

Drainage Services Department

Contract No. SPW 08/2024
Shek Wu Hui Effluent Polishing
Plant – Main Works

Quarterly EM&A Summary Report
October - December 2024

(Version 1.1)

Certified By  (Environmental Team Leader: Mr. KS Lee)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

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Contract No. SPW 09/2024

Shek Wu Hui Effluent Polishing Plant – Main Works

Quarterly EM&A Summary Report

(October to December 2024)

Verified by: Claudine Lee



Position: Independent Environmental Checker

Date: 3 March 2025

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EXECUTIVE SUMMARY

Introduction

1. This is the 2nd Quarterly Environmental Monitoring and Audit (EM&A) Summary Report prepared by the Environmental Team, Cinotech Consultants Ltd., for Contract No. SPW 08/2024 “Shek Wu Hui Effluent Polishing Plant – Main Works” (hereinafter called “the Project”). This report summarized the monitoring results and audits findings of the EM&A programme under the issued further EP No. FEP-02/474/2013 and in accordance with the Updated EM&A Manual conducted between 1st October 2024 and 31st December 2024.

Summary of Main Works Undertaken and Key Measures Implemented

2. The construction activities undertaken in the reporting quarter were as follows:

Table I Summary Table for Major Site Activities in the Reporting Quarter

Contract No.	Contract Title	Site Activities
DC/2018/06	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sludge Treatment Facilities and 132kV Primary Substation	• RC works • Pipe jacking • Sewage, utility and pipe works • Road works • ABWF works • ELS
DC/2018/07	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sewage Treatment Facilities	• RC works • Pipe laying
DE/2018/03	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities	• Installation of E&M Plant Equipment & Accessories (Side stream) • E&M Installation & Accessories works at SDB • Plumbing System Installation at SDB • Installation of E&M Plant Equipment & Accessories at CHP • Bio-gas Holding Tank Installation at BGHT
DE/2018/04	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - E&M Works for Sewage Treatment Facilities	• E&M works for Leachate Pre-treatment Plant at existing compressor house. • E&M works at Inlet Works, PST No. 1-4, BR 2A & 2B, MFB2, DOU No.3A, Emergency Generator House and FS & Sprinkler Pumping Room, Chemical System No.1, Street Fire Hydrant & Booster Pump Room and Temporary Chemical System.

3. Implementation of the key mitigation measures during the reporting period are as follows:

Air Quality

- The excavated or stockpile of dusty materials should be covered by impervious materials or maintained wet.
- Regular water spraying on haul road and dry surfaces should be applied to minimize dust generation.
- Perform breaking works only when water spraying is provided.
- Immediately before leaving a construction site, every vehicle shall be washed to remove any dusty materials from its body and wheels.

Water Quality

- Stagnant water on the impervious sheets was removed.
- Bunds for flood protection should be provided to surround area of earthwork.

Waste Management

- Accumulation of general refuse should be avoided.
- Drip tray with adequate capacity and well maintained should be provided for chemicals or oil container.
- Unused waste and materials were removed to maintain the tidiness of the site.

Summary of Exceedances, Investigation and Follow-up

- No Action/Limit levels exceedance was recorded during air quality, construction noise and ecological monitoring in the reporting period (October to December 2024).

Complaint Handling, Prosecution and Public Engagement

- Summary of complaint handling, prosecution and public engagement in the reporting quarter is tabulated in **Table II**.

Table II Summary Table of Complaints, Summons, Prosecutions and Public Engagement Activities in the Reporting Quarter

Event	Event Details		Follow-up/ Remedial Actions	Status/ Remarks
	Number	Brief Description		
Complaints Received	0	-	-	-
Notification of Summons and Prosecutions Received	0	-	-	-
Public Engagement Activities	0	-	-	-

Reporting Changes

- There were no reporting changes during the reporting month.

Future Key Issues

- The key works or activities will be anticipated in the next reporting period are as follows:
 - The works listed in **Table I** will be continued in the next reporting period.
 - The new work will be commencement in the next reporting period.

1 INTRODUCTION

Background

- 1.1 The Further Expansion of Shek Wu Hui Effluent Polishing Plant (SWHEPP) is a designated Project (DP) under F.1 and F.2 of Part 1, Schedule 2 of Environmental Impact Assessment Ordinance (EIAO). The “North East New Territories New Development Areas” Environmental Impact Assessment (NENT NDAs EIA) Report (Registered No.: AEIAR-175/2013) covered the assessment for the Further Expansion of SWHSTW Phase 1A, 1B and 2, and the associated Environmental Monitoring and Audit (EM&A) Manual was approved on 18 October 2013.
- 1.2 The existing Shek Wu Hui Sewage Treatment Works (SWHSTW) is operated and maintained by the Drainage Services Department (DSD). It provides secondary level treatment to sewage collected from Sheung Shui, Fanling and adjacent areas, SWHSTW was completed in two stages and expanded progressively in the past year. In 2009, the expansion of SWHSTW was completed and its design capacity was 93,000m³/day at average dry weather flow (ADWF). After the Resource Allocation Exercise 2017, the existing SWHSTW is proposed to be upgraded from secondary to tertiary treatment level as the new SWHEPP at 3 stages: Main Works Stage 1, Stage 2 and Stage 3.
- 1.3 A Further Environmental Permit (EP) (Permit No. FEP-02/474/2013) was issued on 15 February 2018 to DSD as the Permit Holder to assume the responsibility for construction and operating the SWHEPP Project up to a capacity of 190,000m³/day. The updated Environmental Monitoring and Audit (EM&A) Manual was prepared in accordance with Condition 2.3 of the Further EP. The site layout plan for the Project is shown in **Figure 1.1**.
- 1.4 The Contract No. SPW 12/2021 was superseded by Contract No. SPW 08/2024 in September 2024. EM&A Works for Shek Wu Hui Effluent Polishing Plant -Main Works shall continue and reported under the new Contract. Cinotech Consultants Ltd. was designated as the Environmental Team (ET) to undertake the EM&A works for “Shek Wu Hui Effluent Polishing Plant – Main Works” (hereinafter called the “Project”).
- 1.5 The commencement date of the construction works of Shek Wu Hui Effluent Polishing Plant (FEP-02/474/2013) was on 06 Jan 2020. A total 3 of environment team contracts for Shek Wu Hui Effluent Polishing Plant have been conducted to undertake the EM&A works from the commencement of the project. The inter-relationship between various contracts of the Shek Wu Hui Effluent Polishing Plant project and submission of previous EM&A reports are shown in **Table 1.1**.

Table 1.1 Summary Table for inter-relationship between various contracts of the Shek Wu Hui Effluent Polishing Plant project and submission of previous EM&A reports

Contract No. of Environment Team for Shek Wu Hui Effluent Polishing Plant	Environment Team	Submission of previous Quarterly EM&A report
SPW 07/2019	Cinotech Consultants Ltd.	Jan 2020 to Aug 2021
SPW 12/2021	Lam Environmental Services Limited	Sep 2021 to Aug 2024
SPW 08/2024	Cinotech Consultants Ltd.	Sep 2024

- 1.6 This is the 2nd Quarterly EM&A Summary Report summarizing the EM&A works for the Project between 1st October 2024 and 31st December 2024.

Project Organizations

- 1.7 Different Parties with different levels of involvement in the project organization include:
- Permit Holder/Project Proponent – Drainage Services Department (DSD)
 - Supervisor Representative – AECOM Asia Company Limited (AECOM)
 - Environmental Team (ET) – Cinotech Consultants Limited (Cinotech)
 - Independent Environmental Checker (IEC) – Meinhardt Infrastructure and Environment Ltd (Meinhardt)
 - Contractors
 - Contract No.: DC/2018/06 - Kwan Lee - Chun Wo Joint Venture (KLCWJV)
 - Contract No.: DC/2018/07 - Kwan Lee - Chun Wo Joint Venture (KLCWJV)
 - Contract No.: DE/2018/03 - Jardine Engineering Corporation Limited (JEC)
 - Contract No.: DE/2018/04 - Bestwise Envirotech Limited (Bestwise)

1.8 The key contacts of the Project are shown in **Table 1.2**.

Table 1.2 Key Project Contacts

Party	Role	Post	Contact Person	Phone No.
DSD	Permit Holder	Engineer	Mr. Tony Wong	2594 7463
AECOM	Supervisor Representative	Resident Engineer	Mr. Kenneth Chan	6874 1825
Cinotech	Environmental Team	Environmental Team Leader	Mr. KS Lee	2151 2091
		Audit Team Leader	Ms. Betty Choi	2151 2072
Meinhardt	Independent Environmental Checker	Independent Environmental Checker (IEC)	Ms. Claudine Lee	9612 9229
KLCWJV	Contractor (DC/2018/06)	Assistance Environmental Engineer	Mr. Timothy To	6203 7133
KLCWJV	Contractor (DC/2018/07)	Environmental Engineer	Ms. Barbara Yiu	9758 2034
JEC	Contractor (DE/2018/03)	Environmental Officer	Mr. Chris Cheung	6389 2975
Bestwise	Contractor (DE/2018/04)	Environmental Officer	Mr. Albus Cheung	9731 0831

1.9 The Organizational Structure for Environmental Management is shown in **Figure 1.2**.

Construction Activities Undertaken During the Reporting Quarter

1.10 The construction programme is presented in **Appendix A**. The layout plans of construction activities and site record photos are presented in **Appendix M**. The major site activities undertaken in the reporting quarter were:

Table 1.3 Summary Table for Major Site Activities in the Reporting Quarter

Contract No.	Contract Title	Site Activities	Mitigation Measure
DC/2018/06	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sludge Treatment Facilities and 132kV Primary Substation	• RC works • Pipe jacking • Sewage, utility and pipe works • Road works • ABWF works • ELS	• Implement proper dust mitigation measures on dusty surface, stockpiles and related dusty works • Implement proper measures to prevent excavated material, silt or debris being deposited or washed into existing drainage systems and waterbodies • Ensure all on-site regulated machines have displayed valid NRMM labels and the application of ULSD as fuel

Contract No.	Contract Title	Site Activities	Mitigation Measure
			for diesel-powered machinery. - Erect 2m high dull green site boundary fences to screen undesirable views of the works site - Provision of protection to ensure no runoff out of site area or direct discharge into public drainage system - Temporary storage of filling materials and construction materials were located well away from any water courses during carrying out of the construction works. - The doors of generator were closed during operation.
DC/2018/07	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sewage Treatment Facilities	- RC works - Pipe laying	- The excavated or stockpile of dusty material was covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet. - Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place were sprayed with water continuously. - Implement proper measures to prevent excavated material, silt or debris being deposited or washed into existing drainage systems and waterbodies - Ensure all on-site regulated machines have displayed valid NRMM labels and the application of ULSD as fuel for diesel-powered machinery. - Provision of protection to ensure no runoff out of site area or direct discharge into public drainage system - The breaking area was provided noise mitigation measures to screen the noisy plant.

Contract No.	Contract Title	Site Activities	Mitigation Measure
DE/2018/03	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities	• Installation of E&M Plant Equipment & Accessories (Side stream) • E&M Installation & Accessories works at SDB • Plumbing System Installation at SDB • Installation of E&M Plant Equipment & Accessories at CHP • Bio-gas Holding Tank Installation at BGHT •	• Ensure all on-site regulated machines have displayed valid NRMM labels and the application of ULSD as fuel for diesel-powered machinery. • Segregate and store different types of waste to enhance reuse or recycling of materials and their proper disposal • Mobile plants were sited as far away from NSRs as possible. • The doors of generator were closed during operation.
DE/2018/04	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - E&M Works for Sewage Treatment Facilities	• E&M works for Leachate Pre-treatment Plant at existing compressor house. • E&M works at Inlet Works, PST No. 1-4, BR 2A & 2B, MFB2, DOU No.3A, Emergency Generator House and FS & Sprinkler Pumping Room, Chemical System No.1, Street Fire Hydrant & Booster Pump Room and Temporary Chemical System.	• Ensure all on-site regulated machines have displayed valid NRMM labels and the application of ULSD as fuel for diesel-powered machinery. • Segregate and store different types of waste to enhance reuse or recycling of materials and their proper disposal • Mobile plants were sited as far away from NSRs as possible. • The doors of generator were closed during operation.

2 ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS

Monitoring Parameters and Monitoring Locations

- 2.1 The Updated EM&A Manual designates locations for the ET to monitor environmental impacts in terms of air quality, noise and ecology due to the Project. The Project area and monitoring locations are depicted in **Figures 2-4**. **Appendix B** gives details of monitoring requirements.

Environmental Quality Performance Limits (Action and Limit Levels)

- 2.2 Should the environmental quality parameters exceed the Action/Limit Levels, the respective action plans would be implemented. The Action/Limit Levels for each environmental parameter are given in **Appendix C**.

Monitoring Methodology

- 2.3 Monitoring works/equipment were conducted/calibrated regularly in accordance with the Updated EM&A Manual. Copies of calibration certificates are attached in the appendices of the corresponding Monthly EM&A Reports within the reporting period.

Implementation Status of Environmental Mitigation Measures

- 2.4 The Contractor has implemented environmental mitigation measures and requirements as stated in the EIA Report, the Environmental Permit and Updated EM&A Manual. The implementation status of environmental mitigation measures (EMIS) is given in **Appendix D**.

Site Audit Summary

- 2.5 Site audits were carried out on a weekly basis. During site inspections in the reporting period, no non-conformance was identified. The observations and recommendations made during the reporting period are summarized in **Appendix E**.

Status of Waste Management

- 2.6 The amount of wastes generated by the major site activities of this Project is shown in **Appendix F**.

3 MONITORING RESULTS

Weather Conditions

- 3.1 The weather conditions were generally sunny and cloudy during the monitoring sessions of the reporting period. The details of weather conditions for each individual monitoring session was presented in the corresponding Monthly EM&A Reports within the reporting period.

Air Quality

- 3.2 All 1-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/Limit Level exceedance was recorded.
- 3.3 All 24-hours TSP monitoring was conducted as scheduled in the reporting quarter. No Action/Limit Level exceedance was recorded.
- 3.4 The graphical presentations of 1-hour and 24-hour TSP monitoring results are shown in **Appendix G** and **Appendix H** respectively.

Construction Noise

- 3.5 All construction noise monitoring was conducted as scheduled in the reporting period. No Action and Limit Level exceedance was recorded.
- 3.6 The graphical presentations of the noise monitoring results are shown in **Appendix I**.

Ecology

- 3.7 All ecological monitoring was conducted as scheduled in the reporting period. No Action and Limit Level was triggered for ecological monitoring between October to December 2024.
- 3.8 A summary of ecological monitoring analysis is shown in **Appendix J**.

Water Quality

- 3.9 According to the Updated EM&A Manual, the water quality monitoring has been suspended since June 2023 due to the completion of outfall construction at Ng Tung River, and the relevant approval was obtained from EPD in May 2023.
- 3.10 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of water quality mitigation measures of this project. No non-compliance of water quality mitigation measures was observed in the reporting quarter.

Waste Management

- 3.11 Site audits were carried out on a weekly basis to monitor and audit to ensure that proper storage, transportation and disposal practices of waste materials generated during construction activities, such as construction and demolition (C&D) materials and general refuse are being implemented. Details of the amount of wastes generated by the major site activities is shown in **Appendix F**.

Landscape and Visual

- 3.12 Site audits were carried out on a bi-weekly basis to monitor and audit the timely implementation of landscape and visual mitigation measures of this project. No non-compliance of the landscape and visual mitigation measures was recorded in the reporting quarter.

Influencing Factors on the Monitoring Results

- 3.13 During the reporting period, the major dust and noise sources identified at the designated monitoring stations are shown in **Tables 3.1 and 3.2**.

Table 3.1 Major Dust Sources during the Monitoring in the Reporting Quarter

Monitoring Stations	Major Dust Source
AM1 - Wai Loi Tsuen	Road Traffic at Sheung Shui Tung Hing Road
AM2 - Fu Tei Au	The stockpile of construction materials near the footpath
AM1a* - Site Boundary of the Shek Wu Hui STW (East)	Vehicle Movement within SWHSTW
AM2a - Site Boundary of the Shek Wu Hui STW (North)	N/A

Notes:

*Due to close proximity to construction works and heavy machines, presence of physical barrier and safety concerns, find adjustment for the location of AM1a was proposed in accordance to Section 2.2.4.6 of the EM&A Manual. It was adjusted from the ground level near the control room of SWHSTW to the roof floor of that control room. The proposal has sought approval from ER and IEC, and agreement from EPD in May 2022.

Table 3.2 Major Noise Sources during the Monitoring in the Reporting Quarter

Monitoring Stations	Major Noise Source
NM1 - Wai Loi Tsuen	Road Traffic at Po Wan Road & Sheung Shui Tung Hing Road
NM2 - Fu Tei Au	N/A
NM3 - Man Kok Village	Road traffic at Po Wan Road

- 3.14 The observations identified during ecological monitoring at the designated monitoring stations are shown in **Table 3.3**.

Table 3.3 Observations during Ecological Monitoring in the Reporting Quarter

Location	Project Related	Non-Project Related
T1 (PC1, PC2)	Construction activity: Lorry with crane and grabber, welding, excavation	Construction activities: Lorry with Grabber, tree cutting, Manlift & Excavation Human activities: Playing motorboat, grazing, jay walking, fishing

Location	Project Related	Non-Project Related
T2 (PC3, PC4)	Construction activity: Lorry with Grabber & Manlift	Construction activities: Excavation, craning, lorry with crane & sheet-piling Human activities: Fishing, grazing, jaywalking
PC5	Construction activity: Excavation	Construction activities: Lorry with Grabber & Welding
T3 (PC6, PC7)	Construction activity: Craning	Construction activities: Sheet-piling, craning, excavation & welding Human activities: Fishing, jaywalking, grazing

4 NON-COMPLIANCE (EXCEEDANCES) OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS (ACTION AND LIMIT LEVELS)

Summary of Exceedances

- 4.1 Environmental monitoring works were performed in the reporting period and all monitoring results were checked and reviewed. A summary of exceedances is attached in **Appendix K**.
- 4.2 No Action/Limit Level exceedance was recorded at all 1-hour and 24-hour TSP monitoring stations in the reporting quarter.
- 4.3 No Action Level exceedance for construction noise monitoring was recorded due to no documented complaint was received in the reporting quarter.
- 4.4 No Limit Level exceedances for construction noise monitoring were recorded in the reporting quarter.
- 4.5 No Action and Limit Level exceedance was triggered for ecological monitoring in the reporting quarter.
- 4.6 No non-conformity for landscape and visual impact was recorded in the reporting quarter.

Review of the Reasons for and the Implications of Non-compliance

- 4.7 There was no non-compliance from the site audits in the reporting period. The observations and recommendations made in each individual site audit session were attached in the **Appendix E**.

Summary of Complaint, Warning, Notification of Any Summons and Successful Prosecution

- 4.8 No environmental complaint, warning, notifications of summons and environmental prosecution were received during the reporting quarter.
- 4.9 The summaries of environmental complaint, warning, summon and notification of successful prosecution for the Project is presented in **Appendix L**.

5 COMMENTS, CONCLUSIONS AND RECOMMENDATIONS

Review of Monitoring Methodology and the Practicality and Effectiveness of EM&A Programme

- 5.1 The EM&A methodology has been effective in monitoring the environmental impacts of the Project and the effectiveness of the mitigation measures. The data collected were useful in determining whether the Project had caused unacceptable impacts on the sensitive receivers. Analysis of all EM&A data collected throughout the baseline and the impact periods demonstrated the environmental acceptability of the Project.

Review on Effectiveness of Mitigation Measures

- 5.2 The mitigation measures recommended in the EIA report are considered effective in minimizing environmental impacts.
- 5.3 The Contractor has implemented the recommended mitigation measures except for those mitigation measures not applicable at this stage.
- 5.4 Environmental monitoring works were performed in the reporting quarter and all monitoring results were checked and reviewed.
- 5.5 The summary record of non-compliance (exceedances) of Action/Limit Level for environmental monitoring in the reporting quarter has been presented in **Table II** above and in **Appendix K**.
- 5.6 No environmental complaint was received in the reporting quarter. The details are attached in the **Appendix L**.
- 5.7 No warning, notifications of summons and environmental prosecution were received in the reporting quarter. The details are attached in the **Appendix L**.
- 5.8 The effectiveness of environmental management is satisfactory given that the recommendations given in the site inspections performed in the reporting period are met.

Recommendations

5.9 According to the environmental audits performed in the reporting quarter, the following recommendations were made:

Air Quality

- The excavated or stockpile of dusty materials should be covered by impervious materials or maintained wet.
- Regular water spraying on haul road and dry surfaces should be applied to minimize dust generation.
- Perform breaking works only when water spraying is provided.
- Immediately before leaving a construction site, every vehicle shall be washed to remove any dusty materials from its body and wheels.

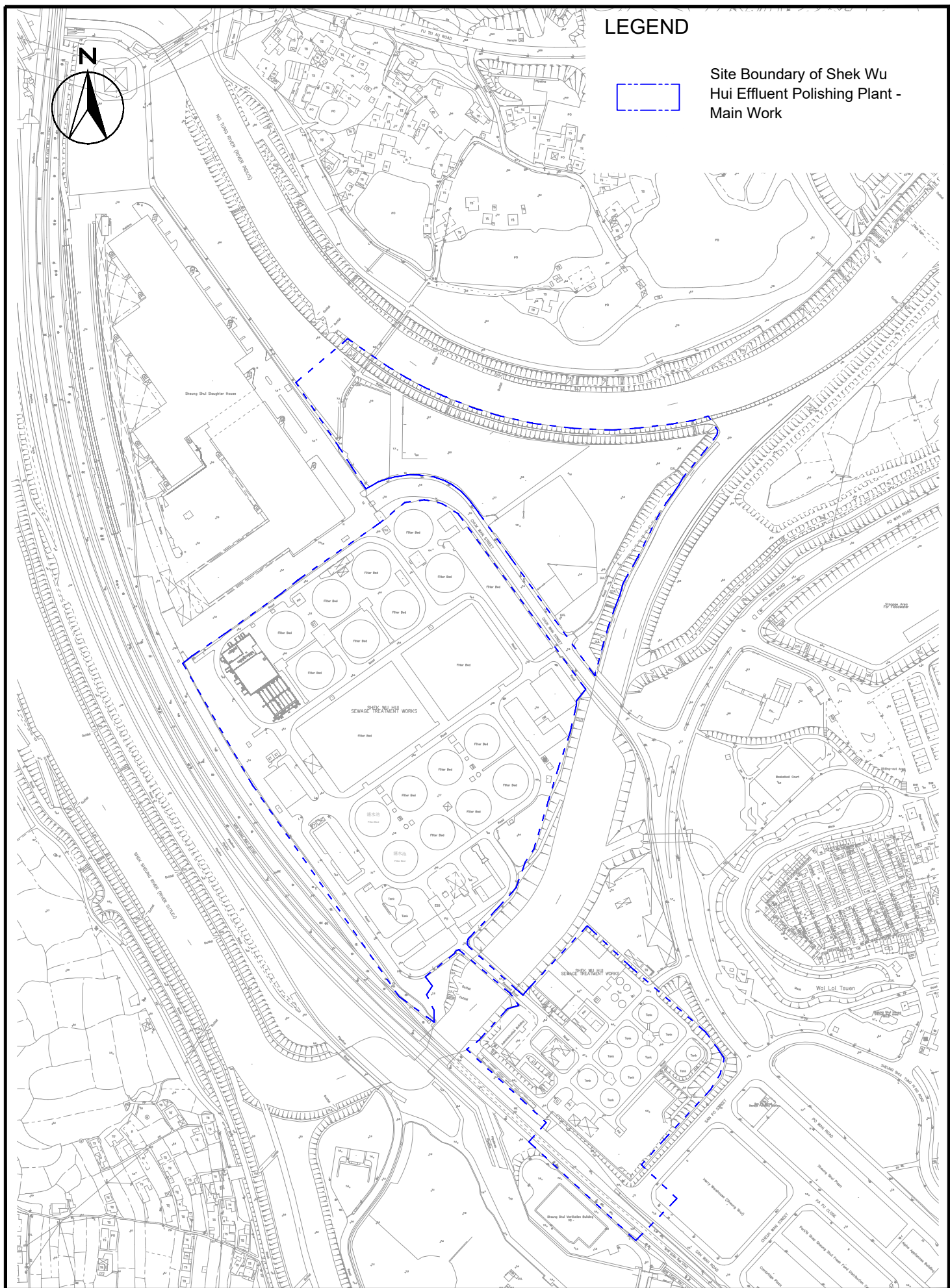
Water Quality

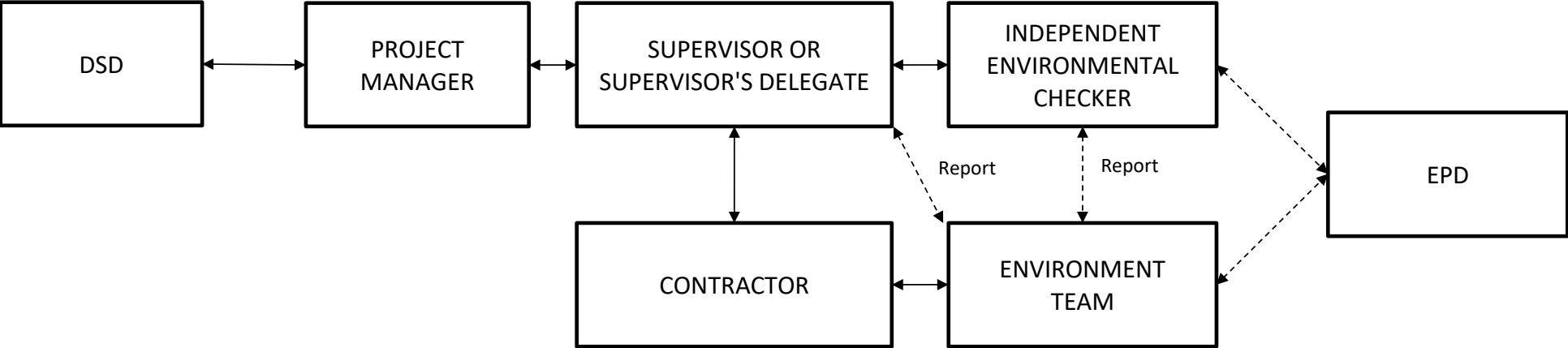
- Stagnant water on the impervious sheets was removed.
- Bunds for flood protection should be provided to surround area of earthwork.

Waste Management

- Accumulation of general refuse should be avoided.
- Drip tray with adequate capacity and well maintained should be provided for chemicals or oil container.
- Unused waste and materials were removed to maintain the tidiness of the site.

FIGURES

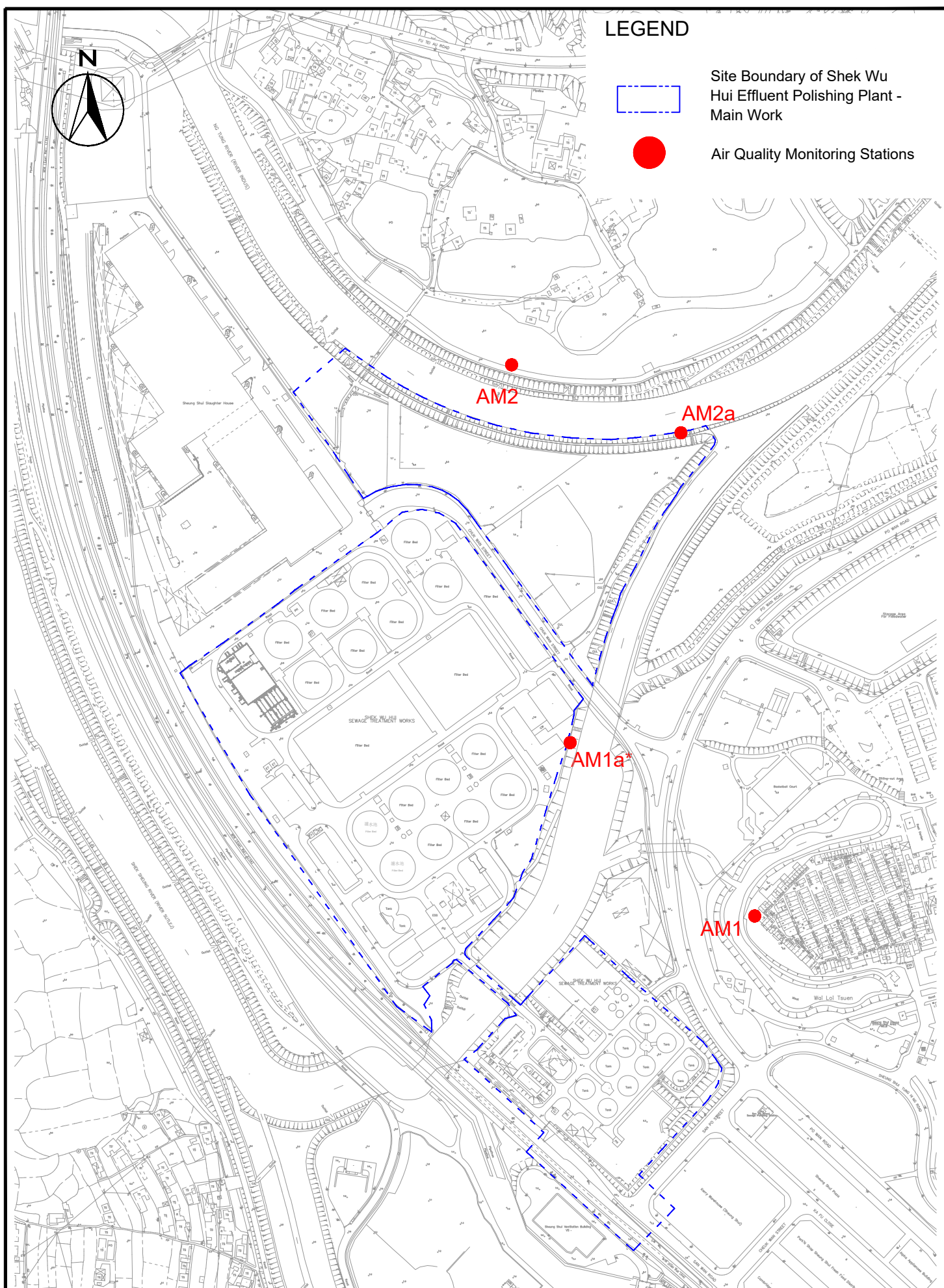


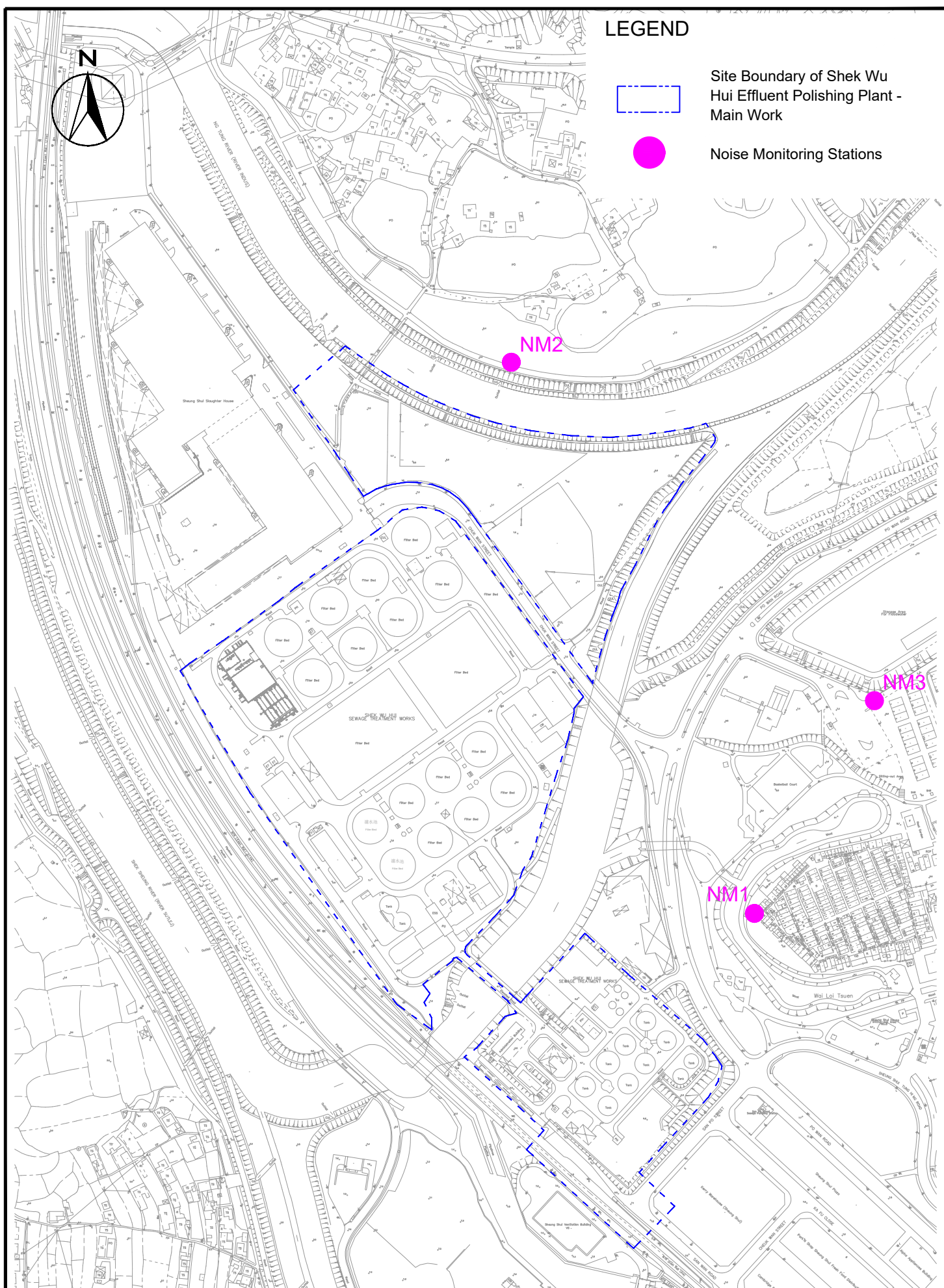


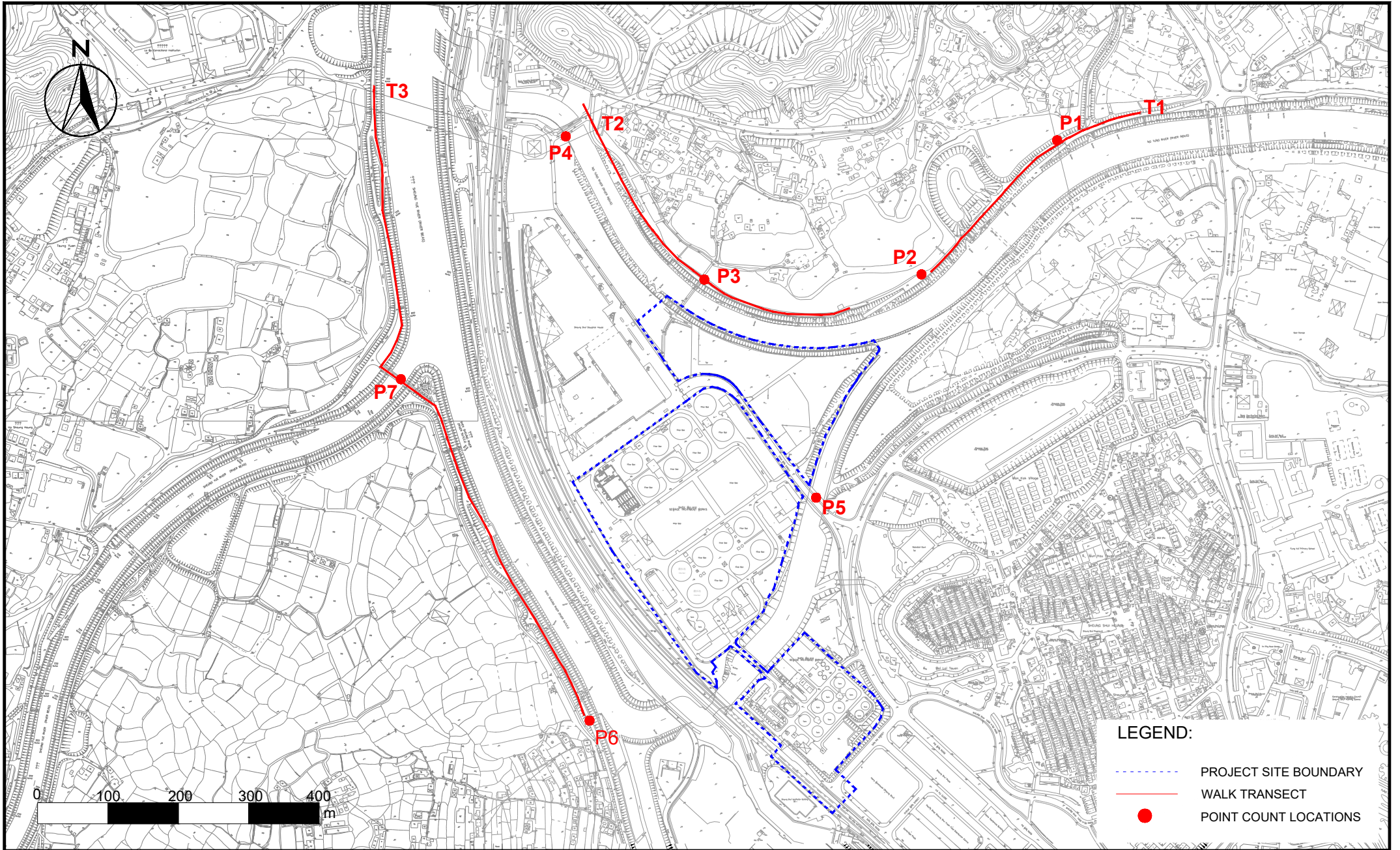
CINOTECH

Agreement No. SPW 08/2024
Shek Wu Hui Effluent Polishing Plant- Main Works
Project Organisation For Environmental Monitoring and Audit

SCALE	N.T.S.	DATE	Aug 2024
CHECK	WY	DRAWN	CF
JOB NO.	MA24087	FIGURE NO.	1.2







APPENDIX A
CONSTRUCTION PROGRAMME

Critical Split

Task

Milestone

Summary

Critical

Status Date: 31 Mar 23

Page 1

Rev Date:31 Mar 2023

The Gantt chart displays a timeline from 2020 to 2026, with tasks and milestones marked. The timeline is divided into quarters (Q1, Q2, Q3, Q4) for each year. Tasks are represented by horizontal bars, and milestones are marked with diamonds. A red line connects specific milestones across the timeline.

