


**Drainage Services Department**

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

**Quarterly EM&A Summary Report**  
**September 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  
(September 2024)

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Date: 25 November 2024

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## EXECUTIVE SUMMARY

### Introduction

1. This is the 1<sup>st</sup> 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 1<sup>st</sup> September 2024 and 30<sup>th</sup> September 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	<ul style="list-style-type: none"> <li>• RC works</li> <li>• Pipe jacking</li> <li>• Sewage, utility and pipe works</li> <li>• Road works</li> <li>• ABWF works</li> <li>• ELS</li> </ul>
DC/2018/07	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sewage Treatment Facilities	<ul style="list-style-type: none"> <li>• RC works</li> <li>• Pipe laying</li> </ul>
DE/2018/03	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities	<ul style="list-style-type: none"> <li>• Portion B-1 (Sidestream): Pump &amp; pipework installation, E&amp;M plant equipment installation, EOT &amp; monorail installation.</li> <li>• Workshop No.2: Electrical, MVAC, and LV switchboard installations.</li> <li>• SDB: Electrical, plumbing, MVAC, FS system installations; FRP tanks delivery &amp; jointing.</li> <li>• CHP: Installation of CHP acoustic enclosure, lifting appliances, steam boiler system, and FS systems.</li> <li>• Ferric Chloride Storage Tanks: Delivery and installation.</li> <li>• THP &amp; BGHT: THP system installation; bio-gas holding tank installation.</li> <li>• SDT: Sludge cooler delivery &amp; installation, FRP walkway and platform installation, H2S removal system installation.</li> <li>• SPS &amp; SAS Pumping Station: SAT of penstock &amp; stoplogs; pipework installation.</li> </ul>

Contract No.	Contract Title	Site Activities
DE/2018/04	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - E&M Works for Sewage Treatment Facilities	<ul style="list-style-type: none"> <li>E&amp;M works for the Leachate Pre-treatment Plant at the existing compressor house, as well as at Portions B-5 (MFB2), B-7 (DOU No. 3A, Emergency Generator House, FS &amp; Sprinkler Pumping Room, Chemical System No. 1, Street Fire Hydrant &amp; Booster Pump Room, Temporary Chemical System), B-2 (Inlet Works), B-3 (PST No. 1-4), and B-4 (BR 2A &amp; 2B).</li> </ul>

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**

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

**Complaint Handling, Prosecution and Public Engagement**

5. 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	-	-	-
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### Reporting Changes

**Table III Summary of Reporting Changes in the Reporting Period**

Event	Event Details		Follow-up/ Remedial Actions	Status/ Remarks
	Number	Brief Description		
Reporting Changes	1	Environmental Team was replaced from Lam Environmental Services Limited to Cinotech Consultants Ltd from September 2024.	Informed EPD on 06 Sep 2024.  The updated project website hyperlink has been provided to the Environmental Assessment Division on 10 <sup>th</sup> October, 2024.	Closed

### Future Key Issues

6. 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 93,000m<sup>2</sup>/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 190,000m<sup>3</sup>/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



<b>Contract No. of Environment Team for Shek Wu Hui Effluent Polishing Plant</b>	<b>Environment Team</b>	<b>Submission of previous Quarterly EM&amp;A report</b>
SPW 08/2024	Cinotech Consultants Ltd.	N/A(1st EM&A Report Submission)

1.6 This is the 1<sup>st</sup> Quarterly EM&A Summary Report summarizing the EM&A works for the Project between 1<sup>st</sup> September 2024 and 30<sup>th</sup> September 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	Ms. Ada Chan	3907 6141
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	<ul style="list-style-type: none"> <li>RC works</li> <li>Pipe jacking</li> <li>Sewage, utility and pipe works</li> <li>Road works</li> <li>ABWF works</li> <li>ELS</li> </ul>	<ul style="list-style-type: none"> <li>Implement proper dust mitigation measures on dusty surface, stockpiles and related dusty works</li> <li>Implement proper measures to prevent excavated material, silt or debris being deposited or washed into existing drainage systems and waterbodies</li> <li>Ensure all on-site regulated machines have displayed valid NRMM labels and the application of ULSD as fuel</li> </ul>

Contract No.	Contract Title	Site Activities	Mitigation Measure
			for diesel-powered machinery. <ul style="list-style-type: none"> <li>• Erect 2m high dull green site boundary fences to screen undesirable views of the works site</li> <li>• Provision of protection to ensure no runoff out of site area or direct discharge into public drainage system</li> <li>• Temporary storage of filling materials and construction materials were located well away from any water courses during carrying out of the construction works.</li> <li>• The doors of generator were closed during operation.</li> </ul>
DC/2018/07	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sewage Treatment Facilities	<ul style="list-style-type: none"> <li>• RC works</li> <li>• Pipe laying</li> </ul>	<ul style="list-style-type: none"> <li>• The excavated or stockpile of dusty material was covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet.</li> <li>• Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place were sprayed with water continuously.</li> <li>• Implement proper measures to prevent excavated material, silt or debris being deposited or washed into existing drainage systems and waterbodies</li> <li>• Ensure all on-site regulated machines have displayed valid NRMM labels and the application of ULSD as fuel for diesel-powered machinery.</li> <li>• Provision of protection to ensure no runoff out of site area or direct discharge into public drainage system</li> <li>• The breaking area was provided noise mitigation measures to screen the noisy plant.</li> </ul>

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	<ul style="list-style-type: none"> <li>• Pump &amp; Pipework installation at Portion B-1 (Sidestream)</li> <li>• Installation of E&amp;M Plant Equipment (Sidestream)</li> <li>• Installation of EOT &amp; Monorail at Portion B-1 (Sidestream)</li> <li>• Electrical Installation at Workshop No.2</li> <li>• MVAC Installation at Workshop No.2</li> <li>• LV switchboard installation at Workshop No.2</li> <li>• Electrical Installation at SDB</li> <li>• Plumbing System Installation at SDB</li> <li>• MVAC System Installation at SDB</li> <li>• FS System Installation at SDB</li> <li>• Delivery &amp; Jointing of FRP Tanks at SDB</li> <li>• Installation of CHP Acoustic Enclosure at CHP</li> <li>• Installation of Lifting Appliances at CHP</li> <li>• Steam Boiler System Installation at CHP</li> <li>• FS Systems Installation at CHP</li> <li>• Delivery for Ferric Chloride Storage Tanks Installation</li> <li>• THP System Installation at THP</li> <li>• Bio-gas Holding Tank Installation at BGHT</li> <li>• Sludge Cooler Delivery &amp; Installation at SDT</li> <li>• Installation of FRP Walkway and Platform at SDT</li> <li>• Installation of H2S Removal System at SDT</li> <li>• SAT of Penstock and Stoplogs at SPS</li> <li>• Installation of pipework at SAS Pumping Station</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure all on-site regulated machines have displayed valid NRMM labels and the application of ULSD as fuel for diesel-powered machinery.</li> <li>• Segregate and store different types of waste to enhance reuse or recycling of materials and their proper disposal</li> <li>• Mobile plants were sited as far away from NSRs as possible.</li> <li>• The doors of generator were closed during operation.</li> </ul>

