	Javanese Fatnose Goby	爪哇擬鰕虎魚		+

^{*}Acrossocheilus beijiangensis and Oryzias curvinotus are considered as species of conservation importance (Fellowes et al., 2002); Parazacco spilurus is considered as species of conservation importance (Yue & Chen, 1998)

### I6. Event and Action Plan for Exceedance in Action and Limit Levels of Stream Fauna

Event	Action						
	ET	IEC	ER	Contractor			
Action Level Exceedance	<ol> <li>Check monitoring data and confirm findings;</li> <li>Investigate the cause of the reduction if it is related to construction works;</li> <li>Immediately inform IEC, Contractor and ER;</li> <li>Discuss mitigation measures with IEC, Contractor and ER;</li> <li>Ensure mitigation measures are implemented.</li> </ol>	<ol> <li>Check monitoring data, analysis and investigation by ET;</li> <li>Review the proposed mitigation measures submitted by Contractor and advise the ER accordingly;</li> <li>Review and advise the ET and ER on the effectiveness of the mitigation measures after implementation.</li> </ol>	<ol> <li>Check the monitoring results and findings from ET and IEC;</li> <li>Discuss with ET, IEC and Contractor on the proposed mitigation measures;</li> <li>Supervise the implementation of the mitigation measures;</li> <li>Discuss with ET, IEC and Contractor on the effectiveness of the implemented mitigation measures.</li> </ol>	<ol> <li>Identify source(s) of impact;</li> <li>Inform the ER and confirm notification of the non-compliance in writing;</li> <li>Discuss with ET, IEC and ER and submit proposal of mitigation measures to ER and IEC;</li> <li>Implement the agreed mitigation measures.</li> <li>Instigate remedial action to remove or reduce source of disturbance if the cause is identified as project related.</li> </ol>			
Limit Level Exceedance	<ol> <li>Check monitoring data and confirm findings;</li> <li>Investigate the cause of the reduction if it is related to construction works;</li> <li>Immediately inform IEC, Contractor and ER;</li> <li>Discuss additional mitigation measures with IEC, Contractor and ER;</li> <li>Ensure additional mitigation measures are implemented.</li> </ol>	<ol> <li>Check monitoring data, analysis and investigation by ET;</li> <li>Discuss with ET, Contractor and ER on the additional mitigation measures implemented;</li> <li>Review the proposed additional mitigation measures submitted by Contractor and advise the ER accordingly;</li> <li>Review and advise the ET and ER on the effectiveness of the additional mitigation measures implemented</li> </ol>	<ol> <li>Check the monitoring results and findings from ET and IEC;</li> <li>Discuss with ET, IEC and Contractor on the additional mitigation measures proposed;</li> <li>Supervise the implementation of the additional mitigation measures;</li> <li>Discuss with ET, IEC and Contractor on the effectiveness of the additional mitigation measures implemented.</li> </ol>	<ol> <li>Identify source(s) of impact;</li> <li>Inform the ER and confirm notification of the non-compliance in writing;</li> <li>Discuss with ET, IEC and ER and submit proposal of additional mitigation measures to ER and IEC;</li> <li>Implement the agreed additional mitigation measures.</li> <li>Instigate additional remedial action to remove or reduce source of disturbance if the cause is identified as project related.</li> </ol>			