Timeline and Milestones:

- 2020:**
 - Q3: Milestone 30/9
 - Q4: Milestone 22/1
- 2021:**
 - Q1: Milestone 29/1
 - Q2: Milestone 26/3
 - Q3: Milestone 20/7
 - Q4: Milestone 11/3
- 2022:**
 - Q3: Milestone 28/9
- 2023:**
 - Q4: Milestone 15/1
 - Q1: Milestone 25/1 (multiple instances)
 - Q2: Milestone 29/12
 - Q3: Milestone 25/1
- 2024:**
 - Q1: Milestone 25/1 (multiple instances)
 - Q2: Milestone 25/1
 - Q3: Milestone 25/1
 - Q4: Milestone 25/1
- 2025:**
 - Q2: Milestone 25/4
 - Q3: Milestone 7/1
 - Q4: Milestone 3/10
- 2026:**
 - Q1: Milestone 7/1

Task Bars:

- Task 1: 2020 Q1 to 2023 Q4
- Task 2: 2020 Q1 to 2021 Q4
- Task 3: 2020 Q1 to 2021 Q2
- Task 4: 2020 Q1 to 2021 Q1
- Task 5: 2020 Q1 to 2021 Q1
- Task 6: 2020 Q1 to 2021 Q1
- Task 7: 2020 Q1 to 2021 Q1
- Task 8: 2020 Q1 to 2021 Q1
- Task 9: 2020 Q1 to 2021 Q1
- Task 10: 2020 Q1 to 2021 Q1
- Task 11: 2020 Q1 to 2021 Q1
- Task 12: 2020 Q1 to 2021 Q1
- Task 13: 2020 Q1 to 2021 Q1
- Task 14: 2020 Q1 to 2021 Q1
- Task 15: 2020 Q1 to 2021 Q1
- Task 16: 2020 Q1 to 2021 Q1
- Task 17: 2020 Q1 to 2021 Q1
- Task 18: 2020 Q1 to 2021 Q1
- Task 19: 2020 Q1 to 2021 Q1
- Task 20: 2020 Q1 to 2021 Q1
- Task 21: 2020 Q1 to 2021 Q1
- Task 22: 2020 Q1 to 2021 Q1
- Task 23: 2020 Q1 to 2021 Q1
- Task 24: 2020 Q1 to 2021 Q1
- Task 25: 2020 Q1 to 2021 Q1
- Task 26: 2020 Q1 to 2021 Q1
- Task 27: 2020 Q1 to 2021 Q1
- Task 28: 2020 Q1 to 2021 Q1
- Task 29: 2020 Q1 to 2021 Q1
- Task 30: 2020 Q1 to 2021 Q1
- Task 31: 2020 Q1 to 2021 Q1
- Task 32: 2020 Q1 to 2021 Q1
- Task 33: 2020 Q1 to 2021 Q1
- Task 34: 2020 Q1 to 2021 Q1
- Task 35: 2020 Q1 to 2021 Q1
- Task 36: 2020 Q1 to 2021 Q1
- Task 37: 2020 Q1 to 2021 Q1
- Task 38: 2020 Q1 to 2021 Q1
- Task 39: 2020 Q1 to 2021 Q1
- Task 40: 2020 Q1 to 2021 Q1
- Task 41: 2020 Q1 to 2021 Q1
- Task 42: 2020 Q1 to 2021 Q1
- Task 43: 2020 Q1 to 2021 Q1
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- Task 98: 2020 Q1 to 2021 Q1
- Task 99: 2020 Q1 to 2021 Q1
- Task 100: 2020 Q1 to 2021 Q1

[illegible]

識別碼	Activity ID	Key Date	NCE/(EW/PMI)/(CE)	Task Name	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Risk Allowan	完成百分比	9年	2020年				2021年				2022年				2023年				2024年				2025年				2026年				2027
															Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2						
2125	CS2-26100	SW2		Process Pipe CHSS1, CHSS2 CH181-254	178 days	4月1日星期五	11月7日星期一	月1日星期五4	月7日星期一11	2040SS+21 days		0 days		100%																														
2136	CS2-27000	SW2		Sewerage and utilities in Workfront I1	370 days	7月8日星期三	10月2日星期六	月8日星期三7	月2日星期六10			0 days		100%																														
2137	CS2-27100	SW2		Process Pipe CHS CH0-72 , CHR CH 57-132	370 days	7月8日星期三	10月2日星期六	月8日星期三7	月2日星期六10			0 days		100%																														
2148	CS2-28000	SW2		Sewerage and utilities in Workfront I2	1312 days	7月8日星期三	12月5日星期四	月8日星期三7	NA			-66 days		35%																														
2149	CS2-28100	SW2		Process Pipe CHR CH0-26	1312 days	7月8日星期三	12月5日星期四	月8日星期三7	NA			-71 days		57%																														
2166	CS2-29000	SW2		Sewerage and utilities in Workfront I3	581 days	7月21日星期三	7月7日星期五	月21日星期三7	月7日星期五7			0 days		100%																														
2167	CS2-29100	SW2	294,286,25	Construction of manhole MHFB51A, MHFB51, MHFB52, PSW3	509 days	7月21日星期三	4月6日星期四	月21日星期三7	月6日星期四4			0 days		100%																														
2202	CS2-30000	SW2		Sewerage and utilities in Workfront I4	701 days	6月5日星期六	10月14日星期六	月5日星期六6	月14日星期六10	2560,2561		0 days		100%																														
2205	CS2-30100	SW2	230,238,26	Construction of Process Pipes CHPSW3; CHDO1, chemical trench	665 days	6月5日星期六	8月31日星期四	月5日星期六6	月31日星期四8			0 days		100%																														
2292	CS3-0000	*		Remaining drainage and utilities (Section 3)	1686 days?	12月12日星期四	8月8日星期五	月12日星期四12	NA	2573,58FF		-223 days?		55%																														
2571	CS3CK-PMI-496g	SW3		ABWF works + BS works	90 days	6月17日星期一	10月2日星期三	月17日星期一6	NA 2567	58FF,2570SS		32 days		0%																														
2572	CRW-0000	*		Road Works (Section 3)	130 days	8月9日星期六	1月7日星期三		NA	NA	58FF	-361 days		0%																														
2583	CRW-2000	SW3		Footpath Road Pavement	60 days	10月30日星期四	1月7日星期三		NA	NA 2582SS+5 days	58FF	-361 days		0%																														
2584	CRW-2100	SW3		Signages	20 days	10月18日星期六	11月10日星期一		NA	NA 2581SS	58FF	-311 days		0%																														
2587	CLW-0000	*		Landscaping Works (Section 3)	873 days	12月15日星期四	11月9日星期日	月15日星期四12	NA 16			0 days		37%																														
2588	CLW-1000	SW3		Irrigation System	120 days	12月15日星期四	5月16日星期二	月15日星期四12	月16日星期二5	2589,58FF		0 days		100%																														
2589	CLW-2000	SW3		Hard Landscaping Works	214 days	5月23日星期二	2月6日星期二	月23日星期二5	月6日星期二2 2588	58FF,2590FS+10 days	0 days	5	100%																															
2590	CLW-3000	SW3		Soft Landscaping Works	214 days	2月22日星期四	11月9日星期六	月22日星期四2	NA 2589FS+10 days	2591,58FF		0 days	5	0%																														
2591	CLW-4000	DLP		Establishment Works (365 days)	365 days	11月10日星期日	11月9日星期日		NA	NA 2590,226	60FF	0 days	5	0%																														

Activity ID	Activity Name	Remaining Duration	BL Start (DE/2018/03 RP R39)	BL Finish (DE/2018/03 RP R39)	Start	Finish	Total Float	Activity % Complete								
						2024 Dec 63			2025 Jan 64	Feb 65	Mar 66					
SWH - Main Works Stage 1 Sidestream Treatment Facilities & E&M Works for Sludge Treatment Facilities																
Contract Data																
Starting Date & Completion Date																
CD1030	Extension of Time Granted (Total 274 days)	14	05-Apr-24	07-Dec-24	05-Apr-24 A	03-Jan-25*	0	94.89%								
Key Dates																
Contractual Completion (Include Implemented CE)																
KD1050	Revised Completion Date for KD3A	0		06-Jan-24		20-Dec-24*	-141	0%								
Expected Completion (Include Non-implemented CE)																
KD1050-1	Expected Completion Date for KD3A	0		02-Aug-24		20-Dec-24*	-66	0%								
Completion Date																
Section 3 - Complete Design, Construction & T&C for Sidestream Facilities																
Contractual Completion (Include Implemented CE)																
SC31045	NICE-CNE-0523 Inclement Weather (March 2024) - 5.5days (Implemented)	0			18-Nov-24 A	23-Nov-24 A		100%								
SC31046	NICE-CNE-0533 Inclement Weather (April 2024) - 14days (Implemented)	0			24-Nov-24 A	07-Dec-24 A		100%								
SC31047	NICE-CNE-0535 Inclement Weather (May 2024) - 10.5days (Implemented)	0			08-Dec-24 A	18-Dec-24 A		100%								
SC31048	NICE-CNE-0541 Inclement Weather (June 2024) - 16.5days (Implemented)	14			18-Dec-24 A	03-Jan-25	0	15.15%								
SC31100	Revised Completion for Section 3	0		21-Aug-24		03-Jan-25*	0	0%								
Expected Completion (Include Non-implemented CE)																
SC31037-1	EWN-0314 Extension of Time for change of access date	173			27-Oct-24 A	11-Jun-25	0	24.12%								
Section 5 - Complete all remaining Works (incl. T&C)																
Contractual Completion (Include Implemented CE)																
SC51035	NICE-CNE-0535 Inclement Weather (May 2024) - 9.5days (Implemented)	0			19-Nov-24 A	28-Nov-24 A		100%								
SC51036	NICE-CNE-0541 Inclement Weather (June 2024) - 13.5days (Implemented)	0			29-Nov-24 A	12-Dec-24 A		100%								
SC51100	Revised Completion for Section 5	0		02-Aug-24		20-Dec-24*	-9	0%								
Expected Completion (Include Non-implemented CE)																
SC51034-1	EWN-0314 Extension of Time for change of access date	173			04-Oct-24 A	11-Jun-25	0	31%								
Preliminaries																
Mobilisation																
PL1000	Provison of Equipment / Facilities for the PM's Office	14	23-Oct-19	07-Dec-24	23-Oct-19 A	03-Jan-25	377	99.25%								
PL1040	Maintain Contractor's Site Office	1	28-Nov-20	07-Nov-24	28-Nov-20 A	21-Dec-24	360	99.93%								
PL1050	Maintain Contractor's Storage Area	1	06-Apr-21	07-Nov-24	06-Apr-21 A	21-Dec-24	360	99.92%								
PL1060	Removal of Site Office, Storage & Relevant Facilities	30	08-Nov-24	07-Dec-24	22-Dec-24	20-Jan-25	360	0%								
Site Preliminaries																
PL1070	Provision of Insurance, Third Party Insurances & PII	14	23-Oct-19	07-Dec-24	23-Oct-19 A	03-Jan-25	377	99.25%								
PL1080	Provision of 2 Contract Car for the Use of the PM & Supervisor	14	23-Oct-19	07-Dec-24	23-Oct-19 A	03-Jan-25	377	99.25%								
PL1090	Provision of 1 Electric Car for the Use of the PM & Supervisor	14	22-Jan-20	07-Dec-24	22-Jan-20 A	03-Jan-25	377	99.21%								
PL1100	Provision of Photographs	14	20-Nov-19	07-Dec-24	20-Nov-19 A	03-Jan-25	377	99.24%								
PL1110	Provision of Environmental Mitigation Measures	14	20-Nov-19	07-Dec-24	20-Nov-19 A	03-Jan-25	377	99.24%								
PL1120	Provision of Air Pollution Abatment	14	20-Nov-19	07-Dec-24	20-Nov-19 A	03-Jan-25	377	99.24%								
PL1130	Provision of Noise Pollution Abatment	14	20-Nov-19	07-Dec-24	20-Nov-19 A	03-Jan-25	377	99.24%								
PL1140	Provision of Wastewater Pollu tion Abatement	14	20-Nov-19	07-Dec-24	20-Nov-19 A	03-Jan-25	377	99.24%								
PL1150	Provision of Wastement Management	14	20-Nov-19	07-Dec-24	20-Nov-19 A	03-Jan-25	377	99.24%								
PL1160	Provision of Monitoring the Use of Ultra Low Sulphur Diesel	14	20-Nov-19	07-Dec-24	20-Nov-19 A	03-Jan-25	377	99.24%								
PL1170	Provision of Environmental Management	14	20-Nov-19	07-Dec-24	20-Nov-19 A	03-Jan-25	377	99.24%								
PL1180	Provision of Site Management Plan for Trip TicketSystem	14	20-Nov-19	07-Dec-24	20-Nov-19 A	03-Jan-25	377	99.24%								
PL1190	Provision of As-constructed Drawings for Section 3	121	23-Oct-24	20-Feb-25	21-Dec-24	20-Apr-25	-134	0%								
PL1220	Provision of Systematic Risk Management	14	20-Nov-19	07-Dec-24	20-Nov-19 A	03-Jan-25	377	99.24%								
PL1230	Provision of Site Liaison Group & Community Liaison Group	14	20-Nov-19	07-Dec-24	20-Nov-19 A	03-Jan-25	377	99.24%								
PL1240	Provision of 24-Hour Telephone Line	14	20-Nov-19	07-Dec-24	20-Nov-19 A	03-Jan-25	377	99.24%								
PL1380	Revise & Re-submit O&M Manual for Section 4	1	04-May-22	21-Sep-24	04-May-22 A	21-Dec-24	369	99.85%								
PL1390	PM Reivew & Approval of O&M Manual for Section 4	21	22-Sep-24	12-Oct-24	22-Dec-24	11-Jan-25	369	0%								
PL1440	Provision of ICE for Certification of the Design, Cal, Dwgs, Plans and all releva	14	20-Nov-19	07-Dec-24	20-Nov-19 A	03-Jan-25	377	99.24%								
Site Upkeeping																
PL1450	General Site Upkeeping of the Site	14	20-Nov-19	07-Dec-24	20-Nov-19 A	03-Jan-25	377	99.24%								
Safety and Environmental Management																
PL1460	Construction Health and Safety Plan	14	10-Nov-19	07-Dec-24	10-Nov-19 A	03-Jan-25	377	99.25%								
PL1470	Site Traffic Safety Management Plan	14	25-Apr-21	07-Dec-24	25-Apr-21 A	03-Jan-25	377	98.94%								
	File Name: DE/2018/03 3M 241220 Layout: DE1803 (Progress -3M) Page 1 of 8		 Remaining Work  Critical Activity  Milestone  Actual Progress  RP Rev39		 RP Rev39 MS  Actual Milestone		Contract No. DE/2018/03 Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 Sidestream Treatment Facilities and E&M Works for Sluge Treatment Faciliteis 3 Months Rolling Programme (Based on RP Rev.50) as at 20 Dec 2024						Based on DE/2018/03 Revised Programme Rev.39			
							Date						Revision	Checked	Approved	
							20-Dec-24						Rev. 0	IM/LT	SY	

Activity ID	Activity Name	Remaining Duration	BL Start (DE/2018/03 RP R39)	BL Finish (DE/2018/03 RP R39)	Start	Finish	Total Float	Activity % Complete	2024		2025			
										Dec 63	Jan 64	Feb 65	Mar 66	
Compliance with BEAM Requirements														
Sludge Dewatering Building														
PL1510	Monthly Review & Submission	14	09-Sep-22	07-Dec-24	09-Sep-22 A	03-Jan-25	-106	98.29%						
PL1520	Submission & Approval of Test Record	60	19-Dec-24	16-Feb-25	01-Mar-25	29-Apr-25	-162	0%						
CHP Building														
PL1550	Monthly Review & Submission	14	07-Dec-22	07-Dec-24	07-Dec-22 A	03-Jan-25	-106	98.09%						
BIM														
PL1630	Review & Update BIM Execution Plan & BIM Model	14	24-Mar-20	07-Dec-24	24-Mar-20 A	03-Jan-25	321	99.19%						
PL1640	Prepare & Submit the Fully Coordinated BIM	60	09-Oct-24	07-Dec-24	21-Dec-24	18-Feb-25	275	0%						
PL1650	PM Reivew & Comment Fully Coordinated BIM	21	08-Dec-24	28-Dec-24	19-Feb-25	11-Mar-25	275	0%						
PL1660	Revise & Re-submit Fully Coordinated BIM	14	29-Dec-24	11-Jan-25	12-Mar-25	25-Mar-25	275	0%						
Section 2 - Complete All Designs (exclude Sec. 1 & 3)														
Outstanding Works														
S2D2030	Provide ICE Certificate for all design, calculations, drawings, plans & relevant c	1	02-Jul-21	31-May-22	02-Jul-21 A	21-Dec-24*	-935	99.92%						
S2D2050	Submit finalized design calculations, drawings & material submissions for BS s	1	02-Jul-21	30-Apr-22	02-Jul-21 A	21-Dec-24*	-966	99.92%						
S2D2070	Submit finalized cable schedules & sizing calculation (LV System)	1	02-Jul-21	31-Dec-21	02-Jul-21 A	21-Dec-24*	-1086	99.92%						
S2D2080	Submit finalized pumps and associated motor and VSD calculations	1	02-Jul-21	31-Dec-21	02-Jul-21 A	21-Dec-24*	-1086	99.92%						
S2D2090	Submit finalized electrical loads to verify the rating of the switchgears, transforr	1	02-Jul-21	31-Dec-21	02-Jul-21 A	21-Dec-24*	-1086	99.92%						
S2D2110	Submit finalized cable route drawings	1	02-Jul-21	31-Dec-21	02-Jul-21 A	21-Dec-24*	-1086	99.92%						
S2D2120	Submit finalized layout and control wiring diagrams for switchboard, MCC, cor	1	02-Jul-21	31-Jan-22	02-Jul-21 A	21-Dec-24*	-1055	99.92%						
S2D2140	Submit finalized interlock devices for electrical equipment and system	1	02-Jul-21	30-Apr-22	02-Jul-21 A	21-Dec-24*	-966	99.92%						
S2D2150	Submit finalized calculations for total harmonic distortion, electrical faults and tr	1	02-Jul-21	30-Apr-22	02-Jul-21 A	21-Dec-24*	-966	99.92%						
S2D2160	Submit finalized design calculations, drawings & material submissions for ELV	1	02-Jul-21	31-Dec-21	02-Jul-21 A	21-Dec-24*	-1086	99.92%						
S2D2170	Submit finalized design submissions of SCADA, PMS, CMMS, IDMS, UPS for	1	02-Jul-21	31-Dec-21	02-Jul-21 A	21-Dec-24*	-1086	99.92%						
S2D2180	Submit finalized configuration of SCADA/ PLC system, CMMS & PMS	1	02-Jul-21	31-Dec-21	02-Jul-21 A	21-Dec-24*	-1086	99.92%						
S2D2190	Submit finalized PLC and MCC panel design	1	02-Jul-21	28-Feb-22	02-Jul-21 A	21-Dec-24*	-1027	99.92%						
S2D2200	Submit finalized design & philosophy of the process instrument	1	02-Jul-21	31-Dec-21	02-Jul-21 A	21-Dec-24*	-1086	99.92%						
S2D2210	Submit finalized Process Design Submission	1	02-Jul-21	30-Nov-21	02-Jul-21 A	21-Dec-24*	-1117	99.92%						
S2D2220	Submit finalized acoustic and noise calculations for all equipment	1	02-Jul-21	30-Apr-22	02-Jul-21 A	21-Dec-24*	-966	99.92%						
S2D2230	Submit finalized design of THP feeding system	1	02-Jul-21	31-Oct-21	02-Jul-21 A	21-Dec-24*	-1147	99.92%						
S2D2240	Submit finalized design of the centrifuge discharge system	1	02-Jul-21	30-Nov-21	02-Jul-21 A	21-Dec-24*	-1117	99.92%						
Section 3 - Complete Design, Construction & T&C for Sidestream Facilities														
Civil Works Construction														
S3C1150	External & Internal Finishes - 2nd Fix (Ceiling / Wall / Floor Finishing, Door)	0	22-Apr-24	22-Oct-24	22-Apr-24 A	22-Nov-24 A		100%						
E&M Installation														
Mechanical Installations														
Basement														
S3C2120	Installation of Mixer for Thickened Sludge Tank, Sludge Mixing Tank, Anammo	15	10-Oct-24	24-Oct-24	04-Jan-25*	18-Jan-25	-404	0%						
S3C2150	Installation of Pipeworks, Associate Valves and Fittings	16	30-Jan-24	31-Oct-24	30-Jan-24 A	05-Jan-25	-385	95.58%						
S3C2220	Installation of Instruments	16	07-Oct-24	31-Oct-24	01-Nov-24 A	05-Jan-25	-384	81.4%						
S3C2230	Installation of Actuator	16	11-Oct-24	31-Oct-24	10-Dec-24 A	05-Jan-25	-384	23.81%						
G/F														
S3C2160	E&M installation of DG Plant Room (NaOH tank and FRP platform)	32	11-Apr-24	09-Jun-24	11-Apr-24 A	21-Jan-25	-217	90.12%						
S3C2240	Installation of Drum Sludge Thickener System (Including mixing valves, floccul	30	21-Sep-24	30-Oct-24	21-Dec-24*	19-Jan-25	-397	0%						
S3C2280	Installation of Primary Clarifiers No.1 and 2	20	21-Oct-24	19-Nov-24	11-Nov-24 A	09-Jan-25	-93	44.44%						
S3C2540	Installation of Instruments	24	07-Oct-24	31-Oct-24	28-Oct-24 A	13-Jan-25	-392	72.09%						
S3C2550	Installation of Actuator	21	21-Sep-24	11-Oct-24	29-Dec-24*	18-Jan-25	-397	0%						
1/F														
S3C2300	Installation of Deodorisation System (DOU) No.4	27	30-Sep-24	13-Nov-24	30-Sep-24 A	16-Jan-25	-395	65.38%						
S3C2350	Installation of Pipeworks, Associate Valves and Fittings	25	02-Sep-24	31-Oct-24	02-Sep-24 A	14-Jan-25	-393	82.88%						
S3C2560	Installation of Instruments	25	17-Sep-24	31-Oct-24	17-Sep-24 A	14-Jan-25	-393	80.92%						
S3C2570	Installation of Actuator	21	21-Sep-24	11-Oct-24	29-Dec-24*	18-Jan-25	-397	0%						
Electrical Installations														
S3C2370	Installation of Electrical system - Cable Containment	20	04-Mar-24	05-Nov-24	04-Mar-24 A	09-Jan-25	-387	93.49%						
S3C2390	Installation of Electrical system - Wall Mount Equipment, Conduit & Wiring	20	24-Jun-24	31-Oct-24	24-Jun-24 A	09-Jan-25	-151	90.1%						
S3C2410	Power Cable laying and Termination	24	05-Sep-24	19-Oct-24	05-Sep-24 A	13-Jan-25	-387	83.1%						
S3C2420	Installation of Gas Detection System	25	02-Oct-24	26-Oct-24	21-Dec-24*	14-Jan-25	-393	0%						

	File Name: DE/2018/03 3M 241220 Layout: DE1803 (Progress -3M) Page 2 of 8	 Remaining Work  Critical Activity  Milestone  Actual Progress  RP Rev39	 RP Rev39 MS  Actual Milestone	Contract No. DE/2018/03 Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities 3 Months Rolling Programme (Based on RP Rev.50) as at 20 Dec 2024	Based on DE/2018/03 Revised Programme Rev.39			
					Date	Revision	Checked	Approved
					20-Dec-24	Rev. 0	IM/LT	SY

Activity ID	Activity Name	Remaining Duration	BL Start (DE/2018/03 RP R39)	BL Finish (DE/2018/03 RP R39)	Start	Finish	Total Float	Activity % Complete	2024		2025			
									Dec	Jan	Feb	Mar		
									63	64	65	66		
S3C2430	Installation of Online Monitoring instrument / Level Control Equipment	24	02-Oct-24	31-Oct-24	21-Oct-24 A	13-Jan-25	-393	20%						
S3C2440	Installation of Electrical system - Lighting and Small Power Accessories	20	10-Sep-24	31-Oct-24	10-Sep-24 A	09-Jan-25	-151	82.3%						
S3C2580	Installation of UPS	7	21-Nov-24	27-Nov-24	10-Jan-25*	16-Jan-25	-77	0%						
BS Equipment Installation														
S3C2460	Installation of FS system - Main Pipework	16	18-May-24	31-Oct-24	18-May-24 A	05-Jan-25	-212	92.98%						
S3C2480	Installation of FS system - Branch Pipework, Conduit & Wiring	16	28-Jun-24	31-Oct-24	28-Jun-24 A	05-Jan-25	-212	91.44%						
S3C2490	Installation of MVAC system - Ceiling Mount Equipment, Main Ductwork & Pipe	16	10-Jun-24	31-Oct-24	10-Jun-24 A	05-Jan-25	-147	92.2%						
S3C2500	Installation of MVAC system - Wall Mount Equipment, Branch Duct & pipework	16	30-Jul-24	31-Oct-24	30-Jul-24 A	05-Jan-25	-147	89.68%						
S3C2520	Installation of FS system - Dropper, Sprinkler Head, Detector & Devices	16	02-Oct-24	31-Oct-24	11-Nov-24 A	05-Jan-25	-212	46.67%						
S3C2530	Installation of MVAC system - Air Grills & Diffuser	16	02-Oct-24	31-Oct-24	11-Nov-24 A	05-Jan-25	-147	46.67%						
Testing & Commissioning														
For KD3A- Completion of Phase 1 Commissioning - 15 Jan 2024														
SAT of Sidestream Facilities														
S3T1000	Pipe Pressure Test	30	02-Sep-24	05-Nov-24	02-Sep-24 A	19-Jan-25	-388	79.45%						
S3T1020	SAT for Chemical Dosing system (i.e.NaOH, Micro-Nutrient and Defoamer)	30	13-Nov-24	12-Dec-24	22-Jan-25	20-Feb-25	-340	0%						
S3T1030	Dry Test for Pumps	14	18-Oct-24	31-Oct-24	21-Dec-24*	03-Jan-25	-382	0%						
S3T1040	SAT for Drum Sludge Thickener System	12	31-Oct-24	11-Nov-24	19-Jan-25	30-Jan-25	-397	0%						
S3T1050	SAT for SCADA System (STF)	20	21-Oct-24	12-Nov-24	18-Jan-25	06-Feb-25	-404	0%						
S3T1060	SAT for Air blowers and Ancillary Air Blower	9	03-Nov-24	09-Nov-24	21-Dec-24*	29-Dec-24	-372	0%						
S3T1070	Wet Test for Pumps	10	01-Nov-24	10-Nov-24	10-Jan-25	19-Jan-25	-388	0%						
S3T1080	SAT for DOU no.4	12	01-Nov-24	12-Nov-24	17-Jan-25	28-Jan-25	-395	0%						
S3T1090	SAT for mixer	13	31-Oct-24	12-Nov-24	18-Jan-25	30-Jan-25	-404	0%						
S3T1100	SAT for Primary clarifier	30	04-Nov-24	03-Dec-24	10-Jan-25	08-Feb-25	-93	0%						
S3T1110	SAT for Secondary clarifier	30	01-Oct-24	30-Oct-24	21-Dec-24	19-Jan-25	-386	0%						
S3T1130	Functional Test for Pumps	7	06-Nov-24	12-Nov-24	15-Jan-25	21-Jan-25	-388	0%						
S3T1140	SAT for Phospaq Reactor	7	06-Nov-24	12-Nov-24	14-Jan-25	20-Jan-25	-387	0%						
S3T1150	SAT for Anammox Reactor	7	06-Nov-24	12-Nov-24	14-Jan-25	20-Jan-25	-387	0%						
S3T1152	SAT for Gas Detection System	12	31-Oct-24	11-Nov-24	15-Jan-25	26-Jan-25	-393	0%						
S3T1154	SAT for Instrumentation	12	01-Nov-24	12-Nov-24	15-Jan-25	26-Jan-25	-393	0%						
S3T1164	SAT for Actuators	12	01-Nov-24	12-Nov-24	19-Jan-25	30-Jan-25	-397	0%						
S3T1174	SAT for UPS	7	28-Nov-24	04-Dec-24	17-Jan-25	23-Jan-25	-77	0%						
Process Start Up & Phase 1 Commissioning Test														
S3T1158	Temporary Power Supply for STF	180	13-Nov-24	11-May-25	07-Feb-25	05-Aug-25	163	0%						
S3T1160	Power Energization (Power Provision from DE/2018/04 Contract)	0	01-Jan-25	01-Jan-25	14-Jan-25	14-Jan-25*	-13	0%						
S3T1170	Process Start Up	78	13-Nov-24	21-Jan-25	07-Feb-25*	25-Apr-25	-404	0%						
S3T1180	Existing sludge dewatering facilities Ready (by DE/2018/04 Contract)	0		12-Nov-24		06-Feb-25	-404	0%						
S3T1190	Plant service water from zone B/C Ready (Zone B by DE/2018/04 Contract)	0		12-Nov-24		06-Feb-25	-404	0%						
For Section 3 Completion - Remaining Commissioning Works - 05 Jun 2024														
S3T1240	SAT for FS system	30	01-Nov-24	30-Nov-24	06-Jan-25	04-Feb-25	-212	0%						
S3T1250	SAT for P&D system	30	01-Nov-24	30-Nov-24	21-Dec-24	19-Jan-25	-131	0%						
S3T1260	SAT for MVAC System	30	01-Nov-24	30-Nov-24	06-Jan-25	04-Feb-25	-147	0%						
S3T1270	Essential T&C for FSD Inspection	30	01-Dec-24	30-Dec-24	05-Feb-25	06-Mar-25	-212	0%						
S3T1280	SAT for Electrical System (BS)	30	06-Nov-24	05-Dec-24	10-Jan-25	08-Feb-25	-151	0%						
Statutory Submission / Inspection (FSD)														
S3S1030	Submit WWO46 Part IV to WSD (FS / PD)	0	29-May-24		06-Jan-25		-187	0%						
S3S1040	WSD Inspection	7	12-Jun-24	18-Jun-24	20-Jan-25	26-Jan-25	-187	0%						
S3S1050	Issuance of FS Water Certificate	0		02-Jul-24		09-Feb-25	-187	0%						
S3S1060	Issuance of Form WWO46 Part Va	0		02-Jul-24		09-Feb-25	-123	0%						
S3S1070	System Flushing / Sampling	45	03-Jul-24	16-Aug-24	10-Feb-25	26-Mar-25	-123	0%						
S3S1110	Submit Application to FSD for DG Licence	0	19-Apr-24		22-Jan-25		-217	0%						
S3S1120	D.G. Inspection, Defects Rectification & Re-inspection (Ventilation Division)	14	10-May-24	30-May-24	05-Feb-25	18-Feb-25	-217	0%						
S3S1130	D.G. Inspection, Defects Rectification & Re-inspection (DG Division)	14	31-May-24	20-Jun-24	19-Feb-25	04-Mar-25	-217	0%						
S3S1140	DG Licence issued	0		04-Jul-24		11-Mar-25	-217	0%						
S3S1150	Prepare & Submit FS/314, FS/501 & FS/501a	14	31-Dec-24	13-Jan-25	12-Mar-25	25-Mar-25	-217	0%						
Section 5 - Complete all remaining Works (incl. T&C)														
Fabrication, FAT & Delivery of Major Plant & Materials														
S5P1090	Fabrication and Delivery of UPS	20	15-Dec-23	20-May-24	15-Dec-23 A	09-Jan-25	-385	93.13%						
Sludge Dewatering Building														



File Name: DE/2018/03 3M 241220
Layout: DE1803 (Progress -3M)
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Remaining Work

Critical Activity

Milestone

Actual Progress

RP Rev39

RP Rev39 MS

Actual Milestone

Contract No. DE/2018/03

Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1

Sidestream Treatment Facilities and E&M Works for Sluge Treatment Faciliteis

3 Months Rolling Programme (Based on RP Rev.50) as at 20 Dec 2024

Based on DE/2018/03 Revised Programme Rev.39

Date	Revision	Checked	Approved
20-Dec-24	Rev. 0	IM/LT	SY

Activity ID	Activity Name	Remaining Duration	BL Start (DE/2018/03 RP R39)	BL Finish (DE/2018/03 RP R39)	Start	Finish	Total Float	Activity % Complete	2024		2025				
										Dec 63		Jan 64	Feb 65	Mar 66	
Procurement, Fabrication, FAT & Delivery of Major Plant & Materials															
Mechanical															
Fabrication and FAT															
S5SDBP1230	Fabrication and FAT of Sludge Skip (PS Screen & Dewatering Screen)	30	31-Jan-24	30-Mar-24	31-Jan-24 A	19-Jan-25	-409	87.7%							
Delivery															
S5SDBP1530	Delivery of Sludge Skip (PS Screen & Dewatering Screen)	14	31-Jul-23	29-Aug-23	20-Jan-25	02-Feb-25	-409	0%							
Installation															
NCE-PMI-0325 - Provision of 2 nos of 3 Tons Mobile A-frame with Electrical Hoist in SDB															
E&M Installation															
Basement															
Mechanical															
S5SDBC1080	Installation of Instruments	10	01-Mar-24	30-Oct-24	01-Mar-24 A	30-Dec-24	-398	96.06%							
Electrical															
S5SDBC1185	Installation of Control Cable Laying	30	21-Sep-24	31-Oct-24	21-Sep-24 A	19-Jan-25	-423	26.83%							
Ground Floor															
Mechanical															
S5SDBC1210	Installation of DOU Ductworks	10	18-Sep-24	20-Nov-24	18-Sep-24 A	30-Dec-24	-381	77.78%							
S5SDBC1220	Installation of Instruments	19	01-Feb-24	30-Oct-24	01-Feb-24 A	08-Jan-25	-407	92.4%							
S5SDBC1240	Installation of Process Pipe	10	11-Dec-23	30-Oct-24	11-Dec-23 A	30-Dec-24	-398	96.9%							
S5SDBC1300	Position of Sludge Skips and Installation of Hydraulic System	7	01-Dec-24	07-Dec-24	03-Feb-25	09-Feb-25	-409	0%							
Electrical															
S5SDBC1320	Installation of Electrical System - Wall Mount Equipment, Conduit & Wiring	10	03-Jan-24	03-Nov-24	03-Jan-24 A	30-Dec-24	-406	96.52%							
S5SDBC1330	Installation of Electrical System - Lighting and Small Power Accessories	10	13-May-24	03-Nov-24	13-May-24 A	30-Dec-24	-406	93.79%							
S5SDBC1340	Installation of Control Cable Laying	11	01-Oct-24	30-Oct-24	21-Sep-24 A	31-Dec-24	-404	63.33%							
S5SDBC1900	Installation of UPS	7	21-May-24	27-May-24	10-Jan-25	16-Jan-25	-385	0%							
First Floor															
Mechanical															
S5SDBC1410	Installation of Instruments	20	21-Sep-24	20-Oct-24	01-Nov-24 A	09-Jan-25	-408	33.33%							
S5SDBC1460	Installation of Process Pipe	20	03-Jan-24	01-Oct-24	03-Jan-24 A	09-Jan-25	-408	93.36%							
Electrical															
S5SDBC1530	Installation of Control Cable Laying	20	22-Dec-23	31-Oct-24	22-Dec-23 A	09-Jan-25	-413	92.96%							
S5SDBC1550	Installation of Electrical System - Wall Mount Equipment, Conduit & Wiring	20	15-Jul-24	31-Oct-24	15-Jul-24 A	09-Jan-25	-416	55.56%							
S5SDBC1560	Installation of Electrical System - Lighting and Small Power Accessories	11	15-Jul-24	14-Apr-25	15-Jul-24 A	09-Jan-25	-416	63.33%							
S5SDBC1910	Installation of UPS	7	21-Nov-24	27-Nov-24	10-Jan-25	16-Jan-25	-385	0%							
BS Installation															
Ground Floor															
S5SDBC1880	Installation of Gas Detection System	30	01-Nov-24	30-Nov-24	20-Jan-25	18-Feb-25	301	0%							
First Floor															
S5SDBC1800	Installation of FS System - Branch pipework, Conduit & Wiring	20	16-Jan-23	30-Sep-24	16-Jan-23 A	09-Jan-25	-401	96.79%							
S5SDBC1810	Installation of FS System - Dropper, Sprinkler Head, Detector & Devices	9	21-Sep-24	10-Oct-24	11-Nov-24 A	09-Jan-25	-401	55%							
S5SDBC1890	Installation of Gas Detection System	30	01-Nov-24	30-Nov-24	20-Jan-25	18-Feb-25	301	0%							
Testing and Commissioning															
S5SDBT1000	Dry Test for Pumps	14	18-Oct-24	31-Oct-24	22-Dec-24	04-Jan-25	-394	0%							
S5SDBT1010	Functional Check for Pumps (excluded FS Water Pumps and Process Water	14	15-Nov-24	28-Nov-24	24-Jan-25	06-Feb-25	-406	0%							
S5SDBT1020	Functional Check for Pumps (FS Water Pumps and Process Water Pumps)	14	15-Nov-24	28-Nov-24	24-Jan-25	06-Feb-25	-406	0%							
S5SDBT1030	Permanent Power ready for T&C	0	18-Oct-24		22-Dec-24		-388	0%							
S5SDBT1040	Pipe Pressure Test	27	02-Sep-24	31-Oct-24	02-Sep-24 A	16-Jan-25	-406	55%							
S5SDBT1050	Ready for Power Energisation - LV	1	17-Oct-24	17-Oct-24	21-Dec-24*	21-Dec-24	-397	0%							
S5SDBT1060	SAT for Sludge Conveying and Discharge System	29	18-Oct-24	15-Nov-24	22-Dec-24	19-Jan-25	-388	0%							
S5SDBT1070	SAT for Lift	29	18-Oct-24	15-Nov-24	22-Dec-24	19-Jan-25	-381	0%							
S5SDBT1080	SAT for Polymer Preparation, Storage and Dosing system for Thickening and	29	18-Oct-24	15-Nov-24	22-Dec-24	19-Jan-25	-388	0%							
S5SDBT1090	SAT for Sludge Dewatering Centrifuges	29	18-Oct-24	15-Nov-24	22-Dec-24*	19-Jan-25	-388	0%							
S5SDBT1100	SAT for Sludge Thickening Cnetrifuge	29	18-Oct-24	15-Nov-24	22-Dec-24	19-Jan-25	-388	0%							
S5SDBT1130	SAT of Electrical System (BS)	45	04-Nov-24	18-Dec-24	10-Jan-25	23-Feb-25	-416	0%							
S5SDBT1140	SAT of Emergency Generator System	15	21-Sep-24	05-Oct-24	21-Dec-24	04-Jan-25	-366	0%							
S5SDBT1150	SAT of FS System	30	18-Oct-24	16-Nov-24	10-Jan-25	08-Feb-25	-401	0%							
S5SDBT1160	SAT of Instrumentation	30	31-Oct-24	29-Nov-24	10-Jan-25	08-Feb-25	-408	0%							
S5SDBT1170	SAT of Mixer (Excluded Mixer for PS holding tank)	30	28-Sep-24	27-Oct-24	21-Dec-24	19-Jan-25	-388	0%							
S5SDBT1175	SAT of Primary Sludge Holding Tanks and Mixer	45	09-Oct-24	22-Nov-24	21-Dec-24	03-Feb-25	-403	0%							
S5SDBT1178	SAT of Digested Sludge Holding Tanks and Mixer	31	30-Oct-24	29-Nov-24	21-Dec-24	20-Jan-25	-389	0%							

