

JOB NO.: TCS01196/22

WSD CONTRACT No.: 7/WSD/21 -

CONSTRUCTION OF SIU HO WAN WATER TREATMENT WORKS EXTENSION AND SIU HO WAN RAW WATER BOOSTER PUMPING STATION

MONTHLY ENVIRONMENTAL MONITORING AND AUDIT REPORT – MARCH 2025

PREPARED FOR

CHINA ROAD AND BRIDGE CORPORATION

Date	Reference No.	Prepared By Tam Kok Fung, Benjamin	Tam Tak Wing
11 April 2025	TCS01196/22/600/R0115v1	36	Am
		Environmental Consultant	Environmental Team

Version	Date	Remarks
1	11 April 2025	First Submission



Water Supplies Department

New Works Branch Consultants Management Division Sha Tin Office - 6/F Sha Tin Government Offices, 1 Sheung Wo Che Road, Sha Tin, New Territories.

27/F, Overseas Trust Bank Building 160 Gloucester Road Wan Chai Hong Kong T: +852 2815 7028 F: +852 2815 5399

www.asecg.com

Attn: Mr. SY Kin Lik (SE/CM 3)

11 April 2025 By E-mail

Dear Sir,

RE: CONTRACT No. 7/WSD/21 INDEPENDENT ENVIRONMENTAL CHECKER FOR ENVIRONMENTAL MONITORING AND AUDIT FOR SIU HO WAN WATER TREATMENT WORKS EXTENSION MONTHLY ENVIRONMENTAL MONITORING AND AUDIT REPORT – MARCH 2025

I refer to the Monthly Environmental Monitoring and Audit Report - March 2025 (Report No.: TCS01196/22/600/R0115v1) received on 11 April 2024 by the Environmental Team (ET), Action-United Environmental Services & Consulting (AUES) via email. In accordance with Condition 4.4 of Environmental Permit No.EP-207/2005/A, I hereby verify the captioned report.

Yours faithfully,

For and on behalf of Allied Environmental Consultants Ltd.

Joanne NG Independent Environmental Checker

JN/tw

Action-United Environmental Services & Consulting (AUES) Attn: Mr. Ben Tam c.c. Binnies Hong Kong Limited

Attn: Mr. Alex TUNG

(By E-mail) (By E-mail)



EXECUTIVE SUMMARY

- ES.01. Water Supplies Department (WSD) is the Proponent of the Works Contract 7/WSD/21 "Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping Station" (hereinafter named as the "Works Contract"). Under this Works Contracts, the works mainly comprise of increasing the water treatment capacity of Siu Ho Wan water treatment works (SHW WTW) from 150,000m³ per day to 300,000m³ per day within the existing water treatment works compound, by constructing new water treatment facilities and a new laboratory building and modifying the existing associated facilities; and constructing a new raw water booster pumping station at Siu Ho Wan to increase the raw water transfer capacity from Tai Lam Chung Reservoir to SHW WTW.
- ES.02. According to the Environmental Impact Assessment Ordinance (EIAO), the proposed Siu Ho Wan Water Treatment Works Extension is a Designated Project under Schedule 2, which shall be implemented under the Environmental Permit EP-207/2005/A (hereinafter called the "EP"). Besides, the works for Siu Ho Wan Raw Water Booster Pumping Station is a non-designated project which mentioned in Section 1.10 of Environmental Monitoring and Audit (EM&A) Manual.
- ES.03. On 20 March 2022, *China Road and Bridge Corporation* (hereinafter called the "Main *Contractor*") awarded the *Works Contracts* 7/WSD/21. According to EM&A Manual, only air quality monitoring is required to be conducted which related to the works area under *Contracts* 7/WSD/21 during construction phase of the SHW WTW Extension. Moreover, site inspection and audit is required under the EM&A program to ensure the recommended environmental mitigation measures are implemented properly and effective.
- ES.04. The Main-*Contractor* appointed Action-United Environmental Services & Consulting (AUES) as the Environmental Team of the Project (hereinafter referred as the "ET") to implement air quality monitoring as well as associated duties in accordance with the EM&A Manual stipulation.
- ES.05. As advised by the *Contractor*, the major construction works under Works Contract was commenced on 24 May 2022. This is the **35**th Monthly EM&A Report presenting monitoring results and inspection finding for the Project for the reporting period from *1 to 31 March 2025*.

ENVIRONMENTAL MONITORING AND AUDIT ACTIVITIES

ES.06. Environmental monitoring activities under the EM&A programme for the Contract in the Reporting Month are summarized in the following table.

Issues	Environmental Monitoring Parameters / Inspection	Sessions
Air Quality	24-Hour TSP	5
Inspection /	ET Regular Environmental Site Inspection	4
Audit	Joint site audit with <i>Project Manager</i> 's Delegate and IEC	1

ACTION AND LIMIT LEVELS EXCEEDANCE

ES.07. In the Reporting Month, no air quality monitoring exceedance was recorded.

SITE INSPECTION

ES.08. In the Reporting Month, joint site inspections to evaluate the site environmental performance had been carried out by the representatives of the *PMD*, ET and the *Contractor* on *4*, *13*, *20 and 25 March 2025*. Joint site inspection with *PMD*, ET, IEC and the *Contractor* was carried out on *20 March 2025*. No non-compliance was recorded during the site inspections.

ENVIRONMENTAL COMPLAINT

ES.09. In the Reporting Month, no environmental complaint was received.



NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

ES.010. In the Reporting Month, no prosecution or notification of summons was received.

REPORTING CHANGE

ES.011. There is no reporting change made for this monthly report.

FUTURE KEY ISSUES

- ES.012. Special attention should be paid on the potential construction dust impact since most of the construction sites are adjacent to Siu Ho Wan Sewage Treatment Works. The *Contractor* should fully implement the construction dust mitigation measures as appropriately.
- ES.013. Due to wet season has approached, the Contractor was reminded that all effluent discharge shall fulfill the requirement of Discharge Licence under the Water Pollution Control Ordinance.
- ES.014. All other mitigation measures recommended in the Implementation Schedule for Environmental Mitigation Measures of the EM&A Manual should be properly implemented and maintained as far as practicable.



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1 INTRODUCTION

1.1 PROJECT BACKGROUND

- 1.1.1 Water Supplies Department (WSD) is the Proponent of the Works Contract 7/WSD/21 Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping Station (hereinafter named as the "Works Contract"). The Project works predicted by WSD will be undertaken about 34 months. Layout plan of the Project is shown in Appendix A.
- 1.1.2 According to the Environmental Impact Assessment Ordinance (EIAO), the proposed Siu Ho Wan Water Treatment Works Extension is a Designated Project under Schedule 2, which shall be implemented under the Environmental Permit EP-207/2005/A (hereinafter called the "EP"). Besides, the works for Siu Ho Wan Raw Water Booster Pumping Station is a non-designated project which mentioned in Section 1.10 of Environmental Monitoring and Audit (EM&A) Manual.
- 1.1.3 The Works Contract construction activities mainly include:
 - a. Extension of the existing Siu Ho Wan WTW within the existing Siu Ho Wan WTW compound from a capacity of 150,000 m³/day to 300,000 m³/day
 - b. Uprating of the treated/fresh water pumping capacity in the existing Siu Ho Wan Raw Water and Fresh Water Pumping Station within the existing Siu Ho Wan WTW compound from a capacity of 150,000 m³/day to 300,000 m³/day
 - c. Construction of the proposed Siu Ho Wan Raw Water Booster Pumping Station and the laying of the associated water mains
- 1.1.4 On 20 March 2022, *China Road and Bridge Corporation* (hereinafter called the "Main *Contractor*") awarded the Works Contracts 7/WSD/21. According to EM&A Manual, only air quality monitoring is required to be conducted which related to the works area under Contracts 7/WSD/21 during construction phase of the SHW WTW Extension. Moreover, site inspection and audit is required under the EM&A program to ensure the recommended environmental mitigation measures are implemented properly and effective.
- 1.1.5 The Main-Contractor appointed Action-United Environmental Services & Consulting (AUES) as the Environmental Team of the Project (hereinafter referred as the "ET") to implement air quality (baseline and impact) monitoring as well as associated duties in accordance with the EM&A Manual stipulation.
- 1.1.6 Some design changes of the Project have been identified after the EIA stage for betterment in the design development. Some of these changes requires supplementary environmental review to address their likely environmental impacts and to identify any additional mitigation measures required for compliance with the EIAO. Supplementary environmental review has been performed for the changes and the review results are presented in the "Review Report on Environmental Impact Assessment (Review Report on EIA)" prepared under "Agreement No. CE 82/2017 (WS)". Having reviewed the Review Report on EIA, no changes to the environmental monitoring requirement in the EM&A Manual are proposed for the work of SHW WTW Extension.
- 1.1.7 According to the approved EM&A Manual, only air quality is required to be monitored during the construction phase of the Project. As part of the EM&A program, baseline monitoring is required to determine the ambient environmental conditions. Pursuant to the EM&A Manual, baseline environmental monitoring is required to be conducted prior to commencement of the construction works under the Project. Baseline air quality monitoring was conducted from 8 to 21 April 2022. During the baseline monitoring period, no major construction activities under the Project was observed.
- 1.1.8 As advised by the *Contractor*, the major construction works under Works Contract was commenced on 24 May 2022. This is the 35th Monthly EM&A Report presenting monitoring results and inspection finding for the Project for the reporting period from 1 to 31 March 2025.

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1.2 REPORT STRUCTURE

1.2.1 The Monthly EM&A Report is structured into the following sections:-

Section 1	Introduction
Section 2	Project Organization and Construction Progress
Section 3	Summary of Impact Monitoring Requirements
Section 4	Air Quality Monitoring
Section 5	Waste Management
Section 6	Site Inspections
Section 7	Environmental Complaints and Non-Compliances
Section 8	Implementation Status of Mitigation Measures
Section 9	Conclusions and Recommendations



2 PROJECT ORGANISATION AND CONSTRUCTION PROGRESS

2.1 PROJECT ORGANISATION

2.1.1 The project organization is shown in *Appendix B*. The roles and responsibilities of the various parties involved in the EM&A process and the organizational structure of the organizations responsible for implementing the EM&A programme are outlined below.

Water Supplies Department (WSD)

2.1.2 WSD is the Project Proponent and the Permit Holder of the EP of the development of the Project and will assume overall responsibility for the project. An Independent Environmental Checker (IEC) shall be employed by WSD to audit the results of the EM&A works carried out by the ET.

Environmental Protection Department (EPD)

2.1.3 EPD is the statutory enforcement body for environmental protection matters in Hong Kong.

Project Manager's Delegate (*PM*D)

- 2.1.4 The *PM*D is responsible for overseeing the construction works and for ensuring that the works are undertaken by the *Contractor* in accordance with the specification and contract requirements. The duties and responsibilities of the *PD*M with respect to EM&A are:
 - Supervise the *Contractor*'s activities and ensure that the requirements in the EM&A Manual are fully complied with;
 - Inform the *Contractor* when action is required to reduce impacts in accordance with the Event and Action Plans;
 - Comply with the agreed Event Contingency Plan in the event of any exceedance.

The Contractor

- 2.1.5 The Main *Contractor* is responsible perform construction works and for ensuring that the works are undertaken compliance with the specification and contract requirements. The duties and responsibilities of the Main *Contractor* with respect to EM&A are:
 - Employ an ET to undertake monitoring, laboratory analysis and reporting of environmental monitoring and audit;
 - Provide information / advice to the ET regarding works activities which may contribute, or be continuing to the generation of adverse environmental conditions;
 - Submit proposals on mitigation measures in case of exceedances of Action and Limit levels in accordance with the Event and Action Plans;
 - Implement measures to reduce impact whenever Action and Limit levels are exceeded;
 - Implement the corrective actions instructed by *PM*D;
 - Accompany joint site audit undertaken by the ET; and
 - Adhere to the procedures for carrying out complaint investigation.

Environmental Team (ET)

- 2.1.6 The ET is responsible perform implementation EM&A programmes of the Contract Works as stipulated in the Updated EM&A Manual ensure the works are fully compliance with environmental regulations. The duties and responsibilities of the ET with respect to EM&A are:
 - Set up all the required environmental monitoring stations;
 - Monitor various environmental parameters as required in the EM&A Manual;
 - Analyze the EM&A data and review the success of EM&A programme to cost effectively confirm the adequacy of mitigation measures implemented and the validity of the EIA predictions and to identify any adverse environmental impacts arising;
 - Carry out site inspection to investigate and audit the *Contractor*'s site practice, equipment and work methodologies with respect to pollution control and environmental mitigation, and take proactive actions to pre-empt problems;
 - Audit and prepare audit reports on the environmental monitoring data and site environmental conditions;



- Report on the EM&A results to the IEC, *Contractor*, the *PMD* and EPD or its delegated representative;
- Recommend suitable mitigation measures to the *Contractor* in the case of exceedance of Action and Limit levels in accordance with the Event and Action Plans;
- Undertake regular and ad-hoc on-site audits / inspections and report to the *Contractor* and the ER of any potential non-compliance; and
- Follow up and close out non-compliance actions.

Independent Environmental Checker (IEC)

- 2.1.7 The duties and responsibilities of IEC with respect to EM&A are:
 - Review the EM&A works performed by the ET (at not less than monthly intervals);
 - Audit the monitoring activities and results (at not less than monthly intervals);
 - Report the audit results to the *PM*D and EPD in parallel;
 - Review the EM&A reports (monthly summary reports) submitted by the ET;
 - Review the proposal on mitigation measures submitted by the *Contractor* in accordance with the Event and Action Plans;
 - Check the mitigation measures submitted by the *Contractor* in accordance with the Event and Action Plans;
 - Check the mitigation measures that have been recommended in the EIA and this Manual, and ensure they are properly implemented in a timely manner, when necessary;
 - Report the findings of site inspections and other environmental performance reviews to *PM*D and EPD;
 - Coordinate the monitoring and auditing works for all the on-going contracts in the area in order to identify possible sources / causes of exceedances and recommend suitable remedial actions where appropriate; and
 - Coordinate the assessment and response to complaints / enquires from locals, green groups, district councils or the public at large.

2.2 CONSTRUCTION PROGRESS

- 2.2.1 The major construction activities conducted under the Contract in the Reporting Period are listed below. The 3-month rolling construction programme is shown in *Appendix C*.
 - External ABWF works at portion BPS-1
 - E&M works and BS installation at portion BPS-1
 - Installation of pump at portion BPS-1
 - Installation of underground earthing copper tape at portion BPS-1
 - Construction of base slab, walls, bears and columns for WTB at portion WTW-1
 - Construction of walls and columns for O&LB at portion WTW-2
 - Installation and load test of monorail at portion WTW-2
 - Installation of ventilation ductwork at Battery Room at portion WTW-2
 - Installation of pipes of lime saturator at portion WTW-4
 - Laying of DN1200 and DN 1600 RWM and Entrusted Mains at portion BPS-3

2.3 SUMMARY OF ENVIRONMENTAL PERMITS AND LICENCES

2.3.1 Summary of the relevant permits, licences, and/or notifications on environmental protection for the Project are presented in *Table 2-1*.