# I7. Summary of Water Quality Data in the Reporting Period

### Tung Chung New Town Extension (West) Ecologically-related Water Quality Monitoring Results

Reporting Month: Sep-2025

Reporting Month.	3ep-2023										
Monitoring Station		RP1		RP2		RP4		PW1		PW3	
Replicate	Unit	1	2	1	2	1	2	1	2	1	2
Sampling Time	-	09:10	09:10	10:05	10:05	10:35	10:35	09:35	09:35	11:10	11:10
Weather	-	Sunny									
Sampling Depth	m	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5
Parameter											
рН		7.7	7.6	6.9	6.9	8.1	8.2	7.1	7.1	7.1	7.2
Salinity	ppt	0.02	0.02	0.02	0.02	0.04	0.04	0.02	0.02	8.15	9.13
Temperature	°C	26.2	26.3	27.0	27.0	28.4	28.4	26.5	26.5	28.9	29.0
Turbidity	NTU	1.3	1.3	1.5	1.3	2.5	2.4	2.0	1.8	2.9	2.9
DO	mg/L	9.5	8.2	7.6	7.5	6.6	7.1	7.6	7.5	6.6	6.5
DO Saturation	%	117.8	101.4	95.7	94.5	85.3	90.9	94.7	92.7	89.8	88.7
Suspended Solids	mg/L	<0.5	<0.5	3.4	1.6	5.8	7.0	4.3	2.4	2.8	3.1
Ammonia as N	mg/L	<0.01	0.01	0.06	0.04	0.11	0.09	0.16	0.14	0.07	0.07
Total Kjeldahl Nitrogen as N	mg/L	0.06	0.08	0.14	0.14	0.24	0.26	0.24	0.25	0.24	0.21
Total Phosphorus as P	mg/L	0.01	0.01	0.03	0.03	0.03	0.03	0.04	0.04	0.02	0.03
Escherichia coli	CFU/100mL	68	76	410	370	360	330	230	220	110	120
Biochemical Oxygen Demand	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chemical Oxygen Demand	mg/L	4	4	5	5	5	5	5	4	12	12
Oil & Grease	mg/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2

Ecological Monitoring at the monitoring station RP3 and PW2 were suspended since March 2023 with the commencement of temporary river diversion in Tung Chung Stream.

# J. Preserved/Transplanted Plant Species of Conservation Importance Monitoring

- J1. Plant Species of Conservation Importance Monitoring Under Contract 5
- J2. Plant Species of Conservation Importance Monitoring Under Contract 6

# J1. Plant Species of Conservation Importance Monitoring Under Contract 5



1: T8217

2: T8217_Cross branches



3: T8217_Trunk base

4: T8231



5: T8231_Borer hole#1

6: T8231_Borer hole#2



7: T8231_Trunk base

8: U041



9: U041_Abnormal bark crack on trunk

10: U041_Abnormal bark crack on trunk_Close up



11: U041_Crack on trunk

12: U041_Crown





13: U041_Wood damage at trunk union#1

14: U041_Wood damage at trunk union#2





15: U041_Wood damage at trunk union#3

16: U042



17: U042_Wound on trunk base

18: U043



19: U043_Crack on trunk

20: U043_Crown



21: U043_Wound on trunk#1

22: U043_Wound on trunk#2



23: U043_Wound on trunk#3

24: Application of pesticide for U041



25: Adjust protection pad for U041

26: Adjust protection pad for U042

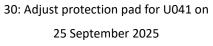


27: Adjust protection pad for U043

28: Adjust protection pad for T8231



29: Weeding work for T8217





31: Adjust protection pad for U043 on25 September 2025

#### CEDD Contract No. NL/2020/05 Tung Chung New Town Extension – Site Formation and Infrastructure Works at Ma Wan Chung

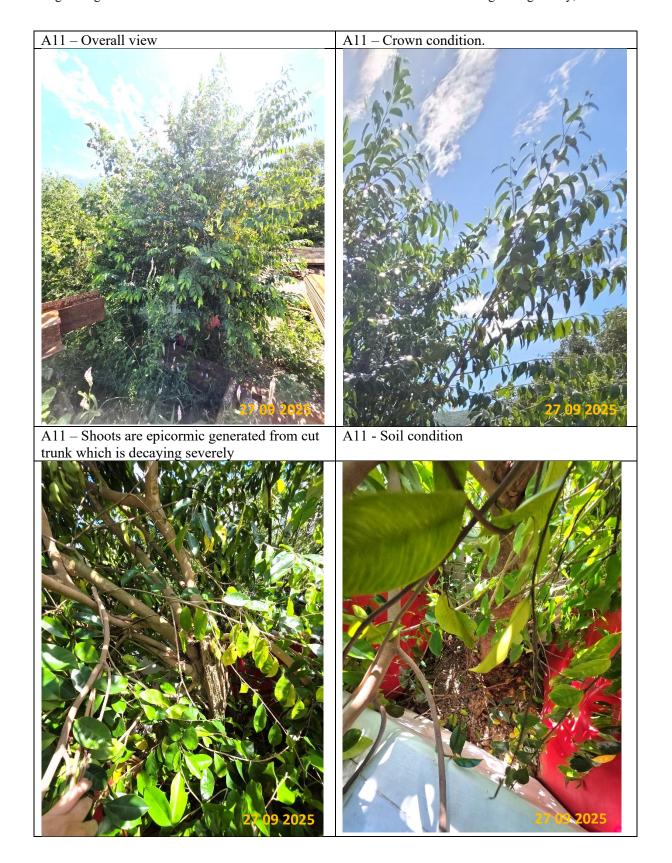
#### Tree Schedule for Survey of Plant Species of Conservation Importance