	File Name: DE/2018/03 3M 241220 Layout: DE1803 (Progress -3M) Page 4 of 8	Remaining Work Critical Activity Actual Progress RP Rev/39 ◆ Remaining Work ◆ Critical Activity ◆ Actual Progress ◆ RP Rev/39	Contract No. DE/2018/03 Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities 3 Months Rolling Programme (Based on RP Rev.50) as at 20 Dec 2024	Based on DE/2018/03 Revised Programme Rev.39 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 25%;">Date</th> <th style="width: 25%;">Revision</th> <th style="width: 25%;">Checked</th> <th style="width: 25%;">Approved</th> </tr> <tr> <td>20-Dec-24</td> <td>Rev. 0</td> <td>IM/LT</td> <td>SY</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>	Date	Revision	Checked	Approved	20-Dec-24	Rev. 0	IM/LT	SY												
	Date	Revision	Checked	Approved																				
	20-Dec-24	Rev. 0	IM/LT	SY																				

Activity ID	Activity Name	Remaining Duration	BL Start (DE/2018/03 RP R39)	BL Finish (DE/2018/03 RP R39)	Start	Finish	Total Float	Activity % Complete	2024				2025			
									Dec		Jan		Feb		Mar	
									63		64		65		66	
S5SDBT1180	SAT of MVAC System	29	18-Oct-24	15-Nov-24	22-Dec-24	19-Jan-25	-381	0%								
S5SDBT1190	SAT of Plumbing System	30	18-Oct-24	16-Nov-24	22-Dec-24	20-Jan-25	-382	0%								
S5SDBT1210	SAT of Sludge Blending System (included PS Screen Feed Pumps, Sludge S	45	21-Sep-24	04-Nov-24	21-Dec-24	03-Feb-25	-403	0%								
S5SDBT1220	Wet Test for Pumps (excluded FS Water Pumps and Process Water Pumps)	14	01-Nov-24	14-Nov-24	17-Jan-25	30-Jan-25	-406	0%								
S5SDBT1230	Wet Test for Pumps (FS Water Pumps and Process Water Pumps)	14	01-Nov-24	14-Nov-24	17-Jan-25	30-Jan-25	-406	0%								
S5SDBT1240	SAT of Gas Detection System	30	01-Dec-24	30-Dec-24	19-Feb-25	20-Mar-25	301	0%								
S5SDBT1245	SAT of UPS	7	28-Nov-24	04-Dec-24	17-Jan-25	23-Jan-25	-385	0%								
Combined Heat & Power Building																
Fabrication, FAT & Delivery of Major Plant & Materials																
S5CHPP1040	Fabrication & Delivery of Gas Detection System	30	15-May-23	02-Feb-24	28-Jul-23 A	19-Jan-25	-302	93.9%								
Installation																
E&M Installation																
Ground Floor																
S5CHPC1050	Installation of CHP System - Mechanical Work	30	26-Apr-23	20-Nov-24	26-Apr-23 A	19-Jan-25	-380	94.78%								
S5CHPC1070	Installation of pipework	10	02-Jan-24	31-Oct-24	02-Jan-24 A	30-Dec-24	-412	96.71%								
S5CHPC1100	Installation of Electrical System	20	04-Dec-23	30-Oct-24	04-Dec-23 A	09-Jan-25	-421	93.99%								
S5CHPC1120	Installation of SCADA System	20	05-Jan-24	31-Oct-24	05-Jan-24 A	09-Jan-25	-352	81.98%								
S5CHPC1150	Diesel Storage & Pump Room Installation	22	15-Mar-24	22-Nov-24	15-Apr-24 A	11-Jan-25	-236	89%								
S5CHPC1410	Installation of Gas Detection System	30	01-Nov-24	30-Nov-24	20-Jan-25	18-Feb-25	-302	0%								
S5CHPC1430	Installation of UPS	7	21-Nov-24	27-Nov-24	10-Jan-25	16-Jan-25	-246	0%								
First Floor																
S5CHPC1200	Installation of pipework	10	08-Jan-24	28-Oct-24	08-Jan-24 A	30-Dec-24	-412	96.62%								
S5CHPC1230	Installation of Electrical System	10	06-Nov-23	28-Oct-24	06-Nov-23 A	30-Dec-24	-390	97.21%								
S5CHPC1250	Installation of SCADA System (Digester, H2S removal system, Biogas Holding	34	11-Oct-24	08-Jan-25	21-Dec-24*	23-Jan-25	-272	0%								
S5CHPC1255	Installation of SCADA System (THP, Dou12)	51	18-Nov-24	07-Jan-25	24-Jan-25	15-Mar-25	-272	0%								
S5CHPC1400	Installation of Gas Detection System	30	01-Nov-24	30-Nov-24	20-Jan-25	18-Feb-25	-302	0%								
S5CHPC1420	Cable Laying and termination	20	10-Jul-24	19-Nov-24	10-Jul-24 A	09-Jan-25	-400	82.46%								
S5CHPC1440	Installation of UPS	7	21-Nov-24	27-Nov-24	10-Jan-25	16-Jan-25	-246	0%								
Roof																
S5CHPC1290	Installation of Electrical System	20	18-Mar-24	24-Apr-24	18-Mar-24 A	09-Jan-25	-400	91.23%								
BS Installation																
Ground Floor																
S5CHPC1080	Installation of FS System	10	27-Feb-23	30-Nov-24	27-Feb-23 A	30-Dec-24	-210	98.37%								
Testing and Commissioning																
S5CHPT1000	Pipe Pressure Test	90	01-Nov-24	29-Jan-25	31-Dec-24	30-Mar-25	-412	0%								
S5CHPT1022	SAT of Instrumentation (Excluded Biogas Circuit)	30	21-Nov-24	20-Dec-24	10-Jan-25	08-Feb-25	-352	0%								
S5CHPT1024	SAT for CHP System (Test without Biogas)	90	21-Dec-24	20-Mar-25	09-Feb-25	09-May-25	-352	0%								
S5CHPT1040	SAT for Biogas Pre-treatment System	60	01-Dec-24	29-Jan-25	30-Jan-25	30-Mar-25	-312	0%								
S5CHPT1050	SAT for Steam Boiler System	60	13-Feb-25	13-Apr-25	08-Feb-25	08-Apr-25	-421	0%								
S5CHPT1060	SAT for Ventailation System (CHP System)	45	21-Nov-24	04-Jan-25	20-Jan-25	05-Mar-25	-287	0%								
S5CHPT1070	SAT for Gas Detection System	30	01-Dec-24	29-Jan-25	19-Feb-25	20-Mar-25	-302	0%								
S5CHPT1080	SAT for UPS	7	28-Nov-24	04-Dec-24	17-Jan-25	23-Jan-25	-246	0%								
Tx Rm & LV Switchroom (for UV)																
Testing and Commissioning																
S5TXRT1010	Ready for Power Energisation	1	26-Nov-24	26-Nov-24	21-Dec-24	21-Dec-24	-374	0%								
Sludge Digesters & Distribution Chamber																
Installation																
E&M Installation																
Distribution Chamber																
S5DIGC1270	Installation of Gas Detection System	30	01-Nov-24	30-Nov-24	20-Jan-25	18-Feb-25	-182	0%								
BS Installation																
Distribution Chamber																
S5DIGC1280	Installation of FS System	10	25-Aug-23	20-Nov-24	25-Aug-23 A	30-Dec-24	-210	96%								
Testing and Commissioning																
S5DIGT1000	Pipe Pressure Test	17	01-Aug-24	07-Nov-24	01-Aug-24 A	06-Jan-25	-375	83.96%								
S5DIGT1015	SAT of Instrumentation	21	21-Nov-24	11-Dec-24	24-Jan-25	13-Feb-25	-413	0%								
S5DIGT1018	SAT for Digested Sludge Recirculation Pumps	21	21-Nov-24	11-Dec-24	24-Jan-25	13-Feb-25	-413	0%								
S5DIGT1030	SAT for Gas detection System	30	01-Dec-24	30-Dec-24	19-Feb-25	20-Mar-25	-182	0%								
S5DIGT1040	Purging for Digester Tank	7	12-Dec-24	18-Dec-24	14-Feb-25	20-Feb-25	-413	0%								
JEC File Name: DE/2018/03 3M 241220 Layout: DE1803 (Progress -3M) Page 5 of 8 Remaining Work Critical Activity Milestone Actual Progress RP Rev.39 RP Rev.39 MS Actual Milestone									Contract No. DE/2018/03				Based on DE/2018/03 Revised Programme Rev.39			
									Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1				Date	Revision	Checked	Approved
									Sidestream Treatment Facilities and E&M Works for Sluge Treatment Faciliteis				20-Dec-24	Rev. 0	IM/LT	SY
									3 Months Rolling Programme (Based on RP Rev.50) as at 20 Dec 2024							

Activity ID	Activity Name	Remaining Duration	BL Start (DE/2018/03 RP R39)	BL Finish (DE/2018/03 RP R39)	Start	Finish	Total Float	Activity % Complete	2024				2025			
										Dec 63		Jan 64		Feb 65		Mar 66
Workshop No. 2																
Installation																
HV Switchroom / Transformer Room / LV Switchroom																
S5WS2C1085	Cable Laying and Termination	2	02-Mar-24	20-Oct-24	02-Mar-24 A	22-Dec-24	-166	99.18%								
S5WS2C1200	Installation of UPS	7	21-Nov-24	27-Nov-24	10-Jan-25	16-Jan-25	-126	0%								
Electrical and Building Services																
S5WS2C1160	Installation of Electrical System	41	03-Oct-22	30-Nov-24	03-Oct-22 A	30-Jan-25	-223	94.61%								
Testing and Commissioning																
S5WS2T1010	Ready for Power Energisation	1	25-Oct-24	25-Oct-24	24-Jan-25	24-Jan-25	-194	0%								
S5WS2T1020	SAT for Lift	60	26-Oct-24	24-Dec-24	25-Jan-25	25-Mar-25	-194	0%								
S5WS2T1030	SAT for UPS	7	28-Nov-24	04-Dec-24	17-Jan-25	23-Jan-25	-126	0%								
Biogas Storage																
E&M Installation																
Mechanical Installation																
S5BIOC1040	Mechanical Installation of Biogas Storage Tank 1	8	01-Jun-23	18-Nov-24	01-Jun-23 A	28-Dec-24	-374	98.51%								
Electrical Installation																
S5BIOC1060	Electrical Installation for Biogas Holding Tanks	52	17-Jun-24	20-Nov-24	17-Jun-24 A	10-Feb-25	-385	31.58%								
S5BIOC1070	Installation for Gas Detection System	30	01-Nov-24	30-Nov-24	20-Jan-25	18-Feb-25	-182	0%								
Testing and Commissioning																
S5BIOT1000	Ready for Power Energisation	1	20-Nov-24	20-Nov-24	20-Jan-25	20-Jan-25	-397	0%								
S5BIOT1020	SAT for Biogas Storage Tank 2	3	09-Nov-24	22-Nov-24	08-Nov-24 A	23-Dec-24	-354	78.57%								
S5BIOT1030	SAT for Biogas Storage Tank 1 (Include Purging of Tanks and associate pipeli	14	19-Nov-24	02-Dec-24	21-Jan-25	03-Feb-25	-397	0%								
S5BIOT1040	SAT for Gas Detection System	30	03-May-24	01-Jun-24	19-Feb-25	20-Mar-25	-182	0%								
S5BIOT1050	SAT for Biogas Tansfer and Booster Pumps	25	21-Nov-24	15-Dec-24	21-Jan-25	14-Feb-25	-148	0%								
THP Area																
E&M Installation																
Electrical Installation																
S5THPC1050	Electrical Installation for THP Facilities	19	15-Aug-24	08-Nov-24	15-Aug-24 A	08-Jan-25	-384	78.89%								
S5THPC1060	Installation of Control panel for THP	7	09-Nov-24	15-Nov-24	21-Dec-24*	27-Dec-24	-373	0%								
S5THPC1070	Cable Laying and Termination	42	25-Nov-24	05-Jan-25	21-Dec-24*	31-Jan-25	-385	0%								
Testing and Commissioning																
S5THPT0005	SAT of LV switchboard	8	17-Nov-24	24-Nov-24	29-Dec-24	05-Jan-25	-373	0%								
S5THPT1000	Ready for Power Energisation	1	06-Jan-25	06-Jan-25	01-Feb-25	01-Feb-25	-385	0%								
S5THPT1005	SAT of Instrumentation	30	07-Jan-25	05-Feb-25	02-Feb-25	03-Mar-25	-385	0%								
H2S Removal Area																
Installation																
S5H2SC1020	E&M Installation of H2S Removal System	40	03-Jan-24	30-Nov-24	03-Jan-24 A	29-Jan-25	-404	87.95%								
Testing and Commissioning																
S5H2ST1000	Ready for Power Energisation	1	20-Nov-24	20-Nov-24	20-Jan-25	20-Jan-25	-410	0%								
S5H2ST1010	SAT of H2S Removal System	21	21-Nov-24	11-Dec-24	21-Jan-25	10-Feb-25	-410	0%								
Waste Gas Burning Area																
Installation																
S5WGBC1020	E&M Installation of Waste Gas Burning System	31	22-Feb-24	20-Nov-24	22-Feb-24 A	20-Jan-25	-326	86.04%								
Testing and Commissioning																
S5WGBT1000	Ready for Power Energisation	1	20-Nov-24	20-Nov-24	18-Jan-25	18-Jan-25	-324	0%								
S5WGBT1010	SAT for Flare (Waste Gas Burning System)	28	21-Nov-24	18-Dec-24	21-Jan-25	17-Feb-25	-326	0%								
Plant Service Water Area																
Installation																
S5PSWC1000	E&M Installation of Plant Service Water System	23	18-Mar-24	25-Nov-24	18-Mar-24 A	12-Jan-25	-397	90.46%								
Testing and Commissioning																
S5PSWT1000	Ready for Power Energisation	1	26-Nov-24	26-Nov-24	18-Jan-25	18-Jan-25	-402	0%								
S5PSWT1005	SAT of Instrumentation	7	27-Nov-24	03-Dec-24	19-Jan-25	25-Jan-25	-402	0%								
S5PSWT1010	SAT & System Commissioning Tests for Plant Services Water System	8	04-Dec-24	11-Dec-24	26-Jan-25	02-Feb-25	-402	0%								
DO Area																
Installation																
S5DOUC1030	E&M Installation of DO System No.11	31	02-Feb-24	20-Nov-24	02-Feb-24 A	20-Jan-25	-402	89.16%								
S5DOUC1040	E&M Installation of DO System No.12	31	22-Feb-24	20-Nov-24	22-Feb-24 A	20-Jan-25	-407	88.35%								
	File Name: DE/2018/03 3M 241220 Layout: DE1803 (Progress -3M) Page 6 of 8		Remaining Work Critical Activity Milestone Actual Progress RP Rev39		RP Rev39 MS Actual Milestone		Contract No. DE/2018/03 Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 Sidestream Treatment Facilities and E&M Works for Sluge Treatment Faciliteis 3 Months Rolling Programme (Based on RP Rev.50) as at 20 Dec 2024					Based on DE/2018/03 Revised Programme Rev.39				
												Date	Revision	Checked	Approved	
												20-Dec-24	Rev. 0	IM/LT	SY	

Activity ID	Activity Name	Remaining Duration	BL Start (DE/2018/03 RP R39)	BL Finish (DE/2018/03 RP R39)	Start	Finish	Total Float	Activity % Complete	2024		2025			
										Dec	Jan		Feb	Mar
										63	64		65	66
Testing and Commissioning														
S5DOUT1000	Ready for Power Energisation of DO No.11	1	27-Nov-24	27-Nov-24	18-Jan-25	18-Jan-25	-400	0%						
S5DOUT1010	Ready for Power Energisation of DO No.12	1	21-Nov-24	21-Nov-24	20-Jan-25	20-Jan-25	-407	0%						
S5DOUT1020	SAT & System Commissioning Tests for DO System No.11	13	28-Nov-24	27-Dec-24	21-Jan-25	02-Feb-25	-402	0%						
S5DOUT1030	SAT & System Commissioning Tests for DO System No.12	25	22-Nov-24	21-Dec-24	21-Jan-25	14-Feb-25	-407	0%						
Sewage Pump Station														
Fabrication, FAT & Delivery of Major Plant & Materials														
S5SPSP1010	Fabrication & Delivery of LV Switchboard	13	28-Mar-23	02-Oct-24	28-Mar-23 A	02-Jan-25	-416	97.71%						
Installation														
E&M Installation														
S5SPSC1000	E&M Installation of Sewage Pump	28	18-Oct-23	17-Nov-24	17-Jul-23 A	17-Jan-25	-410	94.07%						
S5SPSC1001	LV Switchboard Installation	6	03-Oct-24	08-Oct-24	03-Jan-25	08-Jan-25	-416	0%						
S5SPSC1002	Cable Laying and Termination	28	21-Jun-24	17-Nov-24	21-Jun-24 A	17-Jan-25	-410	78.79%						
S5SPSC1012	SCADA System Installation	30			21-Jun-24 A	19-Jan-25	-415	77.44%						
BS Installation														
S5SPSC1020	BS Installation for Sewage Pumping Station	23	18-Jul-24	15-Sep-24	18-Jul-24 A	30-Jan-25	-241	78.3%						
Testing and Commissioning														
S5SPST0990	SAT of Switchboard	8	09-Oct-24	16-Oct-24	09-Jan-25	16-Jan-25	-416	0%						
S5SPST1000	Ready for Power Energisation	1	18-Nov-24	18-Nov-24	24-Jan-25*	24-Jan-25	-416	0%						
S5SPST1010	SAT & System Commissioning Tests for Sewage Pumping Station	23	19-Nov-24	11-Dec-24	25-Jan-25	16-Feb-25	-416	0%						
THP Cooling Water Transfer Pumping Station														
Installation														
S5TCWC1020	E&M Installation of THP Cooling Pump	25	18-Dec-23	14-Nov-24	18-Dec-23 A	14-Jan-25	-356	92.14%						
Testing and Commissioning														
S5TCWT1000	Ready for Power Energisation	4	27-Jan-25	30-Jan-25	27-Jan-25*	30-Jan-25	-368	0%						
S5TCWT1010	SAT for THP Cooling Water Pumping System	60	31-Jan-25	31-Mar-25	31-Jan-25	31-Mar-25	-368	0%						
Ferric Chloride Dosing Facility														
Fabrication, FAT & Delivery of Major Plant & Materials														
S5FCDP1020	Fabrication & Delivery of LV Switchboard	13	28-Mar-23	02-Jun-24	28-Mar-23 A	02-Jan-25	-415	97.71%						
Installation														
S5FCDC1030	E&M Installation of Ferric Chloride Dosing Pump	26	29-Jan-24	15-Nov-24	29-Jan-24 A	15-Jan-25	-399	91.36%						
S5FCDC1035	LV Switchboard Installation	8	23-Oct-24	30-Oct-24	10-Jan-25	17-Jan-25	-415	0%						
Testing and Commissioning														
S5FCDT0990	SAT of Switchboard	8	31-Oct-24	07-Nov-24	18-Jan-25	25-Jan-25	-415	0%						
S5FCDT1000	Ready for Power Energisation	1	27-Nov-24	27-Nov-24	01-Feb-25*	01-Feb-25	-415	0%						
S5FCDT1010	SAT & System Commissioning Tests for FeCl3 Dosing Facility	14	28-Nov-24	11-Dec-24	02-Feb-25	15-Feb-25	-415	0%						
Fire Hydrant and Booster Pump Room														
Installation														
S5SHPC1020	Fire Hydrant and Booster Pump Room Installation	71	10-Jun-24	30-Dec-24	10-Jun-24 A	01-Mar-25	-341	50.35%						
Testing and Commissioning														
S5SHPT1000	Ready for Power Energisation	3	31-Dec-24	02-Jan-25	02-Mar-25	04-Mar-25	-304	0%						
S5SHPT1010	SAT for Fire Hydrant and Booster Pump	30	03-Jan-25	01-Feb-25	05-Mar-25	03-Apr-25	-304	0%						
External Area														
Installation														
S5EXAC1030	LV Cable Laying from CHP to Sludge Digestor, Workshop no.2 and THP CW	34	18-Jul-24	24-Oct-24	18-Jul-24 A	23-Jan-25	-413	71.67%						
S5EXAC1045	E&M Installation of Pipe Trench No.1, No.2 (Duration assumed no interface w	72	01-Aug-24	31-Dec-24	01-Aug-24 A	02-Mar-25	-384	52.94%						
S5EXAC1050	LV Cable Laying from CHP to BHT, THP, DOU No.12, H2S removal & Guard I	30	01-Aug-24	14-Nov-24	01-Aug-24 A	19-Jan-25	-410	80%						
S5EXAC1070	LV Cable Laying from SDB to SPS (10 days) & Termination (20 days)	4	24-Sep-24	20-Oct-24	15-Nov-24 A	24-Dec-24	-386	89.74%						
S5EXAC1080	LV Cable Laying from TX & SW Room to DOU no. 11, Street Hydrant Pump r	28	24-Sep-24	19-Nov-24	18-Nov-24 A	17-Jan-25	-402	53.33%						
S5EXAC1090	LV Cable Laying from CHP to FeCl3 Dosing Facility and Waste Gas Burning S	28	24-Sep-24	19-Nov-24	18-Nov-24 A	17-Jan-25	-324	53.33%						
S5EXAC1100	Road Lighting Installation	180	21-Nov-24	19-May-25	21-Dec-24*	18-Jun-25	-380	0%						
S5EXAC1110	Landscape Lighting Installation	120	21-Nov-24	20-Mar-25	21-Dec-24*	19-Apr-25	-320	0%						
SAS Pumping Station														
Installation														
S5SASC1010	E&M Installation of SAS Pumping System	37	23-Mar-22	27-Oct-24	23-Mar-22 A	26-Jan-25	-349	95.38%						
S5SASC1040	Installation of UPS	7	21-Nov-24	27-Nov-24	10-Jan-25	16-Jan-25	-258	0%						
Testing and Commissioning														

Activity ID	Activity Name	Remaining Duration	BL Start (DE/2018/03 RP R39)	BL Finish (DE/2018/03 RP R39)	Start	Finish	Total Float	Activity % Complete	2024		2025		
									Dec 63	Jan 64	Feb 65	Mar 66	
S5SAST1000	SAT & System Commissioning Tests for SAS Pumping Station	45	28-Oct-24	11-Dec-24	27-Jan-25	12-Mar-25	-349	0%					
S5SAST1020	Ready for Power Energisation	1	21-Sep-24	21-Sep-24	21-Dec-24	21-Dec-24	-313	0%					
S5SAST1030	SAT for UPS	7	28-Nov-24	04-Dec-24	17-Jan-25	23-Jan-25	-258	0%					
Existing Consolidation House													
Installation													
S5EHC1000	E&M Installation of Existing Consolidation House	31	02-Oct-24	20-Nov-24	12-Oct-24 A	20-Jan-25	-410	38%					
Testing and Commissioning													
S5ECHT1000	SAT for Temporary Primary Sludge Pump	28	21-Nov-24	18-Dec-24	21-Jan-25	17-Feb-25	-410	0%					
Miscellaneous													
S5MISC1010	E&M Installation - Guard House	90	07-Oct-24	04-Jan-25	21-Dec-24*	20-Mar-25	-290	0%					
S5UVPC1000	E&M Installation of Lift-up Pumps & Associated Pipeworks / Valves	16	19-Jun-23	06-Oct-24	19-Jun-23 A	05-Jan-25	-382	96.84%					
Testing & Commissioning													
T&C of Control Monitoring System													
S5T1000	SAT of SCADA System (SPS and FeCl3)	34	27-Oct-24	10-Dec-24	20-Jan-25	22-Feb-25	-415	0%					
S5T1001	SAT of SCADA System (SAS PS)	60	13-Oct-24	11-Dec-24	12-Jan-25	12-Mar-25	-306	0%					
S5T1002	SAT of SCADA (SDB)	42	01-Nov-24	18-Dec-24	20-Jan-25	02-Mar-25	-423	0%					
S5T1003	SAT of SCADA (CHP System at CHP building) (Excluded Biogas Circuit)	120	01-Nov-24	28-Feb-25	10-Jan-25	09-May-25	-352	0%					
S5T1004	SAT of SCADA (WS2)	132	12-Dec-24	22-Apr-25	13-Mar-25	22-Jul-25	-306	0%					
S5T1006	SAT of SCADA (Transformer and Switchroom)	60	18-Oct-24	18-Dec-24	21-Dec-24	18-Feb-25	-411	0%					
S5T1220	SAT of SCADA (Sludge Anaerobic Digestion System at CHP Building)	60	18-Nov-24	16-Jan-25	24-Jan-25	24-Mar-25	-186	0%					
S5T1230	SAT of SCADA (THP system at CHP Building)	95	08-Jan-25	12-Apr-25	16-Mar-25	18-Jun-25	-272	0%					
S5T1240	SAT of SCADA (DO System at CHP building)	30	08-Jan-25	06-Feb-25	16-Mar-25	14-Apr-25	-207	0%					
S5T1250	SAT of SCADA (H2S Removal System at CHP building)	30	19-Nov-24	18-Dec-24	24-Jan-25	22-Feb-25	-156	0%					
S5T1260	SAT of SCADA (Biogas Holding Tank at CHP building)	31	30-Nov-24	30-Dec-24	18-Feb-25	20-Mar-25	-182	0%					
S5T1270	SAT of SCADA (for Sludge Thickening System at SDB Building)	40	01-Nov-24	10-Dec-24	20-Jan-25	28-Feb-25	-421	0%					
S5T1280	SAT of SCADA (for Sludge Dewatering System at SDB Building)	26	01-Nov-24	18-Dec-24	20-Jan-25	14-Feb-25	-407	0%					
T&C of E&M Process													
S5T1055	SAT of Sludge Thickening System including Sludge Thickening Centrifuge	7	12-Dec-24	18-Dec-24	22-Feb-25	28-Feb-25	-421	0%					
S5T1060	SAT of Sludge Dewatering System including Sludge Dewatering Centrifuge	7	12-Dec-24	18-Dec-24	16-Feb-25	22-Feb-25	-415	0%					
S5T1102	Sewage Pumping Station to inlet work pipework ready (by other)	0		18-Dec-24		02-Mar-25	-423	0%					
S5T1104	Sludge pipe from existing consolidation house to sludge transfer to SDB ready	0		15-Oct-24		02-Mar-25	-423	0%					
S5T1106	Sludge ready from Zone B	0		15-Oct-24		02-Mar-25	-423	0%					
S5T1110	Seeding Digester Tank no.4 (MAD) + SRT (3 Cycle)	84	19-Dec-24	24-Feb-25	03-Mar-25*	25-May-25	-423	0%					
S5T1122	Underground biogas pipe from SD to holding tank ready (by other)	0		04-Dec-24		16-Feb-25	-423	0%					
S5T1124	Sludge pipe from distribution chamber back to SDB (by other)	0		18-Dec-24		02-Mar-25	-423	0%					
Statutory Submission / Inspection													
HKT Submission													
S5S0990	Application of Telemetry Lines for Workshop No. 2.	180	01-Nov-24	29-Apr-25	01-Jan-25	29-Jun-25	-223	0%					
EMSD Submission / Inspection													
S5S1070	Application for Approval of Use of Notifiable Gas Installation (Form 105) & EMS	15	01-Sep-24	15-Oct-24	21-Jan-25	04-Feb-25	-397	0%					
WSD Submission / Inspection													
S5S1130	Submit WWO46 Part IV to WSD (FS)	0	31-Dec-24		02-Mar-25		-341	0%					
S5S1140	WSD Inspection (FS)	28	14-Jan-25	10-Feb-25	16-Mar-25	12-Apr-25	-341	0%					
S5S1160	Submit WWO46 Part IV to WSD (PD)	0	23-Sep-24		21-Dec-24*		-416	0%					
S5S1170	WSD Inspection	7	07-Oct-24	13-Oct-24	04-Jan-25	10-Jan-25	-416	0%					
S5S1180	Issuance of Form WWO46 Part Va	0		27-Oct-24		10-Jan-25	-416	0%					
S5S1190	System Flushing / Sampling	30	14-Oct-24	27-Nov-24	11-Jan-25	09-Feb-25	-416	0%					
S5S1200	Issuance of Form WWO46 Part Vb	0		27-Nov-24		09-Feb-25	-416	0%					
S5S1210	Issuance of Water Certificate	0		11-Dec-24		23-Feb-25	-416	0%					
FSD Submission / Inspection													
S5S1290	D.G. Inspection, Defects Rectification & Re-inspection (Ventilation Division)	0	07-Dec-24	27-Dec-24	03-Dec-24 A	18-Dec-24 A		100%					
S5S1300	D.G. Inspection, Defects Rectification & Re-inspection (DG Division)	0	28-Dec-24	17-Jan-25	03-Dec-24 A	18-Dec-24 A		100%					
S5S1310	Issue D.G. Licence	14	18-Jan-25	31-Jan-25	12-Jan-25	25-Jan-25	-236	0%					

Updated on:												20-Nov-24	
Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status	
		Contract Planned Commencem ent Date	Anticipated / Actual Commencem ent Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %			
Drawing Submission for Key Dates													
KD1A: Submission of civil and dimensional requirement drawing, electrical schematic drawings, etc. from formation level up to +8mPD in accordance with the contract requirement of Contract No. DC/2018/07 to carry out civil works construction	KD1A: Submission of Civil Requirement Drawing (Final)	28/8/2020	18/9/2020	5/11/2020	5/11/2020	Task Completed	no.	26	26	100%			
	KD1A: Submission of Electrical Schematic Drawing (Final)	15/7/2020	15/7/2020	5/11/2020	5/11/2020	Task Completed	no.	11	11	100%			
	KD1A: 6 November 2020												
KD1B: Submission of remaining civil and dimensionnal requirement drawings, electrical schematic drawing, etc. in accordance with the contract requirement of Contract No. DC/2018/07 to carry out civil works construction	KD1B: Submission of Civil Requirement Drawing (First Draft)	30/9/2020	28/9/2020	30/12/2020	31/3/2021	Task Completed	no.	47	47	100%			
	KD1B: Submission of Civil Requirement Drawing (Final)	6/11/2020	5/11/2020	4/6/2021	4/6/2021	Task Completed	no.	47	47	100%		All the CWR Drawings were submitted.	
	KD1B: 4 June 2021												
KD3A: 04SC010 - Dismantle & Removal of Emergency Generators in existing Power House	Submission of subletting package for acceptance (C9)	1/3/2020	24/2/2020	14/3/2020	22/4/2020	Task Completed				100%	-	Bestwise resubmitted on 22 April 2020	
	Acceptance of subletting package (C9)	14/3/2020	6/5/2020	1/4/2020	5/5/2020	Task Completed				100%	-	AECOM accepted subletting package on 5 May 2020	
	Tender invitation (C9)	1/4/2020	15/5/2020	15/4/2020	22/5/2020	Task Completed				100%	-	Invitation to tender was commenced on 12 May 2020 and tender returned on 22 May 2020	
	Tender award (C9)	15/4/2020	22/5/2020	29/4/2020	26/5/2020	Task Completed				100%	-	Bestwise submitted tender report on 26 May 2020	
	Acceptance of tender award (C9)	-	-	-	6/6/2020	Task Completed				100%	-	AECOM accepted tender report on 2 June 2020, Letter of Acceptance was issued on 6 June	
	Dismantle of existing BS equipment		15/6/2020		25/7/2020	Task Completed				100%			
	Removal of emergency generators	1/6/2020	15/6/2020	30/6/2020	25/7/2020	Task Completed				100%			
KD3A: 04SC010 - Dismantle & Removal of Emergency Generators in existing Power House	KD3A: Testing and Comissioning	1/7/2020	3/7/2020	29/7/2020	29/7/2020	Task Completed				100%		First test was conducted on 3 July 2020. Remaining test would be subjected to completion of civil works. KD3A - 29 July 2020. Joint Site Inspection was conducted on 24 July 2020 and Notice of completion of work was submitted on 28 July 2020	
	KD3A: 29 July 2020												
KD3B: 6B.2.15 Operation Restoration of Existing Primary Sedimentation Tank (PST) No. 4 and 6	Submission of onsite survey plan on E&M aspects for	1/3/2020	25/3/2020	30/3/2020	27/4/2020	Task Completed				100%	-	Bestwise resubmitted onsite survey plan on 27 April 2020	
	Acceptance of submission of onsite survey plan	1/3/2020	25/3/2020	30/3/2020	22/5/2020	Task Completed				100%	-	AECOM accepted the onsite survey plan on 22 May 2020. Onsite coordination with ST1	
	KD3B: Submission of onsite survey report	11/7/2020	20/7/2020	16/7/2020	30/7/2021	Task Completed				100%	Bestwise	- Onsite survey conducted from 20 July 2020 to 22 July 2020. Bestwise submitted survey report on 5 August 2020. AECOM commented on 19 Aug 2020. Bestwise to resubmit upon conducting the remaining onsite survey. (Done) - Bestwise revised survey plan for remaining onsite checking of PST No. 6 on 1 Sep 2020. After discussion with plant operator, the remaining survey would be conducted after the dismantling work of PSTs. Formal survey record for PST No.4 was submitted on 24 May 2021. - Remaining survey (level of bridge & scraper) for PST 6 completed. - Formal survey report shall be submitted on 30 Jul 2021.	
	KD3B: Acceptancce of onsite survey report	17/7/2020	6/8/2020	23/7/2020	6/8/2021	Task Completed				-		Acceptance for the center point, vertical and horizontal alignment of ductfoot installation of PST No.4 shall subject to joint site meeting conducted on 2 June 2021. Refer to E-RISC no. 000014A & 000016 result for details.	
	KD3B: Preparation of procurement package (C11)	2/12/2019	1/8/2020	13/4/2020	7/8/2020	Task Completed				100%			
	KD3B: Tender invitation - Clarifier (C11)	2/12/2019	14/8/2020	13/4/2020	26/8/2020	Task Completed				100%			
	KD3B: Tender Award - Clarifier (C11)	2/12/2019	26/8/2020	13/4/2020	25/9/2020	Task Completed				100%			
	KD3B: Acceptance of tender award (C11)	2/12/2019	11/9/2020	13/4/2020	18/9/2020	Task Completed				-			
	KD3B: Tender invitation - DI Pipe (C11)	2/12/2019	13/1/2021	13/4/2020	19/1/2021	Task Completed				100%			
	KD3B: Tender Award - DI Pipe (C11)	2/12/2019	21/1/2021	13/4/2020	23/1/2021	Task Completed				100%			
	KD3B: Tender invitation - LCP (C11)	2/12/2019	3/2/2021	13/4/2020	5/2/2021	Task Completed							
	KD3B: Tender Award - LCP (C11)	2/12/2019	6/2/2021	13/4/2020	8/2/2021	Task Completed				100%			
	KD3B: Preparation of subletting package for dismantling work (C9)	2/12/2019	21/9/2020	13/4/2020	21/10/2020	Task Completed				100%			
	KD3B: Tender invitation for dismantling work (C9)	2/12/2019	12/11/2020	13/4/2020	19/11/2020	Task Completed				100%			
	KD3B: Tender Award for dismantling work (C9)	2/12/2019	20/11/2020	13/4/2020	22/11/2020	Task Completed				100%			
	KD3B: Acceptance of tender award for dismantling	2/12/2019	23/11/2020	13/4/2020	1/12/2020	Task Completed				100%			

Updated on:											20-Nov-24	
Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencem ent Date	Anticipated / Actual Commencem ent Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	KD3B: Preparation and Acceptance of subletting package for installation work (C9)	2/12/2019	15/12/2020	13/4/2020	1/3/2021	Task Completed				100%		
	KD3B: Tender invitation for installation work (C9)	2/12/2019	3/3/2021	13/4/2020	10/3/2021	Task Completed				100%		
	KD3B: Tender Award for installation work (C9)	2/12/2019	12/3/2021	13/4/2020	15/3/2021	Task Completed				100%		
	KD3B: Acceptance of tender award for installation work	2/12/2019	15/3/2021	13/4/2020	19/3/2021	Task Completed				100%		
	Submission and Acceptance of Drawing Submission	14/4/2020	5/8/2020	10/9/2020	11/1/2021	Task Completed				100%		
	Submission and Acceptance of P&M Submission	14/4/2020	5/8/2020	10/9/2020	30/6/2021	Task Completed						Formal resubmission of P&M for Rotating Bridge Scraper P&M-0024 (Rev.1) was submitted to AECOM on 24 June 2021 and is accepted by AECOM. P&M submission for Local Control Panel Rev.3 was submitted on 20 Mar 2021 and AECOM accepted on 26 Mar 2021.
	Submission and Acceptance of FAT Plan	1/12/2020	27/1/2021	15/12/2020	16/2/2021	Task Completed				100%		
	Submission and Acceptance of SAT Plan	1/3/2021	1/3/2021	1/4/2021	5/5/2021	Task Completed				100%		Bestwise submitted on 13 Apr 2021. AECOM accepted with comments on 5 May 2021.
	Submission and Acceptance of Design Submission (Support to DN700 Feed Pipe)	N/A	22/2/2021	N/A	13/5/2021	Task Completed						Advanced Calculation was provided on 17 Mar 2021 and revised on 18 Mar 2021. Bestwise proposed to use the existing support. Calculation was provided on 1 Apr 2021 via email. Dimension of support column was checked again on 14 Apr 2021. Proposal submitted on 30 Apr 2021. AECOM accepted with comments on 13 May 2021.
	Submission and Acceptance of Design Submission (Stainless steel support to FRP Cover of Effluent	N/A	24/2/2021	N/A	19/4/2021	Task Completed				100%		Advanced Calculation was provided on 17 Mar 2021 and revised on 18 Mar 2021. Bestwise formal submitted on 26 Mar 2021. AECOM accepted with comment on 19 Apr 2021.
	KD3B: Dismantle and Removal of E&M Equipment at PST No. 6	9/2/2021	21/12/2020	19/2/2021	15/1/2021	Task Completed				100%		
	Flow Diversion and drain out PST No.4	N/A	25/1/2021	N/A	26/3/2021	Task Completed				100%		
	KD3B: Dismantle and Removal of E&M Equipment at PST No. 4	9/2/2021	5/3/2021	19/2/2021	1/4/2021	Task Completed				100%		
	KD3B: Material Manufacturing (Clarifier)	12/9/2020	16/12/2020	12/12/2020	20/2/2021	Task Completed				100%		The clarifier would be manufactured in 2 batches (rotating bridge related and FRP launder cover). Manufaturing instruction was issued on 16 Dec 2020. Jash suggested 1st batch of material (clarifier) would be ready for shipping on 20 Feb 2021 and 2nd batch of material (FRP Launder Cover) would be ready for shipping on 13 Mar 2021. (To be confirmed by Jash by providing shipment booking, but supplier cannot provide updated information at thie moment due to second surge of COVID-19 in india)
	KD3B: FAT of the Clarifier	N/A	24/2/2021	N/A	1/3/2021	Task Completed				100%		FAT Report submitted on 24 Feb 2021 and AECOM accepted subject to comment on 1 Mar 2021
	KD3B: Material Delivery (Clarifier)	13/12/2020	27/2/2021	18/1/2021	6/4/2021	Task Completed				100%		
	KD3B: Material Deliver to Site (Clarifier)	N/A	6/4/2021	N/A	8/4/2021	Task Completed				100%		
	KD3B: Material Manufacturing (DI pipes and fittings)	11/9/2020	26/1/2021	18/1/2021	15/3/2021	Task Completed				100%		Extracted from C9 package to C11 package to suit the installation programme
	KD3B: Material Delivery (DI pipes and fittings)	11/9/2020	16/3/2021	18/1/2021	24/3/2021	Task Completed				100%		
	KD3B: Material Delivery (FRP Cover)	N/A	26/3/2021	N/A	21/6/2021	Task Completed				100%		All the FRP covers were delivered to site.
	KD3B: Material Manufacturing (LCP)	11/9/2020	4/3/2021	18/1/2021	16/4/2021	Task Completed				100%		
	KD3B: Material Delivery (LCP)	11/9/2020	17/4/2021	18/1/2021	30/4/2021	Task Completed				100%		
	KD3B: Retrofitting Concrete Structure of PST No. 4	N/A	2/4/2021	N/A	22/4/2021	Task Completed				100%		
	KD3B: Installation of E&M Equipment at PST No. 4	27/2/2021	5/4/2021	10/5/2021	17/5/2021	Task Completed						
	KD3B: Testing and Comissioning for PST No. 4	11/5/2021	19/4/2021	9/6/2021	26/7/2021	Task Completed						Wet test for PST 4 completed on 26 July 2021.
	Flow Diversion from PST No.6 to Temporary Filtrate Equalization Tank	N/A	19/5/2021	N/A	20/5/2021	Task Completed				100%		Filtrate feeding to TFES was resumed on 19/5/2021 with fine-tuned control.
	Removal of Accumulated Sludge Inside PST No. 6	N/A	19/5/2021	N/A	30/5/2021	Task Completed				100%		NCE-0229, this includes removal of floating scum/ sludge and clearance of blockage of drain pipe
	KD3B: Retrofitting Concrete Structure of PST No. 6	N/A	28/5/2021	N/A	24/6/2021	Task Completed				100%		
	KD3B: Mechanical Installation of E&M Equipment at PST No. 6	27/2/2021	31/5/2021	10/5/2021	21/7/2021	Task Completed				100%		This includes PST Influent feed pipe, center bearing & slip ring assembly, motor & gearbox assembly, rotating bridge sludge & scum scraper assembly, circular baffle diffuser box, v-notched weir plate, scum baffle plate, scum collection box and FRP cover.
	KD3B: Electrical Installation of E&M Equipment at PST No. 6	27/2/2021	9/6/2021	10/5/2021	21/7/2021	Task Completed				100%		This includes installation of LCP, cable laying & terminations.