Table 2-1 Status of Environmental Licences and Permits of the Contract

		Licence/Permit Status			
Item	Description	Reference No./ License No./ Account No.	Approval Date	Expiry Date	Status
1	Environmental Permit	EP-207/2005/A	NA	NA	Valid
2	Air Pollution Control (Construction Dust) Regulation	Ref: 477913	23 Mar 2022	N/A	Valid
3	Waste Disposal Regulation – Billing Account for Disposal of Construction Waste	EPD Ref. No: RS02509 Acc. No.: 7043631	08 Apr 2022	N/A	Valid
4	Chemical Waste Producer Registration	5213-961-C4701-01	31 May 2023	N/A	Valid
5	Water Pollution Control Ordinance – Discharge Licence	WT00041885-2022	8 Sep 2022	30 Sep 2027	Valid
6	Construction Noise Permit	GW-RS0851-24	1 Oct 2024	31 Mar 2025	Valid



3 SUMMARY OF IMPACT MONITORING REQUIREMENTS

3.1 GENERAL

- 3.1.1 Only air quality monitoring is required to carry out related to Works contracts 7/WSD/21 during the construction phase to ensure the dust mitigation measures and performance properly implementation.
- 3.1.2 The other environmental monitoring for Works Area of Pui O was related to other Works Contracts and will be implemented by other appointed ET.
- 3.1.3 According to the Review Report on EIA, no changes to the environmental monitoring requirement in the EM&A Manual are proposed for the work of SHW WTW Extension. Air quality monitoring work will be implemented according to the EM&A Manual.

3.2 MONITORING PARAMETERS

- 3.2.1 The EM&A program of construction phase monitoring shall cover the following environmental issues:
 - Air quality;
- 3.2.2 A summary of impact monitoring parameters is presented in *Table 3-1*:

Table 3-1 Summary of Monitoring Parameters

Environmental Issue	Parameters
Air Quality	 1-hour TSP by Real-Time Portable Dust Meter(as required in case of complaints); and 24-hour TSP by High Volume Air Sampler.

3.3 MONITORING LOCATIONS

3.3.1 According to the Review Report on EIA, air quality monitoring work should be implemented according to the EM&A Manual. As stated in Section 4 of EM&A Manual, there was only one air quality monitoring station designated under SHW WTW Extension. The air quality monitoring locations is listed in *Table 3-2*.

Table 3-2 Designated Air Quality Monitoring Stations

Monitoring Station Identification No	Location	
SHWAB	Siu Ho Wan WTW Administration Building	

3.4 MONITORING FREQUENCY AND PERIOD

3.4.1 The requirements of impact monitoring are stipulated in *Sections 2.1.9* of the approved EM&A Manual and presented as follows.

Air Quality Monitoring

- 3.4.2 Frequency of impact air quality monitoring is as follows:
 - 1-hour TSP 3 times every six days (as required in case of complaints)
 - 24-hour TSP Once every 6 days during course of works.

3.5 MONITORING EQUIPMENT

Air Quality Monitoring

- 3.5.1 The 24-hour and 1-hour TSP levels shall be measured by following the standard high volume sampling method as set out in the *Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50), Appendix B*. If the ET proposes to use a direct reading dust meter to measure 1-hour TSP levels, it shall submit sufficient information to the IEC to approve.
- 3.5.2 The filter paper of 24-hour TSP measurement shall be determined by HOKLAS accredited laboratory.
- 3.5.3 All equipment to be used for air quality monitoring are listed in below table.



Table 3-3 Air Quality Monitoring Equipment

Equipment	Model	
24-Hr TSP		
High Volume Air Samular	TISCH High Volume Air Sampler, HVS Model	
High Volume Air Sampler	TE-5170*	
Calibration Kit	TISCH Model TE-5025A*	
1-Hour TSP		
	Sibata LD-3B Laser Dust monitor Particle Mass	
Portable Dust Meter	Profiler & Counter / SidePak™ Personal Aerosol	
	Monitor AM510	

^{*} Instrument was used in the Reporting Period and the calibration certificate could be referred in Appendix E.

3.6 MONITORING PROCEDURES

1-hour TSP

- 3.6.1 Operation of the 1-hour TSP meter will follow manufacturer's Operation and Service Manual.
- 3.6.2 The 1-hour TSP monitor, brand named "Sibata LD-3B Laser Dust monitor Particle Mass Profiler & Counter" is a portable, battery-operated laser photometer. The 1-hour TSP meter provides a real time 1-hour TSP measurement based on 900 light scattering. The 1-hour TSP monitor consists of the following:
 - a. A pump to draw sample aerosol through the optic chamber where TSP is measured;
 - b. A sheath air system to isolate the aerosol in the chamber to keep the optics clean for maximum reliability; and
 - c. A built-in data logger compatible with Windows based program to facilitate data collection, analysis and reporting.
- 3.6.3 The 1-hour TSP meter to be used will be within the valid period, calibrated by the manufacturer prior to purchasing. Span check and BG of the instrument will be performed before each monitoring event. A valid calibration certificate is attached in *Appendix E*.

24-hour TSP

- 3.6.4 The equipment used for 24-hour TSP measurement is the High Volume Sampler (hereinafter the "HVS") brand named TISCH, Model TE-5170 TSP High Volume Air Sampler, which complied with EPA Code of Federal Regulation, Appendix B to Part 50. The HVS consists of the following:
 - a. An anodized aluminum shelter:
 - b. A 8"x10" stainless steel filter holder;
 - c. A blower motor assembly;
 - d. A continuous flow/pressure recorder;
 - e. A motor speed-voltage control/elapsed time indicator;
 - f. A 7-day mechanical timer, and
 - g. A power supply of 220v/50 Hz
- 3.6.5 For HVS for 24-hour TSP monitoring, the HVS is mounted in a metallic cage with a top for protection and also it is sat on the existing ground or the roof of building. The flow rate of the HVS between 0.6m³/min and 1.7m³/min will be properly set in accordance with the manufacturer's instruction to within the range recommended in *EPA Code of Federal Regulation, Appendix B to Part 50*. Glass Fiber Filter 8" x 10" of TE-653 will be used for 24-Hour TSP monitoring and would be supplied by laboratory. The general procedures of sampling are described as below:-
 - A horizontal platform with appropriate support to secure the samples against gusty wind should be provided;
 - Installed with elapsed-time meter with ± 2 minutes accuracy for 24 hours operation;
 - Equipped with a timing/control device with \pm 5 minutes accuracy for 24 hours operation;
 - With flow control accuracy for ± 2.5% deviation over 24-hour sampling period;



- No two samplers should be placed less than 2 meters apart;
- The distance between the sampler and an obstacle, such as building, must be at least twice the height that the obstacle protrudes above the sample;
- A minimum of 2 meters of separation from any supporting structure, measured horizontally is required;
- Before placing any filter media at the HVS, the power supply will be checked to ensure the sampler work properly;
- The filter paper will be set to align on the screen of HVS to ensure that the gasket formed an air tight seal on the outer edges of the filter. Then filter holder frame will be tightened to the filter hold with swing bolts. The holding pressure should be sufficient to avoid air leakage at the edge.
- The mechanical timer will be set for a sampling period of 24 hours (00:00 mid-night to 00:00 mid-night next day). Information will be recorded on the field data sheet, which would be included the sampling data, starting time, the weather condition at current and the filter paper ID with the initial weight;
- After sampling, the filter paper will be collected and transfer from the filter holder of the HVS to a sealed envelope and sent to a local HOKLAS accredited laboratory for quantifying.
- 3.6.6 All the sampled 24-hour TSP filters will be kept in normal air conditioned room conditions, i.e. 70% HR (Relative Humidity) and 25°C, for six months prior to disposal.
- 3.6.7 The HVS used for 24-hour TSP monitoring will be calibrated before the commencement for sampling, and after in two months interval with the manufacturer's instruction using the NIST-certified standard calibrator (Tisch Calibration Kit Model TE-5025A) to establish a relationship between the follow recorder meter reading in cfm (cubic feet per minute) and the standard flow rate, Qstd, in m³/min. Motor brushes of HVS will be regularly replaced of about five hundred hours per time. Valid certificates of the calibration kit and HVS are attached in *Appendix E*.

3.7 DERIVATION OF ACTION/LIMIT (A/L) LEVELS

3.7.1 The baseline results form the basis for determining the environmental acceptance criteria for the impact monitoring. According to the approved Environmental Monitoring and Audit Manual, the air quality criteria were set up, namely Action and Limit levels are listed in *Tables 3-4*.

Table 3-4 Action and Limit Levels of Air Quality

Manitaning Station	Action Level (μg/m³)		Limit Level (µg/m³)	
Monitoring Station	1-hour TSP	24-hour TSP	1-hour TSP	24-hour TSP
SHWAB	291	170	500	260

3.8 METEOROLOGICAL INFORMATION

3.8.1 The meteorological information including wind direction, wind speed, humidity, rainfall, air pressure and temperature is extracted from the Chek Lap Kok Station. Meteorological data are attached in *Appendix J*.

3.9 DATA MANAGEMENT AND DATA QUALITY ASSURANCE / QUALITY CONTROL (QA/QC)

- 3.9.1 All monitoring data were handled by the ET's in-house data recording and management system.
- 3.9.2 The monitoring data recorded in the equipment were downloaded directly from the equipment at each monitoring day or after completion of baseline measurement. The downloaded monitoring data were input into a computerized database properly maintained by the ET. The laboratory results were input directly into the computerized database and checked by personnel other than those who input the data.
- 3.9.3 For monitoring parameters that require laboratory analysis, the local laboratory shall follow the QA/QC requirements as set out under the HOKLAS scheme for the relevant laboratory tests.



4 AIR QUALITY MONITORING

4.1 GENERAL

- 4.1.1 The air quality monitoring schedule is presented in *Appendix G* and the monitoring results are summarised in the following sub-sections.
- 4.1.2 In the reporting Period, no air quality complaint was received, thus no 1-hour TSP monitoring required to conduct according to *Section 2.19* of the approved EM&A Manual.

4.2 AIR MONITORING RESULTS

4.2.1 In the Reporting Period, a total of 5 events 24-hour TSP monitoring were carried out and the monitoring results are summarized in *Table 4-1*. The detailed 24-hour monitoring data are presented in *Appendix H* and the relevant graphical plots are shown in *Appendix I*.

Table 4-1 Summary of 24-hour TSP Monitoring Result – SHWAB

24-hour TSP (μg/m³)		
Date	Meas. Result	
4-Mar-25	73	
10-Mar-25	43	
15-Mar-25	52	
21-Mar-25	99	
27-Mar-25	58	
Average	65	
(Range)	(43 – 99)	

- 4.2.2 As shown in *Tables 4-1*, all the 24-hour TSP monitoring results were below the Action/Limit Levels. No Notification of Exceedance (NOE) was issued in this Reporting Period.
- 4.2.3 The meteorological data during the impact monitoring days are summarized in *Appendix J*.



5 WASTE MANAGEMENT

5.1 GENERAL WASTE MANAGEMENT

5.1.1 Waste management was carried out in accordance with the Waste Management Section in the Environmental Management Plan for the Contract.

5.2 RECORDS OF WASTE QUANTITIES

- 5.2.1 All types of waste arising from the construction works are broadly classified into the following:
 - Insert construction and demolition (C&D) material; and
 - C&D waste.
- 5.2.2 The quantities of waste for disposal in this Reporting Month under the Contract are summarised in *Tables 5-1* and *5-2* and the Waste Flow Table as shown in *Appendix K*. Whenever possible, materials were reused on-site as far as practicable.

Table 5-1 Summary of Quantities of Inert C&D Materials for the Contract

Туре	Quantity in Reporting Month	Disposal / Dumping Ground
Reused in this Contract (Inert) (in T)	0	NA
Reused in other Contracts/ Projects (Inert) (in T)	0	NA
Disposal as Public Fill (Inert) (in T)	1271.650	TM 38

Table 5-2 Summary of Quantities of C&D Wastes for the Contract

Туре	Quantity in Reporting Month	Disposal / Dumping Ground
Recycled Metal ('000kg)	0.010	NA
Recycled Paper / Cardboard Packing ('000kg)	0.255	NA
Recycled Plastic ('000kg)	0.012	NA
Chemical Wastes ('000kg)	0	NA
General Refuses (in T)	89.510	NENT



6 SITE INSPECTIONS

6.1 REQUIREMENTS

6.1.1 According to the EM&A Manual, the programme of environmental site inspection shall be formulation by ET Leader. Weekly environmental site inspections were carried out to confirm the environmental performance.

6.2 FINDINGS / DEFICIENCIES DURING THE REPORTING MONTH

- 6.2.1 In the Reporting Month, joint site inspections to evaluate the site environmental performance were carried out by the representatives of the *PMD*, ET and the *Contractor* on *4*, *13*, *20 and 25 March 2025*. Joint site inspection with *PMD*, ET, IEC and the *Contractor* was carried out on *20 March 2025*. No non-compliance was recorded.
- 6.2.2 The findings / deficiencies observed during the weekly site inspections are listed in *Table 6-1*.

Table 6-1 Site Observations for the Contract

Date	Findings / Deficiencies	Follow-Up Status
4 March 2025	The Contractor was reminded to remove stagnant water regularly to prevent mosquito breeding.	Reminder only.
13 March 2025	The Contractor was reminded to keep implementing dust control measures to reduce impact on-site.	Reminder only.
20 March 2025	The Contractor was reminded to remove stagnant water regularly to prevent mosquito breeding.	Reminder only.
25 March 2025	The Contractor was reminded to spray water at haul road to reduce dust impact.	Reminder only.



7 ENVIRONMENTAL COMPLAINTS AND NON-COMPLIANCES

7.1 Environmental Complaints, Summons and Prosecutions

- 7.1.1 There was no environmental complaint, prosecution or notification of summons received in the Reporting Month.
- 7.1.2 The statistical summary table of the environmental complaints, summons and prosecution are presented in *Tables 7-1*, 7-2 and 7-3. Detailed complaint log for the Contract is presented in *Appendix L*.

Table 7-1 Statistical Summary of Environmental Complaints

Donouting Month	Environmental Complaint Statistics			
Reporting Month	Frequency	Cumulative	Project related complaint	
24 May 2022 to 28 February 2025	0	0	0	
1 to 31 March 2025	0	0	0	

Table 7-2 Statistical Summary of Environmental Summons

Donouting Month	Environmental Summons Statistics			
Reporting Month	Frequency	Cumulative	Project related summons	
24 May 2022 to 28 February 2025	0	0	0	
1 to 31 March 2025	0	0	0	

Table 7-3 Statistical Summary of Environmental Prosecution

Danguting Month	Environmental Prosecution Statistics			
Reporting Month	Frequency	Cumulative	Project related prosecution	
24 May 2022 to 28 February 2025	0	0	0	
1 to 31 March 2025	0	0	0	



8 IMPLEMENTATION STATUS OF MITIGATION MEASURES

8.1 GENERAL REQUIREMENTS

- 8.1.1 The environmental mitigation measures recommended in the ISEMM in the EM&A Manual covered the issues of dust, noise, water, waste, land contamination and ecology and they are summarised and presented in *Appendix M*.
- 8.1.2 The Contract works under the Project shall be implementing the required environmental mitigation measures according to the EM&A Manual as subject to the site conditions. Environmental mitigation measures generally implemented by the Contract and the implementation status are shown in *Appendix M*.

8.2 TENTATIVE CONSTRUCTION ACTIVITIES IN THE COMING MONTH

- 8.2.1 According to the information provided by the *Contractor*, the major construction activities under the Contract in the coming month are listed below:
 - Construction of base slab, walls, bears and columns for WTB at portion WTW-1
 - Construction of base slab, walls, bears and columns for O&LB at portion WTW-2
 - Exterior finishing works for BPS at portion BPS-1
 - Trench excavation for RWM-2 DN1200, DN1600 & DN1800 pipe at external area of BPS
 - Construction of HV/LV cable ducts and drawpits around BPS
 - Connection Works of DN 1200 Entrusted Watermains
 - Replacement of HV switchboards (Stage B) at portion WTW-3
 - Replacement of lightings at portion WTW-3
 - Replacement of fans and air ductworks at portion WTW-3
 - Installation of pipeworks of lime saturators at portion WTW-4
 - Installation of pumps and pipeworks at portion BPS-1
 - Installation of electrical and building services at portion BPS-1
 - Installation of concealed conduits of WTB at portion WTW-1
 - Installation of concealed conduits of O&LB at portion WTW-2

8.3 KEY ISSUES FOR THE COMING MONTH

- 8.3.1 Special attention should be paid on the potential construction dust impact since most of the construction sites are adjacent to Siu Ho Wan Sewage Treatment Works. The *Contractor* should fully implement the construction dust mitigation measures as appropriately.
- 8.3.2 Due to wet season has approached, the Contractor was reminded that all effluent discharge shall fulfill the requirement of Discharge Licence under the Water Pollution Control Ordinance.
- 8.3.3 All other mitigation measures recommended in the Implementation Schedule for Environmental Mitigation Measures of the EM&A Manual should be properly implemented and maintained as far as practicable.