	Schedule for Survey or Plant Species of Conservation Importance													
		Species		Measurements			Amenity Value (High(H) /	Tree Condition (Good(G) / Average(A) / Poor(P))		Recommendation				
Tree No.	Scientific Name	Chinese Name	Conservation Status	Height (m)	DBH (mm)	Crown Spread (m)	Medium (M) / Low(L)	Form	Health	Structure	(Retain / Transplant / Remove)	Findings	Remark	
T8217	Canthium dicoccum	魚骨木	IUCN:VU	9	220	6	L	P	A	P	Retain	Branch failure of T8217 was found on 21 July 2025 due to Typhoon signal No. 10. Overall condition of tree and its remaining part is fair.	There is no proper and safe assess towards T8231 & T8217, thus, plastics barriers were installed in lieu of 2m high barrier. Branch failure of T8217 was found on 21 July 2025. It was identified that the fallen part was one of the branches on upper position of tree. No decay was observed on the tearing position. No other collapsed part was observed due to adverse weather during time of inspection. Overall condition of tree and its remaining part is fair. Pruning of jagged wound to provide a clean cut is recommended. The pruning work the completed on 21 July 2025. Application of insecticides and fungicides on wound was conducted to prevent infection of wound on 18 September 2025.	
T8231	Canthium dicoccum	魚骨木	IUCN:VU	7	190	6	L	Р	A	P	Retain	Second epicormic failure was found on 21 July 2025 due to Typhoon signal No. 10, Overall condition of tree and its remaining part is fair	There is no proper and safe assess towards T8231 & T8217, thus, plastics barriers were installed in lieu of 2m high barrier. Epiconmic branch failure was found on 03 May 2024. Staking to provide extra support and pruning of jagged wound to provide a clean cut was conducted on 16 May 2024. Application of insecticide and fungicide on wound was conducted on 18 September 2025, Adjustment of trunk protection pad was conducted on 18 September 2025 and 25 September 2025. The Staking was in normal condition during the time of inspection. No further significant defects were observed. Second epicormic failure was found on 21 July 2025, Overall condition of tree and its remaining part is fair. Pruning of jagged wound to provide a clean cut is recommended. Pruning works was completed on 21 July 2025.	
U041	Aquilaria sinensis	土沉香	RPPHK; Cap.586; IUCN:VU	10	318	4	М	A	P	P	Retain	No obvious old termite track was found, damage of wood tissue was observed. Peeling off of bark and sign of spili of internal wood tissue was observed. Trunk wound signficantly decayed. High trunk failure risk.	Located closed to cut slope. The crack on trunk was found slightly larger since late March 2024. Peeling of for bark and split of internal wood tissue was observed in July 2024. Abnormal bark crack was found in December 2024. Additional guying for tree no. 1041 has been installed as an enhanced stabilization measure alongside the bamboo staking in May 2025. Adjustment of guying and application of insecticide and fungicide was conducted on 18 September 2025. Adjustment of trunk protection pad was conducted on 18 September 2025 and 25 September 2025.	
U042	Gmelina chinensis	石梓	RPPHK	6	150	2	М	Α	P	A	Retain	Large wound near trunk base with wound wood development. Trunk wound is decaying.	Located closed to cut slope. Application of insecticide and fungicide as preventive measure was conducted on 18 September 2025. Adjustment of trunk protection pad was conducted on 18 September 2025 and 25 September 2025.	
U043	Aquilaria sinensis	土沉香	RPPHK; Cap.586; IUCN:VU	9	310	4	М	Α	Р	Р	Retain	Crack on trunk base. Trunk wound significantly decayed. High trunk failure risk.	Located closed to cut slope and fenced off by 2m high barrier. Application of insecticide and fungicide was conducted on 18 September 2025. Adjustment of trunk protection pad was conducted on 18 September 2025 and 25 September 2025.	