Updated on:												20-Nov-24
Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	KD3B: Testing and Comissioning for PST No. 6	11/5/2021	22/6/2021	9/6/2021	20/8/2021	Task Completed				100%		Wet test (1st) completed on 20 Aug 2021 and wet test (2nd) completed on 3 Sep 2021.
KD3B: 6B.2.15 Operation Restoration of Existing Primary Sedimentation Tank (PST) No. 4 and 6	KD3B: System Commissioning for PST No. 4 & 6	N/A	22/6/2021	N/A	3/9/2021	Task Completed				100%		Wet test (2nd) for PST#6 completed on 3 Sep 2021 and pre-handover inspection arranged on 30 Aug 2021. Defect list (final) received on 17 Sep 2021 and defect rectification was completed. Site training/ demonstration shall be conducted by end Feb and PMI modification work shall be completed by end March.
	KD3B: 9 June 2021											
Section 1 of Works (outstanding works list)												
6B.2.12 Provision of New Replacement Filter Plates	Submission of onsite survey plan for acceptance	1/3/2020	25/3/2020	30/3/2020	21/4/2020	Task Completed				100%	-	Bestwise resubmitted onsite survey plan on 21 April 2020
	Acceptance of submission of onsite survey plan	1/3/2020	25/3/2020	30/3/2020	12/5/2020	Task Completed				100%	-	Survey plan acceptance received on 12 May 2020. Onsite discussion with ST1 was
	Submission of onsite survey report	21/5/2020	21/5/2020	29/5/2020	29/5/2020	Task Completed				100%		
	Acceptance of onsite survey report	30/5/2020	30/5/2020	15/6/2020	15/6/2020	Task Completed				-		
	Preparation of procurement package (C11)	22/6/2020	22/6/2020	6/7/2020	14/7/2020	Task Completed				100%		
	Tender invitation (C11)	15/7/2020	15/7/2020	22/7/2020	24/7/2020	Task Completed				100%		
	Tender Award (C11)	23/7/2020	25/7/2020	29/7/2020	31/7/2020	Task Completed				100%		Revised survey report (second draft) was sent to AECOM on 21 Oct 2020. Technical
	Material Submission	21/8/2020	21/8/2020	28/8/2020	7/12/2020	Task Completed				100%		Material submission (Rev.1) resubmitted on 7 Dec 2020. AECOM accepted subject to comments on 24 Dec 2020. Material submission (Rev. 2) resubmitted on 12 Jan 2021. AECOM accepted subject to comment on 22 Jan 2021.
6B.2.12 Provision of New Replacement Filter Plates for Existing Membrane Filter Presses at Existing Sludge Press House	Material Delivery	1/12/2020	1/12/2020	8/8/2021	8/8/2021	Task Completed				-		"Filter Press Plates and Cloths" were handed over to DSD.
6B.2.12 Provision of Membrane Filter Press System at Existing Sludge Press House	Submission of onsite survey plan for acceptance	1/3/2020	25/3/2020	30/3/2020	Task to be deleted	Task to be deleted				-	-	PPMI No.5 was issued by PM on 24 April 2020. Bestwise is requested to submit quotation on delete the provision of one (1) no. of membrane filter press system in pursuant to Particular Specification Clause 6B.2.12.
6B.2.16 Temporary Filtrate Equalisation System (Sub-programme was provided by Bestwise)	Submission of onsite survey plan on E&M aspects for acceptance	1/3/2020	1/4/2020	30/3/2020	7/5/2020	Task Completed				100%	-	Bestwise resubmitted onsite survey plan on 7 May 2020
	Acceptance of submission of onsite survey plan	1/3/2020	1/4/2020	30/3/2020	23/5/2020	Task Completed				100%	-	AECOM accepted the onsite survey plan on 23 May 2020
6B.2.16 Temporary Filtrate Equalisation System (Sub-programme was provided by Bestwise)	Submission and Acceptance of ELS Design for Lifting Well	15/06/2020 -> 17/08/2020*	2/9/2020	30/07/2020 -> 30/11/2020*	9/2/2021	Task Completed				100%	Bestwise	- * = PMIO14 - Revised Location for Construction of Temporary Filtrate Equalization System reveiced on 17 Aug 2020. - Re-design work was proceeded and the planned start date was revised to 17 Aug 2020. Bestwise submitted Rev.0 on 21 Oct 2020 and resubmitted Rev.2 on 23 Jan 2021. - AECOM provide consent for the ELS temporary works on 9 Feb 2021. AECOM accepted on 9 Feb 2021.
	Submission and Acceptance of Design for Filtrate Lifting Well Construction	15/06/2020 -> 17/08/2020*	2/9/2020	30/07/2020 -> 30/11/2020*	15/1/2021	Task Completed				100%		* = PMIO14 - Revised Location for Construction of Temporary Filtrate Equalization System reveiced on 17 Aug 2020. - Re-design work was proceeded and the planned start date was revised to 17 Aug 2020. AECOM commented on 21 Dec 2020. Bestwise submitted Rev.0 on 2 Nov 2020 and Rev.1 on 8 Jan 2021.
	Submission and Acceptance of Design of FRP Filtrate Equalization Tank	15/06/2020 -> 07/09/2020**	2/9/2020	30/07/2020 -> 22/10/2020*	15/1/2021	Task Completed				100%		** = Change of material of temporary filtrate equalization tank from concrete to FRP on 07 Sep 2020. - Re-design work was proceeded and the planned start date was revised to 17 Aug 2020.
	Submission and Acceptance of Design of footing for FRP Filtrate Equalization Tank	15/06/2020 -> 07/09/2020**	2/9/2020	30/07/2020 -> 22/10/2020*	19/2/2021	Task Completed				100%		** = Change of material of temporary filtrate equalization tank from concrete to FRP on 07 Sep 2020. - Re-design work was proceeded and the planned start date was revised to 17 Aug 2020.
	Submission and Acceptance of Design of Formwork & Flasework Design for Construction of Lifting Well	15/06/2020 -> 17/08/2020*	2/9/2020	30/07/2020 -> 30/11/2020*	15/1/2021	Task Completed				100%		- * = PMIO14 - Revised Location for Construction of Temporary Filtrate Equalization System reveiced on 17 Aug 2020. - Bestwise submitted Rev.0 on 12 Jan 2020.

Updated on:											20-Nov-24	
Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencem ent Date	Anticipated / Actual Commencem ent Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	Submission and Acceptance of Contractor's Design for Temporary Filtrate Equalisation System (E&M Works) (CDS010-2)	01/06/2020 -> 7/9/2020**	5/7/2020	30/07/2020 - > 30/11/2020*	30/7/2021	Task Completed				-	Bestwise	** = Change of material of temporary filtrate equalization tank from concrete to FRP on 07 Sep 2020. - Bestwise submitted (CDS 0010 Rev.0) on 6 August 2020, AECOM commented on 27 Aug 2020. Bestwise to resubmit (Separate submissions P&M0049, DWG0038, CDS0026, P&M0008, P&M0004, CDS0037, CDS0027, DWG0040 were submitted) - Control philosophy (CDS0027 Rev.0) was submitted on 22 Dec 2020. AECOM commented on 13 Jan 2021, Bestwise resubmitted on 27 May 2021 formally, AECOM accepted with comments on 4 Jun 2021.
	Drawing Submission	01/06/2020 -> 17/08/2020*	29/9/2020	30/07/2020 - > 30/11/2020*	5/3/2021	Task Completed				100%	Bestwise	- * = PMI014 - Revised Location for Construction of Temporary Filtrate Equalization System reveiced on 17 Aug 2020. - Bestwise submitted (rev.0) on 29 Oct 2020 and resubmitted (rev.2) on 25 Jan 2021, AECOM accepted on 5 Feb 2021.
	Material Submission	01/06/2020 -> 17/08/2020*	29/11/2020	30/07/2020 - > 30/11/2020*	25/2/2021	Task Completed				100%	Bestwise	** = Change of material of temporary filtrate equalization tank from concrete to FRP on 07 Sep 2020. - P&M submission of temporary filtrate equalization tank (P&M 0030 Rev.1) on 29 Jan 2021. AECOM accepted subject to comments on 25 Feb 2021.
Subletting Package for Temporary Filtrate Equalization System	Tender invitation (C11) (EQT-002 & EQT-004)	17/4/2020	17/4/2020	7/5/2020	7/5/2020	Task Completed				100%		
	Tender award (C11) (EQT-002 & EQT-004)	14/4/2020	24/4/2020	13/5/2020	13/5/2020	Task Completed				100%	Bestwise	Bestwise submitted tender report on 29 April 2020 for filtrate pumps, AECOM commented on 29 May 2020, Bestwise to resubmit. Bestwise submitted tender report of instrument on 13 May 2020, AECOM noted on 26 May
	Acceptance of tender award (C11) (EQT-002 & EQT-	25/4/2020	25/4/2020	21/5/2020	21/5/2020	Task Completed				100%	Bestwise	
	Material Submission	20/07/2020 ->	16/10/2020	20/08/2020 -	5/2/2021	Task Completed				-	Bestwise	** = Change of material of temporary filtrate equalization tank from concrete to FRP on 18
	Submission of subletting package for acceptance (C9)	1/3/2020	13/7/2020	14/3/2020	13/7/2020	Task Completed				100%		
	Acceptance of subletting package (C9)	15/3/2020	14/7/2020	28/3/2020	14/7/2020	Task Completed				100%		
	Tender invitation (C9)	29/3/2020	15/7/2020	11/4/2020	22/7/2020	Task Completed				100%		
	Tender award (C9)	12/4/2020	23/7/2020	25/4/2020	13/8/2020	Task Completed				100%		
	Acceptance of tender award for civil construction work (C9)	26/04/2020	14/8/2020	5/5/2020	2/9/2020	Task Completed				100%		
	Preparation of subletting package for mech work (C9)	01/08/2020 -> 01/12/2020*	25/1/2021	08/08/20 -> 08/12/2020*	1/3/2021	Task Completed				100%		* = PMI014 - Revised Location for Construction of Temporary Filtrate Equalization System reveiced on 17 Aug 2020. Subletting package would was submitted on 25 Feb 2021 and AECOM accepted on 1 Mar
	Tender invitation for mech work (C9)	08/08/20 ->	2/3/2021	15/08/2020 -	9/3/2021	Task Completed				100%		Tender invitation was conducted on 2 Mar 2021 and returned on 9 Mar 2021
	Tender Award for mech work (C9)	15/08/2020 ->	10/3/2021	22/08/2020 -	15/3/2021	Task Completed				100%		Tender report was submitted on 15 Mar 2021
	Acceptance of tender award for mech work (C9)	22/08/2020 ->	15/3/2021	29/08/2020 -	19/3/2021	Task Completed				100%		Tender award on 19 Mar 2021.
	Preparation of subletting package for elect work (C9)	01/08/2020 -> 01/12/2020*	2/2/2021	08/08/20 -> 08/12/2020*	1/3/2021	Task Completed				100%		* = PMI014 - Revised Location for Construction of Temporary Filtrate Equalization System reveiced on 17 Aug 2020. Subletting package resubmitted on 26 Feb 2021 and AECOM accepted on 1 Mar 2021..
	Tender invitation for elect work (C9)	01/08/2020 ->	2/3/2021	15/08/2020 -	9/3/2021	Task Completed				100%		Tender invitation was conducted on 2 Mar 2021 and returned on 9 Mar 2021
Tender Award for elect work (C9)	08/08/20 ->	10/3/2021	22/08/2020 -	15/3/2021	Task Completed				100%		Tender report was submitted on 15 Mar 2021	
Acceptance of tender award for elect work (C9)	15/08/2020 -> 15/12/2020*	15/3/2021	29/08/2020 - >	19/3/2021	Task Completed				100%		Tender award on 19 Mar 2021.	
Construction of Temporary Filtrate Equalisation System	Construction of minor civil works under PMI 014	22/08/2020 -> 22/12/2020*	5/10/2020	15/10/2020	31/3/2021	Task Completed				100%	Bestwise	Utilities survey report of lifting well and EQ tank were submitted on 23 Sept 2020 and 29 Sept 2020. AECOM commented lifting well on 29 Sept 2020.
	RC Structure Works of lifting well	7/11/2020	12/1/2021	30/12/2020	25/2/2021	Task Completed				100%		
	Construction of concrete plinth for filtrate EQ tank	23/1/2021	8/2/2021	1/2/2021	26/2/2021	Task Completed				100%		
	Offsite fabrication and delivery of filtrate EQ tank	31/10/2020	16/1/2021	2/2/2021	4/3/2021	Task Completed				100%		First batch of filtrate EQ tank panel was delivered on 4 Mar 2021.
	Onsite assembly of filtrate EQ tank	2/2/2021	1/3/2021	12/3/2021	16/4/2021	Task Completed				100%		
6B.2.16 Temporary Filtrate Equalisation System	Mechanical Installation	17/3/2021	30/3/2021	12/4/2021	14/5/2021	Task Completed				-		
	Electrical Installation	13/3/2021	29/3/2021	15/4/2021	10/12/2021	Task Completed				-		PLC programme for water spray system (stage 1) is on-going, motorized gate valve for stage 2 under PMI is being fabricated and the delivery lead time is by end November.
	Testing and Comissioning	15/4/2021	22/4/2021	1/5/2021	30/11/2022	Completed				-		Defect rectification for BCM comments was partially completed and Site Acceptance Test (72 hours) was completed.
6B.1.17 Overall plant treatment process review by the Treatment Process Specialist	Submission of Treatment Process Specialist's review report	1/6/2020	1/6/2020	30/6/2020	2/7/2020	Task Completed				-	Bestwise	Preliminary Draft submitted, meeting completed on 15 May 2020 with SRE and TPS. Initial process design evaluation was submitted on 20 May 2020. Design calculation submitted on
	Acceptance of submission for further design	14/6/2020	3/7/2020	30/6/2020	17/7/2020	Task Completed				-		

Updated on:												20-Nov-24
Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
6B Overall plant process equipment sizing review	Submission of Contractor's Design Calculation for	1/6/2020	1/6/2020	30/6/2020	2/7/2020	Task Completed				-	Bestwise	Preliminary Draft submitted, meeting completed on 15 May 2020 with SRE and TPS. Initial
	Acceptance of submission for further detail design	14/6/2020	3/7/2020	30/6/2020	17/7/2020	Task Completed				-		
6B.2.1 Inlet Works	Submission of Contractor's Design for Inlet Works No. 1	6/9/2020	16/11/2020	14/5/2021	31/8/2024	106%				-	Bestwise	All finalized design calculations for Inlet Works no.1 shall be submitted by 20 Jan 2023.
	Submission of P&M Submission	6/9/2020	7/9/2020	14/5/2021	31/8/2024	106%						P&M0022 - Inlet Pumps (status: B) P&M0003 - Coarse Screens & Fine Screens (status: B) P&M0085 - Grit Traps (status: B) P&M0084 - Screw Compactor (status: B) P&M0042 - Screw Conveyors for Coarse Screens and Fine Screens (status: B) All P&M for Inlet Works no.1 shall be submitted by 20 Jan 2023.
	Submission of P&ID Drawing	6/9/2020	6/9/2020	14/5/2021	29/12/2020	Task Completed						PID (rev.B) submitted on 13 Nov 2020. AECOM accepted subject to comments on 29 Dec 2020.
	Submission of GA Drawing	6/9/2020	5/1/2021	14/5/2021	31/8/2024	106%						E&M GA submission DWG0082 resubmitted on 9 July 2021. AECOM commented on 19 Feb 2021. Bestwise reviewed GA in BIM with AECOM on 12 Jan 2022. Electrical GA DWG0095 resubmitted on 3 July 2021. AECOM commented on 21 Apr 2021. Bestwise reviewed GA in BIM with AECOM on 12 Jan 2022. All finalized drawings for Inlet Works no.1 shall be submitted by 30 June 2022 and BIM GA review meeting is scheduled on 5, 12, 19/5/2022.
	Submission of Electrical Drawing	6/9/2020	15/1/2021	14/5/2021	31/8/2024	106%						Electrical SLD submitted on 5 Feb 2021. AECOM commented on 20 Feb 2021. Bestwise to resubmit. All finalized drawings for Inlet Works no.1 shall be submitted by 20 Jan 2023.
	Acceptance of submission	15/5/2021	15/5/2021	29/5/2021	31/8/2024	107%				-		
	Submission of detailed design for electrical installation for Inlet Works No. 1 (CDS021)	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for LV Switchboards for Inlet Works No. 1 (CDS025-1)	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for electrical installation BS for Inlet Works No. 1 (CDS034-1)	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of civil work requirements for Inlet Works No. 1 up to +8.0 mPD (CDS080-1)	1/9/2020	1/9/2020	30/10/2020	30/10/2020	Task Completed						
	KD1A: Submission of civil requirement drawing for Inlet Works No. 1 up to +8.0 mPD (First Draft))	15/7/2020	15/7/2020	15/8/2020	17/9/2020	Task Completed	no.	3	3	100%		1st draft of drawing submitted on 17 September 2020
	KD1A: Submission of civil requirement drawing for Inlet Works No. 1 up to +8.0 mPD (Final)	28/8/2020	18/9/2020	5/11/2020	5/11/2020	Task Completed	no.	3	3	100%	Bestwise	Bestwise resubmitted (rev.A) on 27 Oct 2020.
	KD1A: Submission of electrical schematic drawings for Inlet Works No. 1 (First Draft)	15/7/2020	15/7/2020	15/8/2020	30/9/2020	Task Completed	no.	2	2	100%		1st draft of drawing submitted on 30 September 2020
	KD1A: Submission of electrical schematic drawings for Inlet Works No. 1 (Final)	7/9/2020	1/10/2020	5/11/2020	20/10/2020	Task Completed	no.	2	2	100%	Bestwise	Bestwise submitted on 20 Oct 2020
	KD1A: 6 November 2020											Notice of completion works was submitted on 17 Nov 2020
6B.2.2 Primary Sedimentation Tank No. 1-4	Submission of Contractor's Design for Primary Sedimentation Tanks No. 1-4	6/9/2020	28/12/2020	14/5/2021	31/8/2024	106%				-	Bestwise	PFD (rev.B) under DWG0004 submitted on 22 June 2021. Finalized design calculations for PST shall be submitted by 20 Jan 2023.
	Submission of P&M Submission	6/9/2020	26/11/2020	14/5/2021	31/8/2024	106%						P&M0058 - Lamella Plate Settler (status: B) P&M0097 - Scum Skimmer and Scum Collection Pipe (status: B) P&M0086 - Sludge Bottom Scraper (status: B) P&M0051 - Drain Pump (status: B) P&M0044 - Primary Sludge Pump (status: B) Finalized material submissions for PST shall be submitted by 20 Jan 2023.
	Submission of P&ID Drawing	6/9/2020	2/10/2020	14/5/2021	24/6/2021	Task Completed						PID under DWG0037 (rev.1) submitted on 24 June 2021 and is accepted by AECOM.

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		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	Submission of GA Drawing	6/9/2020	3/2/2021	14/5/2021	31/8/2024	106%						Mechanical GA was submitted on 19 Jun 2021. Electrical GA under DWG0103 (rev.1) was submitted on 6 Jul 2021 and is accepted by AECOM. Finalized drawings for PST shall be submitted by 30 Aug 2022.
	Submission of Electrical Drawing	6/9/2020	15/1/2021	14/5/2021	31/8/2024	106%						Electrical SLD submitted on 5 Feb 2021. AECOM commented on 20 Feb 2021. Bestwise to resubmit. Finalized drawings for PST shall be submitted by 20 Jan 2023.
	Acceptance of submission	15/5/2021	2/4/2021	29/5/2021	31/8/2024	106%				-		Refer to outstanding list under "Certificate of completion no.1 - section 1 of the works".
	Submission of detailed design for electrical installation	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for LV Switchboards for Primary Sedimentation Tanks (CDS025-2)	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for electrical installation	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of civil work requirements for Primary Sedimentation Tanks up to +8.0 mPD (CDS080-2)	1/9/2020	1/9/2020	30/10/2020	30/10/2020	Task Completed						
	KD1A: Submission of civil requirement drawing for Primary Sedimentation Tanks No. 1-4 up to +8.0 mPD	15/7/2020	15/7/2020	15/8/2020	30/9/2020	Task Completed	no.	4	4	100%		1st part of drafted drawing (2 nos.) was submitted on 23 Sept 2020. Remaining drawings (2 nos.) were submitted on 30 Sept 2020.
	KD1A: Submission of civil requirement drawing for Primary Sedimentation Tanks No. 1-4 up to +8.0 mPD	28/8/2020	1/10/2020	5/11/2020	5/11/2020	Task Completed	no.	4	4	100%	Bestwise	Bestwise resubmitted (Rev.A) on 27 Oct & 13 Nov 2020.
	KD1A: Submission of electrical schematic drawings for Primary Sedimentation Tanks No. 1-4 (First Draft)	15/7/2020	15/7/2020	15/8/2020	30/9/2020	Task Completed	no.	1	1	100%		1st draft of drawing submitted on 30 September 2020
	KD1A: Submission of electrical schematic drawings for Primary Sedimentation Tanks No. 1-4 (Final)	7/9/2020	1/10/2020	5/11/2020	20/10/2020	Task Completed	no.	1	1	100%	Bestwise	Bestwise submitted on 20 Oct 2020
	KD1A: 6 November 2020											Notice of completion works was submitted on 17 Nov 2020
6B.2.3 Chemical Storage and Dosing System	Submission of Contractor's Design for Chemical Dosing System (CDS006)	6/9/2020	7/1/2021	14/5/2021	29/10/2021	Task Completed				-	Bestwise	Design calculation (rev.0) of CHS1 and TCHS submitted on 2 Sep 2020 and 28 Aug 2020, AECOM commented on 24 Sep and 6 Oct 2020, Bestwise submitted CDS0060 on 15 Jul 2021 and CDS0044 on 19 Jul 2021. Finalized design calculation for chemical systems was submitted on 29 Oct 2021.
	Submission of P&M Submission	6/9/2020	6/9/2020	14/5/2021	30/10/2021	Task Completed						Finalized material submissions for chemical system was submitted on 30 Oct 2021.
	Submission of P&ID Drawing	6/9/2020	11/12/2020	14/5/2021	29/6/2021	Task Completed						PID resubmitted under DWG0053 (rev.1) on 28 Jun 2021, DWG0057 (rev.1) on 29 Jun 2021 and DWG0058 (rev.1) on 29 Jun 2021.
	Submission of GA Drawing	6/9/2020	8/2/2021	14/5/2021	31/8/2024	106%						Electrical GA drawings for CS1 under DWG0096 submitted on 10 April 2021. AECOM accepted subject to comments on 17 Apr 2021. Mechanical GA drawings for CS1 submitted on 1 April 2021. AECOM commented on 24 April 2021. Bestwise resubmitted DWG0093 (rev.1) on 30 Jun 2021 and is accepted by AECOM. Mechanical GA for Temp CS submitted on 12 Jun 2021. All finalized drawings for chemical systems shall be submitted by 30 June 2022 and BIM GA review meeting is scheduled on 17. 21. 28/4/2022.
	Submission of Electrical Drawing	6/9/2020	15/1/2021	14/5/2021	31/8/2024	106%						Electrical SLD submitted on 5 Feb 2021. AECOM commented on 20 Feb 2021. Bestwise to resubmit. All finalized drawings for chemical system shall be submitted by 20 Jan 2023.
	Acceptance of submission	15/5/2021	15/5/2021	29/5/2021	31/8/2024	107%				-		
	Submission of detailed design for electrical installations	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for electrical installations	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for electrical installations	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for electrical installation	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	KD1A: Submission of civil requirement drawing for	15/7/2020	15/7/2020	15/8/2020	16/9/2020	Task Completed	no.	2	2	100%		1st draft of drawing submitted on 15 September for CHS1 and 16 September 2020 for
	KD1A: Submission of civil requirement drawing for	7/9/2020	17/9/2020	5/11/2020	5/11/2020	Task Completed	no.	2	2	100%		Bestwise resubmitted (Rev.A) on 5 Nov 2020.
	KD1A: Submission of electrical schematic drawings for	15/7/2020	15/7/2020	15/8/2020	15/9/2020	Task Completed				-		1st draft of drawing to be submitted by 16 September 2020
	KD1A: Submission of electrical schematic drawings for Chemical System No. 1 and No. 2 (Final)	7/9/2020	16/9/2020	5/11/2020	5/11/2020	Task Completed						
	KD1A: Submission of civil requirement drawing for Temporary Chemical System up to +8.0 mPD (First	15/7/2020	15/7/2020	15/8/2020	15/9/2020	Task Completed	no.	1	1	100%		1st draft of drawing submitted on 15 September 2020

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Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	KD1A: Submission of civil requirement drawing for Temporary Chemical System up to +8.0 mPD (Final)	7/9/2020	16/9/2020	5/11/2020	5/11/2020	Task Completed	no.	1	1	100%		Bestwise resubmitted (Rev.A) on 5 Nov 2020.
	KD1A: Submission of electrical schematic drawings for Temporary Chemical System (First Draft)	15/7/2020	15/7/2020	15/8/2020	15/9/2020	Task Completed				-		1st draft of drawing to be submitted by 16 September 2020
	KD1A: Submission of electrical schematic drawings for	7/9/2020	16/9/2020	5/11/2020	5/11/2020	Task Completed						
	KD1A: 6 November 2020											Notice of completion works was submitted on 17 Nov 2020
6B.2.4 Membrane Bioreactor (MBR) System - Bio Reactor 2A and 2B	Submission of Contractor's Design for Bioreactor 2A and 2B (CDS004)	6/9/2020	12/1/2021	14/5/2021	31/8/2024	106%				-	Bestwise	PFD (rev.1) submitted on 3 Nov 2020. AECOM accepted on 7 Dec 2020 subject to comment. MBR system process and design calculation (rev.2) submitted on 6 Nov 2020. AECOM accepted on 17 Nov 2020 subject to comments. Electrical CDS submitted on 23 Jun 2021. Finalized design calculations shall be submitted by 20 Jan 2023.
	Submission of P&M Submission	6/9/2020	26/11/2020	14/5/2021	31/8/2024	106%						P&M0060 - Pre-treatment Fine Screen (status: B) P&M0053 - MLR Pump (status: B) P&M0118 - Scum Skimmer & Scum Pump (status: C) P&M0088 - Fine Bubble Air Diffuser (status: B) P&M0xxx - Wash Compactor (status: B) P&M0041 - Submersible Mixer (status: B) Finalized material submission shall be submitted by 20 Jan 2023.
	Submission of P&ID Drawing	6/9/2020	2/11/2020	14/5/2021	2/7/2021	Task Completed						PID (Rev.1) under DWG0042 resubmitted on 6 July 2021.
	Submission of GA Drawing	6/9/2020	17/2/2021	14/5/2021	31/8/2024	106%						Mechanical GA under DWG0132 submitted on 26 Jun 2021 and is accepted by AECOM. Electrical GA submitted on 23 Jun 2021. Finalized drawing shall be submitted by 30 June 2022. BIM GA review meeting is scheduled on 1, 8, 15/6/2022.
	Submission of Electrical Drawing	6/9/2020	15/1/2021	14/5/2021	31/8/2024	106%						Electrical SLD submitted on 5 Feb 2021. AECOM commented on 20 Feb 2021. Bestwise to resubmit. Finalized drawing shall be submitted by 20 Jan 2023.
	Acceptance of submission	15/5/2021	15/5/2021	29/5/2021	31/8/2024	107%				-		Refer to outstanding list under "Certificate of completion no.1 - section 1 of the works".
	Submission of detailed design for electrical installation	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for LV Switchboards for BR 2A and 2B (CDS025-3)	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for electrical installation	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of civil work requirements for BR 2A and 2B up to +8.0 mPD (CDS080-3)	1/9/2020	1/9/2020	30/10/2020	30/10/2020	Task Completed						
	KD1A: Submission of civil requirement drawing for BR 2A and 2B up to +8.0 mPD (First Draft)	15/7/2020	15/7/2020	15/8/2020	30/9/2020	Task Completed	no.	2	2	100%		1st draft of drawing submitted on 30 September 2020
	KD1A: Submission of civil requirement drawing for BR 2A and 2B up to +8.0 mPD (Final)	28/8/2020	1/10/2020	5/11/2020	5/11/2020	Task Completed	no.	2	2	100%	Bestwise	AECOM commented on 23 Oct 2020, Bestwise resubmitted on 5 Nov 2020.
	KD1A: Submission of electrical schematic drawings for BR 2A and 2B (First Draft)	15/7/2020	15/7/2020	15/8/2020	30/9/2020	Task Completed				-		1st draft of drawing was sent to AECOM via email on 15 September 2020
	KD1A: Submission of electrical schematic drawings for	7/9/2020	1/10/2020	5/11/2020	5/11/2020	Task Completed						
	KD1A: 6 November 2020											Notice of completion works was submitted on 17 Nov 2020
6B.2.4 Membrane Bioreactor (MBR) System - Membrane Filtration System No. 2 (MFB No. 2)	Submission of Contractor's Design for Membrane Filtration System (CDS005)	6/9/2020	11/1/2021	14/5/2021	31/8/2024	106%				-	Bestwise	PFD (rev.1) submitted on 3 Nov 2020. AECOM accepted on 10 Dec 2020 subject to comment. MBR system process and design calculation (rev.2) submitted on 6 Nov 2020. AECOM accepted on 17 Nov 2020 subject to comments. Finalized design calculations shall be submitted by 30 Aug 2022.
	Submission of P&M Submission	6/9/2020	19/11/2020	14/5/2021	31/8/2024	106%						P&M0072 - Membrane Module (status: B) P&M0069 - Permeate Pump (status: B) P&M0047 - RAS Pump (status: B) P&M0050 - Drain Pump (status: B) P&M0074 - Air Scour Blower (status: C) P&M0073 - Aeration Blower (status: C) P&M0093 - Air Compressor (status: B) P&M0091 - Chemical Pump (status: B) P&M0xxx - Chemical Tank (to be submitted) Finalized material submission shall be submitted by 20 Jan 2023.
	Submission of P&ID Drawing	6/9/2020	30/10/2020	14/5/2021	2/7/2021	Task Completed						DWG0049 (Rev.1) was resubmitted on 2 Jul 2021.
	Submission of GA Drawing	31/3/2021	18/2/2021	14/5/2021	31/8/2024	106%						DWG0121 (rev.1) was resubmitted to AECOM on 17 Jul 2021 Finalized drawings shall be submitted by 30 June 2022. BIM GA review meeting is scheduled on 19, 26/5/2022 and 2/6/2022 (Lower part) BIM GA review meeting is scheduled on 16, 23, 30/6/2022 (Upper part)

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Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	Submission of Electrical Drawing	15/4/2021	15/1/2021	14/5/2021	31/8/2024	106%						Electrical SLD submitted on 5 Feb 2021. AECOM commented on 20 Feb 2021. Bestwise to resubmit. Electrical GA under DWG0079 (rev.1) was resubmitted on 8 Jul 2021. Finalized drawings shall be submitted by 20 Jan 2023.
	Acceptance of submission	15/5/2021	15/5/2021	29/5/2021	31/8/2024	107%				-		
	Submission of detailed design for electrical installation	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for LV Switchboards for	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for electrical installation BS for MFB (CDS034-4)	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of civil work requirements for MFB up to	1/9/2020	1/9/2020	30/9/2020	30/9/2020	Task Completed						
	KD1A: Submission of civil requirement drawing for	15/7/2020	15/7/2020	15/8/2020	30/9/2020	Task Completed	no.	7	7	100%		1st draft of drawing submitted on 30 September
	KD1A: Submission of civil requirement drawing for MFB No. 2 up to +8.0 mPD (Final)	28/8/2020	1/10/2020	5/11/2020	5/11/2020	Task Completed	no.	7	7	100%	Bestwise	Bestwise resubmitted (Rev.1) on 5 Nov 2020.
	KD1A: Submission of electrical schematic drawings for	15/7/2020	15/7/2020	15/8/2020	30/9/2020	Task Completed	no.	3	3	100%		1st draft of drawing submitted on 30 September 2020
	KD1A: Submission of electrical schematic drawings for MFB No. 2 (Final)	7/9/2020	1/10/2020	5/11/2020	20/10/2020	Task Completed	no.	3	3	100%	Bestwise	Bestwise submitted (Rev.1) on 20 Oct 2020
	KD1A: 6 November 2020											Notice of completion works was submitted on 17 Nov 2020
6B.2.6 Deodorisation System (EQT-001 - Deodorization Unit)	Tender invitation (C11)	17/4/2020	17/4/2020	24/4/2020	24/4/2020	Task Completed				100%		
6B.2.6 Deodorisation System (EQT-001 - Deodorization Unit)	Tender award (C11)	25/4/2020	25/4/2020	12/5/2020	12/5/2020	Task Completed				100%	Bestwise	Bestwise submitted tender report on 13 May 2020. AECOM commented on 23 July 2020, Bestwise to resubmit.
	Acceptance of tender award (C11)	13/5/2020	13/5/2020	21/5/2020	21/5/2020	Task Completed				100%		
	Submission of Contractor's Design for Deodorisation System , DOU No. 1 (CDS0019 & CDS0045)	6/9/2020	6/9/2020	14/5/2021	31/12/2021	Task Completed				-		Design Calculation (Rev.0) was submitted on 24 Nov 2020. AECOM commented on 6 Jan 2021, Bestwise to resubmit. Bestwise submitted CDS0045 on 3 June 2021. Finalized design was completed.
	Submission of P&ID Drawing of DOU No. 1	6/9/2020	5/8/2020	14/5/2021	2/7/2021	Task Completed				-	Bestwise	Bestwise resubmitted rev.3 on 29 Mar 2021. AECOM accepted subject to comments on 13 Apr 2021.
	Submission of GA Drawing of DOU No. 1	6/9/2020	6/9/2020	14/5/2021	31/8/2024	106%						GA submitted on 21 Jun 2021 Finalized drawings shall be submitted by 30 June 2022 and BIM GA review meeting is scheduled on 11, 18, 25/5/2022.
	Submission of Electrical Drawing of DOU No. 1	21/3/2021	30/1/2021	14/5/2021	31/8/2024	106%						Control wiring diagrams was resubmitted on 1 April 2021. AECOM commented on 23 Apr 2021. Bestwise to resubmit. Finalized drawings shall be submitted by 20 Jan 2023.
	Acceptance of submission	15/5/2021	15/5/2021	29/5/2021	31/8/2024	107%				-		
	KD1A: Submission of civil requirement drawing for Deodorisation System , DOU No. 1 up to +8.0 mPD (First Draft)	15/7/2020	15/7/2020	15/8/2020	28/9/2020	Task Completed	no.	1	1	100%		1st draft of drawing was submitted on 28 September 2020
	KD1A: Submission of civil requirement drawing for Deodorisation System , DOU No. 1 up to +8.0 mPD (Final)	28/8/2020	29/9/2020	2/11/2020	5/11/2020	Task Completed	no.	1	1	100%	Bestwise	Bestwise resubmitted (rev.1) on 5 Nov 2020.
	Submission of Contractor's Design for Deodorisation System , DOU No. 2A (CDS0019 & CDS0048)	6/9/2020	6/9/2020	14/5/2021	10/12/2021	Task Completed				-		CDS0019: Design Calculation for Deodorisation System (status: B) CDS0048: Design Calculation on DOU2A - air extraction fan (status: B)
	Submission of P&ID Drawing of DOU No. 2A	6/9/2020	5/8/2020	14/5/2021	2/7/2021	Task Completed				-	Bestwise	Bestwise resubmitted rev.3 on 29 Mar 2021. AECOM accepted subject to comments on 13 Apr 2021.
	Submission of GA Drawing of DOU No. 2A	6/9/2020	3/8/2020	14/5/2021	31/8/2024	105%				-	Bestwise	Bestwise submitted (rev.1) on 30 Nov 2020. AECOM commented on 16 Dec 2020. Bestwise to resubmit. Finalized drawings shall be submitted by 30 June 2022 and BIM GA review meeting is scheduled on 1, 8, 15/6/2022.
	Submission of Electrical Drawing of DOU No. 2A	21/3/2021	26/1/2021	14/5/2021	31/8/2024	106%						Bestwise submitted (rev.0) on 26 Jan 2021, AECOM commented on 4 Feb 2021. Bestwise to resubmit. Finalized drawing shall be submitted by 20 Jan 2023.
	Acceptance of submission	15/5/2021	15/5/2021	29/5/2021	31/8/2024	107%				-		
	Submission of Contractor's Design for Deodorisation System , DOU No. 3A (CDS0019 & CDS0055)	6/9/2020	6/9/2020	14/5/2021	10/12/2021	Task Completed				-		CDS0019: Design Calculation for Deodorisation System (status: B) CDS0055: Design Calculation on DOU3A - air extraction fan (status: B)
	Submission of P&ID Drawing of DOU No. 3A	6/9/2020	5/8/2020	14/5/2021	2/7/2021	Task Completed				-	Bestwise	Bestwise resubmitted rev.3 on 29 Mar 2021. AECOM accepted subject to comments on 13 Apr 2021.