<b>Contract No.</b>	<b>Contract Title</b>	<b>Site Activities</b>	<b>Mitigation Measure</b>
DE/2018/04	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - E&M Works for Sewage Treatment Facilities	<ul style="list-style-type: none"> <li>• E&amp;M works for Leachate Pre-treatment Plant at existing compressor house.</li> <li>• E&amp;M works at Portion B-5, MFB2.</li> <li>• E&amp;M works at Portion B-7, including DOU No.3A, Emergency Generator House and FS &amp; Sprinkler Pumping Room, Chemical System No.1, Street Fire Hydrant &amp; Booster Pump Room and Temporary Chemical System.</li> <li>• E&amp;M works at Portion B-2, Inlet Works.</li> <li>• E&amp;M works at Portion B-3, PST No. 1-4.</li> <li>• E&amp;M works at Portion B-4, BR 2A &amp; 2B.</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure all on-site regulated machines have displayed valid NRMM labels and the application of ULSD as fuel for diesel-powered machinery.</li> <li>• Segregate and store different types of waste to enhance reuse or recycling of materials and their proper disposal</li> <li>• Mobile plants were sited as far away from NSRs as possible.</li> <li>• The doors of generator were closed during operation.</li> </ul>

## **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**.
- 2.6 A joint site inspection with our project team and EPD was conducted on 20<sup>th</sup> September 2024 and the observations and recommendations are summarized in **Appendix E**.

### **Status of Waste Management**

- 2.7 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 Due to the DSD's unaccepted approval for access to the plant working area by 03 September 2024, the 24hrs TSP monitoring at AM1a\* & AM2a on 03 September 2024 was suspended. Due to the typhoon factor, the installation of the HVS sampler & Wind Anemometer and 24hrs TSP monitoring at locations AM1a\* & AM2a were postponed to be conducted on 09 September 2024.
- 3.4 Another 24-hours TSP monitoring was conducted as scheduled in the reporting quarter. No Action/Limit Level exceedance was recorded.
- 3.5 The graphical presentations of 1-hour and 24-hour TSP monitoring results are shown in **Appendix G** and **Appendix H** respectively.

#### Construction Noise

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

#### Ecology

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

#### Water Quality

- 3.10 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.
- 3.11 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**

- 3.12 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**

- 3.13 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**

- 3.14 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

- 3.15 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)	N/A	Human activities: Playing motorboat, grazing, jay walking, fishing



Location	Project Related	Non-Project Related
T2 (PC3, PC4)	Construction activity: Craning	Construction activities: Excavation, craning, lorry with Grabber Human activities: Grazing, jaywalking, fishing
PC5	Construction activity: Breaking works	Human activity: Grass Cutting
T3 (PC6, PC7)	Construction activity: Craning	Construction activities: Sheetpiling, craning Human activity: Fishing, jaywalking, storing, 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.

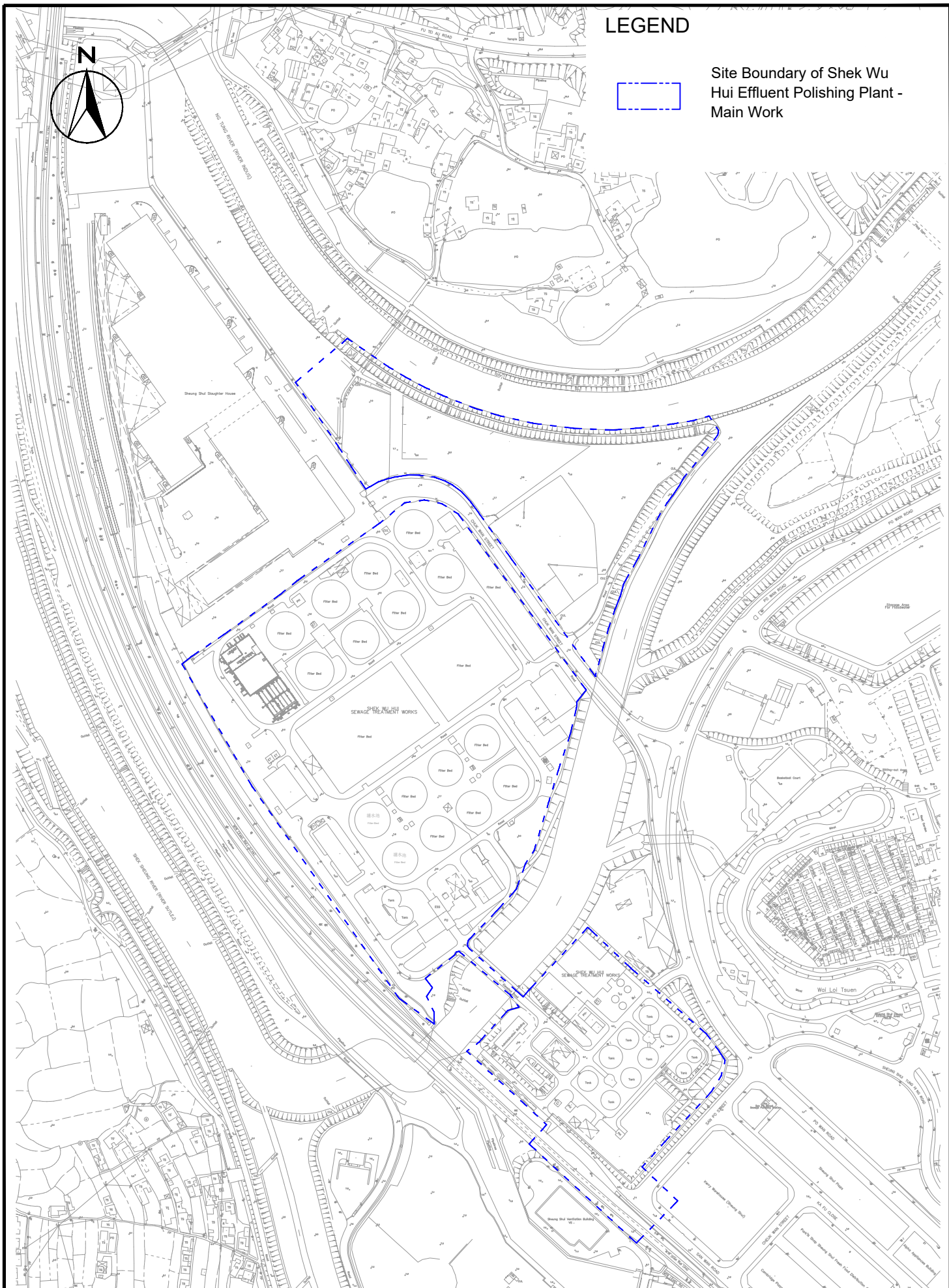
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## FIGURES