9 CONCLUSIONS AND RECOMMENDATIONS

9.1 CONCLUSIONS

- 9.1.1 As advised by the *Contractor*, the major construction works under Works Contract was commenced on 24 May 2022. This is the *35th* Monthly EM&A Report presenting monitoring results and inspection finding for the Project for the reporting period from *1 to 31 March2025*.
- 9.1.2 In the Reporting Period, no 24-hour TSP monitoring results triggered the Action/Limit level was recorded. No NOE or the associated corrective actions were therefore issued.
- 9.1.3 In the Reporting Month, joint site inspections to evaluate the site environmental performance had been carried out by the representatives of the *PMD*, ET and the *Contractor* on *4*, *13*, *20 and 25 March 2025*. Joint site inspection with *PMD*, ET, IEC and the *Contractor* was carried out on *20 March 2025*. No non-compliance was recorded during the site inspections.
- 9.1.4 In the Reporting Month, no environmental complaint, prosecution or notification of summons was received. In addition, no emergency event related to violation of environmental legislation for illegal dumping and landfilling was received.

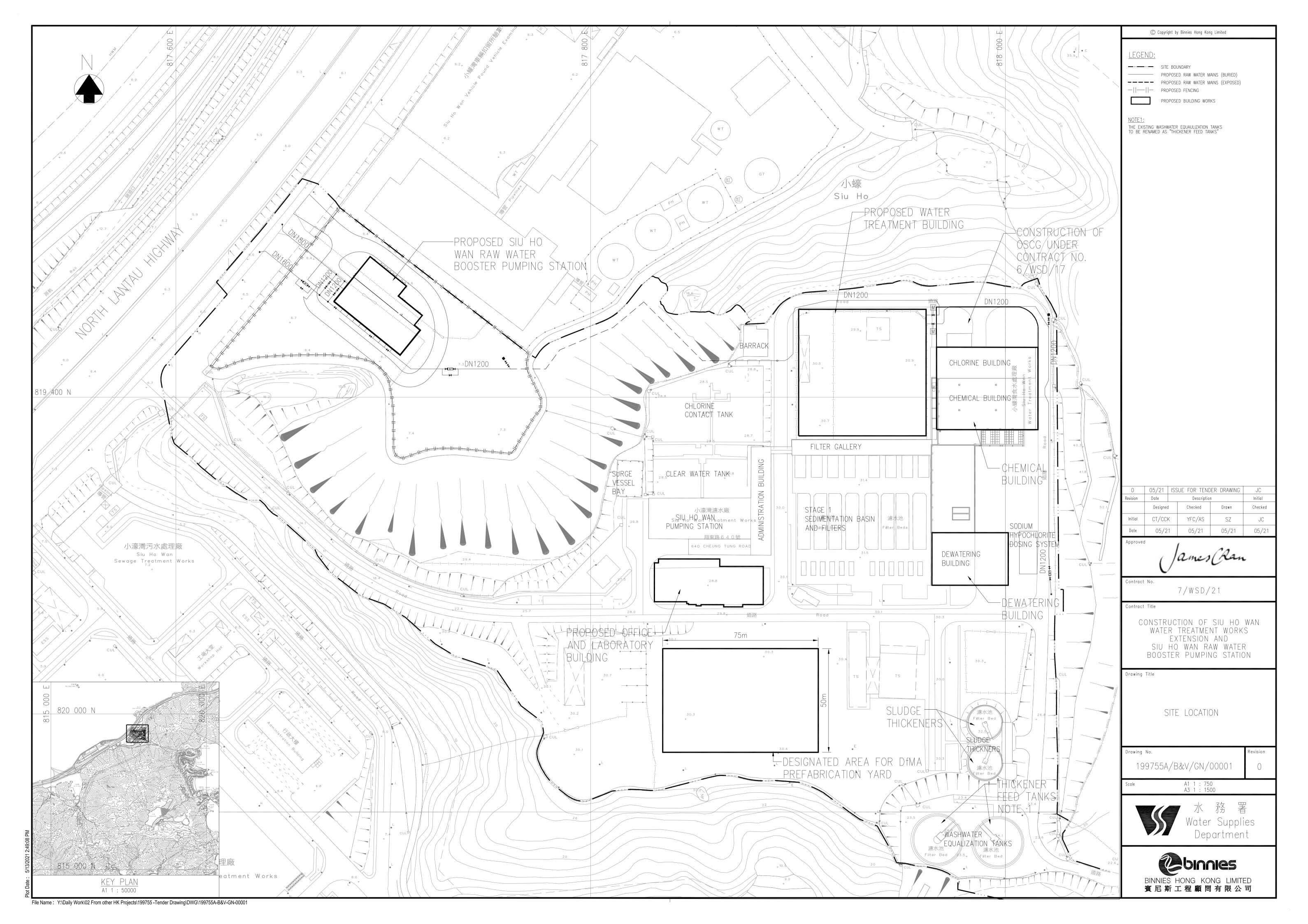
9.2 RECOMMENDATIONS

- 9.2.1 Special attention should be paid on the potential construction dust impact since most of the construction sites are adjacent to Siu Ho Wan Sewage Treatment Works. The *Contractor* should fully implement the construction dust mitigation measures as appropriately.
- 9.2.2 Due to wet season had approached, the Contractor was reminded that all effluent discharge shall fulfill the requirement of Discharge Licence under the Water Pollution Control Ordinance.
- 9.2.3 All other mitigation measures recommended in the Implementation Schedule for Environmental Mitigation Measures of the EM&A Manual should be properly implemented and maintained as far as practicable.



Appendix A

Layout Plan of the Project

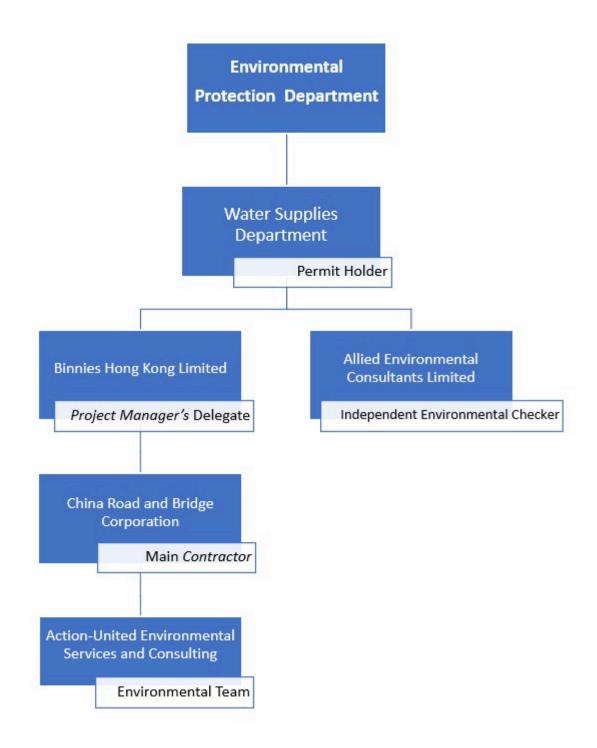




Appendix B

Project Organization







Contact Details of Key Personnel

Organisation	Project Role	Position	Name	Tel No.
	Project	Chief Resident Engineer	Mr. Gilbert Ying	6343 1027
Binnies Hong Kong		Senior Resident Engineer	Mr. Alex Tung	9080 0079
Limited	<i>Manager</i> 's Delegate	Resident Engineer	Mr. Michael Ng	9198 7268
		Assistant Resident Engineer	Mr. Joshua Tam	9769 8786
	Contractor	Site Agent	Mr. Eros To	9224 0114
China Road and		Environmental Manager	Mr. Dennis Ho	5645 0563
Bridge Corporation		Environmental Officer	Mr. KF So	6273 1608
		Environmental Supervisor	Mr. Henry Cheung	5988 6488
Allied Environmental Consultants Limited	Independent Environmental Checker	Principle Consultant	Ms. Joanne Ng	2815 7028
Action-United Environmental	Environmental Team	Environmental Team Leader	Mr. Tam Tak Wing	2959 6059
Services and Consulting		Environmental Consultant	Mr. Ben Tam	2959 6059
Consulting		Environmental Consultant	Ms. Nicola Hon	2959 6059



Appendix C

3-month Rolling Construction Programme

Contract No. 7/WSD/21 Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping Construction of Siu Ho Wan Water Treatment Works Extension & Raw Water Bo 365.0d 365.0d 29-Jan-25 A 27-Feb-26 29-Jan-25 -42.0d Defect Date for Each Section of the Works Section 3A-Entrustment Works 365.0d 365.0d 29-Jan-25 A 27-Feb-26* -42.0d 1300.0d 300.0d 21-Mar-22 A 24-Dec-25 21-Mar-22 503.0d Preliminaries, Contractor's Design, Method Statement Submission and Approval Contractor's Design Submission and Approval 1078 0d 74.0d 21-Mar-22 A 12-May-25 21-Mar-22 729.0d Contractor's Design Submission and Approval Major Permanent Works Design Major Permanent Works Design 1078.0d 74.0d 21-Mar-22 A 12-May-25 21-Mar-22 729.0d MDD3020 28-Mar-22 Design for Ozone Equipment 180.0d 30.0d 28-Mar-22 A 29-Mar-25 -32.5d MDD3025 Comments and approval of Design for Ozone Equipment 14.0d 14.0d 30-Mar-25 -32.5d 12-Apr-25 CR drawings submission for WTB 120.0d 30.0d 01-Aug-23 A 29-Mar-25 -124.5d MDD3046.5 01-Aug-23 Comments and approval of CR drawings submission for WTB 14.0d 30-Mar-25 -124.5d 0% MDD3046.6 14.0d 12-Apr-25 Design for Manufacture and Assembly(DfMA) works for E&M works 210.0d 16-May-22 52.5d MDD3065 60.0d 16-May-22 A 28-Apr-25 71.43 MDD3070 Comments and approval of MiMEP design 14.0d 14.0d 29-Apr-25 12-May-25 52.5d Design for DAF Equipment 20-Mar-24 MDD3080 90.0d 30.0d 20-Mar-24 A 29-Mar-25 -260.5d MDD3085 Comments and approval of design for DAF Equipment 60.0d 30.0d 31-Oct-22 A 29-Mar-25 31-Oct-22 -192.5d MDD3120 Design for building services (including FSD submission) 90.0d15.0d 23-May-22 A 14-Mar-25 23-May-22 -226 5d 83 33 MDD3125 Comments and approval of design for building services 14.0d 14.0d 15-Mar-25 28-Mar-25 -226.5d 88 339 MDD3126 Design for building services at the existing building 120 0d 14.0d 21-Mar-22 A 13-Mar-25 21-Mar-22 -14.5d MDD3127 Comments and approval of design for building services 14.0d 14.0d 28-Feb-25 13-Mar-25 -14.5d Comments and approval of design for SRGF Equipment MDD3135 15 0d 21-Apr-23 33 339 10.0d 21-Apr-23 A 09-Mar-25 793.0d Design for WTB POCT & IOCT Equipment MDD3150 90.0d 15.0d 31-Oct-22 A 14-Mar-25 31-Oct-22 -191.5d Comments and approval of Design for WTB POCT & IOCT Equipment MDD3155 -191 5d 28 Od 28.0d 15-Mar-25 11-Apr-25 MDD3160 09-Mar-25 31-Oct-22 Design for surge analysis system 90.0d 10.0d 31-Oct-22 A -208.5d 88.89 Comments and approval of design for surge analysis system 15.0d 10-Mar-25 -208.5d MDD3165 15.0d 24-Mar-25 Design for BACF Equipment MDD3180 90.0d 15.0d 15-Jun-22 A 14-Mar-25 15-Jun-22 774.0d Comments and approval of design for BACF Equipment 24-Oct-22 MDD3185 15.0d 10.0d 24-Oct-22 A 28-Mar-25 774.0d Design for Chemical Plants Equipment 180 Od 15.0d 19-Jul-22 A 19-Jul-22 MDD3200 14-Mar-25 -192.5d Comments and approval of design for Chemical Plants Equipment MDD3205 30.0d 30.0d 22-Mar-23 A 29-Mar-25 22-Mar-23 -12.5d MDD3320 Design for WTB Inlet Valve Chamber Equipment 90 Od 15.0d 18-Oct-22 A 14-Mar-25 18-Oct-22 -207 5d Comments and approval of design for WTB Inlet Valve Chamber Equipment -207.5d MDD3325 30.0d 30.0d 15-Mar-25 13-Apr-25 19-Mar-25 04-Jul-22 MDD3340 Design for Sampling System 90.0d 20.0d 04-Jul-22 A -103.5d Comments and approval of design for Sampling System MDD3345 -103.5d 14.0d 14.0d 20-Mar-25 02-Apr-25 Design for Service Water Equipment MDD3360 90.0d 10.0d 05-Dec-22 A 09-Mar-25 05-Dec-22 -100.5d MDD3365 Comments and approval of design for Service Water Equipment 15.0d 15.0d 10-Mar-25 24-Mar-25 -100.5d MDD3380 Design for Lamella & Supernatant Plant 90.0d 15.0d 11-Oct-22 A 14-Mar-25 11-Oct-22 -253.5d MDD3385 Comments and approval of design for Lamella & Supernatant Plant 30.0d 30.0d 15-Mar-25 -253.5d 13-Apr-25 MDD3390 Design for Lifting Appliance 120.0d 15.0d 10-Jun-22 A 14-Mar-25 10-Jun-22 -113.5d 87.5 MDD3391 Comment and approval of Lifting Appliance 15.0d 15.0d 15-Mar-25 29-Mar-25 -113.5d MDD3400 Design for Electrical system 15.0d 05-Sep-22 A 14-Mar-25 -157.5d Date Revision Checked Approved Summarv 3 Month Rolling Programme -