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Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencem ent Date	Anticipated / Actual Commencem ent Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	Submission of GA Drawing of DOU No. 3A	6/9/2020	8/7/2020	14/5/2021	31/8/2024	105%				-	Bestwise	Bestwise submitted (rev.1) on 28 Oct 2020. AECOM commeneted on 16 Dec 2020. Bestwise resubmitted on 24 June 2021. Finalized drawings shall be submitted by 30 June 2022 and BIM GA review meeting is scheduled on 27/4/2022, 4, 11/5/2022.
	Submission of Electrical Drawing of DOU No. 3A	21/3/2021	26/2/2021	14/5/2021	31/8/2024	106%						Bestwise submitted on 17 Apr 2021. AECOM commented on 27 Apr 2021. Bestwise to resubmit. GA submitted on 24 Jun 2021 Finalized drawing shall be submitted by 20 Jan 2023.
	Acceptance of submission	15/5/2021	15/5/2021	29/5/2021	31/8/2024	107%						
	KD1A: Submission of civil requirement drawing for Deodorisation System , DOU No. 3A up to +8.0 mPD	15/7/2020	15/7/2020	15/8/2020	28/9/2020	Task Completed	no.	1	1	100%		1st draft of drawing was submitted on 28 September 2020
	KD1A: Submission of civil requirement drawing for Submission of Contractor's Design for Deodorisation System , DOU No. 3B (CDS0019 & CDS0049)	28/8/2020	29/9/2020	2/11/2020	5/11/2020	Task Completed	no.	1	1	100%	Bestwise	Bestwise resubmitted (rev.1) on 5 Nov 2020.
		6/9/2020	6/9/2020	14/5/2021	10/12/2021	Task Completed						CDS0019: Design Calculation for Deodorisation System (status: B) CDS0049: Design Calculation on DOU3B - air extraction fan (status: B)
	Submission of P&ID Drawing of DOU No. 3B	6/9/2020	5/8/2020	14/5/2021	2/7/2021	Task Completed				-	Bestwise	Bestwise resubmitted rev.3 on 29 Mar 2021. AECOM accepted subject to comments on 13 Apr 2021.
	Submission of GA Drawing of DOU No. 3B	6/9/2020	6/9/2020	14/5/2021	31/8/2024	106%						Bestwise submitted DWG0081 (rev.0) on 5 Feb 2021. AECOM commeneted on 12 Mar 2021. Bestwise to resubmit. Finalized drawings shall be submitted by 30 June 2022 and BIM GA review meeting is scheduled on 16, 23, 30/6/2022.
	Submission of Electrical Drawing of DOU No. 3B	21/3/2021	22/2/2021	14/5/2021	31/8/2024	106%						GA submitted on 24 Jun 2021 Finalized drawing shall be submitted by 20 Jan 2023.
	Acceptance of submission	15/5/2021	15/5/2021	29/5/2021	31/8/2024	107%				-		
	Submission of detailed design for electrical installation	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for LV Switchboards for	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for electrical installation	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of civil work requirements for MFB up to	1/9/2020	1/9/2020	30/9/2020	30/9/2020	Task Completed						
	Submission of civil requirement drawing for MFB up to	28/8/2020	28/8/2020	2/11/2020	2/11/2020	Task Completed						
	KD1A: Submission of electrical schematic drawings for	15/7/2020	15/7/2020	15/8/2020	30/9/2020	Task Completed				-		1st draft of drawing to be submitted by 30 September 2020
	KD1A: Submission of electrical schematic drawings for	7/9/2020	1/10/2020	5/11/2020	5/11/2020	Task Completed						
	KD1A: 6 November 2020											Notice of completion works was submitted on 17 Nov 2020
04SC008 - Design, Supply and Installation of detailed design for lifting appliances	Acceptance of tender award (C9)	-	-	-	6/7/2020	Task Completed				100%	-	AECOM accepted tender report on 6 July 2020.
	Submission of detailed design for lifting appliances for Inlet Works No. 1 (CDS050-1)	6/9/2020	5/12/2020	6/9/2020	31/8/2024	106%						DWG 0055 (Rev.0) was submitted on 13 Mar 2021. AECOM commented on 20 Apr 2021. Bestwise to resubmit. Bestwise submitted P&M0025 on 15 June 2021. Finalized design shall be submitted by 20 Jan 2023.
	Submission of detailed design for lifting appliances for Primary Sedimentation Tanks (CDS050-2)	6/9/2020	5/12/2020	6/9/2020	31/8/2024	106%						DWG 0054 (Rev.0) was submitted on 18 Jan 2021. AECOM commented on 9 Mar 2021. Bestwise to resubmit. Finalized design shall be submitted by 20 Jan 2023.
	Submission of detailed design for lifting appliances for BR 2A and 2B (CDS050-3)	6/9/2020	5/12/2020	6/9/2020	31/8/2024	106%						DWG 0065 (Rev.0) was submitted on 18 Jan 2021. AECOM commented on 9 Mar 2021. Bestwise to resubmit. P&M-0026 (Rev.1) received status B. Finalized design calculation shall be submitted by 20 Jan 2023.
	Submission of detailed design for lifting appliances for MFB (CDS050-4)	6/9/2020	5/12/2020	6/9/2020	31/8/2024	106%						DWG 0066 (Rev.1) was submitted on 1 Mar 2021. AECOM commented on 5 Mar 2021. Bestwise to resubmit. P&M-0027 (Rev.1) received status B. Finalized design calculation shall be submitted by 20 Jan 2023.
	Submission of detailed design for lifting appliances for Temporary Filtration Tank (CDS050-5)	6/9/2020	5/12/2020	6/9/2020	21/5/2021	Task Completed						DWG 0051 (Rev.2) was resubmitted on 7 May 2021 and acceptance by AECOM subject to condition on 21 May 2021. Bestwise submitted P&M0021 on 21 June 2021.
Building Services System	Submission for MVAC system	N/A	10/12/2020	N/A	31/8/2024	106%						Design calculations and drawings for inlet works was submitted on 16 Dec 2020. AECOM commented on 15 Jan 2021 and 20 Jan 2021. Design calculations and drawings for PST was submitted on 30 Dec 2020. AECOM commented on 22 Jan 2021 and 26 Jan 2021. Design calculations and drawings for MFB2 was submitted on 29 Jan 2021. AECOM commented on 26 Mar 2021. Subletting package resubmitted by 18 Mar 2021. AECOM accepted on 19 Mar 2021. Finalized design shall be submitted by 20 Jan 2023.

Contract No. DE/2018/04
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1
- E&M Works for Sewage Treatment Facilities
3 Month Rolling Programme (From 01/12/2024 to 01/03/2025)

[illegible]

Updated on:												20-Nov-24
Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
Lightning Protection System for DOU3A (underground)	Submission and Acceptance for Lightning Protection System Design	6/12/2021	6/12/2021	31/1/2022	31/1/2022	Task Completed						
	Material Delivery	7/2/2022	7/2/2022	28/2/2022	28/2/2022	Task Completed						
	Installation Work	31/3/2022	26/4/2022	5/5/2022	5/5/2022	Task Completed						
	Testing & Commissioning	7/1/2023	7/1/2023	31/1/2023								
Lightning Protection System for Inlet Works (underground)	Submission and Acceptance for Lightning Protection System Design	20/12/2021	20/12/2021	31/1/2022	31/1/2022	Task Completed						
	Material Delivery	15/12/2022	1/10/2022	31/3/2022	31/10/2022	Task Completed						
	Installation Work	15/3/2022	1/11/2022	30/10/2022	14/12/2022	Task Completed						
	Testing & Commissioning	1/11/2022	15/12/2022	15/11/2022	31/12/2022							
MFB No.2	Lifting Appliance Installation at Basement 2	12/5/2023	22/5/2023	11/7/2023	6/6/2024	Task Completed						
	MVAC Installation at Basement 2	8/5/2023	8/5/2023	7/7/2023								
	Fire Services Installation at Basement 2	8/5/2023	8/5/2023	7/7/2023								
	Plumbing Services Installation at Basement 2	8/5/2023	8/5/2023	7/7/2023								
	Mechanical Installation	7/3/2024		6/5/2024								
	Electrical Installation											
	Lifting Appliance Installation at G/F	18/11/2023	22/11/2023	18/12/2023	6/6/2024							
	Lifting Appliance Installation at 1/F	22/3/2024		21/4/2024		Task Completed						
	Mechanical Installation	21/3/2024		20/5/2024								
BR2A/2B	Lifting Appliance Installation	30/3/2024		29/4/2024								
	Mechanical Installation	14/7/2024										
	Electrical Installation											
Inlet Works	Lifting Appliance Installation	30/3/2024		29/4/2024								
	Mechanical Installation	14/9/2024										
	Electrical Installation	1/9/2024										
PST 1~4	Lifting Appliance Installation	30/4/2024		30/4/2024								
Section 3 of Works												
6B.2.12 Provision of New Replacement Filter Plates	Submission of onsite survey plan for acceptance	1/3/2020	25/3/2020	30/3/2020	21/4/2020	Task Completed				100%	-	Bestwise resubmitted onsite survey plan on 21 April 2020
	Acceptance of submission of onsite survey plan	1/3/2020	25/3/2020	30/3/2020	12/5/2020	Task Completed				100%	-	Survey plan acceptance received on 12 May 2020. Onsite discussion with ST1 was
	Submission of onsite survey report	21/5/2020	21/5/2020	29/5/2020	29/5/2020	Task Completed				100%		
	Acceptance of onsite survey report	30/5/2020	30/5/2020	15/6/2020	15/6/2020	Task Completed				-		
	Preparation of procurement package (C11)	22/6/2020	22/6/2020	6/7/2020	14/7/2020	Task Completed				100%		
	Tender invitation (C11)	15/7/2020	15/7/2020	22/7/2020	24/7/2020	Task Completed				100%		
	Tender Award (C11)	23/7/2020	25/7/2020	29/7/2020	31/7/2020	Task Completed				100%		Revised survey report (second draft) was sent to AECOM on 21 Oct 2020. Technical
6B.2.12 Provision of New Replacement Filter Plates for Existing Membrane Filter Presses at Existing Sludge Press House	Material Submission	21/8/2020	21/8/2020	28/8/2020	7/12/2020	Task Completed				100%		Material submission (Rev.1) resubmitted on 7 Dec 2020. AECOM accepted subject to comments on 24 Dec 2020. Material submission (Rev. 2) resubmitted on 12 Jan 2021. AECOM accepted subject to comment on 22 Jan 2021.

Updated on:												20-Nov-24
Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
6B.2.12 Provision of New Replacement Filter Plates for Existing Membrane Filter Presses at Existing Sludge Press House	Material Delivery	1/12/2020	1/12/2020	8/8/2021	13/7/2021	Task Completed				-		Handed over to DSD.
	Completion Date of Section 3: 22 September 2021											
Subcontracting												
	Submission of subletting package for acceptance	1/1/2020	6/3/2020	30/3/2020	6/3/2020	Task Completed				100%	-	
	Acceptance of subletting package	1/3/2020	21/3/2020	30/3/2020	21/3/2020	Task Completed				100%	-	
	Tender invitation	1/3/2020	24/3/2020	1/4/2020	30/3/2020	Task Completed				100%	-	
	Tender award	22/3/2020		14/4/2020	6/4/2020	Task Completed				100%	-	Bestwise submitted tender report on 6 April 2020
	Acceptance of tender award	-	-	-	15/4/2020	Task Completed				100%		AECOM accepted tender report on 15 April 2020
Construction of Contractor's site accommodation in WA1-C	Design of MiC	15/4/2020	16/4/2020	1/6/2020	15/8/2020	Task Completed				100%		Revised layout drawings received from AluHouse on 28 May 2020. Comments provided to AluHouse on 2 June 2020.
	Submission of detailed design including foundation works, septic tank	1/7/2020	1/7/2020	14/7/2020	4/9/2020	Task Completed				100%		Design calculation of foundation work was submitted on 7 July 2020, comment received on 27 July 2020. Bestwise to resubmit.
	Site Clearance Work	15/7/2020	20/7/2020	31/7/2020	15/8/2020	Task Completed				100%		Tender invitation commenced on 29 May 2020 and tenders received on 4 June 2020. Tender
	Off-site fabrication of Septic tank	15/7/2020	20/7/2020	31/7/2020	31/7/2020	Task Completed				100%		Site clearance work started on 20 July 2020
	Submission of method statement with ICE certificate	1/8/2020	1/8/2020	7/8/2020	8/10/2020	Task Completed				100%		CV of ICE was submitted on 4 August 2020 and accepted on 25 August 2020
	Submission of design calculation with ICE certificate	1/8/2020	1/8/2020	7/8/2020	8/10/2020	Task Completed				100%		Design calculation of foundation work was submitted on 7 July 2020, comment received on
	Acceptance of method statement and design calculation	8/8/2020	9/10/2020	14/8/2020	16/10/2020	Task Completed				100%		Method Statement and Design Calculation was submitted on 8 Oct 2020.
	Submission of method statement with ICE certificate	1/8/2020	1/8/2020	7/8/2020	23/11/2020	Task Completed				100%		
	Submission of design calculation with ICE certificate	1/8/2020	1/8/2020	7/8/2020	23/11/2020	Task Completed				100%		
	Acceptance of method statement and design calculation	8/8/2020	24/11/2020	14/8/2020	27/11/2020	Task Completed				100%		
	Excavation work	17/8/2020	21/10/2020	18/8/2020	21/10/2020	Task Completed				100%		
	Installation of septic tank	19/8/2020	21/10/2020	20/8/2020	22/10/2020	Task Completed				100%		
	Construction of RC foundation	21/8/2020	23/10/2020	31/8/2020	12/11/2020	Task Completed				100%		
	Off-site fabrication and delivery of MiC Office	1/6/2020	30/9/2020	31/7/2020	4/12/2020	Task Completed				100%		
	On-site installation of MiC Office	1/8/2020	4/12/2020	30/8/2020	5/1/2021	Task Completed				100%		
	Installation of car park shelter	4/1/2021	7/1/2021	11/1/2021	9/1/2021	Task Completed				100%		Subject to the completion of car park shelter of PM office and JEC office.
04SC003 - Building Information Modeling (BIM)	Submission of subletting package for acceptance (C9)	1/3/2020	25/3/2020	14/3/2020	25/3/2020	Task Completed				100%	-	
	Acceptance of subletting package (C9)	14/3/2020	2/4/2020	30/3/2020	2/4/2020	Task Completed				100%	-	
	Tender invitation (C9)	1/4/2020	1/4/2020	8/4/2020	9/4/2020	Task Completed				100%	-	
	Tender award (C9)	-	-	-	15/4/2020	Task Completed				100%	-	Bestwise submitted tender report on 15 April 2020
	Submission of subletting package for acceptance	14/3/2020	16/3/2020	30/3/2020	20/4/2020	Task Completed				100%	-	Bestwise resubmitted on 20 April 2020
	Acceptance of subletting package	28/3/2020	4/5/2020	13/4/2020	13/5/2020	Task Completed				100%	-	AECOM accepted subletting package on 13 May 2020
	Tender invitation	11/4/2020	19/6/2020	27/4/2020	26/6/2020	Task Completed				-		Invitation to tender was commenced on 19 June 2020 and tender returned on 26 June 2020
	Tender award	25/4/2020	27/6/2020	11/5/2020	4/7/2020	Task Completed				-		Bestwise submitted tender report on 30 June 2020
	Acceptance of tender award	-	-	-	18/7/2020					-		
04SC007 - Independent Beam Plus Consultant	Submission of subletting package for acceptance	1/3/2020	30/3/2020	14/3/2020	30/3/2020	Task Completed				100%	-	
	Acceptance of subletting package	14/3/2020	3/4/2020	30/3/2020	3/4/2020	Task Completed				100%	-	
	Tender invitation	30/3/2020	30/3/2020	9/4/2020	9/4/2020	Task Completed				100%	-	
	Tender award	-	-	-	15/4/2020	Task Completed				100%	-	Bestwise submitted tender report on 15 April 2020
	Acceptance of tender award	-	-	-	17/4/2020	Task Completed				100%	-	AECOM accepted tender report on 17 April 2020
	Introduction meeting with IBPC, Cinotech	-	-	-	28/4/2020	Task Completed				100%	-	Meeting completed on 28 April 2020 followed by planning work progress
04SC008 - Design, Supply and Installation of detailed	Submission of subletting package for acceptance (C9)	1/4/2020	17/3/2020	14/4/2020	17/3/2020	Task Completed				100%	-	Bestwise submitted subletting package on 3 April 2020
	Acceptance of subletting package (C9)	14/4/2020	17/4/2020	30/4/2020	28/4/2020	Task Completed				100%	-	AECOM accepted subletting package on 28 April 2020
	Tender invitation (C9)	30/4/2020	6/5/2020	14/5/2020	28/5/2020	Task Completed				100%	-	Invitation to tender was commenced on 6 May 2020 and tender returned on 28 May 2020
	Tender award (C9)	14/5/2020	29/5/2020	30/5/2020	9/6/2020	Task Completed				100%	-	Bestwise submitted tender report on 9 June 2020.
Temporary Primary Sludge Thickener and its	Submission of subletting package (C9) for acceptance	15/05/2020 ->	14/8/2020	15/05/2020 -	27/8/2020	Task Completed				100%	Bestwise	- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020.

Updated on:												20-Nov-24
Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	Acceptance of subletting package (C9) (Mech)	30/05/2020 -> 30/7/2020*	15/8/2020	15/06/2020-> 15/8/2020*	16/9/2020	Task Completed				100%		- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020.
	Tender invitation (C9) (Mech)	15/06/2020-> 15/8/2020*	9/9/2020	22/06/2020-> 22/8/2020*	14/10/2020	Task Completed				100%		- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. - Tender invitation for FRP Tank was conducted on 9 Sep 2020, tender returned on 16 Sep 2020. - Tender invitation for mechanical installation was conducted on 29 Sept 2020, tender returned on 14 Oct 2020,
	Tender award (C9) (Mech)	22/06/2020-> 22/8/2020*	17/9/2020	29/06/2020-> 29/8/2020*	22/10/2020	Task Completed				100%		- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. - Tender report for FRP Tank was submitted on 24 Sep 2020 and accepted on 9 Oct 2020. - Tender report for mechanical installation submitted on 22 Oct 2020 and accepted on 16
	Acceptance of tender award (C9) (Mech)	-	-	-	16/11/2020	Task Completed				100%		
	Submission of subletting package (C9) for acceptance (Elect)	15/05/2020 -> 15/7/2020*	9/12/2020	15/05/2020 -> 30/11/2020*	28/1/2021	Task Completed				100%		- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. - Bestwise resubmitted subcontracting package of electrical installation on 28 Jan 2021
	Acceptance of subletting package (C9) (Elect)	30/05/2020 -> 30/7/2020*	29/1/2021	15/06/2020-> 15/8/2020*	1/2/2021	Task Completed				100%		- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020.
	Tender invitation (C9) (Elect)	15/06/2020-> 15/8/2020*	1/2/2021	22/06/2020-> 22/8/2020*	11/2/2021	Task Completed				100%		- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. - Tender invitation commenced on 1 Feb 2021 and returned on 11 Feb 2021
	Tender award (C9) (Elect)	22/06/2020-> 22/8/2020*	11/2/2021	29/06/2020-> 29/8/2020*	23/2/2021	Task Completed				100%		- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. - Tender report target submitted on 23 Feb 2021 and accepted on 24 Feb 2021
	Acceptance of tender award (C9) (Elect)	-	-	-	26/2/2021	Task Completed				100%		
	Tender invitation (C11)	30/04/2020-> 15/07/2020*	30/4/2020	30/06/2020-> 15/09/2020*	18/11/2020	Task Completed				100%	Bestwise	- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. -Tender invitation of Primary Sludge Thickener commenced on 22 April 2020 and tender was received on 29 April 2020. Tender queries was requested on 5 May 2020 and received on 7 May 2020. Tender report was commented by PM and resubmitted on 22 May 2020. Accepted by AECOM on 12 Jun 2020. - Tender Invitation of process pumps for the thickening system was commenced on 5 Jun 2020 and tenders were received on 10 June 2020. Tender report submitted to PM on 2 July 2020. - Tender Invitation of activated carbon filter was commenced on 22 Oct 2020 and to be returned on 2 Nov 2020. Tender report submitted on 5 Nov 2020 and accepted on 16 Nov 2020 - Tender Invitation of FRP platform was commenced on 13 Nov 2020 and to be returned on 20 Nov 2020. Tender report submitted on 30 Nov 2020 and accepted on 11 Jan 2020 - Tender Invitation of instrument was commenced on 18 Nov 2020 and to be returned on 25 Nov 2020. Tender report submitted on 30 Nov 2020 - Based on the control philosophy agreed on 23 Dec 2020, motorized and solenoid valves were selected.
	Tender award (C11)	15/05/2020-> 29/07/2020*	30/5/2020	15/07/2020-> 15/09/2020*	30/11/2020	Task Completed				100%		- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020.
	Acceptance of tender award (C11)	-	-	-	18/9/2020					-		
	Design Submission	03/07/2020 -> 15/07/2020*	5/8/2020	21/09/2020-> 02/10/2020*	10/5/2021	Task Completed				100%	Bestwise	- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. -Design submission of Process Pumps (Rev.3) resubmitted on14 Apr 2021, AECOM accepted with comments on 7 May 2021. -Design submission of electrical calculation (rev.2) was resubmitted on 29 Apr 2021. AECOM accepted with comments on 10 May 2021. -Control Philosophy (Rev.2) resubmitted on 5 Mar 2021. AECOM accepted subject to comments on 26 Mar 2021.

Updated on:											20-Nov-24	
Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencem ent Date	Anticipated / Actual Commencem ent Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	Plant and Material Submission	21/07/2020 -> 30/07/2020*	21/7/2020	31/08/2020 - > 31/10/2020*	30/6/2021	Task Completed					Bestwise	- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. - Plant and Material submission of primary sludge thickener was resubmitted on 1 Sep 2020 (Rev. 3) and AECOM accepted on 8 Sep 2020. - Plant and Material submission P&M0002 (Rev.2) of process pumps was submitted on 5 August 2020 and AECOM commented on 26 Aug 2020, Bestwise to re-submitted to AECOM. - Plant and Material submission (Rev.0) for valves was submitted on 16 Nov 2020. AECOM accepted on 14 Dec 2020 subject to comments - Plant and Material submission (Rev.1) for DI pipes and fittings was resubmitted on 3 Dec 2020. AECOM accepted on 14 Dec 2020 - Plant and Material submission (Rev.0) for primary sludge equalization tank was submitted on 5 Feb 2021. AECOM accepted subject to comments on 25 Feb 2021. - Plant and Material submission (Rev.0) for activated carbon filter was submitted on 28 Jan 2021. AECOM accepted subject to comments on 5 Feb 2021. - Plant and Material submission (Rev. 1) for instruments was resubmitted on 13 Mar 2021. AECOM accepted subject to comments on 7 Apr 2021.
	Drawing Submission	03/07/2020 -> 30/07/2020*	3/8/2020	21/09/2020 - > 21/11/2020*	10/2/2021	Task Completed				100%	Bestwise	- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. - PFD, P&ID, Schematic GA (Rev.3) resubmitted on 22 Jan 2021 according to the finalized control philosophy. AECOM accepted subject to comment on 29 Jan 2021. - Electrical drawing - Bestwise resubmitted electrical drawing (Rev.5) on 22 Mar 2021. AECOM accepted on 16 Apr 2021.
	Material Manufacturing	31/07/2020 -> 30/09/2020*	4/8/2020	21/10/2020 - > 21/12/2020*	20/4/2021	Task Completed				100%		- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. - Manufacturing instruction of PS thickener was issued on 3 August 2020. - Manufacturing instruction of process pumps was issued on 24 September 2020 - Electrical sub-contractor is awarded and manufacturing LCP
	Material Delivery	05/09/2020 ->	4/11/2020	16/11/2020 -	21/6/2021	Task Completed						
	Mechanical Installation	01/10/2020 -> 01/12/2020*	2/2/2021	15/11/2020 - > 15/01/2021*	17/5/2021	Task Completed				-		
	Offsite Fabrication and Delivery of FRP Tank		16/1/2021		7/4/2021	Task Completed				100%		First batch to be delivered on 23 Mar 2021
	Onsite Installation of FRP Tank		7/4/2021		30/7/2021	Task Completed						Water filling to tank completed; Tank hydraulic test completed.
	Electrical Installation	01/10/2020 -> 01/12/2020*	19/3/2021	15/11/2020 - > 15/01/2021*	19/7/2021	Task Completed				-		Energize of all LCPs on 24 May 2021 and isolated prior to system commissioning.
Temporary Primary Sludge Thickener and its accessories (Sub-programme was provided by Bestwise)	Testing and Comissioning	15/11/2020 -> 15/01/2021*	8/5/2021	22/11/2020 - > 22/01/2021*	30/9/2022	Completed				-		Improvement works under PMI are on-going and defect rectification for BCM comments was partially completed. - Testing and Commissioning (3 x 24hrs) completed by End September.
Modification of Existing Emergency Generator Electrical Works												
	Submission of subletting package (C9) for acceptance	15/10/2020	15/10/2020	31/10/2020	11/12/2020	Task Completed				100%		
	Acceptance of subletting package (C9)	1/11/2020	5/11/2020	15/11/2020	2/1/2021	Task Completed				100%		
	Tender invitation (C9)	16/11/2020	26/1/2021	30/11/2020	5/2/2021	Task Completed				100%		Tender invitation commenced on 26 Jan 2021, and returned on 5 Feb 2021
	Tender award (C9)	30/11/2020	18/2/2021	7/12/2020	18/2/2021	Task Completed				100%		Tender report was submitted on 18 Feb 2021 and accepted on 26 Feb 2021
	Acceptance of tender award (C9)	8/12/2020	18/2/2021	15/12/2020	26/2/2021	Task Completed				100%		
	Design Submission	15/12/2020	15/3/2021	15/1/2021	23/4/2021	Task Completed				100%		DWG-0100 was submitted on 23 Apr 2021. AECOM accepted with comments on 30 Apr
	Transportation of existing dismantled genset no. 2 (Genset No.2) to subcontractor (Click Ltd.)’s workshop	9/3/2021	9/3/2021	9/3/2021	9/3/2021	Task Completed				100%		
Drawing submission (Drawing of General Layout for Existing 600kVA Genset Container)	23/4/2021	23/4/2021	30/4/2021	30/4/2021	Task Completed				100%			
Drawing submission (Cable route ,general arrangement, etc)	14/5/2021	28/5/2021	21/5/2021	5 July 2021	Task Completed				100%			

Updated on: 20-Nov-24

Updated on: **20-Nov-24**

APPENDIX B
MONITORING REQUIREMENTS

Contract No. SPW 08/2024

Shek Wu Hui Effluent Polishing Plant – Main Works

Appendix B - Environmental Impact Monitoring Requirements

Table B-1 Air Quality Monitoring

Type of Monitoring	Parameter	Frequency	Location	Measurement Conditions
Air Quality	1-hour TSP	3 times/day, once every 6 days	• AM1 – Wai Loi Tsuen • AM2 – Fu Tei Au	• AM1 – Ground Level • AM2 – Ground Level
	24-hour TSP	Once every 6 days	• AM1a* – Site Boundary of the Shek Wu Hui STW (East) • AM2a – Site Boundary of the Shek Wu Hui STW (North)	• AM1a* – Roof floor (about 4/F) of the control room of SWHSTW • AM2a – Ground Level

Contract No. SPW 08/2024

Shek Wu Hui Effluent Polishing Plant – Main Works

Appendix B - Environmental Impact Monitoring Requirements

Table B-2 Noise Monitoring

Type of Monitoring	Parameter	Frequency	Location	Measurement Conditions
Construction Noise	L _{eq} , L ₉₀ & L ₁₀ at 30 minute intervals during (0700 to 1900 on normal weekdays)	Once per week	• NM1 – Wai Loi Tsuen • NM2 – Fu Tei Au • NM3 – Man Kok Village	• NM1 – Ground Level – Free Field • NM2 – Ground Level – Free Field • NM3 – Ground Level – Free Field

Contract No. SPW 08/2024

Shek Wu Hui Effluent Polishing Plant – Main Works

Appendix B - Environmental Impact Monitoring Requirements

Table B3 Ecological Monitoring

Type of Monitoring	Methodology	Location	Descriptions	Influenced by Tidal Action
Ecology	Weekly transect at both high and low tides to identify and enumerate all bird species utilizing the river channels and identify any sources of actual or potential disturbance to birds due to construction activities throughout the construction period.	• Transect T1 • Point Count Location P1 • Point Count Location P2	Along Ng Tung River	No
		• Transect T2 • Point Count Location P3 • Point Count Location P4		Yes
		• Point Count Location P5	At Shek Sheung River (Low –flow Channel)	No
		• Transect T3	Along Shek Sheung River & Sheung Yue River	Yes
		• Point Count Location P6	At Shek Sheung River	Yes
		• Point Count Location P7	At Interscetion between Sheung Yue River and Shek Sheung River	Yes

APPENDIX C
ACTION AND LIMIT LEVELS

Appendix C - Action and Limit Levels

Table C-1 Action and Limit Levels for 1-hour TSP

Location	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
AM1	320	500
AM2	322	

Table C-2 Action and Limit Levels for 24-hour TSP

Location	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
AM1a*	189	260
AM2a	187	

Table C-3 Action and Limit Levels for Noise during Construction Period

Time Period	Action Level	Limit Level
0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A)*

*Remarks:

- If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) used by the Noise Control Authority have to be followed.
- Reduce to 70 dB(A) for schools and 65 dB(A) during school examination periods.

Table C-4 Action and Limit Levels of Disturbance to Waterbirds using Ng Tung, Sheung Yue and Shek Sheung Rivers during Construction Phase

Action Level	Limit Level
Decline in numbers of all waterbird species relative to numbers during Baseline Monitoring such that the Action Level response is triggered.	Decline in numbers of all waterbird species relative to numbers during baseline monitoring such that the limit level response is triggered.
Decline in numbers of any one waterbird species occurring in significant numbers* during Baseline Monitoring such that the Action Level response is triggered.	Decline in numbers of any one waterbird species occurring in significant numbers* during Baseline Monitoring such that the Limit Level response is triggered.

Note: Whether numbers are significant depend on species and season after collection and evaluation of baseline survey data.