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**LEGEND**

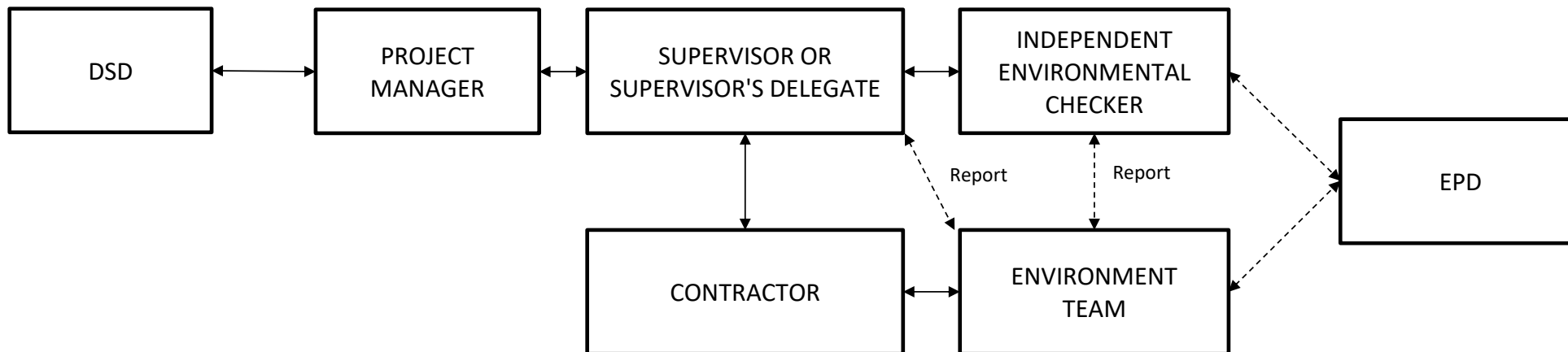


Site Boundary of Shek Wu Hui Effluent Polishing Plant - Main Work



Agreement No. SPW 08/2024  
 Shek Wu Hui Effluent Polishing Plant -  
 Main Works  
 Site Layout