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Contract No. 7/WSD/21 Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping Comments and approval of design for Electrical system 40.0d 15-Sep-22 A 08-Apr-25 MDD3405 120.0d -182.5d MDD3410 Design for DCS 90.0d 15.0d 08-Sep-22 A 14-Mar-25 08-Sep-22 -212.5d MDD3415 Comments and approval of design for DCS 15.0d 15.0d 15-Mar-25 29-Mar-25 -212.5d Design for near real-time Operation Simulation System MDD3420 80.0d 15.0d 11-Jun-22 A 14-Mar-25 11-Jun-22 61.5d MDD3425 Comments and approval of design for near real-time Operation Simulation System 30.0d 30.0d 15-Mar-25 61.5d 13-Apr-25 MDD3440 Design Furniture and Testing Equipment Arrangement at Office and Laboratory Building. 90.0d 15.0d 01-Feb-23 A 14-Mar-25 01-Feb-23 -73.5d MDD3441 Comment and approval of Design Furniture and Testing Equipment Arrangement at OLB 60.0d 20.0d 17-Feb-23 A 03-Apr-25 17-Feb-23 -73.5d MDD3450 Design Building and Energy, Management system, Extra Low Voltage system and Treatment Monitoring and Alert 15.0d 01-Feb-23 A 14-Mar-25 01-Feb-23 -261.5d 90.0d MDD3451 Comment and approval of Building and Energy, Management, Extra Low Voltage and Treatment Monitoring and Alert 90.0d 35.0d 01-Feb-23 A 03-Apr-25 -261.5d Material Submission 40.0d 21-Mar-22 A 08-Apr-25 Material Submission MAT1030 Equipment Submission (E&M Equipment other than listed below) 210.0d 20.0d 05-May-22 A 19-Mar-25 05-May-22 -243.5d MAT1030.01 Equipment Submission for UPS and Battery System Manufacturer and General Technical Submission 30.0d 15.0d 05-May-22 A 14-Mar-25 05-May-22 788.0d MAT1030.02 Equipment Submission for L.V. Switchboard & MCC 30.0d 15.0d 13-May-22 A 14-Mar-25 13-May-22 788.0d Equipment Submission (Ozone System) 15.0d 05-May-22 A 14-Mar-25 -129.5d MAT1040 210.0d MAT1041 Comment and Approval of Equipment Submission (Ozone) 8.0d 8.0d 15-Mar-25 22-Mar-25 -129.5d Comment and Approval of Equipment Submission (DAF) 40.0d 29-Jul-22 A -192.5d MAT1046 08-Apr-25 MAT1050 Equipment Submission (BACF) 210.0d 25.0d 21-Mar-22 A 24-Mar-25 770.0d Comment and Approval of Equipment Submission (BACF) MAT1051 8.0d 8.0d 25-Mar-25 01-Apr-25 770.0d MAT1056 Comment and Approval of Equipment Submission (SRGF) 8.0d 8.0d 01-Aug-24 A 07-Mar-25 795.0d MAT1065 Equipment Submission (Laminar & Supernatant Plant) 210.0d 25.0d 05-May-22 A 24-Mar-25 -233.5d MAT1066 Comment and Approval of Equipment Submission (Laminar & Supernatant Plant) 8.0d 17-Mar-25 -233.5d MAT1070 Equipment Submission (Sludge Dewatering Plant) 99.0d 10.0d 24-Oct-22 A 09-Mar-25 735.0d MAT1071 Comment and Approval of Equipment Submission (Sludge Dewatering Plant) 8.0d 10-Mar-25 17-Mar-25 735.0d 300.0d 20-May-22 A 24-Dec-25 **BIM Deliverables** Fully Coordinated BIM Models 70.0d 22-Jun-22 A 08-May-25 67.5d -62.5d Shop drawings 200.0d 22-Jun-22 A 15-Sep-25 BIMD1020 Combined Service Drawing (CSD) and Combined Builder's Works Drawings (CBWD) 25.0d 24-May-22 A 24-Mar-25 24-May-22 BIMD1025 4D Modelling -162.5d 300.0d 20-May-22 A 24-Dec-25 20-May-22 BIMD1030 BIM Progress Reporting 300.0d 21-Jun-22 A 24-Dec-25 -162.5d BIMD1035 447.0d 50.0d 31-Jul-22 A 18-Apr-25 31-Jul-22 87.5d Clash report BIMD1040 3D VR 500.0d 120.0d 30-Jun-22 A 27-Jun-25 30-Jun-22 17.5d BIMD1045 Existing condition modelling 447.0d 25.0d 21-Jun-22 A 24-Mar-25 21-Jun-22 192.5d BIMD1050 447.0d 30.0d 21-Jun-22 A 29-Mar-25 187.5d 3D digital survey BIMD1060 300.0d 30-Jun-22 A 24-Dec-25 -162.5d BIMD1100 45.0d 28-Feb-25 -87.5d 13-Apr-25 BIMD1120 Diliverables for Asset Management -87.5d 0% 180.0d 14-Apr-25 10-Oct-25 BIMD1140 Draft and final report 30.0d 30.0d 28-Feb-25 29-Mar-25 107.5d BIMD1160 Digital fabrication 300.0d 24-Oct-22 A 24-Dec-25 -162.5d 57.14% Date Revision Checked Approved Summary 3 Month Rolling Programme -







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Contract No. 7/WSD/21 Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping Subcontracting and Procurement 1174.0d 195.0d 28-Mar-22 A 10-Sep-25 608.0d E&M Equipment Procurement, FAT and Delivery MTW1690 Approval of Equipment test plan 30.0d 55.0d 28-Mar-22 A 23-Apr-25 28-Mar-22 -140.5d Procurement and delivery of Pipeworks, valves, EM flowmeters, instruments 150.0d 150.0d 14-Apr-25 -207.5d 10-Sep-25 MTW1710 Procurement and delivery of POCT mixers, penstocks, stoplogs, EM flowmeters, instruments 240.0d 146.0d 25-Jun-22 A 23-Jul-25 25-Jun-22 -264.5d MTW1720 Procurement and delivery of IOCT mixers, penstocks, stoplogs, EM flowmeters, instruments 240.0d 144.0d 25-Jun-22 A 21-Jul-25 25-Jun-22 -262.5d Procurement and delivery of Ozone destruction system, pipeworks, instruments, valves 300.0d 131.0d 28-Mar-22 A 08-Jul-25 -53.5d MTW1740 Procurement and delivery of PSA sets, Ozone Generator sets, air vessels, cooling system, PSU 360.0d 109.0d 28-Mar-22 A 30-Jul-25 28-Mar-22 -129.5d Procurement and delivery of POCT ozone gas valve trains, gas ejectors, sidestream pumps 300.0d 131.0d 25-Jun-22 A 08-Jul-25 -143.5d MTW1760 Procurement and delivery of IOCT ozone gas valve trains, gas ejectors, sidestream pumps 150.0d 131.0d 25-Jun-22 A 08-Jul-25 25-Jun-22 -249.5d MTW1770 Procurement and delivery of DAF including flocculators, scrapers, mixers, recycle pump, air supply system, etc. 180.0d 30.0d 27-Jun-22 A 28-May-25 27-Jun-22 -260.5d MTW1780 Procurement and delivery of DAF drain pump, instrumentation, air dryer and weir box 160.0d 15.0d 27-Jun-22 A 20-Mar-25 27-Jun-22 -192.5d MTW1810 Procurement and delivery of Sodium Phosphate Plant 280.0d 100.0d 26-Aug-22 A 07-Jun-25 -77.5d Procurement and delivery of Ammonium Sulphate Plant MTW1820 100.0d 26-Aug-22 A 07-Jun-25 -77.5d MTW1830 Procurement and delivery of Sodium Sulphite Plant 300.0d 100.0d 26-Aug-22 A 07-Jun-25 26-Aug-22 -82.5d -103.5d Procurement and delivery of Sampling system 91.0d 91.0d 20-Mar-25 MTW1850 Procurement and delivery of Service Water System 91.0d 91.0d 15-Mar-25 13-Jun-25 -100.5d Procurement and delivery of Lamella & Supernatant Plant MTW1860 160.0d 15.0d 10-Oct-22 A 13-Apr-25 10-Oct-22 -253.5d MTW1865 Procurement and delivery of Lifting Appliance 210.0d 40.0d 25-Jun-22 A 08-Apr-25 -123.5d Procurement and delivery of Transformers MTW1870 270.0d 100.0d 04-Jan-23 A 07-Jun-25 04-Jan-23 -152.5d MTW1890 Procurement and delivery of MCCs 120.0d 25.0d 10-Oct-23 A 24-Mar-25 10-Oct-23 -167.5d MTW1900 Procurement and delivery of Other electrical equipment 180.0d 15.0d 01-May-23 A 14-Mar-25 01-May-23 -157.5d Procurement and delivery of BS equipment (MVAC, FS, P&D, BS Electrical, CCTV, PA, PV Panels, genset) 120.0d 15.0d 02-Sep-24 A 14-Mar-25 -59.5d MTW1920 Procurement and delivery of Fresh Water pump 15.0d 15-Nov-23 A 14-Mar-25 788.0d Procurement and delivery of Lime system, Polymer System, Chlorine System 93.0d 28-Feb-25 31-May-25 -256.5d Procurement and delivery of Sludge dewatering plant 160.0d 25.0d 03-Aug-22 A 06-May-25 03-Aug-22 735.0d Procurement and delivery of Control Panels, HV switchboard 150.0d 91.0d 19-Sep-24 A 29-May-25 -233.5d Procurement and delivery of DCS MTW1960 100.0d 91.0d 01-May-23 A 29-May-25 01-May-23 -246.5d Procurement and delivery of NOSS 100.0d 91.0d 21-Nov-22 A 29-May-25 -168.5d MTW2170 Procurement and delivery of UPS 100.0d 91.0d 09-Sep-24 A 29-May-25 -245.5d 715.0d Method Statement Submission and Approva Method Statement Submission and Approval for Major Construction Works Method statement submission for designing and implementing energy efficiency and optimization for BS 35.0d 28-Feb-25 03-Apr-25 -260.5d MSS2105 -260.5d Method statement comments and approval for designing and implementing energy efficiency and optimization for BS 28.0d 28.0d 04-Apr-25 01-May-25 MSS2110 Method statement submission for modification of Chlorination Building 13-Mar-25 -264.5d 14.0d 28-Feb-25 MSS2115 Method statement comments and approval for modification of Chlorination Building -264.5d 14.0d 14.0d 14-Mar-25 27-Mar-25 MSS2120 -275.5d Method statement submission for designing and implementing the proposed Near-Real-Time operation simulation 50.0d 60.0d 04-Aug-23 A 28-Apr-25 MSS2125 Method statement comments and approval for designing and implementing the proposed Near-Real-Time operation 28.0d 63.0d 28-Mar-22 A 01-May-25 -218.5d 0% 13-Apr-25 MSS2130 Method statement submission for pipe modification works 45.0d 28-Feb-25 730.0d Date Revision Checked Approved







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Contract No. 7/WSD/21 Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping MSS2135 28.0d 14-Apr-25 Method statement comments and approval for pipe modification works 11-May-25 MSS2210 Method statement submission for E&M works for water treatment building 45.0d 45.0d 28-Feb-25 -191.5d 13-Apr-25 MSS2215 Method statement comments and approval for E&M works for water treatment building 28.0d 28.0d 14-Apr-25 11-May-25 -191.5d MSS2240 Method statement submission for ABWF for water treatment building 14.0d 14.0d 28-Feb-25 13-Mar-25 -241.5d MSS2245 Method statement comments and approval for ABWF for water treatment building 14.0d 14.0d 04-Mar-25 17-Mar-25 -241.5d MSS2260 Method statement submission for ABWF for Office and Laboratory Building 45.0d 45.0d 28-Feb-25 -167.5d 13-Apr-25 MSS2265 Method statement comments and approval for ABWF for Office and Laboratory Building 28.0d 28.0d 14-Apr-25 11-May-25 -167.5d MSS2270 Method statement submission for modification of Washwater System 8.0d 24-Oct-22 A 07-Mar-25 -228.5d 14.0d MSS2275 Method statement comments and approval for modification of Washwater System 28.0d 5.0d 20-May-23 A 04-Mar-25 -233.5d MSS2280 Method statement submission for construction of flowmeter chambers 14.0d 14.0d 28-Feb-25 13-Mar-25 -260.5d MSS2285 Method statement comments and approval for construction of flowmeter chambers 14.0d 14.0d 14-Mar-25 27-Mar-25 -260.5d MSS2290 Method statement submission for equipment installation for Dewatering Building 35.0d 35.0d 28-Feb-25 03-Apr-25 49.5d MSS2295 Method statement comments and approval for equipment installation for Dewatering Building 28.0d 28.0d 04-Apr-25 01-May-25 49.5d MSS2300 Method statement submission for testing and commissioning 60.0d 28-Feb-25 28-Apr-25 -161.5d MSS2310 Method statement comments and approval for testing and commissioning 28.0d 28.0d 29-Apr-25 26-May-25 -161.5d MSS2335 Method statement submission for changeover of existing DCS installation 14.0d 30-Mar-25 -212.5d 12-Apr-25 MSS2345 Method statement comments and approval for changeover of existing DCS installation 28.0d 28.0d 13-Apr-25 10-May-25 -212.5d Method statement submission for E&M for existing building MSS2385 14.0d 28-Feb-25 13-Mar-25 -268.5d MSS2395 Method statement comments and approval for E&M for existing building 28.0d 14-Mar-25 10-Apr-25 -268.5d MSS2405 Method statement comments and approval for landscape works, irrigation system 14.0d 14.0d 28-Feb-25 13-Mar-25 -1.5d MSS2415 Method statement comments and approval for installation of vertical greening system 28.0d 28-Feb-25 27-Mar-25 -185.5d Precasting and Fabrication Works 45.0d 02-Dec-24 A 13-Apr-25 -253.5d Precasting and Fabrication Works Fabrication of DfMA units for structural elements-WTB at +50.5mPD 30.0d 02-Dec-24 A 29-Mar-25 -253.5d 25% PRE2210 DfMA delivery for WTB -253.5d 5.0d 5.0d 09-Apr-25 124.0d 24-Oct-24 A 24-Oct-24 -167.5d Section 1 of the Works 104.0d 06-Dec-24 A 08-Jul-25 -225.5d Construction of Water Treatment Building -225.5d Construction of Substructure and Superstructre Construction of Superstrucure at Bay 1&3 from +32.5 to +50.5 mPD 89.0d 06-Dec-24 A 19-Jun-25 06-Dec-24 -216.5d 136.0d Construction Wall of DAF Tank from +32.5 to +38.1mPD 65.0d 21.0d 06-Dec-24 A 24-Mar-25 -216.5d S110553 Construction of DAF Floor Slab at +39.0mPD 40.0d 40.0d 01-Mar-25 -216.5d S110554 Construction Wall of DAF from +39.0 to +43.0mPD 17.0d 04-Apr-25 -216.5d 28-Apr-25 S110555 Construction PSA room floor at +44.0mPD 42.0d 19-Jun-25 -216.5d 42.0d 29-Apr-25 76.0d 23-Jan-25 A -224.5d Construction of Superstructure at Ba Construction of Superstrucure at Bay 2&4 from +25.0 to +5.05 mPD 04-Jun-25 Construction floor of SRGF No.1-8(+29.5mPD) & wall to +29.8mPD 0.0d 23-Jan-25 A 25-Feb-25 A S110421 23-Jan-25 1009 S110422 Construction beam of SRGF tanks No.1-8(+32.0mPD)& slab at +32.5mPD 18.0d 28-Feb-25 A -224.5d 10% 20-Mar-25 S110424 Construction wall of SRGF tanks No.5-8(+32.5 to +36.2mPD) 24.0d 20-Mar-25 -224.5d 17-Apr-25 18.0d 16-Apr-25 S110425 Construction MCC room and BAC floor slab at +37.0mPD 18.0d 12-May-25 -224.5d 0% S110426 Construction wall of MCC room and BAC floor from +37.0 to +41.8mPD 20.0d 12-May-25 04-Jun-25 -224.5d Date Revision Checked Approved 3 Month Rolling Programme -