**APPENDIX D
ENVIRONMENTAL MITIGATION
IMPLEMENTATION SCHEDULE (EMIS)**

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
Air Quality Impact							
S2.3.1.3	Dust suppression measures stipulated in the Air Pollution Control (Construction Dust) Regulation and good site practices:	To minimize the dust impact	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Air Pollution Control Ordinance (APCO) and Air Pollution Control (Construction Dust) Regulation	^
	Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading;						^
	Any dusty material remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;						*
	A stockpile of dusty material should not be extended beyond the pedestrian barriers, fencing or traffic cones;						^
	The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle;						^
	Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores;						^
	When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period.						^
	The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials;						^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
S2.3.1.3	Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously;	To minimize the dust impact	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Air Pollution Control Ordinance (APCO) and Air Pollution Control (Construction Dust) Regulation	^
	Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet;						^
	Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding;						^
	Any skip hoist for material transport should be totally enclosed by impervious sheeting;						^
	Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides;						^
	Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed;						*
	Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system; and						^
	Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shortcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies						^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
Noise Impact							
S3.2.1.1	Use of movable barrier, enclosure, acoustic mat and quiet plant. Use of wooden frames barrier with a small-cantilevered upper portion of superficial density not less than 14kg/m ² on a skid footing with 25mm thick internal sound absorptive lining.	To minimize construction noise impact arising from the Project at the affected noise sensitive receivers (NSRs)	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM, Noise Control Ordinance (NCO)	^
S3.2.1.2	Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program.	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM, NCO	^
	Silencers or mufflers on construction equipment should be utilized and should be properly maintained 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 works 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 utilized, wherever practicable, in screening noise from on-site construction activities.						^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
Ecological Impact							
S4.2.1.1	Solid dull green noise/visual barriers of at least 2m high shall be erected and maintained between active works area and all areas of ecological importance.	Minimize noise and human disturbances during construction phase.	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM	^
S4.2.1.2	Avoid unnecessary lighting.	Minimize mortality impacts on birds.	Design / Contractor/ Plant Operator	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM	^
S4.2.1.3	Good construction site practice to minimise dust generation should be followed on all construction sites. Measures to avoid, minimise and mitigate impacts on air quality are detailed in this schedule	Minimize dust generation from construction sites.	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM	^
S4.2.1.4	Temporary sewerage and drainage to be designed and installed to collect wastewater and prevent it from entering water bodies;	Avoid, minimise and mitigate impact on water quality	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM	^
	Proper locations well away from nearby water bodies should be used for temporary storage of materials (i.e. equipment, filling materials, chemicals and fuel) and temporary stockpiles of construction debris and spoil, and these should be identified before commencement of works;						*
	To prevent muddy water entering nearby water bodies, work sites close to nearby water bodies should be isolated, using such items as sandbags or silt curtains with lead edge at bottom and properly supported props. Other protective measures should also be taken to ensure that no pollution or siltation occurs to the water gathering grounds of the work sites;						*
	Construction debris and spoil should be covered and/or properly disposed of as soon as possible to avoid these being washed into nearby water bodies;						^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
S4.2.1.4	Proper locations for discharge outlets of temporary wastewater treatment facilities well away from sensitive receivers should be identified;	Avoid, minimise and mitigate impact on water quality	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM	^
	Adequate lateral support should be erected where necessary in order to prevent soil/mud from slipping into water bodies;						^
	Site boundaries should be clearly marked and any works beyond the boundary strictly prohibited;						^
	Regular water monitoring and site audit should be carried out at adequate points along any watercourses where construction works are underway upstream within their catchments and also on the Ng Tung, Sheung Yue and Shek Sheung Rivers. If the monitoring and audit results show that pollution occurs, adequate measures including temporarily cessation of works should be considered;						^
	Excavation profiles should be properly designed and executed with attention to the relevant requirements for environment, health and safety;						^
	Where soil to be excavated is situated beneath the groundwater table, it may be necessary to lower the groundwater table by installing well points or similar means;						^
	Stockpiling sites should be lined with impermeable sheeting and bunded. Stockpiles should be properly covered by impermeable sheeting to reduce dust emission during dry season or contaminated run-off during rainy season. Watering should be avoided on stockpiles of contaminated soil to minimize contaminated runoff and construction materials should be properly covered and located away from nearby water bodies; and						^
	Supply of suitable clean backfill material after excavation, if required.						^
	Vehicles containing any excavated materials should be suitably covered to limit potential dust emissions or contaminated run-off, and truck bodies and tailgates should be sealed to prevent discharge during transport or during wet season;						^
	Speed control for the trucks carrying contaminated materials should be enforced;						^
	Vehicle wheel washing facilities at construction sites' exit points should be established and used, where necessary						^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
Water Quality Impact							
S5.2.2.1	Construction Site Runoff Practices and measures provided in the Practice Note for Professional Persons on Construction Site Drainage, (PROPECC PN2/23) should be followed where applicable.	Control construction runoff	Contractors	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM, WPCO, EIAO	*
S5.2.2.2 – S5.2.2.3	Portable chemical toilets and sewage holding tanks should be provided for handling the construction sewage generated by the workforce. A licensed Contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	Handling of site sewage	Contractors	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM, WPCO, EIAO	^
	Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the Project. Regular environmental audit on construction site should be conducted in order to provide an effective control of any malpractices and achieve continual improvement of environmental performance on site. It is anticipated that sewage generation during the construction phase of the Project would not cause water quality impact after undertaking all required measures						^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
Waste Management							
S6.2.2.1	Nomination of an approved person, such as a site manager, to be responsible for the implementation of good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site;	Minimize waste generation during construction	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Waste Disposal Ordinance (WDO)	^
	Training of site personnel in site cleanliness, appropriate waste management procedures and concepts of waste reduction, reuse and recycling;						^
	Provision of sufficient waste disposal points and regular collection for disposal;						*
	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;						^
	An Environmental Management Plan (EMP) should be prepared by the contractor and submitted to the Supervisor for approval.						^
S6.2.3.1	Segregate and store different types of waste in different containers, skip or stockpiles to enhance reuse or recycling of materials and their proper disposal;	Reduce waste generation	Contractor	Work Sites	Prior to the commencement of construction of Main Works Stage 1, Stage 2 and Stage 3	WDO	^
	Proper storage and site practices to minimize the potential for damage and contamination of construction materials;						^
	Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste;						^
	Sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable portions (i.e. soil, broken concrete, metal etc.); and						^
	Provide training to workers on the importance of appropriate waste management procedures, including waste reduction, reuse and recycling.						^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
6.2.4.1	Waste, such as soil, should be handled and stored well to ensure secure containment, thus minimizing the potential of pollution;	Minimize waste impacts arising from waste storage	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	WDO	^
	Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; and						^
	Different locations should be designated to stockpile each material to enhance reuse.						^
S6.2.4.2	Remove waste in timely manner;	Minimize waste impacts arising from waste storage	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	WDO	^
	Employ the trucks with cover or enclosed containers for waste transportation						^
	Obtain relevant waste disposal permits from the appropriate authorities						^
	Disposal of waste should be done at licensed waste disposal facilities.						^
S6.2.5.2	Maintain temporary stockpiles and reuse excavated fill material for backfilling;	Minimize waste impacts from excavated and C&D materials	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Land (Miscellaneous Provisions) Ordinance, WDO, ETWB TCW No. 19/2005	^
	Carry out on-site sorting;						^
	Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate;						^
	Adopt “selective demolition” technique to demolish the existing structure and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible; and						^
	Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified.						^
S6.2.5.3	The Contractor should recycle as much as possible of the C&DM on-site. Public fill and C&DM waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. For example, concrete and masonry can be crushed and used as fill, and steel reinforcing bar can be used by scrap steel mills. Different areas of the work sites should be designated for such segregation and storage.	Minimize waste impacts from building demolition and new building construction	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Land (Miscellaneous Provisions) Ordinance, WDO, ETWB TCW No. 19/2005	^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
S6.2.5.3	The use of wooden hoardings shall not be allowed. An alternative material, such as metal, aluminium or alloy etc, could be used.	Minimize waste impacts from building demolition and new building construction	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Land (Miscellaneous Provisions) Ordinance, WDO, ETWB TCW No. 19/2005	^
	Government has developed a charging policy for the disposal of waste to landfill at present. It will provide additional incentive to reduce the volume of generated waste and ensure proper segregation to allow reuse of the inert material on site when implemented.						^
	In order to minimize the impacts of the demolition works, the generated wastes must be cleared as quickly as possible after demolition. Therefore, the demolition and clearance works should be undertaken simultaneously. To facilitate proper segregation of inert and non-inert C&D material arising from demolition works, selective demolition method should be adopted.						^
S6.2.5.4	If chemical wastes are produced at the construction site, the Contractors should register with EPD as chemical waste producers.	Control the chemical waste and ensure proper storage, handling and disposal	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Waste Disposal (Chemical Waste General) Regulation, Code of Practice on the Packaging, Labelling and Storage of Chemical Waste	^
	Chemical wastes should be stored in appropriate containers and collected by a licensed chemical waste contractor. Chemical wastes (e.g. spent lubricant oil) should be recycled at an appropriate facility as far as possible, while the chemical waste that cannot be recycled should be disposed of at either the Chemical Waste Treatment Centre, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.						^
S6.2.5.5	General refuse should be stored in enclosed bins separately from construction and chemical wastes.	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Waste Disposal (Chemical Waste General) Regulation	*
	Recycling bins should also be placed to encourage recycling.						^
	Preferably enclosed and covered areas should be provided for general refuse collection and routine cleaning for these areas should also be implemented to keep areas clean.						^
	A reputable waste collector should be employed to remove general refuse on a daily basis.						^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
Landscape and Visual							
S7.3.1.1	For areas unavoidably disturbed by the Project on a short term basis e.g. works areas, the general principle to try and restore these to their former state to suit future land use, should be adhered to.	Minimize the impact to the landscape and visual	Contractor	Work Sites	Prior to construction and construction phase		^
	With regard to topsoil, where identified, it should be stripped, treated appropriately, and where suitable and practical stored for re-use in the construction of the soft landscape works such as roadside amenity strips, and open space sites.						^
S7.3.2.1	MM4 – Tree Protection & Preservation Existing trees to be retained within the Project Site should be carefully protected during construction. In particular Old and Valuable Trees (OVTs) will be preserved according to ETWB TC (Works) No. 29/2004. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in Contractor's works areas. A detailed tree survey will be carried out for the Tree Removal Application (TRA) process which will be carried out at the later detailed design stage of the Project. The detailed tree survey will propose which trees should be retained, transplanted or felled and will include details of tree protection measures for those trees to be retained.	Protect and Preserve Trees	Designer / Contractor	Work Sites	Prior to construction and construction phase	ETWB TCW No. 29/2004 and DEVB TC(W) No.7/2015	^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
S7.3.2.1	MM5 - Tree Transplantation Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, where applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme. A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBTC No. 2/2004 and DEVB TC(W) No. 7/2015 and final locations of transplanted trees should be agreed prior to commencement of the work. For trees associated with highways e.g. roadside planting along highways, that are unavoidably affected and should be transplanted, HyD HQ/GN/13 'Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit' should be referred to.	Transplant Trees where suitable for transplantation	Designer / Contractor	Work Sites where possible. Otherwise consider offsite locations	Prior to construction, construction phase and operation phase	DEVB TC(W) No. 7/2015 and ETWB TCW No.2/2004 HyD HQ/GN/13 Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit	Completed on 23 Sep 2020
S7.3.2.1	MM6 - Slope Landscaping Site formation should be reduced as far as possible. Hydroseeding of modified slopes should be done as soon as grading works are completed to prevent erosion and subsequent loss of landscape resources and character. Woodland tree seedlings and/or shrubs should be planted where slope gradient and site conditions allow. In addition, landscape planting should be provided for the retaining structures associated with modified slopes where conditions allow. All slope landscaping works should comply with GWO Publication No. 1/2011-Technical Guidelines on Landscape Treatment for Slopes.	To avoid substantial slope cutting and fill slopes. To prevent erosion and subsequent loss of landscape resources and character. To ensure man-made slopes are as visually amenable as possible.	Designer / Contractor	Work Sites	Prior to construction, construction phase and operation phase	GEO Publication (1999) - Use of Vegetation as Surface Protection on Slope; GEO Publication No. 1/2011-Technical Guidelines on Landscape Treatment for Slopes	Completed on 28 Feb 2023 Completed on 28 Feb 2023

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
S7.3.2.1	MM7 - Compensatory Planting Compensatory tree planting for felled trees shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Removal Application process under DEVB TC(W) No. 7/2015.	Compensate for trees and shrubs lost due to the Project	Designer / Contractor	Work Sites where possible. Otherwise consider offsite locations	Prior to construction, construction phase and operation phase	DEVB TC(W) No. 7/2015 and ETWB TCW No. 2/2004	Latest amendment approved on 23 August 2023
	Compensatory planting is proposed at the potential open areas such as open spaces, amenity areas, open areas of the streetscapes, as well as the open areas within development lots.						Commenced in Sep 2024
	Compensatory planting for shrubs should be considered in suitable locations. Native species such as <i>Melastoma malabathricum</i> , <i>Diospyros vaccinioides</i> , <i>Gardenia jasminoides</i> , <i>Ixora chinensis</i> , <i>Ligustrum sinense</i> , <i>Litsea rotundifolia</i> , <i>Melastoma dodecandrum</i> , <i>Atalantia buxifolia</i> , <i>Rhodomyrtus tomentosa</i> , <i>Rhaphiolepis indica</i> , and <i>Rhododendron simsii</i> are suggested.						Commenced in Oct 2024
S7.3.2.1	MM9 - Vertical Greening Planting of climbers to grow up vertical surfaces were appropriate.	Soften hard surfaces and facilities	Designer / Contractor	On appropriate structures	Prior to construction, construction phase and operation phase	ETWB TCW No.11/2004 – Cyber Manual for Greening	To be commenced in Jan 2025 tentatively
S7.3.2.1	MM10 - Green Roof Roof greening where appropriate should be established on proposed buildings as per the guidelines stated. These guidelines provide further details including information regarding structural loading, design, maintenance, etc. considerations as well as providing information on what types of plants might be suitable.	Reduce exposure to untreated concrete surfaces and particularly mitigate visual impact to visually sensitive receivers (VSRs) at high levels. Provide greening.	Designer / Contractor	On appropriate buildings	Prior to construction, construction phase and operation phase	CIBSE HK Branch, Technical Guidelines for Green Roof Systems in Hong Kong (2011); ArchSD/Urbis Study on Green Roof Application in HK (2007)	Completed in Dec 2024

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Status
S7.3.2.1	MM11 - Screen Planting Tall screen/buffer trees and shrubs should be planted. This measure may additionally form part of the compensatory planting.	To screen proposed structures such as roads and buildings. Improve compatibility with the surrounding environment and create a pleasant pedestrian environment	Designer / Contractor	Along roads, around suitable built structures, or around VSRs to contain their view out to the structures.	Prior to construction, construction phase and operation phase	ETWB TCW No. 10/2013 and 3/2006	Commenced in Sep 2024
S7.3.2.1	MM16 - Screen Hoarding Screen hoarding shall be erected along areas of the construction works site boundary where the works site borders publically accessible routes and/or is close to visually sensitive receivers (VSRs). It is proposed that the screening be compatible with the surrounding environment and where possible, non-reflective, recessive colours be used. Any works areas near the ecological sensitive areas should erect 2m high dull green site boundary fence.	To screen undesirable views of the works site.	Designer	Work Sites	Construction phase		^
S7.3.2.1	MM17 - Light Control Construction day and night time lighting should be controlled to minimize glare impact to adjacent VSRs during the Construction phase. Street and night time lighting shall also be controlled to minimize glare impact to adjacent VSRs during the operation phase.	To minimize glare impact to adjacent VSRs.	Designer / Contractor	Work Sites and/or the Plant	Construction phase and operation phase		^

Remarks: EM&A Programme under FEP-02/474/2013	
^	Compliance of mitigation measure;
N/A	Not applicable at this stage;
N/A(1)	Not observed;
*	Recommendation was made during site audit but improved/retified by the contractor;
#	Recommendation was made during site audit but not yet improved/retified by the contractor;
X	Non-compliance of mitigation measure;
●	Non-compliance but rectified by the contractor.

APPENDIX E
SITE AUDIT SUMMARY

Appendix E – Summary of Observations and Recommendations of Site Audit

Reporting Quarter: October 2024 to December 2024

Table E-1 Observations and Recommendations of Site Audit of Contract No. DC/2018/06

Parameters	Date	Observations and Recommendations	Closed Out Date	Follow-up
Water Quality	29 October 2024	Sand bags bunds should be provided for flood protection.	07 November 2024	Sand bags bund was provided to for flood protection.
Air Quality	02 October 2024	The dust material of the stockpile should be covered property.	10 October 2024	The dust material from the stockpile was properly covered.
	26 November 2024	Water spraying should be provided to haul road and exposed surface.	02 December 2024	Water spraying was provided to haul road and exposed surface.
	05 December 2024	The dust material of the stockpile should be covered property.	17 December 2024	The contractor has been reminded to further improve operations.
Noise	N/A	There was no observation in the reporting period.	N/A	N/A
Waste / Chemical Management	02 October 2024	Drip tray should be provided to oil drum or chemical.	10 October 2024	The oil stain in the water of the nearby drain was removed.
	15 October 2024	General Refuse should be removed or disposed properly.	22 October 2024	General Refuse was removed.
	29 October 2024	Accumulation of general refuse should be avoided	07 November 2024	The accumulation of general refuse was removed and measures were taken to prevent it from recurring.
	14 November 2024	General refuse near the river should be removed.	21 November 2024	General refuse near the river was removed.

Parameters	Date	Observations and Recommendations	Closed Out Date	Follow-up
	21 November 2024	General refuse should be removed.	02 December 2024	General refuse was removed.
	17 December 2024	General refuse near the river should be removed.	24 December 2024	General refuse near the river was removed.
	24 December 2024	General refuse should be disposed of regularly and properly.	24 December 2024	General refuse was removed after inspection.
Ecology	29 October 2024	Stockpile near river should be removed.	07 November 2024	The temporary stockpile near the river has been covered by impervious materials before moving away from the current location.
Visual and Landscape	N/A	There was no observation in the reporting period.	N/A	N/A
Permits /Licences	N/A	There was no observation in the reporting period.	N/A	N/A

Table E-2 Observations and Recommendations of Site Audit of Contract No. DC/2018/07

Parameters	Date	Observations and Recommendations	Closed Out Date	Follow-up
Water Quality	N/A	There was no observation in the reporting period.	N/A	N/A
Air Quality	02 October 2024	More than 20 cement bags should be covered.	15 October 2024	More than 20 cement bags have been covered properly.
	02 October 2024	Water spraying should be provided to haul road.	10 October 2024	Water spraying was applied to the haul road.
	15 October 2024	Water spraying should be provided to the haul road.	22 October 2024	Water spraying was provided to the haul road
	22 October 2024	NRMM Label should be renewed on PME.	29 October 2024	NRMM Label was renewed on PME
	05 December 2024	Water spraying should be provided to haul road.	12 December 2024	Water spraying was provided to haul road.
Noise	N/A	There was no observation in the reporting period.	N/A	N/A
Waste / Chemical Management	02 October 2024	Used cement bags & General Refuse should be removed or disposed of properly.	15 October 2024	Used cement bags & General Refuse have been removed.
	26 November 2024	Used cement bag and general refuse should be disposed properly.	05 December 2024	Used cement bag and general refuse was removed and disposed properly.
	05 December 2024	General refuse should be disposed of regular and properly.	12 December 2024	General Refuse was removed.
	17 December 2024	Used cement bag should be removed or disposed properly.	24 December 2024	Used cement bag was removed.

Parameters	Date	Observations and Recommendations	Closed Out Date	Follow-up
<i>Ecology</i>	N/A	There was no observation in the reporting period.	N/A	N/A
<i>Visual and Landscape</i>	N/A	There was no observation in the reporting period.	N/A	N/A
<i>Permits /Licences</i>	N/A	There was no observation in the reporting period.	N/A	N/A

Table E-3 Observations and Recommendations of Site Audit of Contract No. DE/2018/03

Parameters	Date	Observations and Recommendations	Closed Out Date	Follow-up
<i>Water Quality</i>	N/A	There was no observation in the reporting period.	N/A	N/A
<i>Air Quality</i>	N/A	There was no observation in the reporting period.	N/A	N/A
<i>Noise</i>	N/A	There was no observation in the reporting period.	N/A	N/A
<i>Waste / Chemical Management</i>	N/A	There was no observation in the reporting period.	N/A	N/A
<i>Ecology and Fisheries</i>	N/A	There was no observation in the reporting period.	N/A	N/A
<i>Visual and Landscape</i>	N/A	There was no observation in the reporting period.	N/A	N/A
<i>Permits /Licences</i>	N/A	There was no observation in the reporting period.	N/A	N/A

Table E-4 Observations and Recommendations of Site Audit of Contract No. DE/2018/04

Parameters	Date	Observations and Recommendations	Closed Out Date	Follow-up
<i>Water Quality</i>	23 October 2024	Stagnant water was observed.	29 October 2024	Larvicide oil was placed into the stagnant water.
<i>Air Quality</i>	N/A	There was no observation in the reporting period.	N/A	N/A
<i>Noise</i>	N/A	There was no observation in the reporting period.	N/A	N/A
<i>Waste / Chemical Management</i>	N/A	There was no observation in the reporting period.	N/A	N/A
<i>Ecology and Fisheries</i>	N/A	There was no observation in the reporting period.	N/A	N/A
<i>Visual and Landscape</i>	N/A	There was no observation in the reporting period.	N/A	N/A
<i>Permits /Licences</i>	N/A	There was no observation in the reporting period.	N/A	N/A

APPENDIX F
WASTE FLOW TABLE

Monthly Summary Waste Flow Table for 2024

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill		Paper/ cardboard packaging	Plastics	Chemical Waste	Others, e.g. general refuse
	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m3)
Jan	0.089	0.000	0.000	0.000	0.089	0.072	0.000	0.000	0.000	0.000	0.011
Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.030
Mar	0.144	0.000	0.000	0.000	0.144	0.012	0.000	0.000	0.008	0.000	0.021
Apr	0.060	0.000	0.000	0.000	0.060	0.000	0.000	0.000	0.014	0.000	0.032
May	0.000	0.000	0.000	0.000	0.000	0.072	0.000	0.000	0.000	0.000	0.046
Jun	0.005	0.000	0.000	0.000	0.005	0.083	0.000	0.000	0.001	0.000	0.035
Sub-total	0.299	0.000	0.000	0.000	0.299	0.239	0.000	0.000	0.023	0.000	0.176
Jul	0.000	0.000	0.000	0.000	0.000	0.223	0.000	0.000	0.002	0.000	0.015
Aug	0.062	0.000	0.000	0.000	0.062	0.168	0.002	0.000	0.003	0.000	0.025
Sep	0.076	0.000	0.000	0.000	0.076	0.036	0.000	0.000	0.000	0.000	0.017
Oct	0.080	0.000	0.000	0.000	0.080	0.000	0.0006	0.000	0.001	0.000	0.055
Nov	0.084	0.000	0.000	0.000	0.084	0.007	0.000	0.000	0.000	0.000	0.018
Dec	0.035	0.000	0.000	0.000	0.035	0.030	0.0004	0.000	0.0004	0.000	0.016
Total	0.635	0.000	0.000	0.000	0.635	0.703	0.003	0.000	0.030	0.000	0.322

- Notes:
1. Assume the density of soil fill is 2 ton/m3.
 2. Assume the density of rock and broken concrete is 2.5 ton/m3.
 3. Assume the density of general refuse is 0.9 ton/m3.
 4. Assume density of waste oil is assumed to be 0.8 kg/L.
 5. The inert C&D materials except slurry and bentonite are disposed at Tuen Mun 38.
 6. The non-inert C&D wastes are disposed at NENT.
 7. The quantities of C&D material disposed at Public Fill Facilities and Landfill was until 19/10/2023.

Monthly Summary Waste Flow Table for 2024

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill		Paper/ cardboard packaging		Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m3)
Jan	0.489	0.000	0.000	0.000	0.489	0.012	0.00	0.000	0.000	0.000	0.122
Feb	0.425	0.000	0.000	0.000	0.425	0.120	0.00	0.000	0.004	0.000	0.141
Mar	1.793	0.000	0.000	0.000	1.793	0.739	0.00	0.000	0.007	0.000	0.165
Apr	1.367	0.000	0.000	0.000	1.367	0.550	0.00	0.000	0.014	0.000	0.149
May	0.847	0.000	0.000	0.072	0.775	0.470	0.00	0.000	0.000	0.000	0.207
Jun	0.699	0.000	0.000	0.083	0.617	0.571	0.00	0.000	0.000	0.000	0.220
Sub-total	5.620	0.000	0.000	0.155	5.465	2.462	0.000	0.000	0.026	0.000	1.004
Jul	1.097	0.000	0.000	0.245	0.852	0.753	0.00	0.000	0.000	0.000	0.182
Aug	1.515	0.000	0.000	0.145	1.369	0.212	0.00	0.000	0.003	0.000	0.087
Sep	0.936	0.000	0.000	0.036	0.899	0.354	0.00	0.000	0.000	0.000	0.069
Oct	0.731	0.000	0.000	0.000	0.731	0.042	0.00	0.000	0.001	0.000	0.062
Nov	0.582	0.000	0.000	0.000	0.582	0.526	0.00	0.000	0.000	0.000	0.057
Dec	0.885	0.000	0.000	0.000	0.885	0.391	0.00	0.000	0.001	0.000	0.118
Total	11.365	0.000	0.000	0.581	10.784	4.739	0.000	0.000	0.031	0.000	1.579

- Notes:
1. Assume the density of soil fill and special waste (i.e. sediment from DSD sedimentation tank) is 2 ton/m³.
 2. Assume the density of rock and broken concrete is 2.5 ton/m³
 3. Assume the density of general refuse is 0.9 ton/m³
 4. Density of waste oil is assumed to be 0.8 kg/L. Chemical waste includes waste oil.
 5. The inert C&D materials except slurry and bentonite are disposed at Tuen Mun 38
 6. The slurry and bentonite are disposed at Tseung Kwun O 137
 7. The non-inert C&D wastes, including general refuse & special waste (i.e. sediment from DSD sedimentation tank) are disposed at NENT

EM&A Monthly Reporting Template (cut-off at the end of each month)

Name of Department: ArchSD/CEDD/DSD/EMSD/HyD/WSD

Contract No.: DE/2018/03

Monthly Summary Waste Flow Table for **2024** (year)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m³)	(in '000m³)	(in '000m³)	(in '000m³)	(in '000m³)	(in '000m³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m³)
Jan	0	0	0	0	0	0	0.003	0.02	0.006	0	41.05T
Feb	0	0	0	0	0	0	0	0	0	0	21.68T
Mar	0	0	0	0	0	0	24.27	0.108	0	0	16.04T
Apr	0	0	0	0	0	0	0	0.199	0	0	20.22T
May	0	0	0	0	0	0	0	0.109	0	0	18.53T
June	0	0	0	0	0	0	0	0.105	0	0	19.84T
Sub-total	0	0	0	0	0	0	24.27	0.541	0.006	0	137.36T
July	0	0	0	0	0	0	0.007	0.175	0.017	0	18.89T
Aug	0	0	0	0	0	0	0	0.108	0	0	66.37T
Sept	0	0	0	0	0	0	0.005	0.108	0.014	0	39.98T
Oct	11.22 T	0	0	0	11.22 T	0	0	0.133	0.005	0	18T
Nov	24.62 T	0	0	0	24.62 T	0	0	0.218	0.008	0	39.02T
Dec	6T	0	0	0	6T	0	0	0.089	0.008	0	22.56T
Total	41.84TT	0	0	0	41.84T	0	24.285	1.372	0.058	0	342.18T

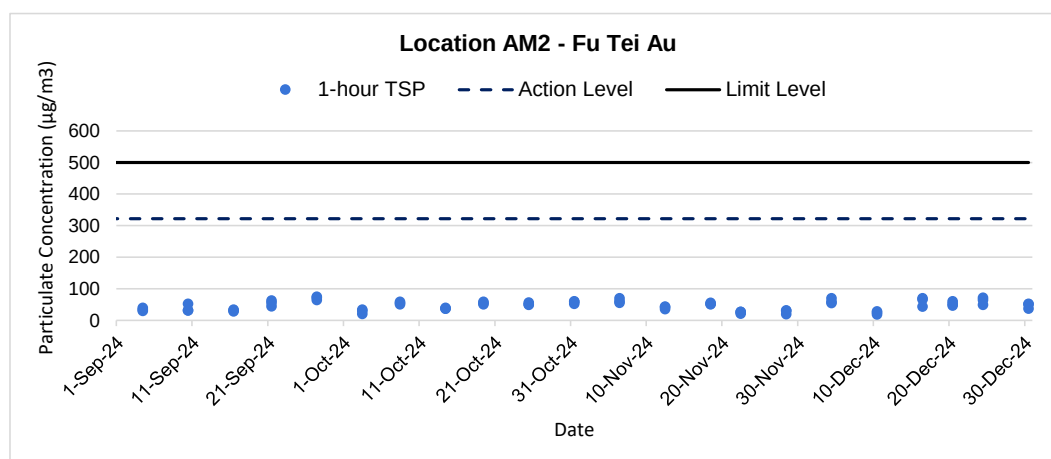
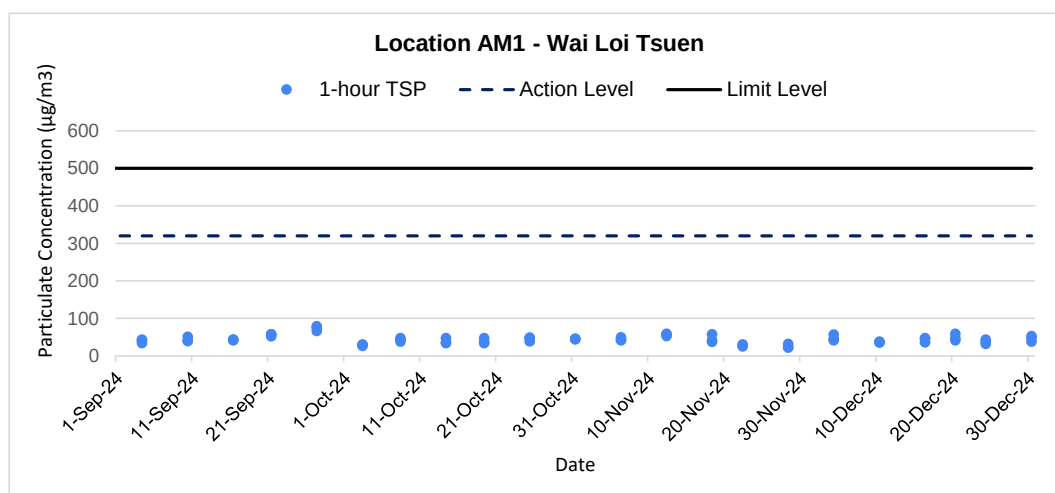
Name of Department: DSD

Contract No.: DE/2018/04**Monthly Summary Waste Flow Table for 2024** (year)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse
	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 kg)
Jan	0	0	0	0	0	0	0	0	0	0	1.69
Feb	0	0	0	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0	0	0	4.57
May	0	0	0	0	0	0	0	0	0	0	0.54
June	0	0	0	0	0	0	0	0	0	0	0
Sub-total	0	0	0	0	0	0	0	0	0	0	6.8
July	0	0	0	0	0	0	0	0	0	0	0.92
Aug	0	0	0	0	0	0	0	0	0	0	18.19
Sept	39.87	0	0	0	39.87	0	0	0	0	0	6.97
Oct	0	0	0	0	0	0	0	0	0	0	2.35
Nov	0	0	0	0	0	0	0	0.105	0	0	3.49
Dec	18.78	0	0	0	18.78	0	0	0	0	0	3.66
Total	58.65	0	0	0	58.65	0	0	0.105	0	0	42.38

APPENDIX G
GRAPHICAL PRESENTATIONS OF AIR
QUALITY MONITORING RESULTS (1-
HOUR)

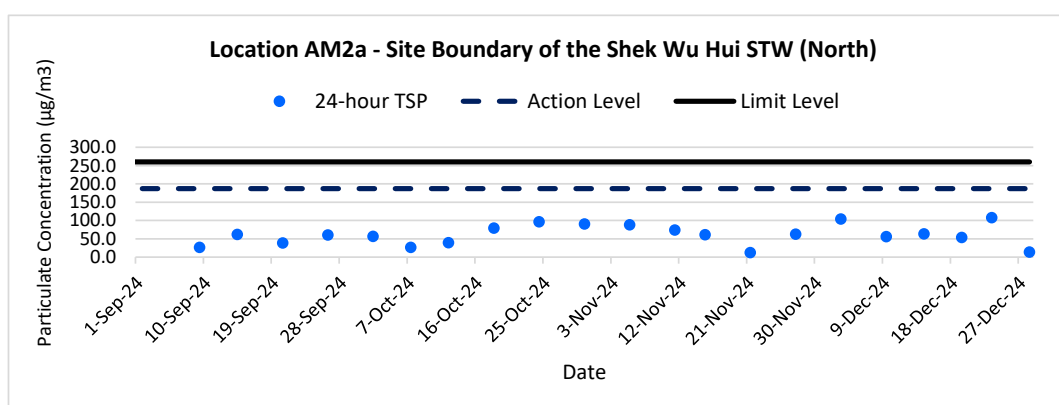
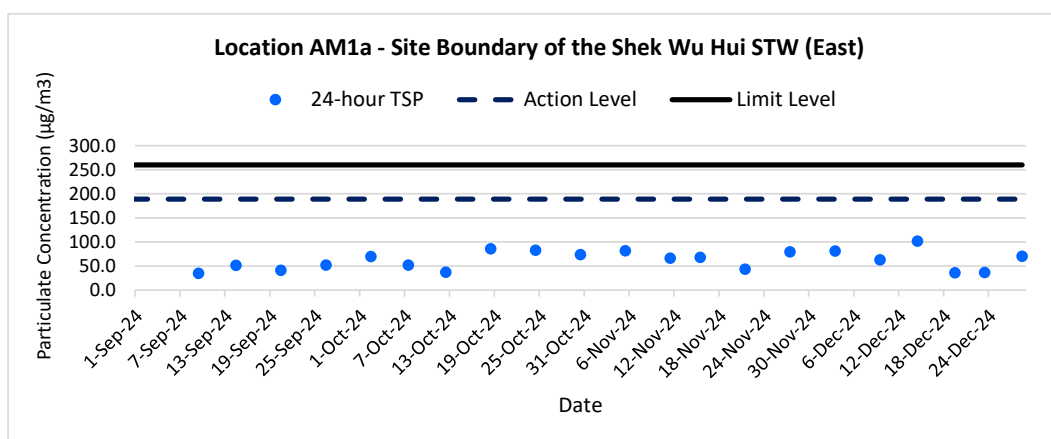
1-hr TSP Concentration Levels



Title	Shek Wu Hui Effluent Polishing Plant - Main Works	Date	Dec 2024	Project No.	MA24087	CINOTECH
	Graphical Presentation of 1-hour TSP Monitoring Results			Appendix	G	

**APPENDIX H
GRAPHICAL PRESENTATIONS OF AIR
QUALITY MONITORING RESULTS (24-
HOUR)**

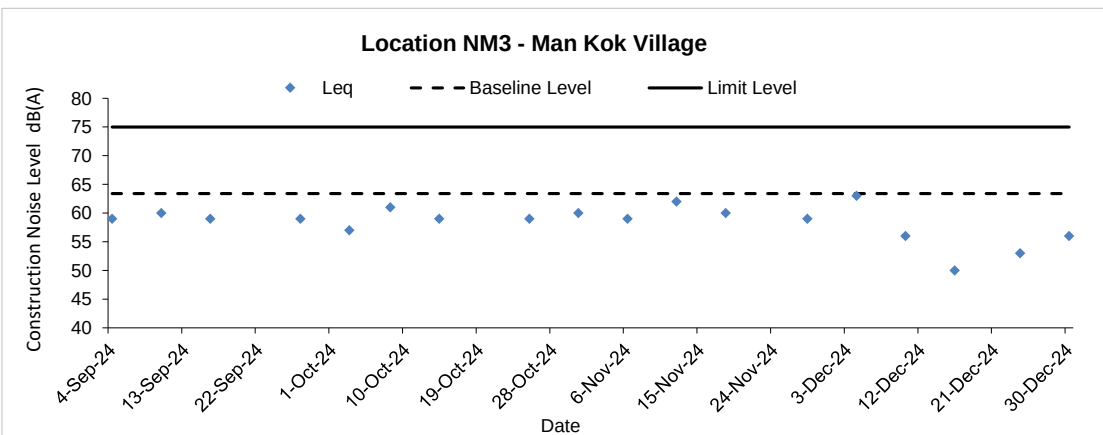
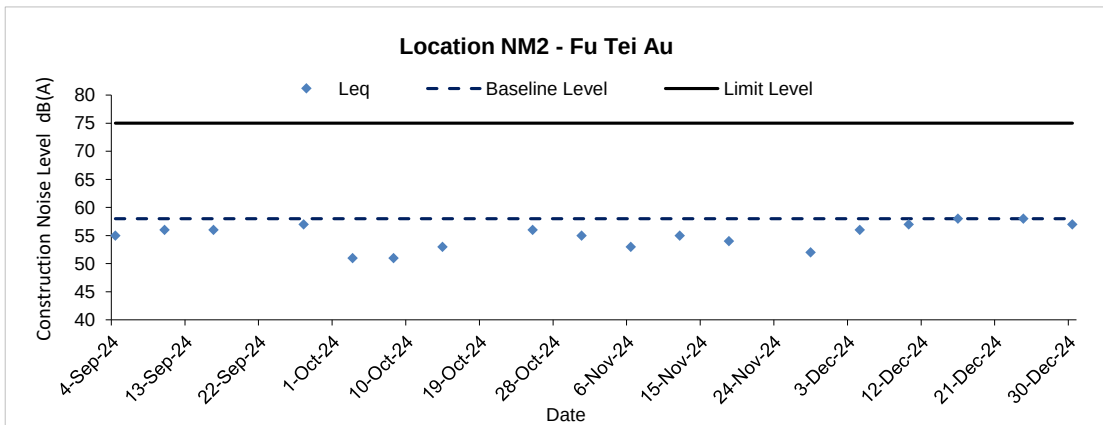
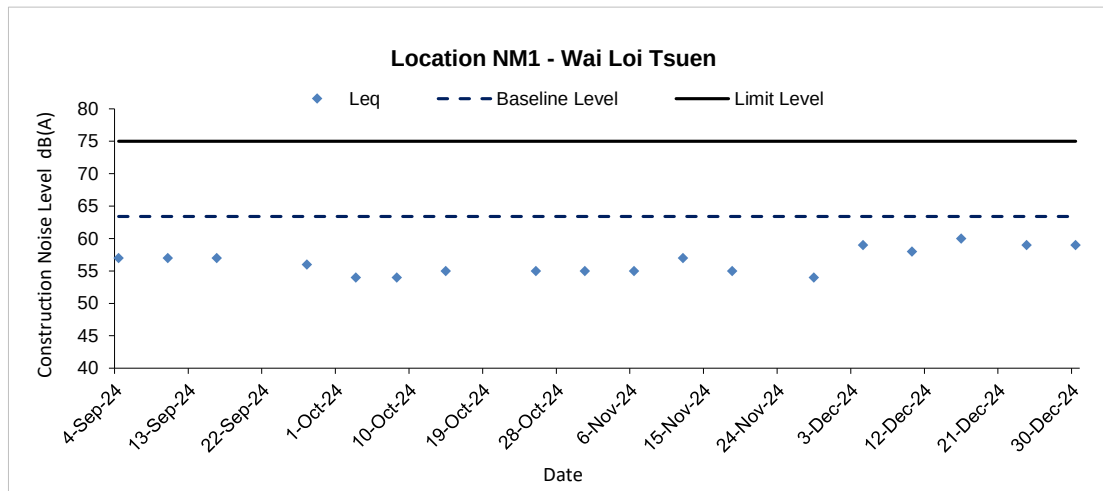
24-hr TSP Concentration Levels



Title	Shek Wu Hui Effluent Polishing Plant - Main Works	Date	Dec 2024	Project No.	MA24087	CINOTECH
	Graphical Presentation of 24-hour TSP Monitoring Results			Appendix	H	

**APPENDIX I
GRAPHICAL PRESENTATIONS OF
NOISE MONITORING RESULTS**

Noise Levels



Title Shek Wu Hui Effluent Polishing Plant - Main Works Graphical Presentation of Construction Noise Monitoring Results	Date Dec 2024	Project No. MA24087	
		Appendix I	

APPENDIX J
SUMMARY OF ECOLOGICAL
MONITORING ANALYSIS

Contract No. SPW 08/2024
Shek Wu Hui Effluent Polishing Plant – Main Works

Appendix J – Summary of Ecology Monitoring Analysis

Reporting Quarter: October to December 2024

Table J-1 Summary Result of T-Test Analysis for All Waterbirds

T-values of Data*		Confidence Level	
		95%	99%
Oct 2024	Monthly	✓	✓
	Season	✓	✓
	Overall	✓	✓
Nov 2024	Monthly	✓	✓
	Season	✓	✓
	Overall	✓	✓
Dec 2024	Monthly	✓	✓
	Season	✓	✓
	Overall	✓	✓

Remarks:

✓ = T-value falls within the confidence level, the impact monitoring data shows no significant difference to the baseline data.

✗ = T-value falls outside the confidence level, the impact monitoring data shows significant difference to the baseline data.

Contract No. SPW 08/2024
Shek Wu Hui Effluent Polishing Plant – Main Works

Appendix J – Summary of Ecology Monitoring Analysis

Table J-2 Summary Result of T-test Analysis for Representative Waterbirds from Point Count

Representative Species			Compliance		
Species Name	Common Name	Chinese Name	October 2024	November 2024	December 2024
<i>Egretta garzetta</i>	Little Egret	小白鷺	✓	✓	✓
<i>Ardea cinerea</i>	Grey Heron	蒼鷺	✓	✓	✓
<i>Ardeola bacchus</i>	Chinese Pond Heron	池鷺	✓	✓	✓
<i>Phalacrocorax carbo</i>	Great Cormorant	普通鸕鶿	✓	✓	✓
<i>Ardea alba</i>	Great Egret	大白鷺	✓	✓	✓
<i>Bubulcus coromandus</i>	Eastern Cattle Egret	牛背鷺	✓	✓	✓

✓ = T-value falls within the confidence level, the impact monitoring data shows no significant difference to the baseline data.

✗ = T-value falls outside the confidence level, the impact monitoring data shows significant difference to the baseline data.