SCALE	1:4000@A4	DATE	AUG 2024
CHECK	WY	DRAWN	CF
JOB No.	MA 24087	FIGURE NO.	1.1
		REV	-



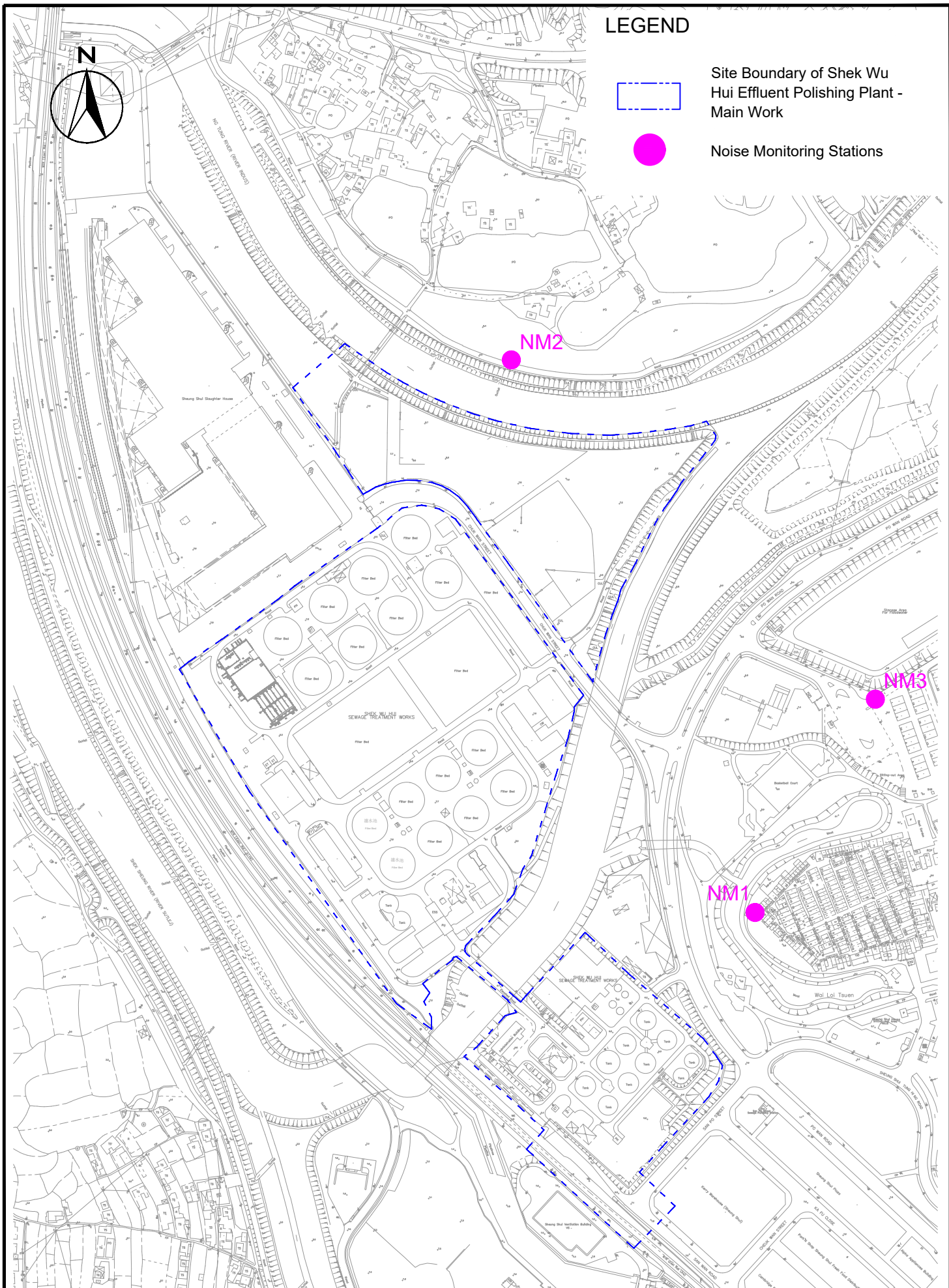
**CINOTECH**

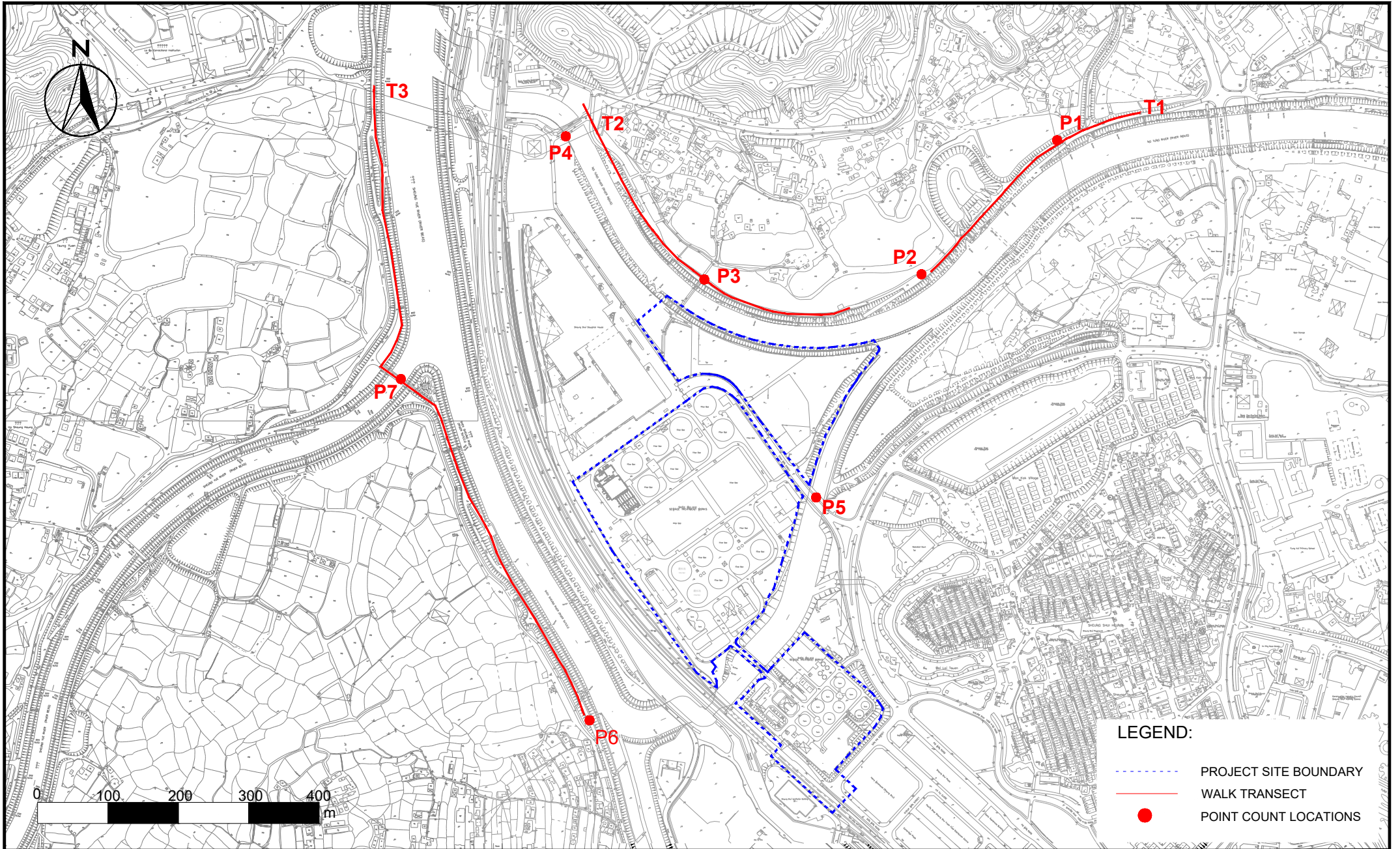
Agreement No. SPW 08/2024  
 Shek Wu Hui Effluent Polishing Plant- Main Works  
**Project Organisation For Environmental Monitoring and Audit**

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









**LEGEND:**

- - - - - PROJECT SITE BOUNDARY
- WALK TRANSECT
- POINT COUNT LOCATIONS

Shek Wu Hui Effluent Polishing Plant - Main Works

**Survey Location for Impact Ecological Monitoring**



SCALE	1:7000 @ A4	DATE	Aug 2024
CHECK	BC	DRAWN	RC
JOB No.	MA24087	FIGURE NO.	4
		REV	-

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**APPENDIX A**  
**CONSTRUCTION PROGRAMME**