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Contract No. 7/WSD/21 Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping Construction of Superstrucure at Bay 5&6 from +29.5 to +50.5 mPD 104.0d 18-Jan-25 A 08-Jul-25 Construction wall of BAC filter tanks to +31.8mPD and Slab at +31.5mPD 15.0d 18-Jan-25 A 17-Mar-25 -225.5d 63.419 41.0d 18-Jan-25 -225.5d S110521 Construction wall of BAC filter tanks to +35.3mPD 9.0d 9.0d 21-Mar-25 31-Mar-25 18.0d 04-Apr-25 S110522 Construction tie beam at +36.0mPD and slab at +37.0mPD (BACF) 18.0d 29-Apr-25 -225.5d S110523 Construction wall to +42.8mPD (BACF) 19.0d 29-Apr-25 22-May-25 -225.5d 19.0d Construction slab +44.0mPD S110524 37.0d 37.0d 24-May-25 08-Jul-25 -225.5d Construction of Office and Laboratory Building Construction of Substructure and Superstructre Construction of Substructure and Superstructre 31.0d 06-Dec-24 A 04-Apr-25 Construction of Laboratory and Office(Grid 4-11) 31.0d 06-Dec-24 A 04-Apr-25 06-Dec-24 -195.5d Construction of Laboratory and Office(Grid 4-11) Construction of wall ,column and beam up to roof floor-East Part(Grid 5-11) 14.0d 12.0d 06-Dec-24 A 13-Mar-25 06-Dec-24 -195.5d S120170 Erection DfMA of roof floor-East Part(Grid 4-11) 5.0d 5.0d 14-Mar-25 19-Mar-25 -195.5d S120180 Construction of roof floor-East Part(Grid 4-11) 10.0d 10.0d 17-Mar-25 27-Mar-25 -195.5d S120200 Construction of wall and column up to upper roof floor-East Part(Grid 4-5) 8.0d 8.0d 21-Mar-25 29-Mar-25 -195.5d S120205 Erection DfMA of upper roof floor-East Part(Grid 4-5) -195.5d 5.0d 31-Mar-25 04-Apr-25 S120210 Construction of upper roof floor and Water Tank-East Part(Grid 4-5) 8.0d 8.0d 27-Mar-25 04-Apr-25 -195.5d Construction of Raw Water Booster Pumping Station Pipework and Modification Raw Water Main Connections at Chenung Tung Road ((RWM-1) CHC 0 to 43.6 & (RWM-2) CHD0 to 100) 167.5d ▼ Laying of Raw Water Main (RWM-2) CHD5 to 52&Chamber. Laying of Raw Water Main (RWM-2) CHD5 to 52&Chamber A 54.0d 24-Oct-24 A 09-May-25 151.0d Excavation works for RWM-2(CHD5-17) 24.0d 24.0d 28-Feb-25 27-Mar-25 -97.5d Laying of raw water main RWM-2(CH5-17) -97.5d S152181 12.0d 12.0d 28-Mar-25 11-Apr-25 S152191 Backfilling at RWM-2(CH5-17) 6.0d 12-Apr-25 22-Apr-25 -97.5d Excavation works for RWM-1(CHC 3.5-44) S152201 24.0d 15.0d 24-Oct-24 A 17-Mar-25 -78.5d S152211 Laying of raw water main RWM-1(CHC3.5-44) 12.0d 09-Nov-24 A 13-Mar-25 -75.5d S152221 Backfilling at RWM-1(CHC3.5-44) 6.0d 30-Nov-24 A 06-Mar-25 -65.5d S152230 12.0d 12.0d 10-Apr-25 26-Apr-25 -97.5d S152231 CCTV Inspection -97.5d 6.0d 6.0d 28-Apr-25 06-May-25 S152251 Preparation work for connection 8.0d 8.0d 28-Apr-25 08-May-25 -97.5d ◆ Pre-handover to WSD S152261 Pre-handover to WSD 0.0d 09-May-25 -97.5d 0.0d 31-Jul-25 Raw Water Main Connections at Chenung Tung Road(CH0-5) 86.0d 15-Apr-25 -167.5d 31-Jul-25 -167.5d Preparation works 86.0d 15-Apr-25 S151582.2 Take over from CEDD -167.5d 1.0d 15-Apr-25* 15-Apr-25 S151582.3 Application and Implementation of TTA at Cheung Tung Road(stage 4) 85.0d 16-Apr-25 31-Jul-25 -167.5d S151583 ELS and Excavation for Pipe Trench to Expose the Pipe 22-May-25 -167.5d 27.0d 16-Apr-25 Preparation of Pipe Fitter Connection 30.0d 23-May-25 27-Jun-25 -167.5d Laying of Raw Water Main (RWM-2) CHD 43.6 to 100 & Chamber B,C 114.0d 28-Feb-25 19-Jul-25 -179.5d Excavation works for laying of RWM-2 7.0d 28-Feb-25 07-Mar-25 -179.5d S151200 Laying of blinding layer 3.0d 3.0d 08-Mar-25 11-Mar-25 -179.5d S151205 Construction of valve chambers bottom slab(3 nos.) 60.0d 12-Mar-25 27-May-25 -179.5d Date Revision Checked Approved 3 Month Rolling Programme -







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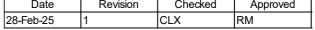
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Contract No. 7/WSD/21 Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping Data Date:28-Feb-25 Laying of Raw water main(RWM-2) CHD 43.6 to 100 50.0d 21-Mar-25 -179.5d Construction of valve Chambers B&C (2nos)+flow meter chamber(1nos.) 60.0d 60.0d 09-May-25 19-Jul-25 -252.5d 390.0d 27-Jun-22 A 24-Mar-26 Section 2 of the Works -271.5d 390.0d 27-Jun-22 A 24-Mar-26 Water Treatment Building Statutory Submission schedule GBP Submission and Approval GBP Submission and Approval 1049.0d 75.0d 29-Nov-24 A 13-May-25 29-Nov-24 -89.5d Submission/Review/Approval by PM and FSD - 4th submission (To suit DG) 45.0d 29-Nov-24 A 13-Apr-25 -89.5d S212001 4th GBP Approval from FSD 30.0d 30.0d 14-Apr-25 13-May-25 -89.5d 1072.0d 95.0d 27-Jun-22 A 02-Jun-25 -90.5d DG Application and Approval **DG Application and Approval** DG (Ozone) installation approval - dwg & layout by FSD for WTB S210060 680.0d 70.0d 27-Jun-22 A 08-May-25 -84.5d S210065 Design works and re-submission to address FSD's Comment 100.0d 70.0d 10-Jul-24 A 08-May-25 10-Jul-24 -84.5d DG application letter - DG store (Oxygen tank) for WTB -70.5d 16.0d 16.0d 14-May-25 02-Jun-25 E&M Equipment Installation 27.0d 04-Apr-25 12-May-25 -100.5d ▼ SRGE SRGF 5 Installation 27.0d 04-Apr-25 12-May-25 -100.5d ▼ SRGF 5 Installation Air Scour header, J-riser, Anchor rods, washwater trough, etc -100.5d 10.0d 04-Apr-25 16-Apr-25 S222150 Underdrain assembly and grouting 12.0d 17-Apr-25 06-May-25 -100.5d Washwater trough installation 12-May-25 -100.5d S222160 5.0d 07-May-25 27.0d 27.0d 04-Apr-25 12-May-25 -101.5d SRGF 6 Installatio Air Scour header, J-riser, Anchor rods, washwater trough, etc -101.5d S222220 10.0d 10.0d 04-Apr-25 16-Apr-25 S222230 Underdrain assembly and grouting 12.0d 17-Apr-25 06-May-25 -101.5d Washwater trough installation S222240 5.0d 5.0d 07-May-25 12-May-25 -101.5d 40.0d 14-Apr-25 -189.5d DAF I - 4 Flocculator installation 40.0d 14-Apr-25 05-Jun-25 -189.5d BACF 150.0d 04-Apr-25 -187.5d Backwash System for BACF 06-Oct-25 -187.5d 150.0d 04-Apr-25 S221330 BACF Backwash Tank Penstock installation and testing 60.0d 04-Apr-25 20-Jun-25 -146.5d -187.5d S221340 BACF Backwash pump and associated pipework 150.0d 04-Apr-25 06-Oct-25 S221350 BACF Air Scour Blower and assoicated pipework 150.0d 04-Apr-25 06-Oct-25 -197.5d S221360 BACF LVSB, MCCs and LCPs installation 28.0d 04-Apr-25 13-May-25 -155.5d 150.0d 09-Apr-25 10-Oct-25 -98.5d S222830 Lamella Settler installation 40.0d 14-Apr-25 05-Jun-25 -206.5d Lifting Appliance installation and load test for WTB 150.0d 09-Apr-25 -98.5d MiMEP Erection in WTB 165.0d 14-Apr-25 03-Nov-25 -122.5d MiMEP erection in WTB 03-Nov-25 -122.5d 165.0d 14-Apr-25 **Building Services** S222890 Installation of Earth Mat 210.0d 29-Apr-25 09-Jan-26 -172.5d Installation of MVAC system, plumbing and drainage system 210.0d 02-May-25 12-Jan-26 -209.5d Date Revision Checked Approved 3 Month Rolling Programme -28-Feb-25 CLX RM









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Contract No. 7/WSD/21 Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping Data Date:28-Feb-25 S222910 Installation of Fire services system 210.0d 29-Apr-25 -172.5d S222920 Plumbing and Drainage System 210.0d 210.0d 04-Apr-25 17-Dec-25 -222.5d S222940 Installation of CCTV system 270.0d 270.0d 29-Apr-25 24-Mar-26 S222950 Security Access Control System 210.0d 210.0d 04-Apr-25 17-Dec-25 -155.5d S222960 Telephone System 120.0d 120.0d 04-Apr-25 30-Aug-25 -65.5d S222970 Wireless Communication System 115.0d 115.0d 04-Apr-25 25-Aug-25 -60.5d Public Address System 150.0d 150.0d 04-Apr-25 06-Oct-25 -95.5d 270.0d 04-Apr-25 S222990 Photvoltalic Solar Power System 270.0d 04-Mar-26 -215.5d S223000 Water Leakage Detection System 150.0d 150.0d 04-Apr-25 06-Oct-25 -95.5d Power Supply System Conctruction of HV/LV Cable Pit 60.0d 60.0d 28-Feb-25 15-May-25 -51.5d S202272 Installation of cable tray and cables 45.0d 16-May-25 -51.5d 45.0d 09-Jul-25 S110740 Finishing works up to +25.0mPD floor including water tightness test of tanks, finishing to SRGF Maintenance Hall 35.0d 25-Feb-25 A 03-Apr-25 -243.5d S110760 Finishing works up to +29.5mPD floor including water tightness test for IOCT 44.0d 44.0d 20-Mar-25 02-May-25 -243.5d S110780 Finishing works up to +32.5mPD floor including water tightness test for SRGF 55.0d 18-Apr-25 -229.5d 55.0d 11-Jun-25 S223165 Construction of parapet wall 40.0d 40.0d 15-Apr-25 06-Jun-25 -67.5d Construction of planter on the roof 45.0d 26-May-25 -67.5d S223170 S401415 Handover to E&M below +29mPD 0.0d 0.0d 04-Apr-25 -243.5d ◆ Handover to E&M below +29mPD 120.0d 28-Mar-25 23-Aug-25 -214.5d Flowmeter Chambers Construction of flow meter chambers 120.0d 28-Mar-25 23-Aug-25 -214.5d 257.0d 10-Dec-24 A 09-Jan-26 Office and Laboratory Building Eletrical Works -99.5d **Eletrical Works** S223420 Installation of 11kv switchboards, LV switchboards and MCCs 50.0d 26-Dec-24 A 02-May-25 -99.5d **Building Service** Installation of MVAC system, Fire services system and electrical services 200.0d 13-May-25 09-Jan-26 -195.5d Installation of water leakage detection system 90.0d 13-May-25 27-Aug-25 -87.5d Architectural Works, Furniture and Labortory Equipment 127.0d 07-Apr-25 Erection DfMA and Construction of Planter Wall(Grid 4-11) 7.0d 7.0d 07-Apr-25 14-Apr-25 -195.5d S120212 Construction of planter on the roof 10.0d 10.0d 15-Apr-25 29-Apr-25 -67.5d S120221 Finishing works to basement floor(Grib4-11) 21.0d 12-Apr-25 12-May-25 -195.5d S120230 Finishing works to ground floor(Grib4-11) 40.0d 40.0d 12-May-25 27-Jun-25 -131.5d S123485 Construction of surface channel on the roof 10.0d 10.0d 30-Apr-25 13-May-25 -23.5d S223495 Installation of external facade 120.0d 15-Apr-25 09-Sep-25 -98.5d S223500 Installation of furniture and laboratory equipment 90.0d 26-May-25 09-Sep-25 -98.5d ◆ Handover to E&M (OLB Grid 4-11) S401750 Handover to E&M (OLB Grid 4-11) 0.0d 13-May-25 -195.5d CLP Interface CI P Interface BS and other installation works inside Transformer Room 14.0d 10-Dec-24 A 15-Mar-25 10-Dec-24 39.5d Date Revision Checked Approved







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Contract No. 7/WSD/21 Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping Data Date:28-Feb-25 Installation, Test-and-Commissioning of CLP Equipment (by CLP) 30.0d 21-Jan-25 A 3.5d 03-Apr-25 3.5d S401610 CLP Inspection of HV Switchboard 20.0d 20.0d 04-Apr-25 02-May-25 Install CLP KWH Meter 3.5d S401680 1.0d 1.0d 02-May-25 02-May-25 Reinstatement Works Reinstate S223540 Removal of Concrete Blocks and Dismantling ELS 50.0d 50.0d 20-Mar-25 23-May-25 -47.5d -47.5d S223541 Drainage works near the O&LB 20.0d 20.0d 24-May-25 17-Jun-25 40.0d 16-Nov-24 A 16-Apr-25 Dewatering Building **Dewatering Building** 40.0d 16-Nov-24 A 16-Apr-25 Installation of new filter press system 270.0d 49.5d 85.199 Washwater System Modification of washwater equalization tanks No.1 and No.2 100.0d 28-Feb-25 03-Jul-25 -203.5d Modification of sludge thickeners and associated pipeworks 120.0d 120.0d 10-May-25 29-Sep-25 -203.5d 230.0d 29-Nov-23 A 05-Dec-25 -200.5d **Chemical Building** ▼ Equipment Procurement, Manufacture, FAT and Delivery Equipment Procurement, Manufacture, FAT and Delivery Equipment manufacture,FAT and delivery 15.0d 05-Feb-24 A 17-Mar-25 05-Feb-24 -200.5d 83.33 Modification of Existing Lime System & other systems and Installation of New Chemical System Modification of the existing alum,polyelectrolyte and silicofluoride system,lime watersystem,alum sludge holding tanks -220.5d 150.0d 150.0d 11-Apr-25 180.0d 03-May-25 05-Dec-25 -220.5d S223726 MiMEP erection in Chemical Building 90.0d 29-Nov-23 A 20-Jun-25 -80.5d 250.0d Electrical Installation Electrical installation 150.0d 22-May-25 18-Nov-25 -185.5d -217.5d Chlorination Building Chlorination Building Installation of chlorinators 50.0d 28-Mar-25 02-Jun-25 -217.5d Laying of Sludge Pipe (SP-01) CHF 0 to 211.1 49.0d 28-Feb-25 Laying of Sludge Pipe (SP-01) CHF 0 to 211.1 Laying of Sludge pipe (SP-01) CHF 100 to 72 from lamellar settler to existing DN800 Washwater pipe 30.0d 28-Feb-25 -21.5d 03-Apr-25 Pressure test for sludge pipe (SP-01) 7.0d 04-Apr-25 12-Apr-25 -21.5d S401070 Connection to existing DN800 washwater pipe 30-Apr-25 60.5d 7.0d 7.0d 23-Apr-25 Laying of Sludge Pipe (SP-02) CHG 0 to 211.1 Laying of Sludge Pipe (SP-02) CHG 0 to 211.1 42.0d 28-Feb-25 22-Apr-25 Laying of Sludge pipe (SP-02) CHG 67 to 100 from existing alum sludge holding tank to existing DN800 Washwater -70.5d 30.0d 28-Feb-25 03-Apr-25 Pressure test for sludge pipe (SP-02) 5.0d 5.0d 04-Apr-25 10-Apr-25 -19.5d S401080 Connection to existing DN800 washwater pipe 7.0d 11-Apr-25 22-Apr-25 60.5d 123.0d 29-Mar-25 -82.5d 28-Aug-25 Remaining Laying of Pipe Works Excavation and ELS for fresh water main FWM-3A & FWM-3B 45.0d 29-Mar-25 27-May-25 -70.5d Laying of Sludge washwater recycle pipe (SP-03) CHJ 0 to 38.9 35.0d 29-Mar-25 15-May-25 -70.5d S313460 Laying of Thickener influent pipe (T1-01) CHH 0 to 7.2 28.0d 16-May-25 18-Jun-25 -32.5d S313500 Laying of remaining sampling pipe(spp01-05) -82.5d 80.0d 26-May-25 28-Aug-25 S313510 Construction of butterfly valve chamber and associated works 50.0d 14-Apr-25 17-Jun-25 -21.5d Siu Ho Wan Pumping Station Modification of backwash pump to stream IIA SRGF 180.0d 17-Apr-25 24-Nov-25 -130.5d 3 Month Rolling Programme -