APPENDIX K
SUMMARY OF EXCEEDANCES

Contract No. SPW 08/2024
Shek Wu Hui Effluent Polishing Plant – Main Works

Appendix K – Summary of Exceedance

Reporting Quarter: October 2024 to December 2024

(A) Exceedance Report for Air Quality
(NIL in the reporting quarter)

(B) Exceedance Report for Construction Noise
(NIL in the reporting quarter)

(C) Exceedance Report for Ecology
(NIL in the reporting quarter)

APPENDIX L
SUMMARIES OF ENVIRONMENTAL
COMPLAINT, WARNING, SUMMON
AND NOTIFICATION OF SUCCESSFUL
PROSECUTION

Contract No. SPW 08/2024
Shek Wu Hui Effluent Polishing Plant – Main Works

Appendix L – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Reporting Period: October 2024 to December 2024

Log Ref.	Location	Received From and Received By	Received Date	Details of Complaint/Warning/Summon and Prosecution	Investigation/Mitigation Action	Status
1	Expansion Site of SWHSTP (Portion C)	EPD	18 March 2020	Muddy water was suspected to be discharged from the expansion site of SWHSTP to Shek Sheung River, manholes and foul drains nearby	• Employed suction truck and dump truck to clear the silt and mud at Shek Sheung River • Arranged to repair the wastewater treatment system • Installed additional sedimentation tanks and wastewater treatment system to increase the on-site treatment capacity • Clean the slurry sediment released from the outlet regularly by suction trucks • Avoid damage of underground drains and pipes caused by existing construction works • Avoid illegal discharge from the Site into foul drains and manholes	Closed
2	SWHEPP	EPD	19 February 2021	Significant odour nuisance was suspected to be emitted from the construction activities of SWHEPP	• Ensured only PME's with valid NRMM label were used on-site • Conducted regular visual checking against emission quality of exhaust pipe of equipment by using the Ringlemann Chart • Used ULSD for diesel-powered equipment • Provided water spraying and water sprinklers system	Closed

Contract No. SPW 08/2024

Shek Wu Hui Effluent Polishing Plant – Main Works

Appendix L – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Log Ref.	Location	Received From and Received By	Received Date	Details of Complaint/Warning/Summon and Prosecution	Investigation/Mitigation Action	Status
					for haul road access and demolition works • Used battery powered solution to provide power to the tower crane • Provided cover for all rubbish bins on-site • Separated general refuse from construction waste	
3	SWHEPP	EPD	9 August 2021	Air nuisance was suspected to be originated from the construction activities of SWHEPP	• Ensured only PME's with valid NRMM label were used on-site • Conducted regular visual checking against emission quality of exhaust pipe of equipment by using the Ringlemann Chart • Used ULSD for diesel-powered equipment • Used battery powered solution to provide power to the tower crane • Carried out plant maintenance in a timely manner	Closed

Contract No. SPW 08/2024

Shek Wu Hui Effluent Polishing Plant – Main Works

Appendix L – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Log Ref.	Location	Received From and Received By	Received Date	Details of Complaint/Warning/Summon and Prosecution	Investigation/Mitigation Action	Status
220304	SWHEPP	EPD	4 March 2022	The complainant alleged the odour nuisance was sourced from the construction site of Shek Wu Hui Effluent Polishing Plant on 4 March 2022. Thus, all four contracts (Contract Nos. DC/2018/06, DC/2018/07, DE/2018/03 and DE/2018/04) were involved in the complaint investigation.	After investigation, no construction activities undertaken by all four contracts was associated with the odour nuisance received on 4 March 2022. Nevertheless, the contractors were reminded and recommended to: • Ensure only equipment with valid NRMM label is allowed to be used at site and regular maintenance of equipment • Provide regular visual checking against emission quality of exhaust pipe of equipment by using the Ringelmann Chart • Use ULSD as fuel for diesel-powered equipment • Maintain proper segregation and storage of general refuse	Closed
231204	BR2 of SWHEPP; SWHSTW Administration Building	EPD	14 December 2023	EPD received a complaint on 19 December 2023, mentioned that dust netting was not provided to a building known as BR2 under the construction by Contract DC/2018/07; also polluting effluent was being discharged by a construction site near the SWHSTW Administration Building.	Upon the receipt of the complaint, BR2 has just finishing forming the first layer of building structure and dust netting is about to be provided, major works included formwork erection and removal. No significant air quality impact has been made by the works as no action nor limit level exceedance of air quality monitoring was recorded at AM1 and AM1a* which are the closest impact air quality monitoring stations to BR2. For the illegal discharge issue, ET did not observed the	Closed

Contract No. SPW 08/2024

Shek Wu Hui Effluent Polishing Plant – Main Works

Appendix L – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Log Ref.	Location	Received From and Received By	Received Date	Details of Complaint/Warning/Summon and Prosecution	Investigation/Mitigation Action	Status
					discharge of wastewater at the concerned location after the receipt of the complaint. Works carried out and water quality mitigation measures implemented by each Contractor were also investigated, no non-compliance was observed. Yet one observation related to water quality has been made during the weekly environmental site inspection on 14 December 2023 to Contact DC/2018/07 and Contactor of DC/2018/07 has immediately rectified the situation. After the receipt of the complaint, Contractor of DC/2018/07 has taken the following actions: • Provision of effective dust screening or netting to enclose the scaffolding of building under construction . • All wastewater generated on site should be properly treated before discharge. ET also reminded all Contractors to implement the following measures: • Regular maintenance of sedimentation tanks and Wetsep to ensure their effectiveness for treating wastewater generated on site. • Provision of sandbags, bunds or other effective measures to U-channels, manholes and gully to	

Contract No. SPW 08/2024

Shek Wu Hui Effluent Polishing Plant – Main Works

Appendix L – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

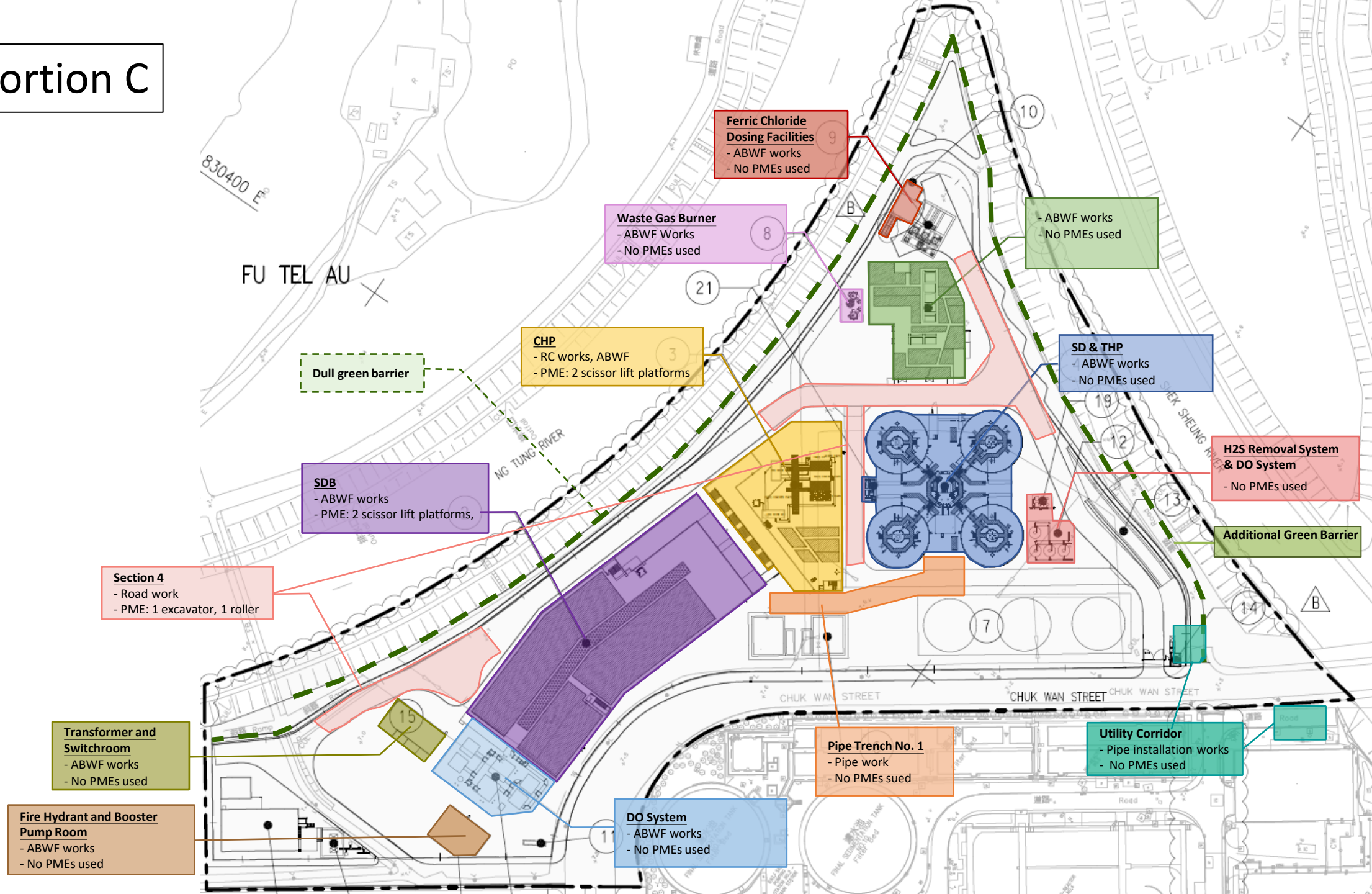
Log Ref.	Location	Received From and Received By	Received Date	Details of Complaint/Warning/Summon and Prosecution	Investigation/Mitigation Action	Status
					prevent direct discharge of site runoff • Provide water spraying on haul road to suppress dust emission, frequency of water spraying should also be reviewed to keep the road surface wet at all time.	

Remarks : No environmental complaint/warning/summon and prosecution was received in the reporting period.

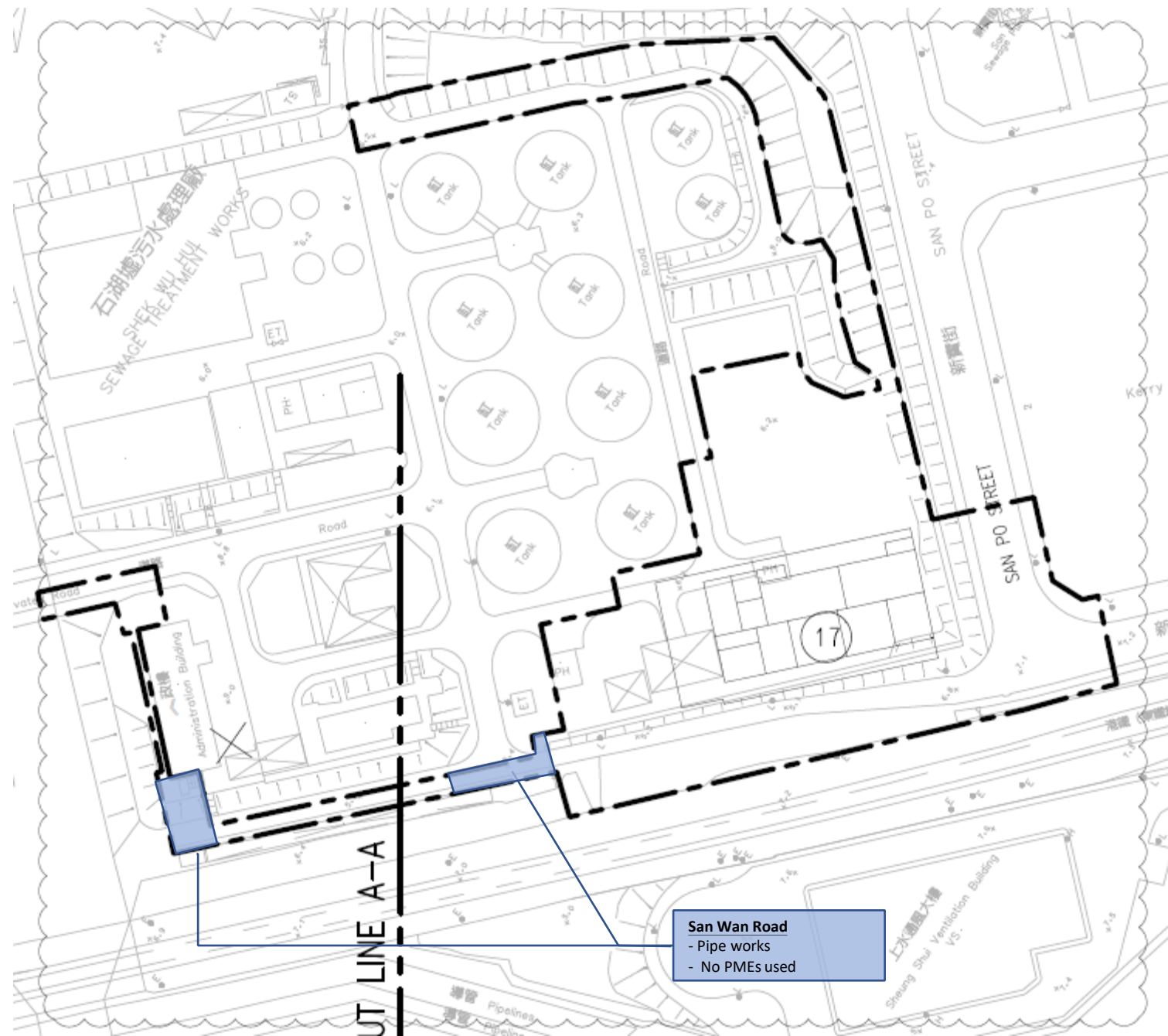
APPENDIX M
LAYOUT PLANS OF CONSTRUCTION
ACTIVITIES AND SITE RECORD
PHOTOS

October 2024

Portion C

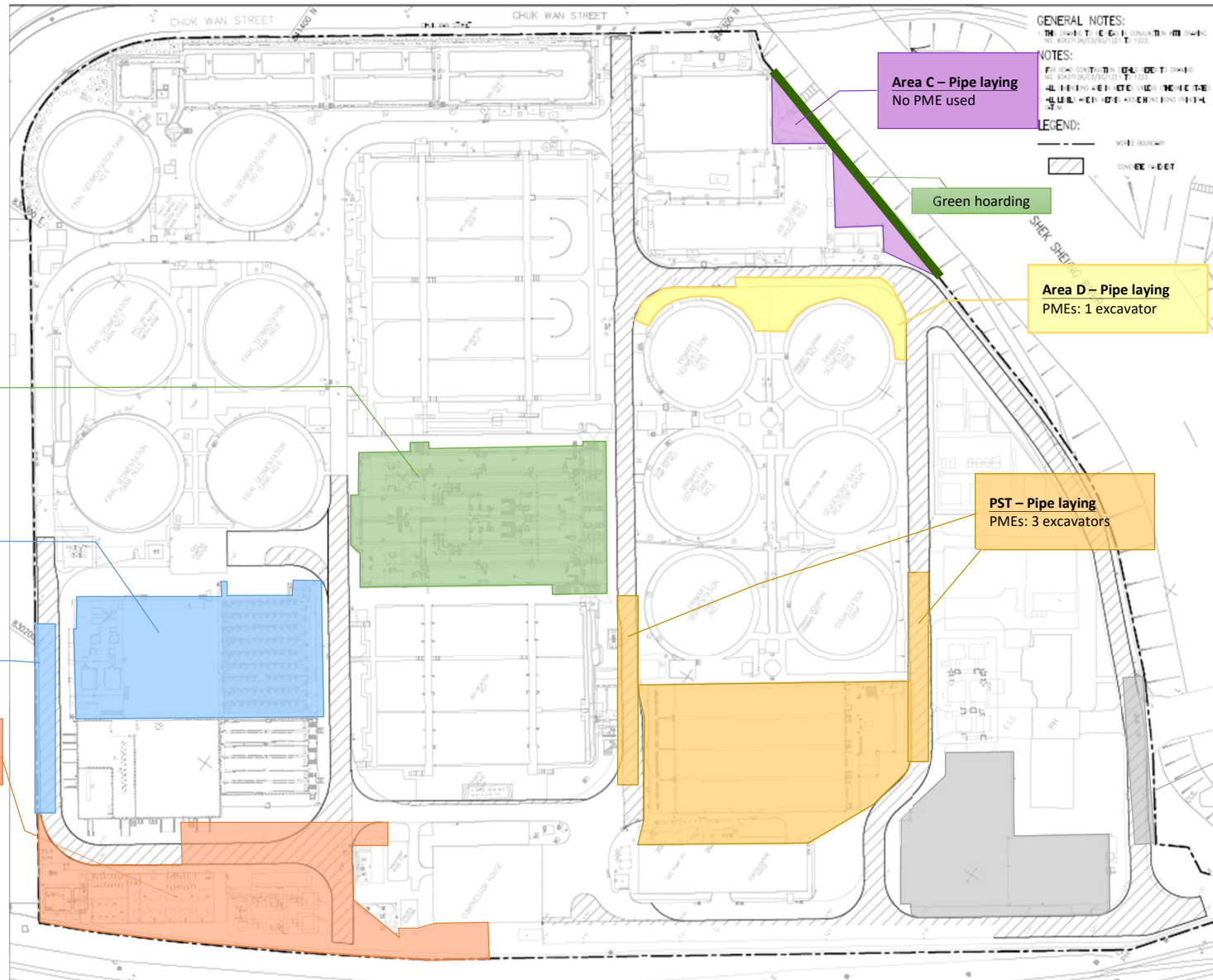


Portion A



San Wan Road
- Pipe works
- No PMEs used

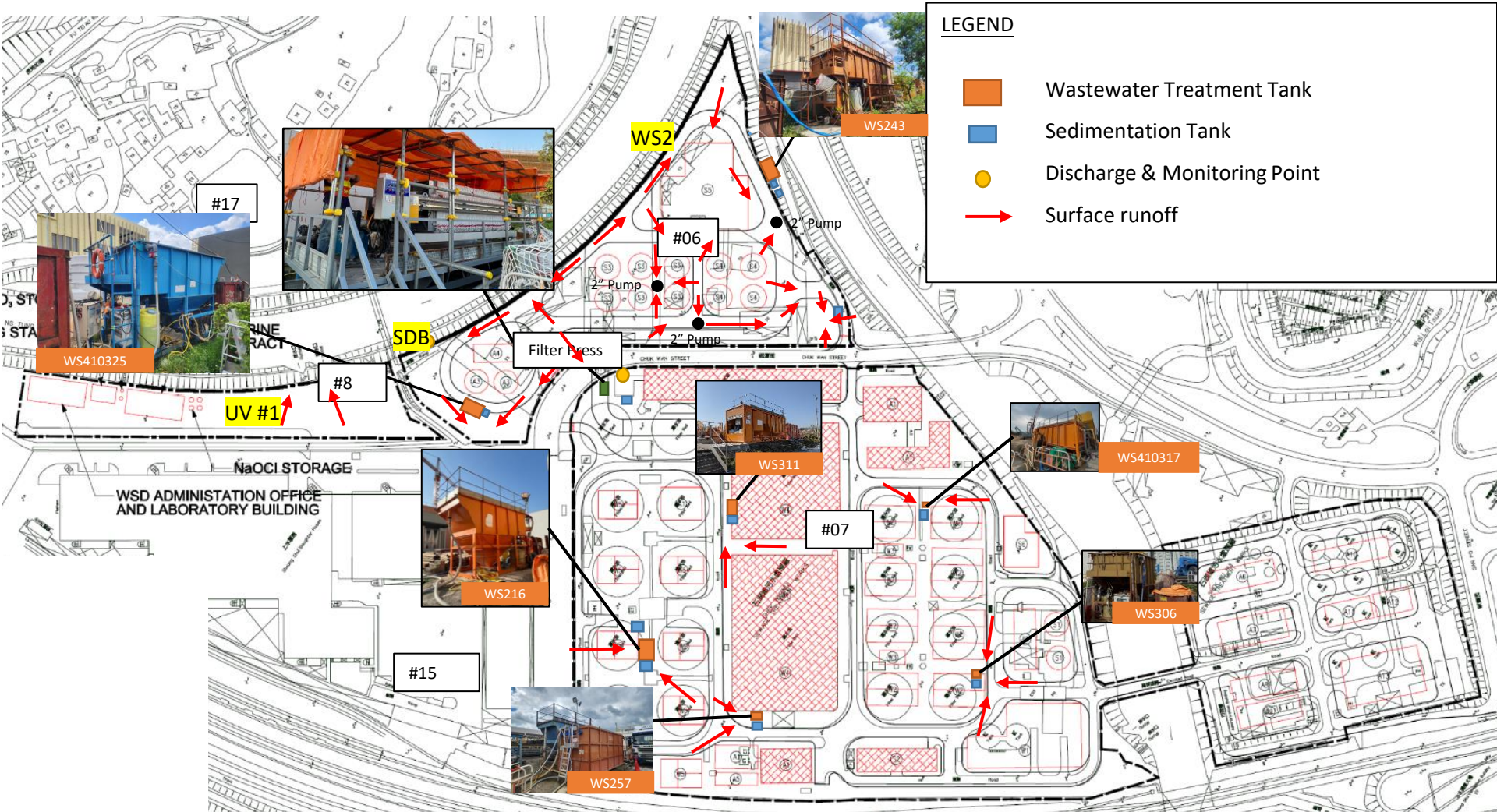
Portion B



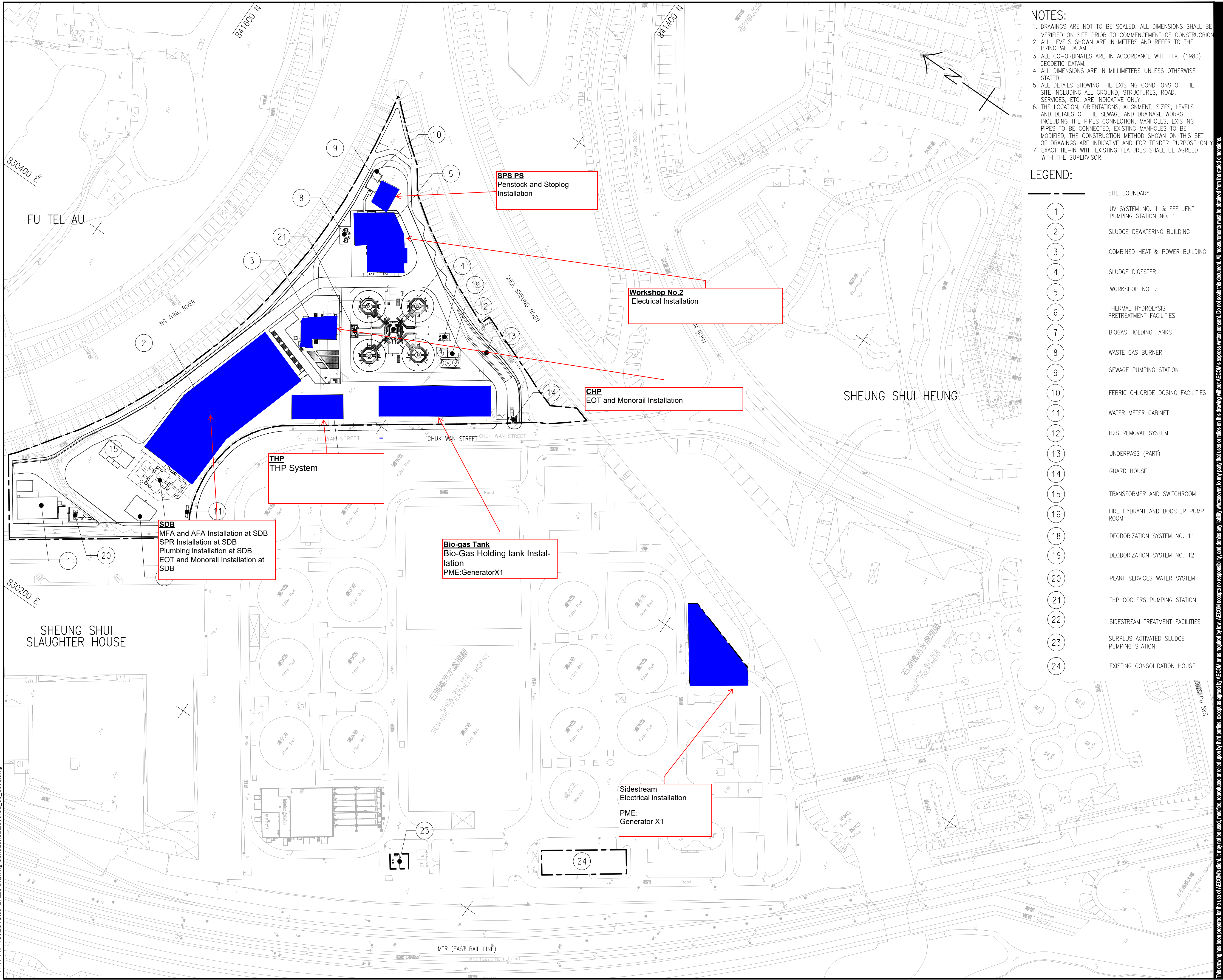
Project: DC/2018/06 & 07

Location of Wastewater Treatment Facilities (Updated in Jul 24)

地盤廢水處理設施流程圖



ISO A1 594mm x 841mm
Project Management Initials: Designer: KYTM Checked: TLST Approved: ELUM
26/03/2019
PATH P:\PROJECTS\0427128\Drawing\Contract\C21\001001001.dwg
Plot File by: GuoX



- NOTES:
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 7. EXACT TIE-IN WITH EXISTING FEATURES SHALL BE AGREED WITH THE SUPERVISOR.

LEGEND:

	SITE BOUNDARY
1	UV SYSTEM NO. 1 & EFFLUENT PUMPING STATION NO. 1
2	SLUDGE DEWATERING BUILDING
3	COMBINED HEAT & POWER BUILDING
4	SLUDGE DIGESTER
5	WORKSHOP NO. 2
6	THERMAL HYDROLYSIS PRETREATMENT FACILITIES
7	BIOGAS HOLDING TANKS
8	WASTE GAS BURNER
9	SEWAGE PUMPING STATION
10	FERRIC CHLORIDE DOSING FACILITIES
11	WATER METER CABINET
12	H2S REMOVAL SYSTEM
13	UNDERPASS (PART)
14	GUARD HOUSE
15	TRANSFORMER AND SWITCHROOM
16	FIRE HYDRANT AND BOOSTER PUMP ROOM
18	DEODORIZATION SYSTEM NO. 11
19	DEODORIZATION SYSTEM NO. 12
20	PLANT SERVICES WATER SYSTEM
21	THP COOLERS PUMPING STATION
22	SIDESTREAM TREATMENT FACILITIES
23	SURPLUS ACTIVATED SLUDGE PUMPING STATION
24	EXISTING CONSOLIDATION HOUSE

AECOM

PROJECT
項目

SHEK WU HUI EFFLUENT POLISHING PLANT

CONTRACT TITLE
SHEK WU HUI EFFLUENT POLISHING PLANT - MAIN WORKS STAGE 1 - SIDESTREAM TREATMENT FACILITIES AND E&M WORKS FOR SLUDGE TREATMENT FACILITIES

CLIENT
業主

渠務署
Drainage Services Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
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分判工程顧問公司

ISSUE/REVISION
修訂

I/R	DATE	DESCRIPTION	CHK.
-	MAR. 19	TENDER DRAWING	TLST

STATUS
階段

SCALE
比例

1:1000

DIMENSION UNIT
尺寸單位

METRES

KEY PLAN
索引圖

PROJECT NO.
項目編號

60427128

CONTRACT NO.
合約編號

DE/2018/03

SHEET TITLE
圖紙名稱

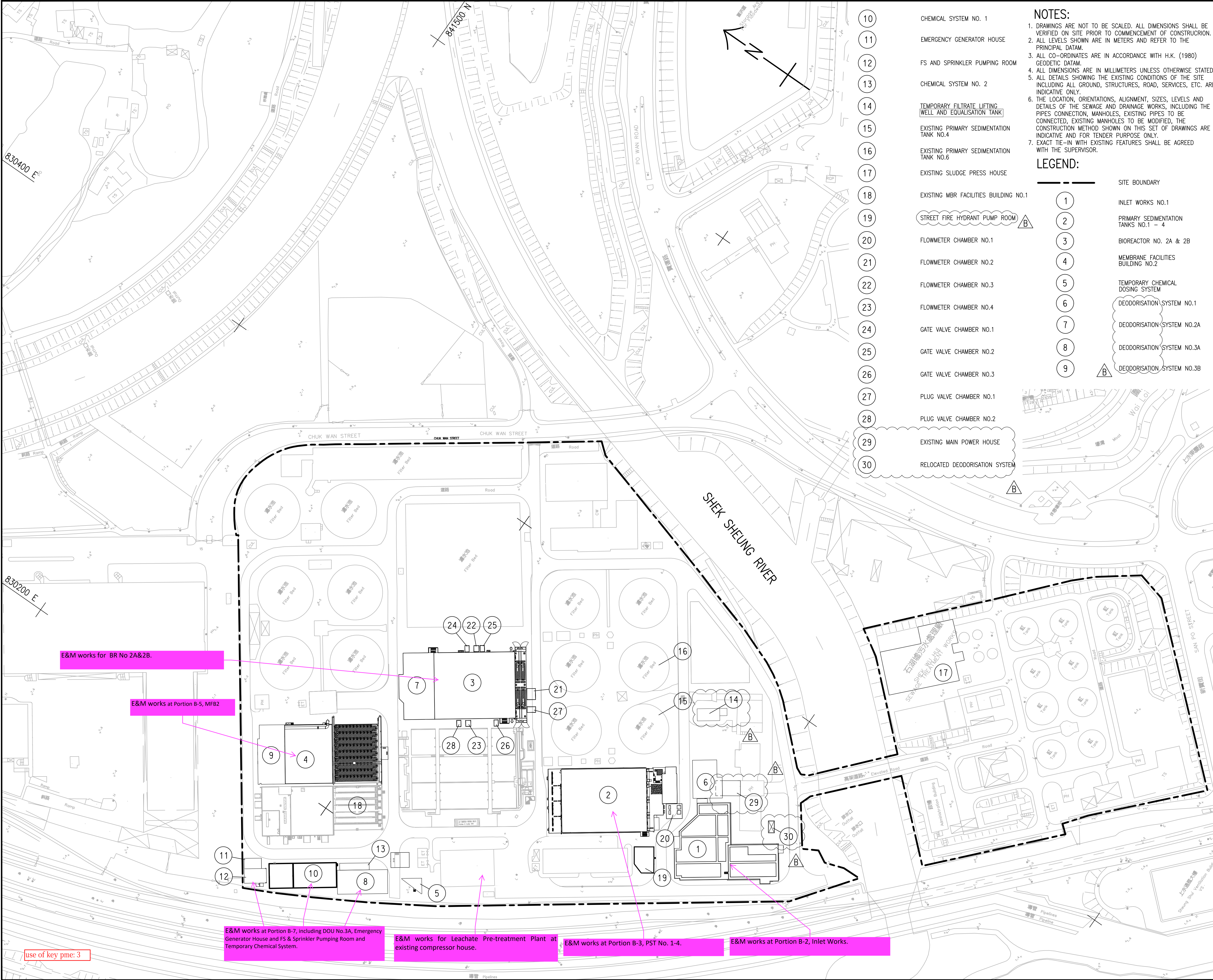
SHEK WU HUI EFFLUENT POLISHING PLANT GENERAL LAYOUT PLAN

SHEET NUMBER
圖紙編號

60427128/C2/00/1001

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PdL File by: GueYX 15/08/2019
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Project Management Initials: Designer: KYTM Checked: TLST Approved: ELIM ISO A1 594mm x 841mm



- CHEMICAL SYSTEM NO. 1
- EMERGENCY GENERATOR HOUSE
- FS AND SPRINKLER PUMPING ROOM
- CHEMICAL SYSTEM NO. 2
- TEMPORARY FILTRATE LIFTING WELL AND EQUALISATION TANK
- EXISTING PRIMARY SEDIMENTATION TANK NO.4
- EXISTING PRIMARY SEDIMENTATION TANK NO.6
- EXISTING SLUDGE PRESS HOUSE
- EXISTING MBR FACILITIES BUILDING NO.1
- STREET FIRE HYDRANT PUMP ROOM
- FLOWMETER CHAMBER NO.1
- FLOWMETER CHAMBER NO.2
- FLOWMETER CHAMBER NO.3
- FLOWMETER CHAMBER NO.4
- GATE VALVE CHAMBER NO.1
- GATE VALVE CHAMBER NO.2
- GATE VALVE CHAMBER NO.3
- PLUG VALVE CHAMBER NO.1
- PLUG VALVE CHAMBER NO.2
- EXISTING MAIN POWER HOUSE
- RELOCATED DEODORISATION SYSTEM

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- LEGEND:**
- SITE BOUNDARY
- INLET WORKS NO.1
- PRIMARY SEDIMENTATION TANKS NO.1 - 4
- BIOREACTOR NO. 2A & 2B
- MEMBRANE FACILITIES BUILDING NO.2
- TEMPORARY CHEMICAL DOSING SYSTEM
- DEODORISATION SYSTEM NO.1
- DEODORISATION SYSTEM NO.2A
- DEODORISATION SYSTEM NO.3A
- DEODORISATION SYSTEM NO.3B

AECOM

PROJECT
項目

SHEK WU HUI EFFLUENT POLISHING PLANT

CONTRACT TITLE
SHEK WU HUI EFFLUENT POLISHING PLANT - MAIN WORKS STAGE 1 - E&M WORKS FOR SEWAGE TREATMENT FACILITIES

CLIENT
業主

渠務署
Drainage Services Department

CONSULTANT
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ISSUE/REVISION
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A	JUL. 19	TENDER ADDENDUM NO. 2	TLST
-	APR. 19	TENDER DRAWING	TLST
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核核

STATUS
階段

SCALE
比例

A1 1: 1000

DIMENSION UNIT
尺寸單位

METRES

KEY PLAN
索引圖

PROJECT NO.
項目編號

60427128

CONTRACT NO.
合約編號

DE/2018/04

SHEET TITLE
圖紙名稱

GENERAL LAYOUT PLAN

SHEET NUMBER
圖紙編號

60427128/C4/00/1001B

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Site Record Photos and the Photographs of Monitoring Stations

DC/2018/06 - SD&THP	DC/2018/06 - SDB
 A photograph showing an industrial site with two large yellow cylindrical storage tanks. In the foreground, there is a concrete area with orange safety barriers, a large grey pipe, and some blue equipment. A tall metal pole stands in the background under a clear blue sky.	 A photograph of a concrete structure, possibly a culvert or drainage outlet, with two large black circular openings. It is situated on a grassy slope next to a body of water. In the background, there is a modern building with a distinctive facade and some construction equipment.
DC/2018/06 - Workshop	DC/2018/06 - H ₂ O Removal System & DO System
 A photograph of a modern building with a unique facade made of vertical wooden slats. The building has several windows and is surrounded by some greenery. The sky is blue with some clouds.	 A photograph of a concrete structure, possibly a water treatment component, with a worker in a blue hard hat and orange safety vest standing nearby. The area is enclosed by orange safety barriers. The sky is overcast.

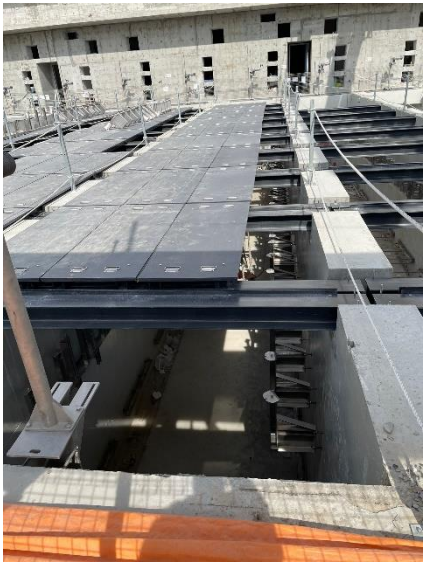
Site Record Photos and the Photographs of Monitoring Stations

DC/2018/07 – BR2  2024-10-02 10:49	DC/2018/07 - PST  2024-10-02 10:56
DC/2018/07 - Inlet 	

Site Record Photos and the Photographs of Monitoring Stations

DE/2018/03 –Bio Gas Tank	DE/2018/03 - SDB
	
DE/2018/03 - Side stream	
	

Site Record Photos and the Photographs of Monitoring Stations

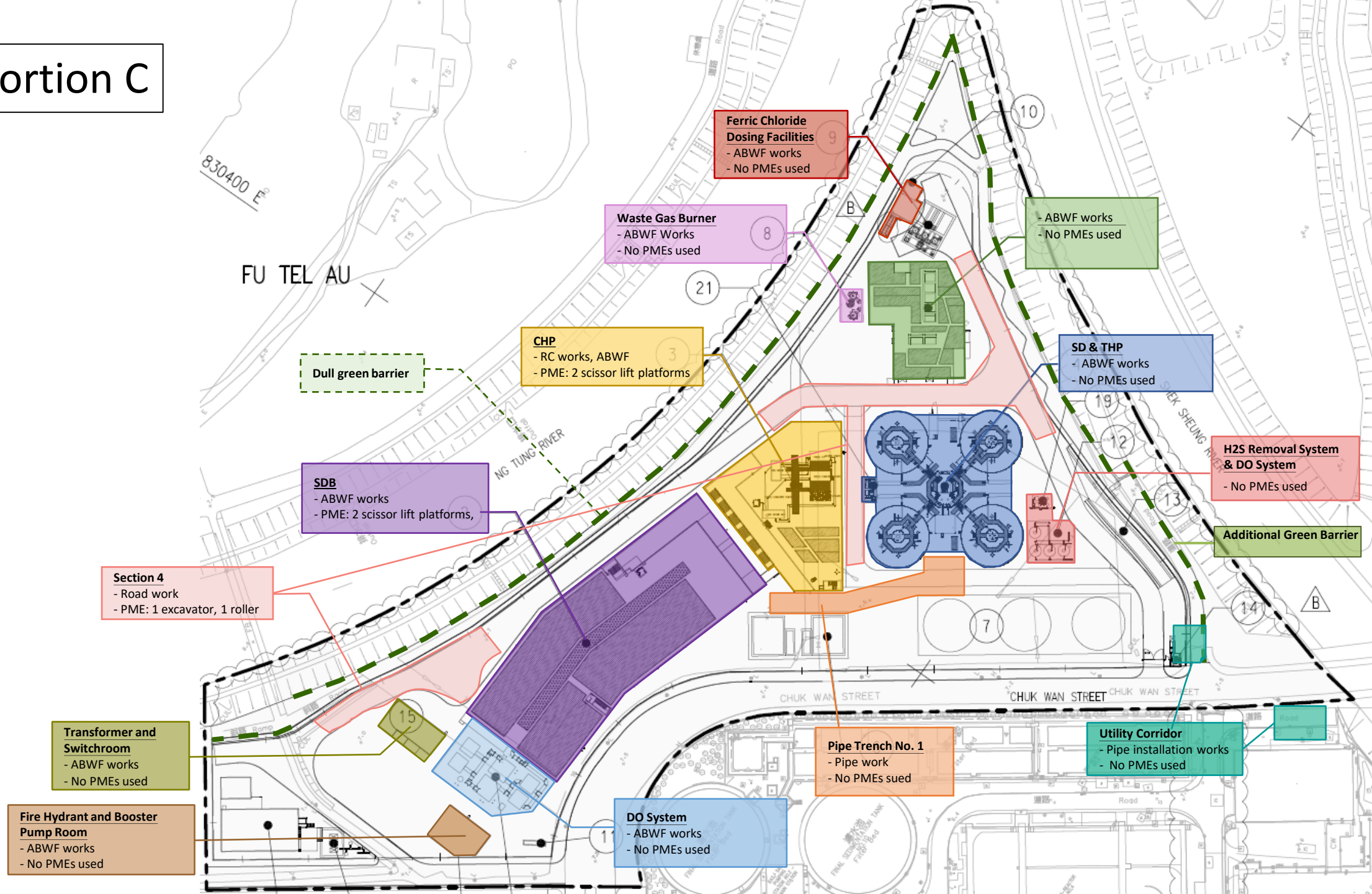
DE/2018/04 –Compressor House	DE/2018/04 - MFB2
 A photograph showing the exterior of a building, likely the Compressor House. In the foreground, there are several rows of yellow and orange plastic safety barriers. A blue crane is visible in the background, and a white van is parked to the left. The building has a large open bay door and a closed roller shutter door. A timestamp "2024.10.02 10:57" is visible in the bottom right corner of the photo.	 A photograph showing a large, rectangular concrete structure, possibly a water treatment tank or a large storage tank. The structure has a walkway with metal railings along the top edge. The interior of the tank is visible, showing some equipment and pipes. The structure is made of light-colored concrete.
DE/2018/04 - PST	DE/2018/04 - BR
 A photograph showing a large, rectangular concrete structure, possibly a water treatment tank or a large storage tank. The structure has a walkway with metal railings along the top edge. The interior of the tank is visible, showing some equipment and pipes. The structure is made of light-colored concrete.	 A photograph showing a large, rectangular concrete structure, possibly a water treatment tank or a large storage tank. The structure has a walkway with metal railings along the top edge. The interior of the tank is visible, showing some equipment and pipes. The structure is made of light-colored concrete.