RPPHK - Species included in AFCD publication "Rare and Precious Plants of Hong Kong (2003)"

Cap.586 – Native plants listed in Protection of Endangered Species of Animals and Plants Ordinance, Cap. 586. IUCN:VU – "Vulnerable" under IUCN Red List of Threatened Species

## J2. Plant Species of Conservation Importance Monitoring Under Contract 6





### Tree Schedule for Survey of Plant Species of Conservation Importance

No.	Species		Conservatio n	Measurements		Tree Condition (Good(G) / Average(A) / Poor(P))			Recommendation (Retain / Transplant /	Findings	Remark	
	Scientific Name	Chinese name		DBH (mm)	Height (m)	Crown (m)	Form	Health	Structure	Remove)		
A9 (T7628)	Aquilaria sinensis	土沉香	RPPHK; Cap.586; IUCN:VU			-	-	-	-		-	Removed due to illegal felling on Aug 2023 (reported to police on 21 Aug 2023)
A10 (T7538)	Aquilaria sinensis	土沉香	RPPHK; Cap.586; IUCN:VU		-	-	-	-	-	-	-	Removed due to illegal felling on Aug 2023 (reported to police on 21 Aug 2023)
A11 (T7521)	Aquilaria sinensis	土沉香	RPPHK; Cap.586; IUCN:VU	190	3.5	1	Р	А	Р	Retain		Root-plate movement (mentioned in previous monitoring report). Topped tree due to illegal felling on Aug 2023 (reported to police on 21 Aug 2023). Large decaying trunk wound. Foliage density reduced after Typhoon T10 event on Sep 2025.

*Note:

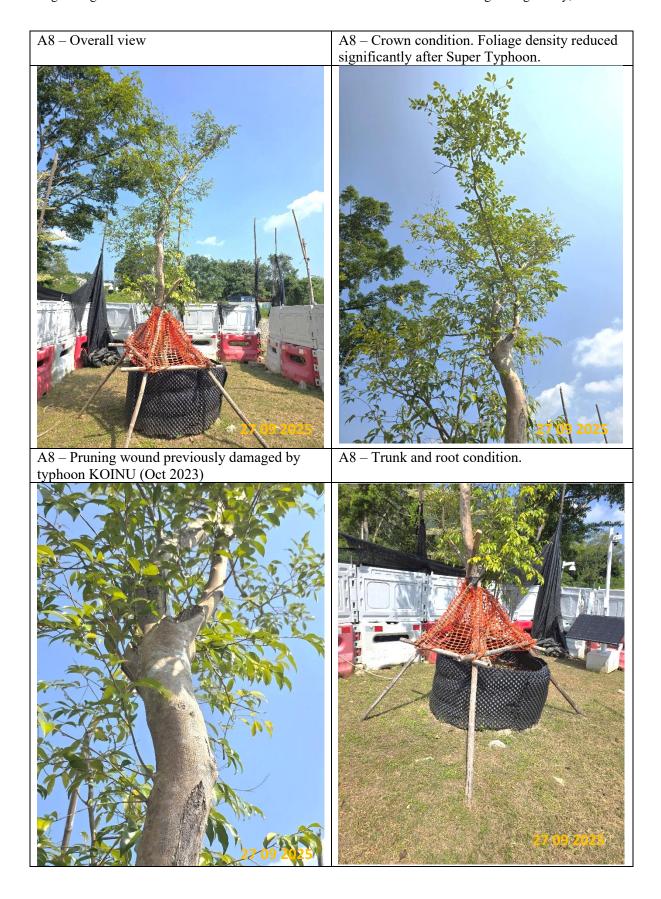
DBH refers to Trunk Diameter at Breast Height

The Tree preservation work commenced in Jul 2022

RPPHK - Species included in AFCD publication "Rare and Precious Plants of Hong Kong (2003)"

Cap.586 – Native plants listed in Protection of Endangered Species of Animals and Plants Ordinance, Cap. 586.

IUCN:VU - "Vulnerable" under IUCN Red List of Threatened Species

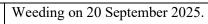








Weeding and grass cutting on 13 September 2025.





Manual watering was carried out for A8 during the reporting period. The watering frequency is one to two times per week.



Manual watering was carried out for A12 during the reporting period. The watering frequency is one to two times per week.