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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					
									Aug 59	Sep 60	Oct 61	Nov 62		
<b>SWH - Main Works Stage 1 Sidestream Treatment Facilities &amp; E&amp;M Works for Sludge Treatment Facilities</b>														
<b>Contract Data</b>														
<b>Starting Date &amp; Completion Date</b>														
CD1030	Extension of Time Granted (Total 247days)	109	05-Apr-24	21-Aug-24	05-Apr-24 A	07-Dec-24*	0	55.87%						
<b>Key Dates</b>														
<b>Contractual Completion (Include Implemented CE)</b>														
KD1050	Revised Completion Date for KD3A	0	06-Jan-24			20-Aug-24*	-49	0%						
<b>Expected Completion (Include Non-implemented CE)</b>														
KD1045	Extension of Time for KD3A - Non-implemented (Total 53days)	19	07-Apr-24	02-Aug-24	18-Jul-24 A	08-Sep-24	0	64.15%						
KD1050-1	Expected Completion Date for KD3A	0		02-Aug-24		08-Sep-24*	0	0%						
<b>Completion Date</b>														
<b>Section 3 - Complete Design, Construction &amp; T&amp;C for Sidestream Facilities</b>														
<b>Contractual Completion (Include Implemented CE)</b>														
SC31028	NICE-CNE-0409 Inclement Weather (August 2022) - 17.5days (Implemented)	0			14-Jul-24 A	31-Jul-24 A		100%						
SC31029	NICE-CNE-0427 Inclement Weather (September 2022) - 7days (Implemented)	0			31-Jul-24 A	07-Aug-24 A		100%						
SC31030	NICE-CNE-0428 Inclement Weather (October 2022) - 2days (Implemented)	0			07-Aug-24 A	09-Aug-24 A		100%						
SC31031	NICE-CNE-0433 Inclement Weather (November 2022) - 7.5days (Implemented)	0			09-Aug-24 A	16-Aug-24 A		100%						
SC31032	NICE-CNE-0441 Inclement Weather (December 2022) - 5days (Implemented)	1			17-Aug-24 A	21-Aug-24	0	80%						
SC31033	NICE-CNE-0451 Inclement Weather (January 2023) - 3days (Implemented)	3			22-Aug-24	24-Aug-24	0	0%						
SC31034	NICE-CNE-0456 Inclement Weather (March 2023)-3days (Implemented)	3			25-Aug-24	27-Aug-24	0	0%						
SC31035	NICE-CNE-0460 Inclement Weather (April 2023)-7days (Implemented)	7			28-Aug-24	03-Sep-24	0	0%						
SC31036	NICE-CNE-0461 Inclement Weather (May 2023) - 8days (Implemented)	8			04-Sep-24	11-Sep-24	0	0%						
SC31037	NICE-CNE-0468 Inclement Weather (June 2023) - 18.5days (implemented)	19			12-Sep-24	30-Sep-24	0	0%						
SC31038	NICE-CNE-0480 Inclement Weather (July 2023) - 12.5days (implemented)	13			30-Sep-24	12-Oct-24	0	0%						
SC31039	NICE-CNE-0482 Inclement Weather (Aug 2023) - 16days (implemented)	16			13-Oct-24	28-Oct-24	0	0%						
SC31040	NICE-CNE-0491 Inclement Weather (Sep 2023) - 11days (implemented)	11			29-Oct-24	08-Nov-24	0	0%						
SC31050	NICE-CNE-0495 Inclement Weather (Oct 2023) - 5.5days (implemented)	6			09-Nov-24	14-Nov-24	0	0%						
SC31060	NICE-CNE-0498 Inclement Weather (Nov 2023) - 1day (implemented)	1			14-Nov-24	15-Nov-24	0	0%						
SC31061	NICE-CNE-0517 Inclement Weather (Jan 2024) (Time Implication) - 1 days (implemented)	1			15-Nov-24	16-Nov-24	0	0%						
SC31062	NICE-CNE-0522 Inclement Weather (Feb 2024) (Time Implication) - 2 days (implemented)	2			16-Nov-24	18-Nov-24	0	0%						
SC31063	NICE-CNE-0523 Inclement Weather (Mar 2024) (Time Implication) - 5.5 days (implemented)	6			18-Nov-24	23-Nov-24	0	0%						
<b>Expected Completion (Include Non-implemented CE)</b>														
SC31019-1	NICE-CNE-0405 Inclement Weather (July 2022) - 5.5days (Implemented)	0	22-Jul-24	26-Jul-24	15-Jul-24 A	20-Jul-24 A		100%						
SC31020-1	CNE-055 Inclement Weather (July 2022) (Time and Cost Implication) - 1day	0	26-Jul-24	27-Jul-24	21-Jul-24 A	21-Jul-24 A		100%						
SC31021-1	NICE-CNE-0409 Inclement Weather (August 2022) - 17.5days (Implemented)	0	27-Jul-24	09-Aug-24	22-Jul-24 A	08-Aug-24 A		100%						
SC31022-1	CNE-057 Inclement Weather (August 2022) (Time and Cost Implication) - 1day	0	10-Aug-24	10-Aug-24	09-Aug-24 A	10-Aug-24 A		100%						
SC31023-1	NICE-CNE-0427 Inclement Weather (September 2022) - 7days (Implemented)	0	11-Aug-24	18-Aug-24	10-Aug-24 A	17-Aug-24 A		100%						
SC31024-1	NICE-CNE-0428 Inclement Weather (October 2022) - 2days (Implemented)	0	19-Aug-24	22-Aug-24	17-Aug-24 A	19-Aug-24 A		100%						



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**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.39) as at 31 Jul 2024**

Based on DE/2018/03 Revised Programme Rev.39			
Date	Revision	Checked	Approved
31-Jul-24	Rev. 0	JM/LT	KM