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Contract No. 7/WSD/21 Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping Data Date:28-Feb-25 150.0d 17-Apr-25 S224060 Installation of plant water transfer system 54.5d S224071 Replacement of existing HV Panel existing HV panel nos. 12 to 18 (Right Section) 35.0d 35.0d 26-Oct-24 A 10-Apr-25 26-Oct-24 S224072 Replacement of existing HV Panel existing HV panel Nos. 9 to 11(Middle Section) 40.0d 40.0d 26-Oct-24 A 16-Apr-25 26-Oct-24 -130.5d 35.0d 17-Feb-25 A 10-Apr-25 S224073 Replacement of existing HV panel Nos. 1 to 8 (Left Section) 35.0d 17-Feb-25 54.5d 210.0d 15-Feb-24 A -100.5d 12-Nov-25 Administration Building S201760 Modification work to the existing Control Room located on the 1st Floor 180.0d 60.0d 15-Feb-24 A 15-May-25 15-Feb-24 -120.5d 66.67 Replacement of existing mimic display board with with new 65 inch LCD monitor and controller 150.0d 150.0d 16-May-25 12-Nov-25 -120.5d 90.0d 29-Apr-25 S201780 Modification of the building services systems 90.0d -27.5d 15-Aug-25 S201781 Replacement of existing ventilation system 150.0d 0.0d 16-Oct-24 A 28-Feb-25 A 16-Oct-24 -105.5d 200.0d 30-Aug-22 A 15-Sep-25 Section 3 of the Works 200.0d 30-Aug-22 A 15-Sep-25 30-Aug-22 -130.5d Siu Ho Wan Raw Water Booster Pumping Station 130.0d 21-Jun-24 A **Architectural Works** 07-Aug-25 S111140 Finishing works from +1.25mPD to +15.05m (Grib D-C) 53.0d 25.0d 21-Jun-24 A 28-Mar-25 21-Jun-24 0.5d 52.83 S312260 Installation of external facade -167.5d 40.0d 03-Sep-24 A 16-Apr-25 S312300 Installation of vertical greening system 90.0d 17-Apr-25 07-Aug-25 -167.5d 90.0d Equipment Procurement, Manufacture, FAT and Delivery Procurement of process and E&M equipment 20.0d 30-Aug-22 A 19-Mar-25 30-Aug-22 -273.5d S312020 Manufacture,FAT and delivery of process and E&M equipment 20.0d 02-Jul-24 A 15-Sep-25 -273.5d Mechanical Works Installation of lifting appliances,raw water booster pumpsets 98.0d 24-Oct-24 A 30-Jun-25 24-Oct-24 -82.5d 120.0d Electrical Works 140.0d 95.0d 22-Apr-24 A 26-Jun-25 22-Apr-24 -159.5d S312160 Installation of transformers, low voltage switchboards and MCCs 60.0d 27-Sep-24 A 15-May-25 27-Sep-24 -110.0d **Building Services** S312200 Installation of MVAC system 90.0d 28-Jan-25 A 20-Jun-25 28-Jan-25 -140.0d Installation of Fire services system 120.0d 90.0d 26-Nov-24 A 20-Jun-25 -140.0d S312202 Installation of Plumbing and drainage system 120.0d 90.0d 28-Oct-24 A 20-Jun-25 28-Oct-24 -140.0d Installation of electrical services, CCTV, security access control system, wireless communication system and PA system 100.0d 08-Nov-24 A 03-Jul-25 -84.5d S312240 150.0d S312245 Installation of lightning protection, lighting and small power system 150.0d 100.0d 12-Nov-24 A 03-Jul-25 12-Nov-24 -84.5d S312280 Installation of water leakage detection system 90.0d 28-Feb-25 20-Jun-25 -74.5d Control System Control System S312220 Installation of new DCS and BEMS,LCPs,PLCs, ALCPs AND MMIs 60.0d 20-Mar-25 05-Jun-25 -61.5d CLP Interface CLP Interface S312310 Installation, Test-and-Commissioning of CLP Equipment (by CLP) 40.0d 19-Jul-24 A 16-Apr-25 19-Jul-24 5.5d 42.869 CLP Inspection of LV Switchboard 5.5d 7.0d 17-Apr-25 28-Apr-25 S312321 Install CLP KWH Meter 29-Apr-25 5.5d 1.0d 29-Apr-25 Remaining Works ▼ Laying of Raw Water Main (RV 80.0d 17-Dec-24 A 09-Jun-25 105.5d Laying of Raw Water Main (RWM-2) CHD 100 to 150 Date Revision Checked Approved Summary 3 Month Rolling Programme -







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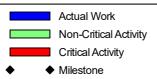
(sheet 9 of 10)

Data Date:28-Feb-25 Contract No. 7/WSD/21 Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping Laying of Raw water main(RWM-2) CHD 100 to 150 20.0d 17-Dec-24 A 22-Mar-25 S313080 -105.5d S313081 30.0d 30.0d 24-Mar-25 02-May-25 -105.5d Laying washout pipe S313082 Construction of associated pit and chamber 30.0d 03-May-25 -105.5d 09-Jun-25 Laying of Raw Water Main (RWM-2) CHD 150 to 403.3 S312990 Construction of pipe trough for Laying of Raw water main(RWM-2) CHD 216 to 260 25.0d 25.0d 28-Feb-25 28-Mar-25 -133.5d Construction of pipe trough for Laying of Raw water main(RWM-2) CHD 150 to 216 -133.5d S312991 24.0d 24.0d 29-Mar-25 30-Apr-25 S313000 Laying of Raw water main(RWM-2) CHD 216 to 260 25.0d 18-Mar-25 16-Apr-25 -125.5d Laying of Raw water main(RWM-2) CHD 150 to 216 S313001 30.0d 30.0d 30-Apr-25 06-Jun-25 -133.5d S313180 Exacavation works for Laying of Raw water main(RWM-2) CHD 260 to 403.3 80.0d 28-Feb-25 09-Jun-25 -105.5d S313181 Drainage Diversion and Construction of Manhole SM-1-1 to SM-1-4 78.0d 15-Apr-25 22-Jul-25 -42.5d 78.0d Laying of Raw Water Mai Laying of Raw Water Main (RWM-3) CHE 0 to 200.9 Laying of Raw water main(RWM-3) CHE 85 to 125 15.0d 04-Mar-24 A 17-Mar-25 -60.5d S313400 50.0d Laying of Raw water main(RWM-3) CHE 126 to 175 20.0d 02-May-24 A 22-Mar-25 02-May-24 19.5d 71.439



Laying of Raw water main(RWM-3) CHE 175 to 200.9





70.0d 18-Mar-25



-45.5d

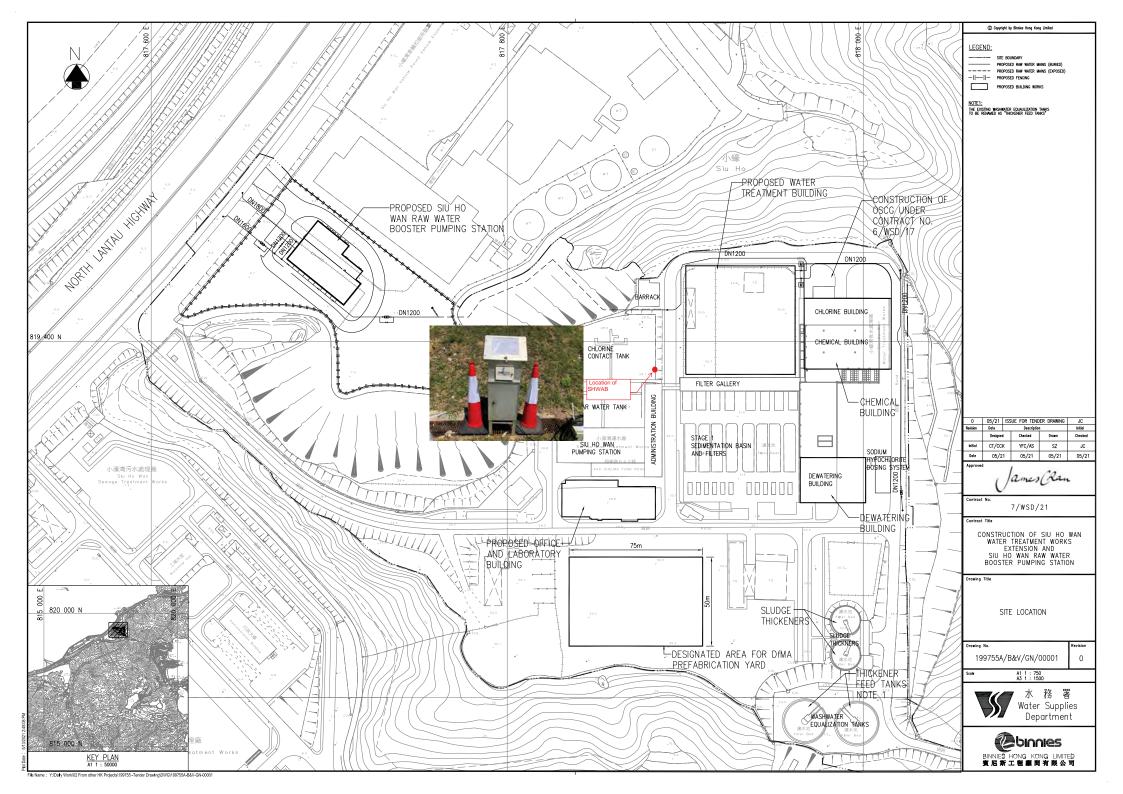
Date	Revision	Checked	Approved
28-Feb-25	1	CLX	RM

3 Month Rolling Programme - March 2025 to May 2025



Appendix D

Monitoring Locations





Appendix E

Calibration Certificates

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location: Siu Ho Wan WTW Administration

Location ID: SHWAB

Name and Model: TISCH HVS Model TE-5170

Date of Calibration: 1-Feb-25 Next Calibration Date: 1-Apr-25

Technician: Martin

CONDITIONS

Sea Level Pressure (hPa) Temperature (°C)

1006.3
29.1

Corrected Pressure (mm Hg)

Temperature (K) 302

CALIBRATION ORIFICE

Make-> TISCH
Model-> 5025A
Serial # -> 4064

Qstd Slope -> Qstd Intercept ->

2.10977

CALIBRATION

Plate	H20 (L)	H2O (R)	H20	Qstd	I	IC	LINEAR
No.	(in)	(in)	(in)	(m3/min)	(chart)	corrected	REGRESSION
18	5.80	5.80	11.6	1.616	56	55.05	Slope = 30.5991
13	4.70	4.70	9.4	1.456	51	50.13	Intercept = 6.1794
10	3.30	3.30	6.6	1.223	46	45.22	Corr. coeff. = 0.9931
7	2.30	2.30	4.6	1.024	39	38.34	
5	1.40	1.40	2.8	0.803	30	29.49	

Calculations:

Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b]

IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate

IC = corrected chart respones

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K

Pstd = actual pressure during calibration (mm Hg

For subsequent calculation of sampler flow:

1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)

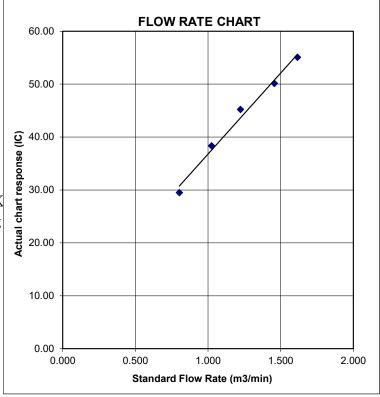
m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure





RECALIBRATION DUE DATE:

December 16, 2025

Certificate of Calibration

Calibration Certification Information

Cal. Date: December 16, 2024

Rootsmeter S/N: 438320

Ta: 293 **Pa:** 749.0

°K mm Hg

Operator: Jim Tisch
Calibration Model #:

TE-5025A

Calibrator S/N: 4064

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4600	3.2	2.00
2	3	4	1	1.0300	6.4	4.00
3	5	6	1	0.9220	8.0	5.00
4	7	8	1	0.8770	8.8	5.50
5	9	10	1	0.7250	12.8	8.00

	Data Tabulation						
Vstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$			Qa	√∆H(Ta/Pa)		
(m3)	(x-axis)	(y-axis)	Va	(x-axis)	(y-axis)		
0.9981	0.6836	1.4159	0.9957	0.6820	0.8845		
0.9938	0.9649	2.0024	0.9915	0.9626	1.2509		
0.9917	1.0756	2.2388	0.9893	1.0730	1.3985		
0.9906	1.1296	2.3480	0.9883	1.1269	1.4668		
0.9853	1.3590	2.8318	0.9829	1.3557	1.7690		
	m=	2.09671		m=	1.31292		
QSTD	b=	-0.01852	QA	b=	-0.01157		
	r=	0.99999		r=	0.99999		

Calculations						
Vstd= ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va= ΔVol((Pa-ΔP)/Pa)					
Qstd= Vstd/ΔTime	Qa= Va/ΔTime					
For subsequent flow rate 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:	Tstd: 298.15 ∘ _K					
Pstd:	760 mm Hg					
Key						
ΔH: calibrator manometer reading (in H2O)						
ΔP: rootsmeter manometer reading (mm Hg)						
Ta: actual absolute temperature (°K)						
Pa: actual barometric pressure (mm Hg)						
b: intercept						
m: slope	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



Appendix F

Event and Action Plan



Event Action Plan for Air Quality

Event	Action					
Event	ET	IEC	<i>PM</i> D	Contractor		
Action Level exceedance for one sample	Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC, PMD and Contractor; Repeat measurement to confirm finding; and Increase monitoring frequency to daily.	 Check monitoring data submitted by ET; Check Contractor's working method; and Review and advise the ET and PMD on the effectiveness of the proposed remedial measures. 	1. Notify Contractor.	Identify source, investigate the causes of exceedance and propose remedial measures Rectify any unacceptable practice and implement remedial measures; and Amend working methods agreed with PMD if		
Action Level exceedance for two or more consecutive samples	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC, PMD and Contractor; 3. Advise the PMD and Contractor on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC, PMD and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and PMD; and 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 and PMD on the effectiveness of the proposed remedial measures; and 5. Supervise Implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; and 3. Supervise and ensure remedial measures properly implemented.	appropriate. 1. Identify source, investigate the causes of exceedance and propose remedial measures 2. Submit proposals for remedial actions to <i>PMD</i> with a copy to ET and IEC within 3 working days of notification; 3. Implement the agreed proposals; and 4. Amend proposal if appropriate.		
Limit Level exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform <i>PMD</i> , <i>Contractor</i> , IEC and EPD; 3. Repeat	Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET, PMD and Contractor on possible remedial measures;	Confirm receipt of notification of failure in writing; Notify Contractor; and Supervise and ensure remedial measures properly implemented.	Identify source, investigate the causes of exceedance and propose remedial measures; Take immediate action to avoid further exceedance; Submit proposals		

WSD Contract No.: 7/WSD/21 - Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping Station **Monthly Environmental Impact Monitoring and Audit Report (March 2025)**



	measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and PMD informed of the results.	and E effectiv propose measur 5. Superv implem	veness of the ed remedial es;		4.	agreed proposals;
Limit Level exceedance for two or more consecutive samples	1. Notify IEC, PMD, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC, Contractor and PMD to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and PMD informed of the results; 8. If exceedance stops, cease additional monitoring.	data si ET; 2. Check workin 3. Discuss PMD, Contra potentia actions 4. Review Contra remedia wheneve necessatheir and PMD and 5. Supervimplem	Contractor's g method; s amongst ET, and ctor on the all remedial; ctor's all actions ver ary to assure effectiveness advise the accordingly;	ensure remed measures proper implemented; as 5. If exceeda continues, consider we portion of work responsible as a surface of the continues of	of g; or; on and ith on lial be 3. and lial rly ad acce 4. hat the is and the	investigate the causes of exceedance and propose remedial measures; Take immediate action to avoid further exceedance; Submit proposals for remedial actions to <i>PMD</i> with a copy to ET and IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control;