### Tree Schedule for Survey of Plant Species of Conservation Importance

No.	·	Species Chinase		Measurements			Tree Condition (Good(G) / Average(A) / Poor(P))			Recommendation (Retain / Transplant /	Findings	Remark
	Scientific Name	Chinese name	Status	DBH (mm)	Height (m)	Crown (m)	Form Health Structure Remo		Remove)			
A8 (T8996)	Aquilaria sinensis	土沉香	RPPHK; Cap.586; IUCN:VU	110	5	4	Р	Р	Р	Transplant	The foliage density is low and further reduced after recent inclement weather events. No obvious wound wood production. Severity of the insect feeding was low.	Trunk wounds were observed before transplant operation. Shallow root. Sudden defoliation happened in May 2023 but recovered in Aug 2023. It was translocated to the temporary holding nursery on 29 Sep 2023. A branch (5cm) was broken due to typhoon in Oct 2023. Decaying wounds and exposed dead woods on trunk.
A12 (T3537)	Aquilaria sinensis	土沉香	RPPHK; Cap.586; IUCN:VU	185	8	3	Р	Р	А	Transplant	The foliage density is low and further reduced fter recent inclement weather events. No obvious wound wood production. Severity of the insect feeding was low.	Trunk wounds were observed before transplant operation. Shallow root. Original root ball was full of stones which were removed partially during the translocation. It was translocated to the temporary holding nursery on 29 Sep 2023. It collapsed during typhoon dated Oct 2023 resulted in largely reduction in foliage density. It was slightly lean after a typhoon event dated 13-14 Nov 2024 and reinstated. Decaying wounds and exposed dead woods on trunk.

*Note:

DBH refers to Trunk Diameter at Breast Height

The Tree preservation work commenced in Jul 2022

RPPHK - Species included in AFCD publication "Rare and Precious Plants of Hong Kong (2003)"

Cap. 586 - Native plants listed in Protection of Endangered Species of Animals and Plants Ordinance, Cap. 586.

IUCN:VU - "Vulnerable" under IUCN Red List of Threatened Species

## K. Cumulative Statistics on Exceedances, Environmental Complaints, Notifications of Summons and Status of Prosecutions

**Table K.1: Cumulative Statistics on Exceedances** 

Parameter	<b>Exceedance Level</b>	Total No. Recorded in this Reporting Period ¹	Total No. Recorded since Project Commencement
Air Quality (1-hour TSP)	Action	0	0
	Limit	0	0
Noise	Action	0	30
	Limit	0	0
Water Quality	Action	0	6
	Limit	2	17
Ecology	Action	0	0
	Limit	0	1

Remark: (1) Exceedances, which are not project related, are not shown in this table.

Table K.2: Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

Contract No.	Reporting Period	Cumulative Statistics					
		Complaints	<b>Notifications of Summons</b>	Prosecutions			
Contract 5	This Reporting Period (1 – 30 Sep 2025)	3	0	0			
	Total No. Received since Project Commencement	23	0	0			
Contract 6	This Reporting Period (1 – 30 Sep 2025)	0	0	0			
	Total No. Received since Project Commencement	50	0	0			
TCW Project ¹	This Reporting Period (1 – 30 Sep 2025)	3	0	0			
	Total No. Received since Project Commencement	79	0	0			

Remark: (1) TCW Project includes both Contract 5 and Contract 6.

# L. Monitoring Schedule for the Next Reporting Period

### Oct 2025 - Impact Monitoring Schedule for Tung Chung West

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	<b>2</b> WQM (09:00)	3	<b>4</b> WQM (10:50)
5	6 DM-5, DM-6 WQM (12:15)	7	<b>8</b> WQM (13:30)	9 CA5, CA6, CA7, CA8, CA9	DM-5, DM-6 WQM (15:00)	11
12	13 WQM (08:30)	14 CA5, CA6, CA7, CA8, CA9	<b>15</b> WQM (08:30)	16 DM-5, DM-6	WQM (10:20) Ecological Monitoring	18
19	<b>20</b> WQM (12:20)	21	DM-5, DM-6 WQM (13:20)	23 CA5, CA6, CA7, CA8, CA9	<b>24</b> WQM (14:30)	25
26	<b>27</b> WQM (07:30)	28 DM-5, DM-6	29	<b>30</b> WQM (10:00)	31 CA5, CA6, CA7, CA8, CA9	
		[2] Tidal information refers [3] Indicated time is the sta	DM-6: Mok Ka  CA5: Village House ir  CA6: Village House ir  CA7: YMCA of Hong  CA8: Caritas Wu Che  CA9: Hong Chi Shiu F  ing  ing  ig is arranged at ebb tide of the  to the Chek Lap Kok East proart time of the monitoring at TO	n Ma Wan Chung (G/F) n Shek Mun Kap (G/F) Kong Christian College (Roof Floor) Pong Morninghope School (Roof e day byided by Hong Kong Observator	Floor)	nts are scheduled for the