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			
									Aug 59	Sep 60	Oct 61	Nov 62
SC31025-1	NICE-CNE-0433 Inclement Weather (November 2022) - 7.5days (Implemented)	6	23-Aug-24	04-Sep-24	19-Aug-24 A	26-Aug-24	0	20%				
SC31026-1	CNE-062 Inclement Weather (November 2022) (Time and Cost Implication) - 2days	2	05-Sep-24	06-Sep-24	27-Aug-24	28-Aug-24	0	0%				
SC31027-1	NICE-CNE-0441 Inclement Weather (December 2022) - 5days (Implemented)	5	07-Sep-24	11-Sep-24	29-Aug-24	02-Sep-24	0	0%				
SC31028-1	NICE-CNE-0451 Inclement Weather (January 2023) (Time Implication) - 3days (Implemented)	3	12-Sep-24	16-Sep-24	03-Sep-24	05-Sep-24	0	0%				
SC31029-1	NICE-CNE-0450 Inclement Weather (February 2023) (Time Implication) - 0days (Implemented)	0	17-Sep-24	18-Sep-24	06-Sep-24	06-Sep-24	0	0%				
SC31030-1	NICE-CNE-0456 Inclement Weather (March 2023) (Time Implication) - 3days (Implemented)	3	19-Sep-24	23-Sep-24	06-Sep-24	08-Sep-24	0	0%				
SC31031-1	NICE-CNE-0460 Inclement Weather (April 2023) (Time Implication) - 7days (Implemented)	7			09-Sep-24	15-Sep-24	0	0%				
SC31032-1	CNE-073 Inclement Weather (May 2023) (Time Implication) - 8days (Implemented)	8			16-Sep-24	23-Sep-24	0	0%				
SC31033-1	CNE-076 Inclement Weather (June 2023) (Time Implication) - 18.5days (Implemented)	19			24-Sep-24	12-Oct-24	0	0%				
SC31034-1	CNE-077 Inclement Weather (June 2023) (Time and Cost Implication) - 1 day	1			12-Oct-24	13-Oct-24	0	0%				
SC31035-1	CNE-078 Inclement Weather (July 2023) (Time Implication) - 12.5days (Implemented)	13			13-Oct-24	25-Oct-24	0	0%				
SC31036-1	CNE-079 Inclement Weather (July 2023) (Time and Cost Implication) - 2days	2			26-Oct-24	27-Oct-24	0	0%				
SC31099-01	EWN-0314 Extension of Time for change of access date	236			28-Oct-24	20-Jun-25	0	0%				
<b>Section 5 - Complete all remaining Works (incl T&amp;C)</b>												
<b>Contractual Completion (Include Implemented CE)</b>												
SC51018	NICE-CNE-0428 Inclement Weather (October 2022) - 2days (Implemented)	0			19-Jul-24 A	20-Jul-24 A		100%				
SC51019	NICE-CNE-0433 Inclement Weather (November 2022) - 8.5days (Implemented)	0			21-Jul-24 A	29-Jul-24 A		100%				
SC51020	NICE-CNE-0441 Inclement Weather (December 2022) - 4days (Implemented)	0			29-Jul-24 A	02-Aug-24 A		100%				
SC51021	NICE-CNE-0451 Inclement Weather (January 2023) - 4days (Implemented)	0			02-Aug-24 A	06-Aug-24 A		100%				
SC51022	NICE-CNE-0456 Inclement Weather (March 2023) - 2days (Implemented)	0			06-Aug-24 A	08-Aug-24 A		100%				
SC51023	NICE-CNE-0460 Inclement Weather (April 2023) - 7 days (Implemented)	0			08-Aug-24 A	15-Aug-24 A		100%				
SC51024	NICE-CNE-0461 Inclement Weather (May 2023) - 8days (Implemented)	3			15-Aug-24 A	23-Aug-24	0	68.75%				
SC51025	NICE-CNE-0468 Inclement Weather (June 2023) - 17.5days (implemented)	18			23-Aug-24	09-Sep-24	0	0%				
SC51026	NICE-CNE-0480 Inclement Weather (July 2023) - 11.5days (implemented)	12			10-Sep-24	21-Sep-24	0	0%				
SC51027	NICE-CNE-0482 Inclement Weather (Aug 2023) - 17days (implemented)	17			21-Sep-24	08-Oct-24	0	0%				
SC51028	NICE-CNE-0491 Inclement Weather (Sep 2023) - 13days(implemented)	13			08-Oct-24	21-Oct-24	0	0%				
SC51029	NICE-CNE-0495 Inclement Weather (Oct 2023) - 4.5days (implemented)	5			21-Oct-24	25-Oct-24	0	0%				
SC51030	NICE-CNE-0498 Inclement Weather (Nov 2023) - 1 day (implemented)	1			26-Oct-24	26-Oct-24	0	0%				
SC51031	NICE-CNE-0517 Inclement Weather (Jan 2024) (Time Implication) - 2 days (implemented)	2			27-Oct-24	28-Oct-24	0	0%				
SC51032	NICE-CNE-0522 Inclement Weather (Feb 2024) (Time Implication) - 1 days (implemented)	1			29-Oct-24	29-Oct-24	0	0%				
SC51033	NICE-CNE-0523 Inclement Weather (Mar 2024) (Time Implication) - 6.5 days (implemented)	7			30-Oct-24	05-Nov-24	0	0%				
SC51034	NICE-CNE-0533 Inclement Weather (Apr 2024) (Time Implication) - 14 days (implemented)	14			05-Nov-24	19-Nov-24	0	0%				
SC51100	Revised Completion for Section 5	0		02-Aug-24		19-Nov-24*	0	0%				
<b>Expected Completion (Include Non-Implemented CE)</b>												



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**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.39) as at 31 Jul 2024**

Based on DE/2018/03 Revised Programme Rev.39			
Date	Revision	Checked	Approved
31-Jul-24	Rev. 0	JM/LT	KM