 $ET-Environmental\ Team$

IEC - Independent Environmental Checker

PMD – Project Manager's Delegate



Appendix G

Monitoring Schedule



Impact Air Quality Monitoring Schedule for the Reporting Period

D	ate	AIR QUALITY MONITORING (24-HOUR TSP)
Sat	1-Mar-25	
Sun	2-Mar-25	
Mon	3-Mar-25	
Tue	4-Mar-25	✓
Wed	5-Mar-25	
Thu	6-Mar-25	
Fri	7-Mar-25	
Sat	8-Mar-25	
Sun	9-Mar-25	
Mon	10-Mar-25	✓
Tue	11-Mar-25	
Wed	12-Mar-25	
Thu	13-Mar-25	
Fri	14-Mar-25	
Sat	15-Mar-25	✓
Sun	16-Mar-25	
Mon	17-Mar-25	
Tue	18-Mar-25	
Wed	19-Mar-25	
Thu	20-Mar-25	
Fri	21-Mar-25	✓
Sat	22-Mar-25	
Sun	23-Mar-25	
Mon	24-Mar-25	
Tue	25-Mar-25	
Wed	26-Mar-25	
Thu	27-Mar-25	✓
Fri	28-Mar-25	
Sat	29-Mar-25	
Sun	30-Mar-25	
Mon	31-Mar-25	

✓	Monitoring Day
	Sunday or Public Holiday



Impact Air Quality Monitoring Schedule for next Reporting Period

ate	AIR QUALITY MONITORING (24-HOUR TSP)
1-Apr-25	
2-Apr-25	✓
3-Apr-25	
4-Apr-25	
5-Apr-25	
6-Apr-25	
7-Apr-25	
8-Apr-25	✓
9-Apr-25	
10-Apr-25	
11-Apr-25	
12-Apr-25	
13-Apr-25	
14-Apr-25	✓
15-Apr-25	
16-Apr-25	
17-Apr-25	
18-Apr-25	
19-Apr-25	
20-Apr-25	
21-Apr-25	
22-Apr-25	
23-Apr-25	✓
	✓
	· · · · · · · · · · · · · · · · · · ·
	1-Apr-25 2-Apr-25 3-Apr-25 4-Apr-25 5-Apr-25 6-Apr-25 7-Apr-25 8-Apr-25 10-Apr-25 11-Apr-25 12-Apr-25 13-Apr-25 14-Apr-25 15-Apr-25 16-Apr-25 17-Apr-25 18-Apr-25 20-Apr-25 21-Apr-25 22-Apr-25

✓	Monitoring Day
	Sunday or Public Holiday



Appendix H

Database of Monitoring Result



Impact Mor	Impact Monitoring Results for 24-hour TSP at SHWAB														
DATE	CANCELE	ELAPSE	ED TIME	A CITILIA I	СНА	RT REAI	DING	AVG		STANDAR	D	FIL: WEIG	ΓER HT (g)	WEIGHT	DUST 24-hour TSP IN AIR (ug/m³)
	SAMPLE NUMBER	INITIAL	FINAL	ACTUAL (min)	MIN	MAX	AVG	TEMP (°C)	AVG PRESS (hPa)	FLOW RATE (m³/min)	AIR VOLUME (std m³)	INITIAL	FINAL	DUST COLLECTED (g)	
4-Mar-25	21343	22380.84	22404.84	1440.00	40	40	40.0	24.4	1010.3	1.10	1591	2.6833	2.7987	0.1154	73
10-Mar-25	21257	22404.84	22428.84	1440.00	40	40	40.0	20.4	1020.3	1.12	1613	2.8226	2.8917	0.0691	43
15-Mar-25	21280	22428.86	22452.86	1440.00	42	42	42.0	21.2	1014.3	1.18	1699	2.7848	2.8738	0.0890	52
21-Mar-25	21287	22452.86	22476.86	1440.00	42	42	42.0	20.5	1022.7	1.19	1710	2.8037	2.9725	0.1688	99
27-Mar-25	21363	22476.87	22500.87	1440.00	40	40	40.0	25.2	1007.2	1.10	1585	2.6824	2.7745	0.0921	58

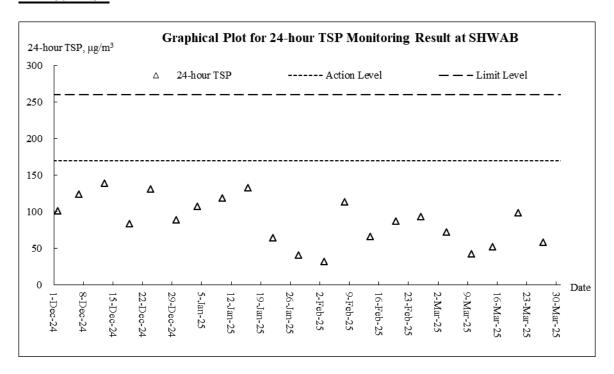


Appendix I

Graphical Plots for Monitoring Result



24-Hour TSP





Appendix J

Meteorological Data



Date Weather Princip Total Rainfal Imm Temp. Temp. Speed Mary Press. Wind Wind Wind Press. Wind Wind					Chek Lap Kok							
2-Mar-25	Date		Weather	Rainfal	Air Temp.	Wind Speed	Mean Relative Humidity	Wind	Press.			
3-Mar-25 Mon Moderate easterly winds. 0 23.6 9.5 80.5 W/NW 1010.8	1-Mar-25	Sat	Sunny intervals.	Trace	23.0	11.2	71.5	Е	1014.7			
4-Mar-25	2-Mar-25	Sun	Cloudy with a few rain patches.	0			75.0	E/NE	1012.4			
5-Mar-25 Wed Moderate to fresh north to northeasterly winds 1 18.9 13 88.2 E/SE 1013.4 6-Mar-25 Thu Cloudy with a few rain patches. 11.5 14.2 24.5 83.7 N/NE 1019.7 7-Mar-25 Fri Cloudy with one or two rain patches. 5.3 12.9 15.5 82.7 N/NE 1021.2 8-Mar-25 Sat Moderate north to northeasterly winds. 0 16.9 15 67.5 N/NW 1020.8 9-Mar-25 Sun Moderate easterly winds. 0 18.7 11.7 65.0 E 1022. 10-Mar-25 Mon Mainly cloudy. Trace 23.1 15 61.0 E 1020.3 11-Mar-25 Tue Rather warm with sunny periods during the day. 0 23.7 11 68.0 E/NE 1016.6 12-Mar-25 Thu Rather warm during the day. 0 25.1 9.0 77.5 W/SW 1014.4 15-Mar-25 Sta I Mainly cloudy. Trace 23.9 15.5 81.2 E 1014.4 </td <td>3-Mar-25</td> <td>Mon</td> <td>Moderate easterly winds.</td> <td>0</td> <td>23.6</td> <td>9.5</td> <td>80.5</td> <td>W/NW</td> <td>1010.8</td>	3-Mar-25	Mon	Moderate easterly winds.	0	23.6	9.5	80.5	W/NW	1010.8			
1 18.9 13 88.2 E/SE 1013.4	4-Mar-25	Tue	Moderate easterly winds.	0	24.7	13.2	74.5	S/SW	1010.3			
T-Mar-25	5-Mar-25	Wed		1	18.9		88.2	E/SE	1013.4			
Patches	6-Mar-25	Thu	Cloudy with a few rain patches.	11.5	14.2	24.5	83.7	N/NE	1019.7			
8-Nar-25 Sate years winds. 0 16-9 15 67.5 N/NW 1020.8 9-Mar-25 Sun Moderate easterly winds. 0 18.7 11.7 65.0 E 1022.3 11-Mar-25 Mon Mainly cloudy. Trace 23.1 15 61.0 E 1020.3 11-Mar-25 Tue Arter warm with sunny periods during the day. 0 23.7 11 68.0 E/NE 1016.6 12-Mar-25 Wed Sunny intervals. 2.8 24.0 12.0 77.5 W/NW 1013.4 14-Mar-25 Thu Rather warm during the day. 0 25.1 9.0 77.5 W/SW 1013.4 15-Mar-25 Sat Fine. Warm and very dry 12.6 23.2 32.5 81.2 E 1014.4 15-Mar-25 Sat Fine. Warm and very dry 12.6 23.2 32.5 81.2 W/NW 1014.3 17-Mar-25 Mon Mainly cloudy and dry Trace 18.3 25 47.5 N/NE 1019.3 18-Mar-25 Tue Very dry, fine </td <td>7-Mar-25</td> <td>Fri</td> <td>patches.</td> <td>5.3</td> <td>12.9</td> <td>15.5</td> <td>82.7</td> <td>N/NE</td> <td>1021.2</td>	7-Mar-25	Fri	patches.	5.3	12.9	15.5	82.7	N/NE	1021.2			
10-Mar-25	8-Mar-25	Sat	winds.	0	16.9	15	67.5	N/NW	1020.8			
Ti-Mar-25	9-Mar-25	Sun	Moderate easterly winds.	0	18.7	11.7	65.0	Е	1022			
11-Mar-25 10	10-Mar-25	Mon	Mainly cloudy.	Trace	23.1	15	61.0	Е	1020.3			
13-Mar-25	11-Mar-25	Tue		0	23.7	11	68.0	E/NE	1016.6			
14-Mar-25	12-Mar-25	Wed		2.8	24.0	12.0	77.5	W/NW	1014.3			
15-Mar-25 Sat	13-Mar-25	Thu	Rather warm during the day.	0	25.1	9.0	77.5	W/SW	1013.4			
16-Mar-25 Sun Mainly cloudy and dry Trace 18.3 25 47.5 N/NE 1019.3	14-Mar-25	Fri	Mainly cloudy.	Trace	23.9	15.5	81.2	Е	1014.4			
17-Mar-25 Mon	15-Mar-25	Sat	Fine. Warm and very dry	12.6	23.2	32.5	81.2	W/NW	1014.3			
17-Mar-25 Mon northeasterly winds. 17ace 16.5 17 44.0 N/NE 1021	16-Mar-25	Sun	Mainly cloudy and dry	Trace	18.3	25	47.5	N/NE	1019.3			
19-Mar-25 Wed Moderate east to northeasterly winds. 0 18.6 12.5 43.0 E 1024.4	17-Mar-25	Mon		Trace	16.5	17	44.0	N/NE	1021			
19-Mar-25 Wed Winds. 0 18.6 12.5 43.0 E 1024.4	18-Mar-25	Tue	Very dry, fine	Trace	17.1	17.5	46.5	N/NE	1022.4			
21-Mar-25 Fri Light to moderate east to northeasterly winds. 0 20.0 10.7 55.0 W/SW 1022.7 22-Mar-25 Sat Mainly fine. Hot 0 21.0 11.8 40.5 W/SW 1020.5 23-Mar-25 Sun Fine. Warm and very dry 0 22.1 13.2 39.5 W/SW 1017.6 24-Mar-25 Mon Mainly fine. Hot 0 22.9 11.7 40.5 W/SW 1013.4 25-Mar-25 Tue Light to moderate southerly winds. 0 24.5 11.7 47.0 W/SW 1003.4 26-Mar-25 Wed Mainly fine. Hot 0 24.7 14.2 71.7 SW 1007.9 27-Mar-25 Thu Hot with sunny periods and one or two isolated showers 0 25.9 16.7 69.0 S/SW 1007.2 28-Mar-25 Fri Sunny periods in the afternoon. 1.5 24.9 14.5 77.0 E/NE 1010.7 29-Mar-25 Sat Moderate no	19-Mar-25	Wed	•	0	18.6	12.5	43.0	Е	1024.4			
21-Mar-25	20-Mar-25	Thu	Fine. Warm and very dry	0	20.0	13	47.5	Е	1024.1			
23-Mar-25 Sun Fine. Warm and very dry 0 22.1 13.2 39.5 W/SW 1017.6 24-Mar-25 Mon Mainly fine. Hot 0 22.9 11.7 40.5 W/SW 1013.4 25-Mar-25 Tue Light to moderate southerly winds. 0 24.5 11.7 47.0 W/SW 1009.4 26-Mar-25 Wed Mainly fine. Hot 0 24.7 14.2 71.7 SW 1007.9 27-Mar-25 Thu Hot with sunny periods and one or two isolated showers 0 25.9 16.7 69.0 S/SW 1007.2 28-Mar-25 Fri Sunny periods in the afternoon. 1.5 24.9 14.5 77.0 E/NE 1010.7 29-Mar-25 Sat Moderate north to northeasterly winds. 1.2 16.6 17.8 81 N/NE 1017.5 30-Mar-25 Sun Mainly cloudy 2.2 11.8 19.5 85 N 1020.6 31-Mar-25 Mon Moderate easterly winds.<	21-Mar-25	Fri	northeasterly winds.	0	20.0	10.7	55.0	W/SW	1022.7			
24-Mar-25 Mon Mainly fine. Hot 0 22.9 11.7 40.5 W/SW 1013.4 25-Mar-25 Tue Light to moderate southerly winds. 0 24.5 11.7 47.0 W/SW 1009.4 26-Mar-25 Wed Mainly fine. Hot 0 24.7 14.2 71.7 SW 1007.9 27-Mar-25 Thu Hot with sunny periods and one or two isolated showers 0 25.9 16.7 69.0 S/SW 1007.2 28-Mar-25 Fri Sunny periods in the afternoon. 1.5 24.9 14.5 77.0 E/NE 1010.7 29-Mar-25 Sat Moderate north to northeasterly winds. 1.2 16.6 17.8 81 N/NE 1017.5 30-Mar-25 Sun Mainly cloudy 2.2 11.8 19.5 85 N 1020.6 31-Mar-25 Mon Moderate easterly winds. Trace 12.3 17.2 88.7 N/NE 1019.5	22-Mar-25	Sat	Mainly fine. Hot	0	21.0	11.8	40.5	W/SW	1020.5			
25-Mar-25 Tue Light to moderate southerly winds. 0 24.5 11.7 47.0 W/SW 1009.4 26-Mar-25 Wed Mainly fine. Hot 0 24.7 14.2 71.7 SW 1007.9 27-Mar-25 Thu Hot with sunny periods and one or two isolated showers 0 25.9 16.7 69.0 S/SW 1007.2 28-Mar-25 Fri Sunny periods in the afternoon. 1.5 24.9 14.5 77.0 E/NE 1010.7 29-Mar-25 Sat Moderate north to northeasterly winds. 1.2 16.6 17.8 81 N/NE 1017.5 30-Mar-25 Sun Mainly cloudy 2.2 11.8 19.5 85 N 1020.6 31-Mar-25 Mon Moderate easterly winds. Trace 12.3 17.2 88.7 N/NE 1019.5	23-Mar-25	Sun	Fine. Warm and very dry	0	22.1	13.2	39.5	W/SW	1017.6			
23-Mar-25 Med Mainly fine. Hot 0 24.7 14.2 71.7 SW 1009.4	24-Mar-25	Mon	Mainly fine. Hot	0	22.9	11.7	40.5	W/SW	1013.4			
27-Mar-25 Thu or two isolated showers Hot with sunny periods and one or two isolated showers 0 25.9 16.7 69.0 S/SW 1007.2 28-Mar-25 Fri Sunny periods in the afternoon. 1.5 24.9 14.5 77.0 E/NE 1010.7 29-Mar-25 Sat Moderate north to northeasterly winds. 1.2 16.6 17.8 81 N/NE 1017.5 30-Mar-25 Sun Mainly cloudy 2.2 11.8 19.5 85 N 1020.6 31-Mar-25 Mon Moderate easterly winds. Trace 12.3 17.2 88.7 N/NE 1019.5	25-Mar-25	Tue		0	24.5	11.7	47.0	W/SW	1009.4			
27-Mar-25 Thu or two isolated showers 0 23.9 16.7 69.0 S/SW 1007.2 28-Mar-25 Fri Sunny periods in the afternoon. 1.5 24.9 14.5 77.0 E/NE 1010.7 29-Mar-25 Sat Moderate north to northeasterly winds. 1.2 16.6 17.8 81 N/NE 1017.5 30-Mar-25 Sun Mainly cloudy 2.2 11.8 19.5 85 N 1020.6 31-Mar-25 Mon Moderate easterly winds. Trace 12.3 17.2 88.7 N/NE 1019.5	26-Mar-25	Wed	Mainly fine. Hot	0	24.7	14.2	71.7	SW	1007.9			
29-Mar-25 Sat Moderate north to northeasterly winds. 1.2 16.6 17.8 81 N/NE 1017.5 30-Mar-25 Sun Mainly cloudy 2.2 11.8 19.5 85 N 1020.6 31-Mar-25 Mon Moderate easterly winds. Trace 12.3 17.2 88.7 N/NE 1019.5	27-Mar-25	Thu		0	25.9	16.7	69.0	S/SW	1007.2			
29-Mar-25 Sat winds. 1.2 16.6 17.8 81 N/NE 1017.5	28-Mar-25	Fri	Sunny periods in the afternoon.	1.5	24.9	14.5	77.0	E/NE	1010.7			
30-Mar-25 Sun Mainly cloudy 2.2 11.8 19.5 85 N 1020.6 31-Mar-25 Mon Moderate easterly winds. Trace 12.3 17.2 88.7 N/NE 1019.5	29-Mar-25	Sat		1.2	16.6	17.8	81	N/NE	1017.5			
	30-Mar-25	Sun		2.2	11.8	19.5	85	N	1020.6			
	31-Mar-25	Mon	Moderate easterly winds.	Trace	12.3	17.2	88.7	N/NE	1019.5			