Site Record Photos and the Photographs of Monitoring Stations

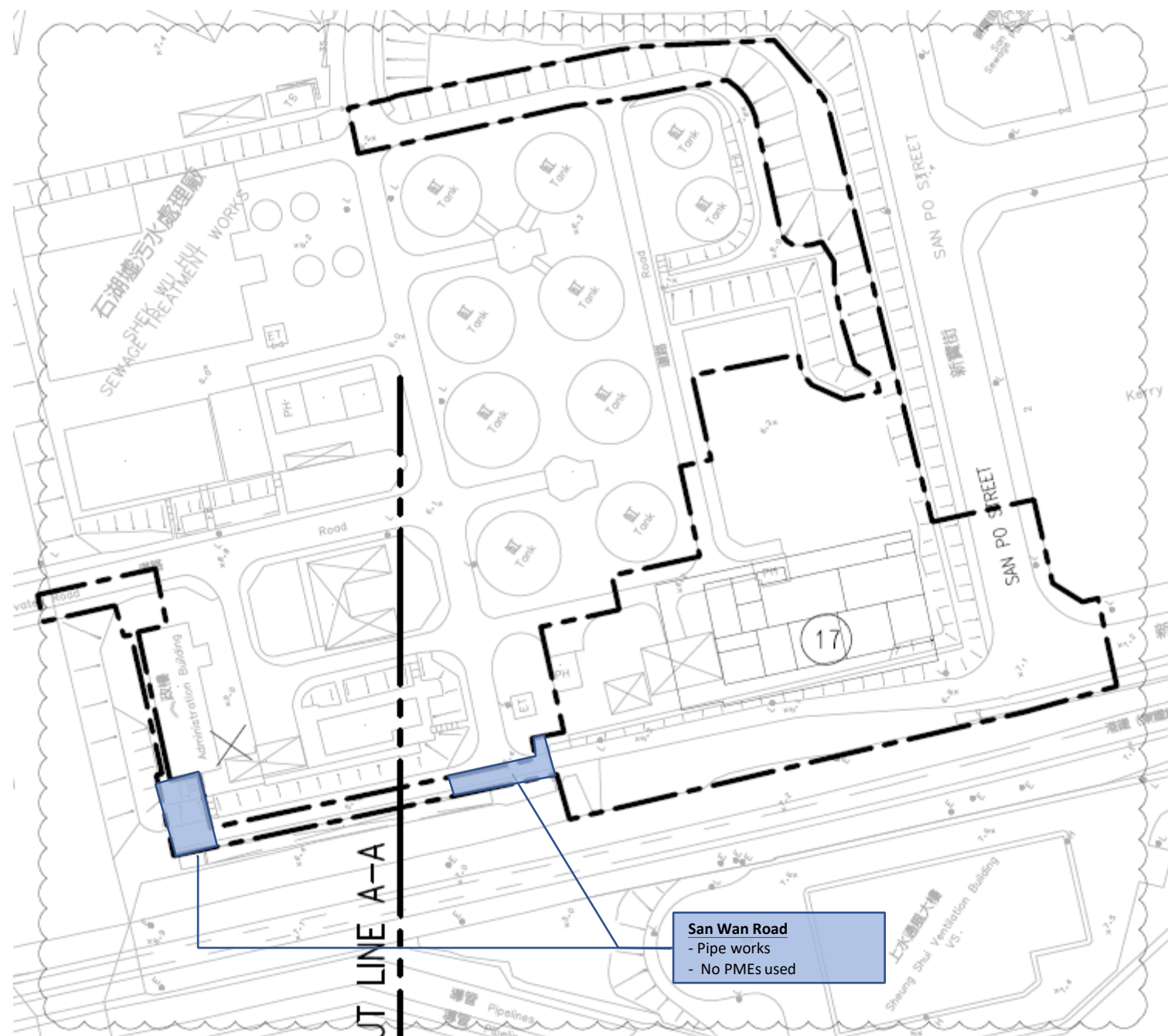
Location AM1a* Site boundary of the Shek Wu Hui STW (East), Roof floor of the control room of SWHSTW	Location AM2a Site boundary of the Shek Wu Hui STW (North)
 A photograph showing a paved area made of grey bricks. In the center, there is a white electrical box or control unit. Behind it is a low brick wall. To the right, there is some dry grass and a small white object. In the background, there are green trees and a clear blue sky.	 A photograph showing a metal fence with a red and white triangular warning sign. Next to the fence is a grey electrical box. The ground is covered with dry grass and some green plants. In the background, there is a body of water, a road, and hills under a clear sky.

November 2024

Portion C

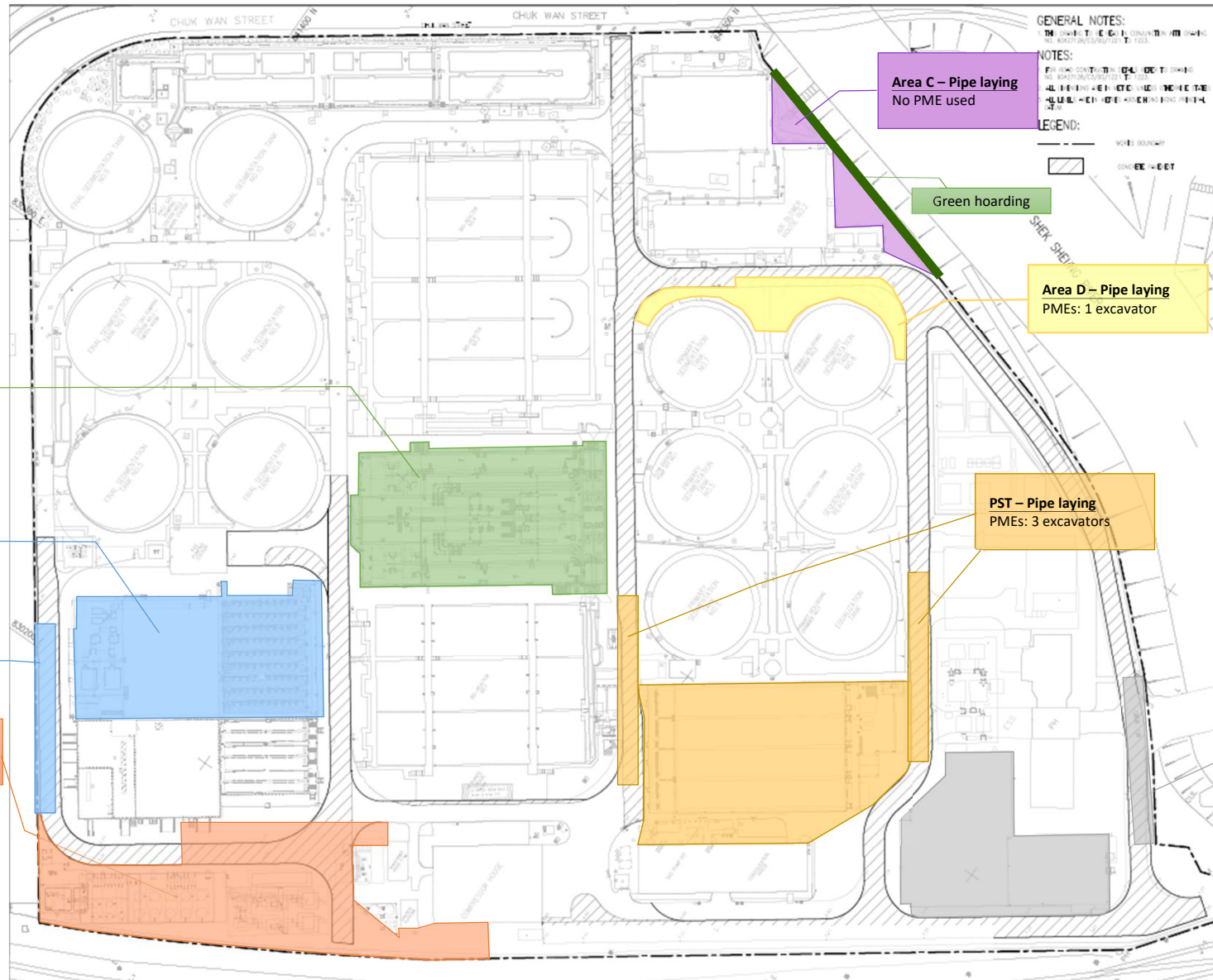


Portion A



San Wan Road
- Pipe works
- No PMEs used

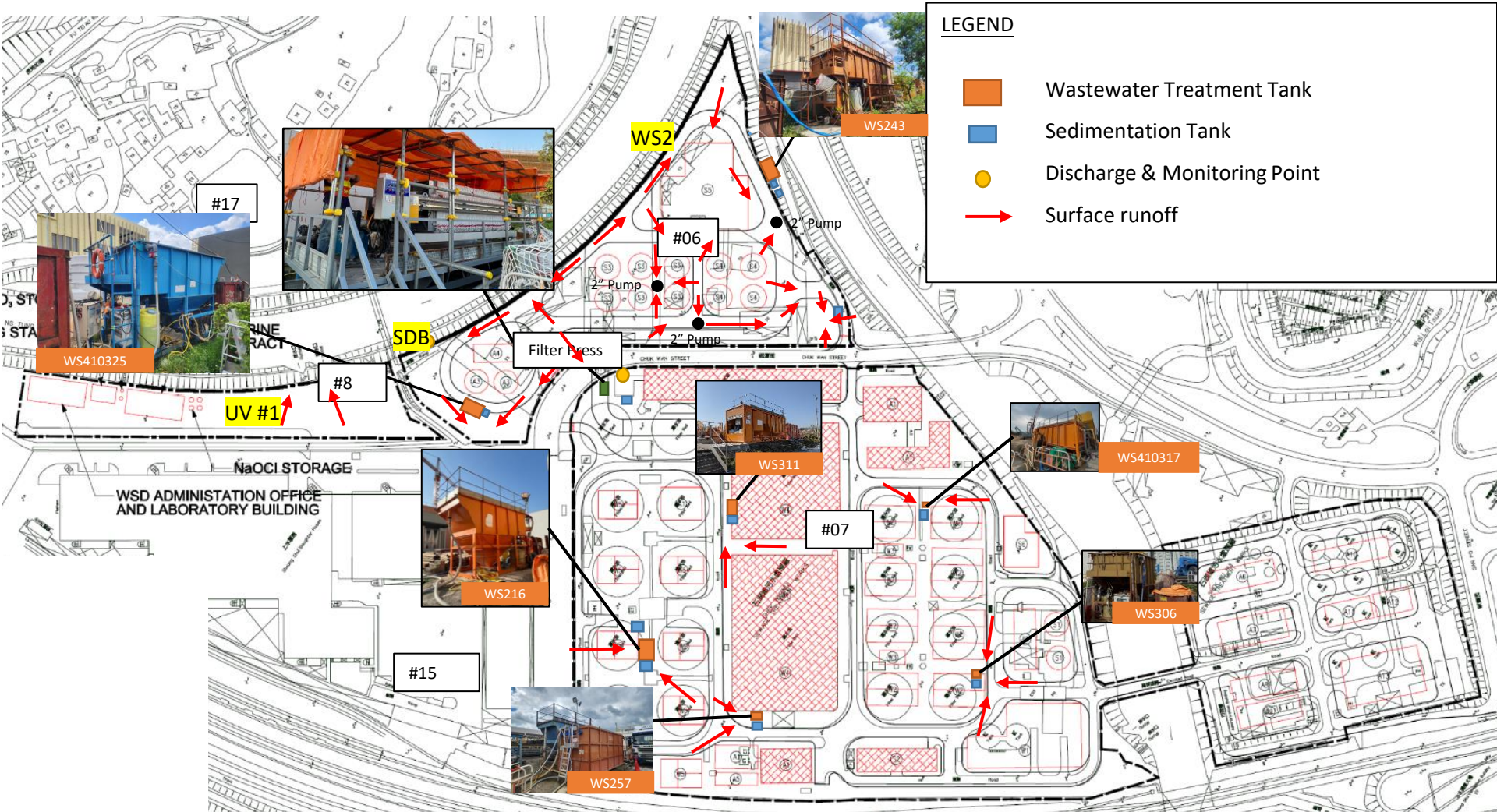
Portion B



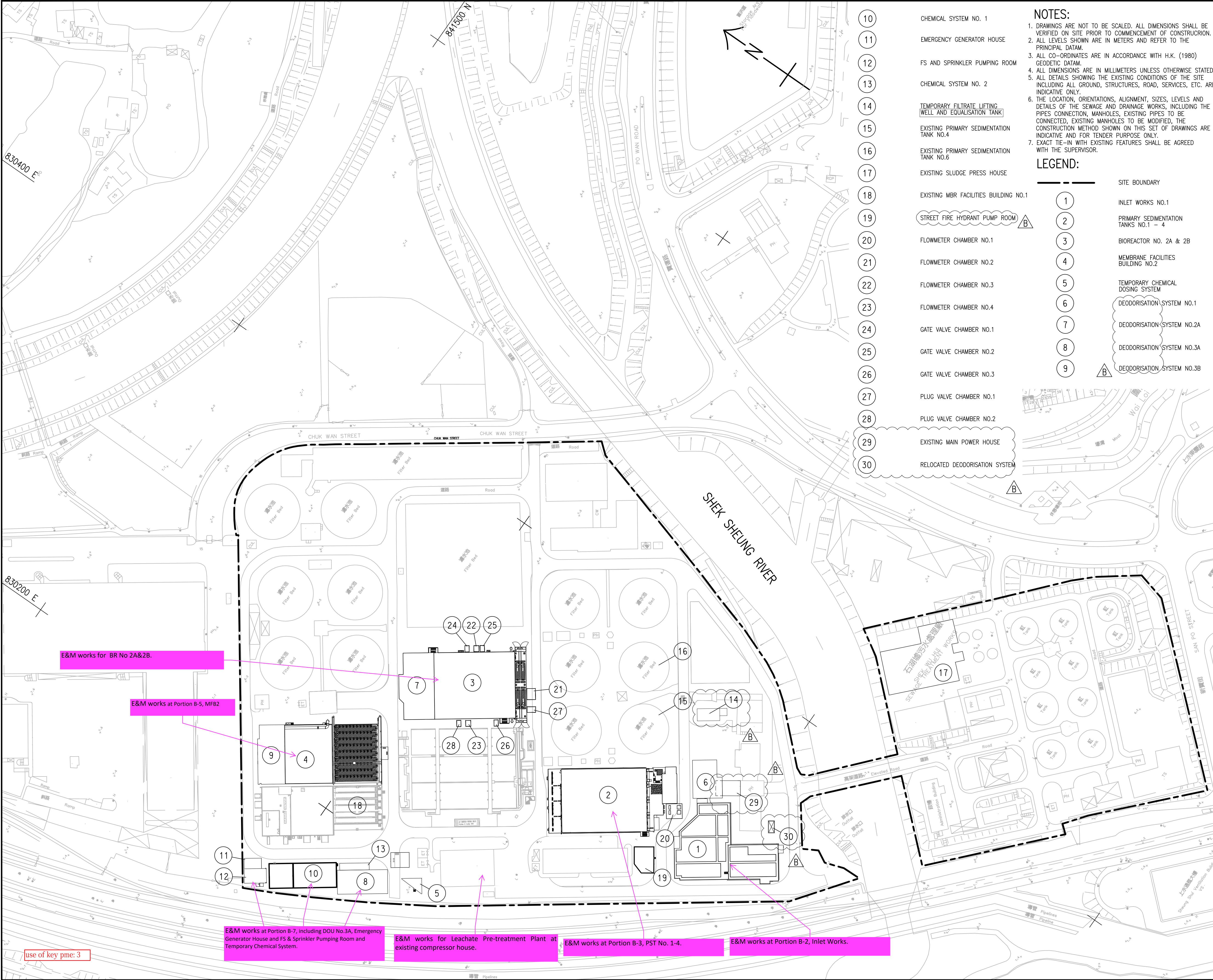
Project: DC/2018/06 & 07

Location of Wastewater Treatment Facilities (Updated in Jul 24)

地盤廢水處理設施流程圖



PdL File by: GueYX 15/08/2019
PATH: P:\PROJECTS\60427128\Drawing\Contract\CA1000\C4_00_1001.dwg
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- CHEMICAL SYSTEM NO. 1
- EMERGENCY GENERATOR HOUSE
- FS AND SPRINKLER PUMPING ROOM
- CHEMICAL SYSTEM NO. 2
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- EXISTING MAIN POWER HOUSE
- RELOCATED DEODORISATION SYSTEM

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AECOM

PROJECT
項目

SHEK WU HUI EFFLUENT POLISHING PLANT

CONTRACT TITLE
SHEK WU HUI EFFLUENT POLISHING PLANT - MAIN WORKS STAGE 1 - E&M WORKS FOR SEWAGE TREATMENT FACILITIES

CLIENT
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 **渠務署**
Drainage Services Department

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I/R	DATE	DESCRIPTION	CHK.
修訂	日期	內容摘要	校核

STATUS
階段

SCALE
比例

A1 1: 1000

DIMENSION UNIT
尺寸單位

METRES

KEY PLAN
索引圖

PROJECT NO.
項目編號

60427128

CONTRACT NO.
合約編號

DE/2018/04

SHEET TITLE
圖紙名稱

GENERAL LAYOUT PLAN

SHEET NUMBER
圖紙編號

60427128/C4/00/1001B

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Site Record Photos and the Photographs of Monitoring Stations

DC/2018/06 - SD&THP



DC/2018/06 - SDB



DC/2018/06 - Workshop



DC/2018/06 - H₂O Removal System & DO System



Site Record Photos and the Photographs of Monitoring Stations

DC/2018/07 – BR2	DC/2018/07 - PST
 An aerial photograph of an industrial construction site. In the foreground, there are large, white, cylindrical storage tanks and several large, dark-colored pipes. A worker in a yellow safety vest is visible near the pipes. In the background, there are more industrial structures, including a large building with a yellow crane on top, and distant mountains under a clear sky.	 A photograph of a construction site. Two workers wearing yellow safety vests and hard hats are standing in the foreground. One worker is holding a black umbrella. They are standing on a muddy, uneven ground. In the background, there is a large, multi-story concrete wall under construction, with scaffolding and other construction equipment visible. The sky is overcast.
DC/2018/07 - Inlet	
 A photograph of a construction site. A large, multi-story concrete wall is under construction. In the foreground, there is a row of red and white plastic safety barriers. The ground is dirt and gravel. The sky is overcast.	

Site Record Photos and the Photographs of Monitoring Stations

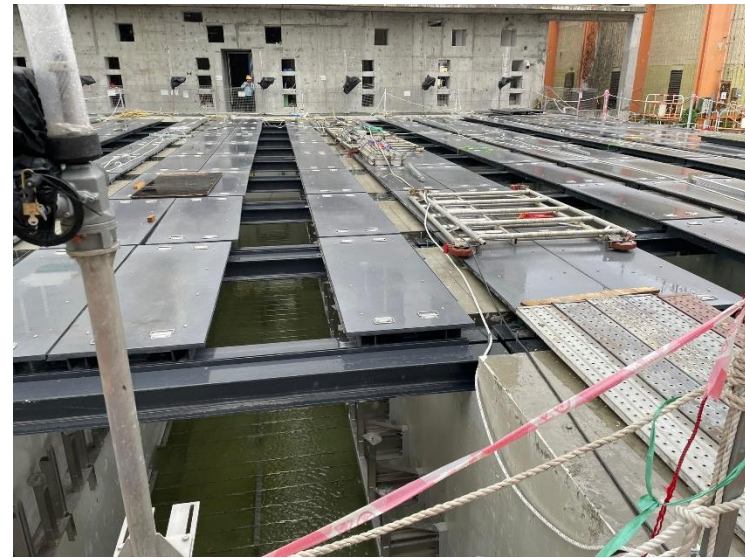
DE/2018/03 –Bio Gas Tank	DE/2018/03 - SDB
	
DE/2018/03 - Side stream	
	

Site Record Photos and the Photographs of Monitoring Stations

DE/2018/04 –Compressor House



DE/2018/04 - MFB2



DE/2018/04 - PST



DE/2018/04 - BR

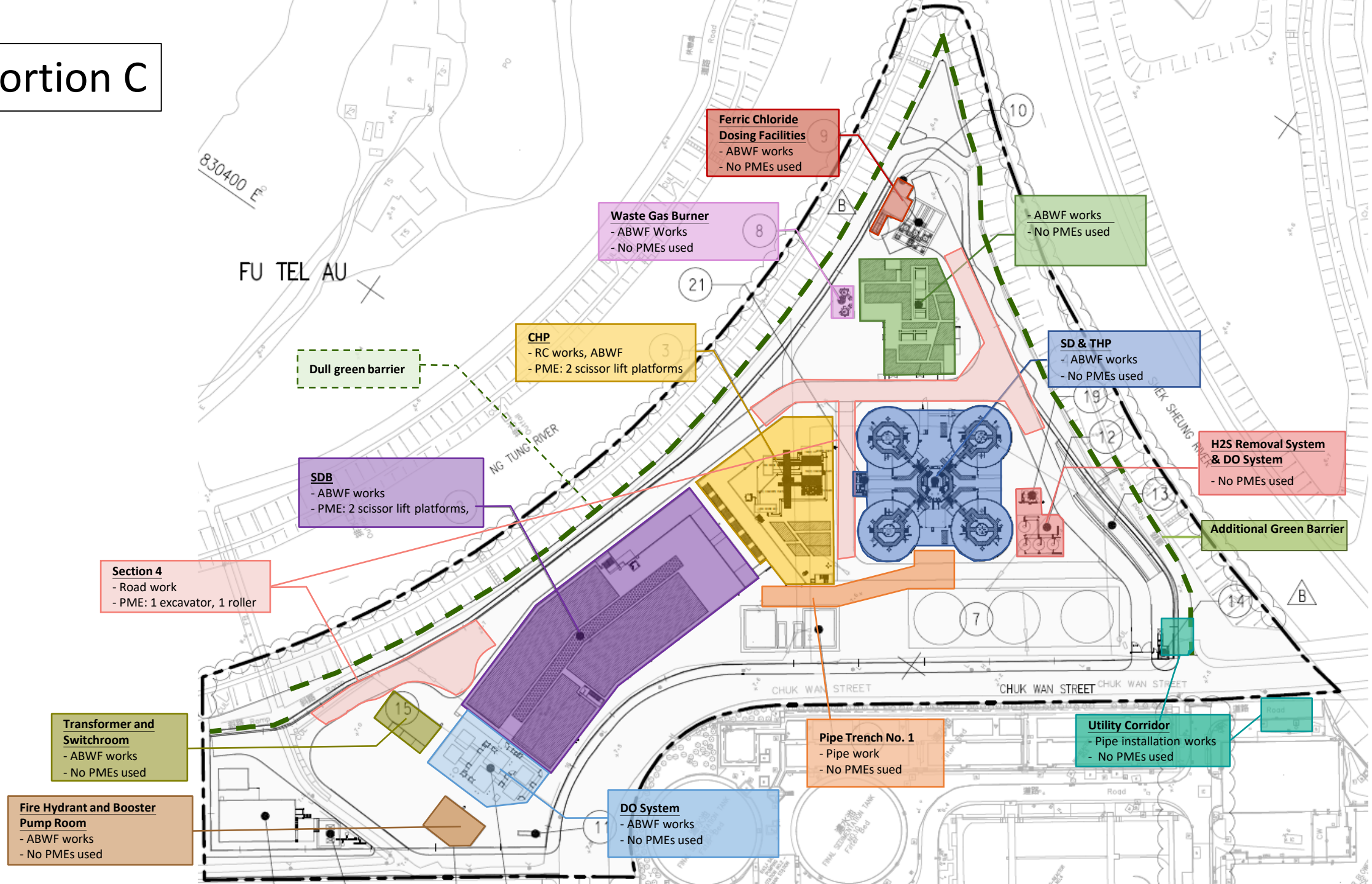


Site Record Photos and the Photographs of Monitoring Stations

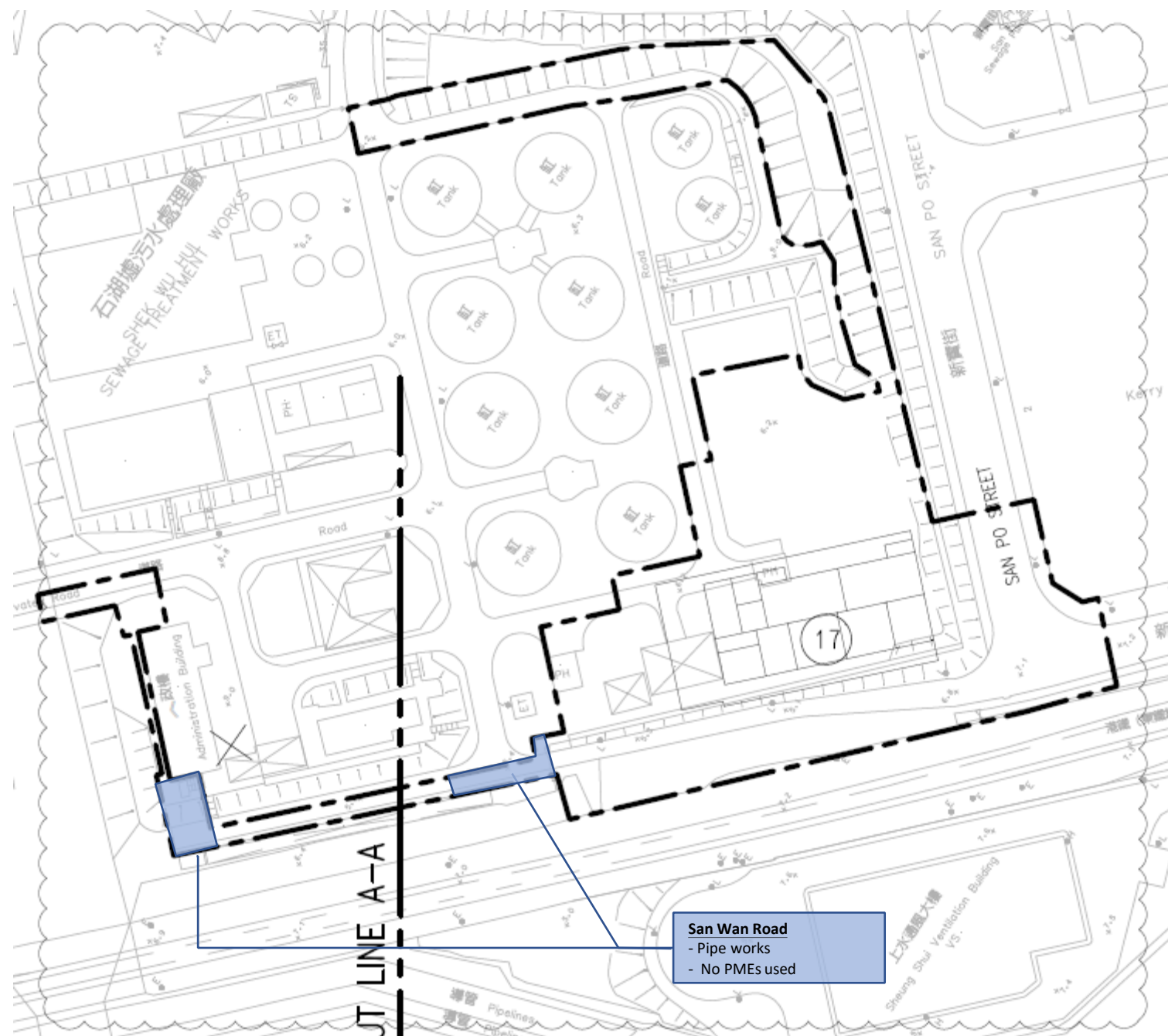
Location AM1a* Site boundary of the Shek Wu Hui STW (East), Roof floor of the control room of SWHSTW	Location AM2a Site boundary of the Shek Wu Hui STW (North)
 A photograph of a monitoring station (AM1a) located on the roof floor of the control room of the Shek Wu Hui STW. The station consists of a white electrical cabinet with a green base, situated on a paved area next to a brick wall. A yellow cable is visible on the wall, and a white bag is on the ground. The background shows a grassy area and trees under a cloudy sky.	 A photograph of a monitoring station (AM2a) located at the site boundary of the Shek Wu Hui STW (North). The station is a white electrical cabinet with a grey base, enclosed in a metal fence. A red and white striped warning sign is attached to the fence. The station is situated near a body of water, with a grassy area and trees in the background.

December 2024

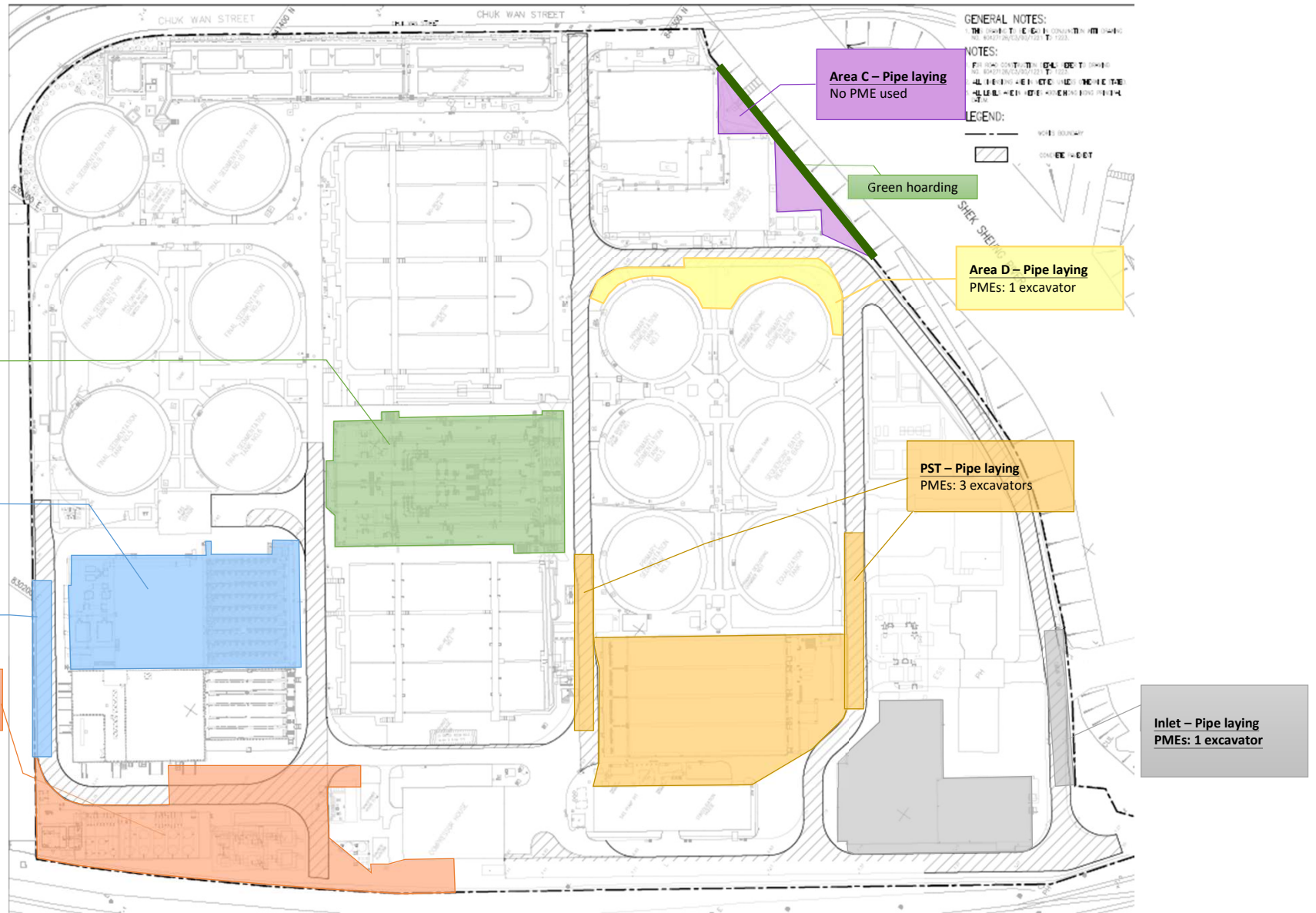
Portion C



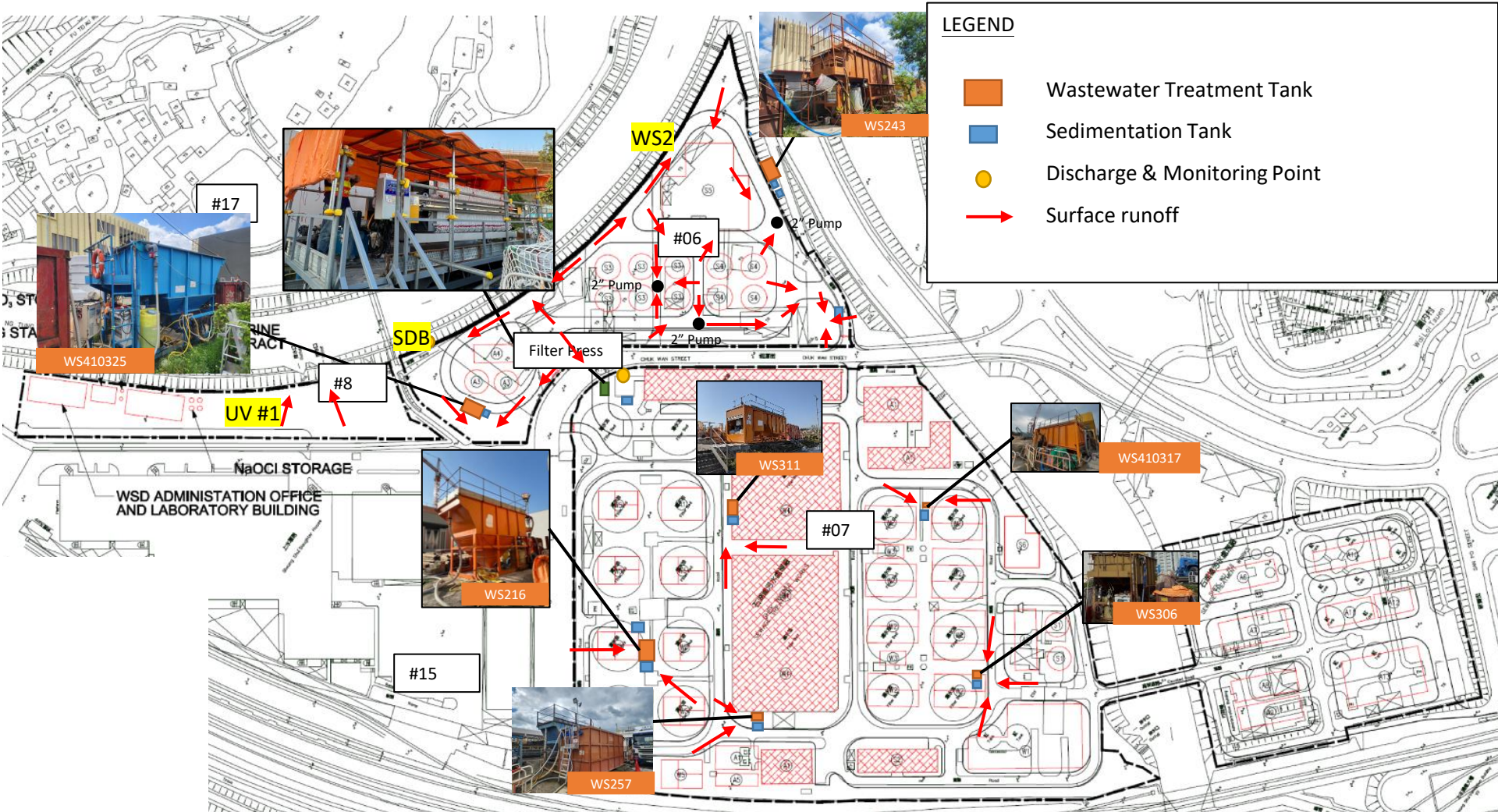
Portion A



Portion B



地盤廢水處理設施流程圖





60427128/C2/00/1001

Site Record Photos and the Photographs of Monitoring Stations

DC/2018/06 - SD&THP	DC/2018/06 - SDB
	
DC/2018/06 - Workshop	DC/2018/06 - H ₂ O Removal System & DO System
	

Site Record Photos and the Photographs of Monitoring Stations

DC/2018/07 – BR2	DC/2018/07 - PST
 A photograph of a construction site. In the foreground, a yellow excavator is working on a dirt area. To the left, there's a curved concrete structure. A banner with a cartoon character wearing a hard hat and a safety vest is visible on the right. The background shows more construction activity and a cloudy sky.	 A photograph of a construction site. A large, grey concrete wall is the central focus. Scaffolding is visible on the right side of the wall. In the foreground, there are stacks of materials, including what looks like rebar or steel reinforcement, covered with plastic. The sky is clear and blue.
DC/2018/07 - Inlet	
 A photograph of a construction site. A large, grey concrete wall is the central focus. A red truck is parked in front of the wall. A worker in a blue hard hat and safety vest is standing in the foreground. The sky is clear and blue.	

Site Record Photos and the Photographs of Monitoring Stations

DE/2018/03 –Bio Gas Tank	DE/2018/03 - SDB
	
DE/2018/03 - Side stream	
	

Site Record Photos and the Photographs of Monitoring Stations

DE/2018/04 –Compressor House



DE/2018/04 - MFB2



DE/2018/04 - PST



DE/2018/04 - BR



Site Record Photos and the Photographs of Monitoring Stations

Location AM1a* Site boundary of the Shek Wu Hui STW (East), Roof floor of the control room of SWHSTW	Location AM2a Site boundary of the Shek Wu Hui STW (North)
 A photograph showing a rooftop area. A paved path made of light-colored bricks leads from the foreground towards a white electrical box mounted on a green base. The box is situated on a grassy area. In the background, there is a brick wall and some trees under a cloudy sky.	 A photograph showing a grey electrical box located near a riverbank. The box is partially obscured by green vegetation and a black metal fence. A river is visible in the background, along with a grassy embankment and some trees.