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			
									Aug 59	Sep 60	Oct 61	Nov 62
SC51019-1	CNE-057 Inclement Weather (August 2022) (Time and Cost Implication) - 1day	0	18-Jul-24	19-Jul-24	20-Jul-24 A	20-Jul-24 A		100%				
SC51020-1	NICE-CNE-0427 Inclement Weather (September 2022) - 7days (Implemented)	0	19-Jul-24	27-Jul-24	21-Jul-24 A	27-Jul-24 A		100%				
SC51021-1	NICE-CNE-0428 Inclement Weather (October 2022) - 2days (Implemented)	0	27-Jul-24	31-Jul-24	28-Jul-24 A	29-Jul-24 A		100%				
SC51022-1	NICE-CNE-0433 Inclement Weather (November 2022) - 8.5days (Implemented)	0	31-Jul-24	13-Aug-24	30-Jul-24 A	07-Aug-24 A		100%				
SC51023-1	CNE-062 Inclement Weather (November 2022) (Time and Cost Implication) - 2days	0	13-Aug-24	15-Aug-24	07-Aug-24 A	09-Aug-24 A		100%				
SC51024-1	NICE-CNE-0441 Inclement Weather (December 2022) - 4days (Implemented)	0	15-Aug-24	20-Aug-24	09-Aug-24 A	13-Aug-24 A		100%				
SC51025-1	NICE-CNE-0451 Inclement Weather (January 2023) (Time Implication) - 4days (Implemented)	0	20-Aug-24	25-Aug-24	13-Aug-24 A	17-Aug-24 A		100%				
SC51026-1	NICE-CNE-0450 Inclement Weather (February 2023) (Time Implication) - 0days (Implemented)	0	25-Aug-24	27-Aug-24	17-Aug-24 A	17-Aug-24 A		100%				
SC51027-1	NICE-CNE-0456 Inclement Weather (March 2023) (Time Implication) - 2days (Implemented)	0	27-Aug-24	01-Sep-24	17-Aug-24 A	19-Aug-24 A		100%				
SC51028-1	NICE-CNE-0460 Inclement Weather (April 2023) (Time Implication) - 7days (Implemented)	6			19-Aug-24 A	26-Aug-24	0	21.43%				
SC51029-1	CNE-073 Inclement Weather (May 2023) (Time Implication) - 8days(Implemented)	8			26-Aug-24	03-Sep-24	0	0%				
SC51030-1	CNE-076 Inclement Weather (June 2023) (Time Implication) - 17.5days(Implemented)	18			03-Sep-24	20-Sep-24	0	0%				
SC51031-1	CNE-077 Inclement Weather (June 2023) (Time and Cost Implication) - 1 day	1			21-Sep-24	21-Sep-24	0	0%				
SC51032-1	CNE-078 Inclement Weather (July 2023) (Time Implication) - 11.5days(Implemented)	12			22-Sep-24	03-Oct-24	0	0%				
SC51033-1	CNE-079 Inclement Weather (July 2023) (Time and Cost Implication) - 2days	2			03-Oct-24	05-Oct-24	0	0%				
SC51099-01	EWN-0314 Extension of Time for change of access date	259			05-Oct-24	20-Jun-25	0	0%				
<b>Preliminaries</b>												
<b>Mobilisation</b>												
PL1000	Provision of Equipment / Facilities for the PMs Office	14	23-Oct-19	07-Jul-24	23-Oct-19 A	03-Sep-24	458	99.21%				
PL1040	Maintain Contractor's Site Office	87	28-Nov-20	07-Jun-24	28-Nov-20 A	15-Nov-24	354	94%				
PL1050	Maintain Contractor's Storage Area	87	06-Apr-21	07-Jun-24	06-Apr-21 A	15-Nov-24	354	93.41%				
PL1060	Removal of Site Office, Storage & Relevant Facilities	30	08-Jun-24	07-Jul-24	17-Nov-24	16-Dec-24	354	0%				
<b>Site Preliminaries</b>												
PL1070	Provision of Insurance, Third Party Insurances & PII	87	23-Oct-19	07-Jul-24	23-Oct-19 A	15-Nov-24	385	95.3%				
PL1080	Provision of 2 Contract Car for the Use of the PM & Supervisor	87	23-Oct-19	07-Jul-24	23-Oct-19 A	15-Nov-24	385	95.3%				
PL1090	Provision of 1 Electric Car for the Use of the PM & Supervisor	87	22-Jan-20	07-Jul-24	22-Jan-20 A	15-Nov-24	385	95.06%				
PL1100	Provision of Photographs	87	20-Nov-19	07-Jul-24	20-Nov-19 A	15-Nov-24	385	95.23%				
PL1110	Provision of Environmental Mitigation Measures	87	20-Nov-19	07-Jul-24	20-Nov-19 A	15-Nov-24	385	95.23%				
PL1120	Provision of Air Pollution Abatement	87	20-Nov-19	07-Jul-24	20-Nov-19 A	15-Nov-24	385	95.23%				
PL1130	Provision of Noise Pollution Abatement	87	20-Nov-19	07-Jul-24	20-Nov-19 A	15-Nov-24	385	95.23%				
PL1140	Provision of Wastewater Pollution Abatement	87	20-Nov-19	07-Jul-24	20-Nov-19 A	15-Nov-24	385	95.23%				
PL1150	Provision of Wastement Management	87	20-Nov-19	07-Jul-24	20-Nov-19 A	15-Nov-24	385	95.23%				
PL1160	Provision of Monitoring the Use of Ultra Low Sulphur Diesel	87	20-Nov-19	07-Jul-24	20-Nov-19 A	15-Nov-24	385	95.23%				
PL1170	Provision of Environmental Management	87	20-Nov-19	07-Jul-24	20-Nov-19 A	15-Nov-24	385	95.23%				
PL1180	Provision of Site Management Plan for Trip Ticket System	87	20-Nov-19	07-Jul-24	20-Nov-19 A	15-Nov-24	385	95.23%				
PL1190	Provision of As-constructed Drawings for Section 3	121	12-Jun-24	10-Oct-24	01-Sep-24	30-Dec-24	-63	0%				
PL1220	Provision of Systematic Risk Management	87	20-Nov-19	06-Jul-24	20-Nov-19 A	15-Nov-24	385	95.23%				
PL1230	Provision of Site Liaison Group & Community Liaison Group	87	20-Nov-19	06-Jul-24	20-Nov-19 A	15-Nov-24	385	95.23%				
PL1240	Provision of 24-Hour Telephone Line	87	20-Nov-19	06-Jul-24	20-Nov-19 A	15-Nov-24	385	95.23%				
PL1280	Submission & Acceptance of Training Programme, Training Manual & Syllabus for Section 4	27	21-Oct-23	16-Nov-23	21-Aug-24	16-Sep-24	433	0%				
PL1290	Provision of Training for Employer's Staff for Section 4	12	17-Nov-23	28-Nov-23	17-Sep-24	28-Sep-24	433	0%				



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- Remaining Work
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- ◆ Actual Milestone
- ◆ RP Rev.09 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.39) as at 31 Jul 2024**

Based on DE/2018/03 Revised Programme Rev.39			
Date	Revision	Checked	Approved
31-Jul-24	Rev. 0	IM/LT	KM