Remark: The above information was extracted from the Hong Kong Observatory Station of Chek Lap Kok of below link: https://www.hko.gov.hk/en/index.html



Appendix K

Waste Flow Table

Monthly Summary Waste Flow Table for <u>2025</u> (year)

Project: Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping Station

Contract No.: 7/WSD/21

					enerated Month					es Generated N	Monthly
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete (a) (see Note 3)	Reused in the Contract (b)	Reused in other Projects (c)	Disposed as Public Fill (d)	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse
	(in Tonne)	(in Tonne)	(in Tonne)	(in Tonne)	(in Tonne)	(in Tonne)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in Tonne)
Jan	129.150	51.480	0.000	0.000	77.670	16.580	0.048	0.262	0.025	0.000	57.220
Feb	828.910	98.730	0.000	0.000	730.180	923.500	0.020	0.260	0.032	0.000	76.750
Mar	1312.100	40.450	0.000	0.000	1271.650	234.030	0.010	0.255	0.012	0.000	89.510
Apr											
May											
Jun											
Sub-total	2270.160	190.660	0.000	0.000	2079.500	1174.110	0.0780	0.7770	0.0690	0.000	223.480
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	2270.160	190.660	0.000	0.000	2079.500	1174.110	0.0780	0.7770	0.0690	0.000	223.480

Notes:

- (1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- (2) Plastics refer to plastic bottles/containers, plastic sheets/ foam from packaging materials.
- (3) Broken concrete for recycling into aggregates.
- (4) Total Quantity Gernerated = a+b+c+d.



Appendix L

Environmental Complaints Log

WSD Contract No.: 7/WSD/21 - Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping Station Monthly Environmental Impact Monitoring and Audit Report (March 2025)



Environmental Complaints Log

Log ref.	Date of complaint	Pate of Complaint route Reference no. Complaint nature		Investigation fining	Status	
1						
2						
3						
4			_			



Appendix M

Implementation Schedule for Environmental Mitigation Measures



Environmental Mitigation Implementation Schedule for Air Quality Control

EIA	Environmental Protection Measures	Location/Tim	Implementa	Implem	entation S	Stages*	Relevant Legislation
Ref		ing	tion Agent	D	С	0	& Guidelines
Construction	Phase (Air Quality Control)	J			•	•	
S3.8	Dust mitigation measures stipulated in the Air Pollution Control (Construction Dust) Regulation shall be incorporated to control dust emission. Notice shall be given to authority prior to commencing of work. Relevant control measures include: • watering on the work sites at Siu Ho Wan WTW twice a day; • skip hoist for material transport shall be totally enclosed by impervious sheeting; • vehicle washing facilities shall be provided at every vehicle exit point; • the area where vehicle washing takes place and the section of the road between the washing facilities and the exit point shall be paved with concrete, bituminous materials or hardcores; • every main haul road shall be scaled with concrete and kept clear of dusty materials or sprayed with water so as to maintain the entire road surface wet; • every stock of more than 20 bags of cement shall be covered entirely by impervious sheeting placed in an area sheltered on the top and the three sides; • all dusty materials shall be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet; • every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the construction sites; • the dusty materials stockpiled on site shall be covered; and • the load of dusty materials carried by vehicle leaving a construction site shall be covered entirely by clean impervious sheeting to ensure dust materials do not leak from the vehicle.	Work site / during construction period.	Contractor		1		Air Pollution Control (Construction Dust) Regulation
NA	NA NA	NA	NA	NA	NA	NA	NA
	Phase (Noise Control)	1,112	1,11	1,11	1,11	1,111	1412
S4.8.1	Use of silenced PME	Work site close to all NSRs	Contractor		√		NCO, EIAO-TM
S4.8.6	 Good Site Practices: Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program. Mobile plant, if any, should be sited as far away from NSRs as possible. Machines and plant (such as trucks) 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 should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. Material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from on-site construction activities. Silencers or mufflers on construction equipment should be utilised and should be properly maintained during the construction programme. 	Work site close to all NSRs / throughout the construction period.	Contractor		1		NCO, EIAO-TM



EIA	Environmental Protection Measures	Location/Tim	Implementa	Implem	entation S	Stages*	Relevant Legislation
Ref		ing	tion Agent	D	С	0	& Guidelines
Operation Pl	hase(Noise Control)						
NA	NA	NA	NA	NA	NA	NA	NA
Construction	Phase (Water Quality Control)						
S5.7.2	Before commencing any site formation work, all sewer and drainage connections shall be sealed to prevent debris, soil, sand etc. from entering public sewers/drains. Sand/silt removal facilities such as sand traps, silt traps and sediment basins shall be provided to remove sand/silt particles from runoff to meet the requirements of the Technical Memorandum standard under the Water Pollution Control Ordinance. The design of silt removal facilities shall be based on the guidelines provided in ProPECC PN 1/94. All drainage facilities and erosion and sediment control structures shall be inspected monthly and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. Water pumped out from foundation excavations shall be discharged into silt	Work site / During the construction period	Contractor		٨		ProPECC PN 1/94; WPCO
	 removal facilities. Exposed soil surfaces shall be protected by paving or fill material as soon as possible to reduce the potential of soil erosion. Open stockpiles of construction materials or construction wastes on-site of more than 50m3 shall be covered with tarpaulin or similar fabric during rainstorms. 						
\$5.7.3	Debris and rubbish generated on-site shall be collected, handled and disposed of properly to avoid entering the nearby watercourses and storm water drains. Stockpiles of cement and other construction materials shall be kept covered when not being used.	Work site / During the construction period	Contractor		√		ProPECC PN 1/94; WPCO
S5.7.4	Oils and fuels shall only be used and stored in designated areas which have pollution prevention facilities. All fuel tanks and storage areas shall be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund shall be drained of rainwater after a rain event.	Work site / During the construction period	Contractor		1		
S5.7.5	Sewage from Construction Workforce Temporary sanitary facilities, such as portable chemical toilets, shall be employed on-site. A licensed contractor shall be responsible for appropriate disposal and maintenance of these facilities.	Work site / During the construction period	Contractor		1		WPCO
Operation Pl	nase(Water Quality Control)						
NA	NA	NA	NA	NA	NA	NA	NA
	Phase (Ecology)						
S.6.9.3	Mitigation to minimise impacts on vegetation in woodland All trees shall be preserved as far as possible, especially species of high conservation or amenity value. Recommendations to be provided in the Tree Survey Report to mitigate impacts on trees shall be followed. Where trees are to be preserved in-situ, but are likely to be disturbed from works activities, protective fencing/hoarding shall be carefully set up around the affected trees (refer to	Work site particularly woodland / During design phase and construction period	WSD/ Contractor	√	√		EIAO



EIA	Environmental Protection Measures	Location/Tim	Implementa	Implem	entation S	Stages*	Relevant Legislation	
Ref		ing	tion Agent	Ď	С	0	& Guidelines	
S.6.9.4/ S.6.11.2	Landscape and Visual). • Disturbance of individuals of the shrub/tree species Pavetta hongkongensis and tree Aquilaria sinensis of conservation interest should be avoided. A buffer to the dripline of each plant of at least 1m radius should be demarcated to prohibit disturbance. Where loss of this species would be unavoidable, it is recommended that these plants may be transplanted to safe locations within the same habitat. Following transplantation, regular monitoring of the trees and seedlings should be conducted by a suitably qualified botanist/horticulturist over a 12-month period.							
S.6.9.5	Mitigation to minimise impacts on aquatic ecology Trench excavation works for the raw water mains near the stream courses should be carried out in the dry season as far as practicable.	Work site / During construction period	WSD/ Contractor	1	1			
S.6.9.6	Mitigation to minimise general disturbance to wildlife Noise mitigation measures through the use of quiet construction plant shall be implemented to minimise disturbance to habitats adjacent to the works areas.	Work site / During construction period	Contractor		√		EIAO	
S.6.9.7	 Placement of equipment or stockpile in designated works areas and access routes selected on existing disturbed land to minimise disturbance to natural habitats. Construction activities shall be restricted to works areas that shall be clearly demarcated. The works areas shall be reinstated after completion of the works. Waste skips shall be provided to collect general refuse and construction wastes. The wastes shall be disposed of timely and properly off-site. General drainage arrangements shall include sediment and oil traps to collect and control construction site run-off. Open burning on works sites is illegal, and shall be strictly prohibited. Stove fires on works sites shall also not be allowed. Temporary fire fighting equipment shall be provided particularly in woodland areas. 	Work site / During construction period	Contractor		√		EIAO	
S.6.9.8.	Re-vegetation to reinstate works areas As far as possible compensatory planting shall use native plants of the same species that occur in the adjacent woodland habitat and have flowers/fruits attractive to wildlife. On-site compensatory planting should be conducted on at least a one to one basis.	Work site in woodland / Immediately following works	Contractor		√		EIAO	
Operation Pl	nase(Ecology)							
NA	NA	NA	NA	NA	NA	NA	NA	
	Phase (Landscape and Visual Impact)	Γ= .	T =		, , , , , , , , , , , , , , , , , , , ,	T		
\$7.9	 All existing top-soil shall be conserved and reused Temporary hoarding barriers shall be of a recessive visual appearance in both colour and form. Chromatic colour scheme with appropriate texture should be considered while designing the external surface of the proposed SHW Raw Water Booster Pumping Station in order to visually merge the proposed structures into the surrounding landscape. 	During construction phase	Contractor		√		EIAO-TM	
Operation Pl	hase(Landscape and Visual Impact)							

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EIA	Environmental Protection Measures	Location/Tim	Implementa	Implem	entation S	Relevant Legislation	
Ref		ing	tion Agent	D	C	0	& Guidelines
\$7.9	New compensatory planting works shall be carried out as early as possible in the construction period which allow maximum time for establishment and more mature trees when the works completed. Landscape or compensatory planting shall be provided where appropriate for enhancing greening and achieving visual screening. In this aspect, compensatory tree planting shall be considered. Selection of plant species shall match with the surrounding vegetation type and form for consistency of landscape resources and visual comfort, for matching with the local habitat. Tree planting shall be firstly considered when the amenity area or slope is feasible for planting trees so as to provide visual screening.	During operation phase	Contractor			٨	EIAO-TM
S7.9	 Planting area of approximately 2000 to 3000mm wide where fast growing tall trees with dense foliage shall be provided along the site boundary of Siu Ho Wan Raw Water Booster Pumping Station for visual screening. For planting close to or surrounded by natural terrain, compensatory planting should be arranged in a semi natural manner where feasible in order to blend the new planting into natural environment. The newly planted trees, shrubs and grassed areas are maintained throughout the first 12 months of the operation stage. 	During operation phase	Contractor			√	EIAO-TM
Waste Mana	agement						
\$10.5.1 \$10.5.3	 Good Site Practices Good site practices during the construction activities include: Nomination of approved personnel, such as a site manager, to be responsible for good site practices and making arrangements for collection of all wastes generated at the site and effective disposal to an appropriate facility. Training of site personnel in proper waste management and chemical waste handling procedures. Provision of sufficient waste disposal points and regular collection for disposal. 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. A Waste Management Plan shall be prepared and submitted to the Engineer for approval. One may make reference to ETWB TCW No. 15/2003 for details. A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) shall be proposed. In order to monitor the disposal of C&D material at public filling areas and to control fly tipping, a trip-ticket system shall be included as one of the contractual requirements to be implemented by an Environmental Team undertaking the Environmental Monitoring and Audit work. One may make reference to WBTC No. 21/2002 for details. 	Work site / During the construction period	Contractor				Waste Disposal Ordinance (Cap.54) WBTC No.21/2002, ETWB TCW No. 15/2003
S10.5.4	Waste Reduction Measures Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction	Work site / During planning & design stage, and construction	WSD/Contracto r	1	1		WBTC No.4/98, ETWB TCW No. 15/2003

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Monthly Environmental Impact Monitoring and Audit Report (March 2025)

EIA	Environmental Protection Measures	Location/Tim	Implementa	Implementa Implementation Stages*			Relevant Legislation
Ref		ing	tion Agent	D	С	0	& Guidelines
	 Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal. Separate labelled bins shall be provided to segregate aluminium cans from other general refuse generated by the work force, and to encourage collection of by individual collectors. Any unused chemicals or those with remaining functional capacity shall be recycled. Maximising the use of reusable steel formwork to reduce the amount of C&D material. Proper storage and site practices to minimise the potential for damage or contamination of construction materials. Plan and stock construction materials carefully to minimise amount of waste 	stage					
S10.5.9	generated and avoid unnecessary generation of waste. General Refuse General refuse shall be stored in enclosed bins or compaction units separate from C&D material. A reputable waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&D material.	Work site / During the construction period	Contractor		1		Public Health and Municipal Services Ordinance (Cap. 132)
\$10.5.7	Construction & Demolition (C&D) Material When disposing C&D material at a public filling area, it shall be noted that the material shall only consist of soil, rock, concrete, brick, cement plaster/mortar, inert building debris, aggregates and asphalt. The material shall be free from marine mud, household refuse, plastic, metals, industrial and chemical waste, animal and vegetable matter, and other material considered to be unsuitable by the Filling Supervisor.	Work site / During the construction period	Contractor		√		WBTC No. 4/98, 21/2002, 25/99, 12/2000 ETWB TCW No. 15/2003
S10.5.8	Chemical Wastes If chemical wastes are produced at the construction site, the Contractor would be required to register with the EPD as a Chemical Waste Producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes shall be used. Appropriate labels shall be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosives, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical wastes generated at the Chemical Waste Treatment Centre at Tsing Yi, or other licenced facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. All chemical wastes shall be removed from the waterworks installations at the first instance.	Work site / During the construction period	Contractor		√		

Note: N/A Not applicable

*D – Design; C – Construction; O – Operation