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			
									Aug 56	Sep 60	Oct 61	Nov 62
PL1380	Revise & Re-submit O&M Manual for Section 4	1	04-May-22	21-Oct-23	04-May-22 A	21-Aug-24	450	99.88%				
PL1390	PM Review & Approval of O&M Manual for Section 4	21	22-Oct-23	11-Nov-23	22-Aug-24	11-Sep-24	450	0%				
PL1440	Provision of ICE for Certification of the Design, Cal, Dwgs, Plans and all relevant Doc and Process Commissioning	87	20-Nov-19	04-Jul-24	20-Nov-19 A	15-Nov-24	385	95.23%				
<b>Site Upkeeping</b>												
PL1450	General Site Upkeeping of the Site	87	20-Nov-19	04-Jun-24	20-Nov-19 A	15-Nov-24	385	95.23%				
<b>Safety and Environmental Management</b>												
PL1460	Construction Health and Safety Plan	87	10-Nov-19	04-Jun-24	10-Nov-19 A	15-Nov-24	385	95.25%				
PL1470	Site Traffic Safety Management Plan	87	25-Apr-21	04-Jun-24	25-Apr-21 A	15-Nov-24	385	93.31%				
<b>Compliance with BEAM Requirements</b>												
<b>Sludge Dewatering Building</b>												
PL1510	Monthly Review & Submission	52	09-Sep-22	21-Jan-24	09-Sep-22 A	11-Oct-24	-64	93.19%				
<b>CHP Building</b>												
PL1550	Monthly Review & Submission	41	07-Dec-22	30-Mar-24	07-Dec-22 A	30-Sep-24	-53	93.83%				
<b>BIM</b>												
PL1630	Review & Update BIM Execution Plan & BIM Model	87	24-Mar-20	06-Feb-24	24-Mar-20 A	15-Nov-24	329	94.88%				
PL1640	Prepare & Submit the Fully Coordinated BIM	60	09-Dec-23	06-Feb-24	17-Sep-24	15-Nov-24	329	0%				
PL1650	PM Review & Comment Fully Coordinated BIM	21	07-Feb-24	27-Feb-24	16-Nov-24	06-Dec-24	329	0%				
<b>Section 2 - Complete All Designs (exclude Sec. 1 &amp; 3)</b>												
<b>Outstanding Works</b>												
S2D2030	Provide ICE Certificate for all design, calculations, drawings, plans & relevant documents	1	02-Jul-21	31-May-22	02-Jul-21 A	21-Aug-24*	-813	99.91%				
S2D2050	Submit finalized design calculations, drawings & material submissions for BS systems (except Workshop No.2)	1	02-Jul-21	30-Apr-22	02-Jul-21 A	21-Aug-24*	-844	99.91%				
S2D2070	Submit finalized cable schedules & sizing calculation (LV System)	1	02-Jul-21	31-Dec-21	02-Jul-21 A	21-Aug-24*	-964	99.91%				
S2D2080	Submit finalized pumps and associated motor and VSD calculations	1	02-Jul-21	31-Dec-21	02-Jul-21 A	21-Aug-24*	-964	99.91%				
S2D2090	Submit finalized electrical loads to verify the rating of the switchgears, transformers and protective devices	1	02-Jul-21	31-Dec-21	02-Jul-21 A	21-Aug-24*	-964	99.91%				
S2D2110	Submit finalized cable route drawings	1	02-Jul-21	31-Dec-21	02-Jul-21 A	21-Aug-24*	-964	99.91%				
S2D2120	Submit finalized layout and control wiring diagrams for switchboard, MCC, control panel, etc	1	02-Jul-21	31-Jan-22	02-Jul-21 A	21-Aug-24*	-933	99.91%				
S2D2140	Submit finalized interlock devices for electrical equipment and system	1	02-Jul-21	30-Apr-22	02-Jul-21 A	21-Aug-24*	-844	99.91%				
S2D2150	Submit finalized calculations for total harmonic distortion, electrical faults and touch voltage	1	02-Jul-21	30-Apr-22	02-Jul-21 A	21-Aug-24*	-844	99.91%				
S2D2160	Submit finalized design calculations, drawings & material submissions for ELV systems	1	02-Jul-21	31-Dec-21	02-Jul-21 A	21-Aug-24*	-964	99.91%				
S2D2170	Submit finalized design submissions of SCADA, PMS, CMMS, IDMS, UPS for FCS	1	02-Jul-21	31-Dec-21	02-Jul-21 A	21-Aug-24*	-964	99.91%				
S2D2180	Submit finalized configuration of SCADA/ PLC system, CMMS & PMS	1	02-Jul-21	31-Dec-21	02-Jul-21 A	21-Aug-24*	-964	99.91%				
S2D2190	Submit finalized PLC and MCC panel design	1	02-Jul-21	28-Feb-22	02-Jul-21 A	21-Aug-24*	-905	99.91%				
S2D2200	Submit finalized design & philosophy of the process instrument	1	02-Jul-21	31-Dec-21	02-Jul-21 A	21-Aug-24*	-964	99.91%				
S2D2210	Submit finalized Process Design Submission	1	02-Jul-21	30-Nov-21	02-Jul-21 A	21-Aug-24*	-995	99.91%				
S2D2220	Submit finalized acoustic and noise calculations for all equipment	1	02-Jul-21	30-Apr-22	02-Jul-21 A	21-Aug-24*	-844	99.91%				
S2D2230	Submit finalized design of THP feeding system	1	02-Jul-21	31-Oct-21	02-Jul-21 A	21-Aug-24*	-1025	99.91%				
S2D2240	Submit finalized design of the centrifuge discharge system	1	02-Jul-21	30-Nov-21	02-Jul-21 A	21-Aug-24*	-995	99.91%				
<b>Section 3 - Complete Design, Construction &amp; T&amp;C for Sidestream Facilities</b>												
<b>Design &amp; Submission</b>												
<b>Architectural</b>												
S3D1080	Review & Accept of Architectural Design / Drawings by PM	1	15-Nov-21	21-Apr-23	25-Dec-20 A	21-Aug-24	-53	99.92%				
S3D1090	Review & Accept of Architectural Design / Drawings by DSD (incl VCAB) & DAP of ArchSD	1	26-Jun-22	21-Apr-23	15-Nov-21 A	21-Aug-24	-53	99.9%				
S3D1130	Review & Accept of ABWF Works Drawings by PM	1	12-Mar-21	21-Apr-23	12-Mar-21 A	21-Aug-24	-53	99.92%				
<b>Major Plant &amp; Materials Procurement</b>												
<b>E&amp;M Process</b>												
S3P2000	Manufacture & Delivery of Instrument	10	03-Dec-22	31-Mar-24	03-Dec-22 A	30-Aug-24	-391	98.43%				



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■ Remaining Work    ◆ RP Rev39 MS  
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◆ Milestone  
■ Actual Progress  
■ RP Rev39

**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.39) as at 31 Jul 2024**

Based on DE/2018/03 Revised Programme Rev.39			
Date	Revision	Checked	Approved
31-Jul-24	Rev. 0	IM/LT	KM

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			
									Aug 60	Sep 60	Oct 61	Nov 62
S3P2170	Manufacture & Delivery of Actuators	11	01-Feb-24	30-Apr-24	15-Jan-24 A	31-Aug-24	-347	95.22%				
<b>Fitting-out</b>												
S3P2150	Procurement, Manufacture & Delivery of Fit-out Works Material	0	22-Apr-23	20-Jun-23	02-Nov-23 A	31-Jul-24 A		100%				
<b>Civil Works Construction</b>												
S3C1130	Waterproofing	0	15-Jan-24	28-Feb-24	01-Feb-24 A	24-Jul-24 A		100%				
S3C1150	External & Internal Finishes - 2nd Fix (Ceiling / Wall / Floor Finishing, Door)	11	14-Mar-24	11-Jun-24	22-Apr-24 A	31-Aug-24	-63	91.67%				
<b>E&amp;M Installation</b>												
<b>Mechanical Installations</b>												
<b>Basement</b>												
S3C2090	Installation of Secondary Clarifiers No.1 and 2	7	16-Apr-24	15-May-24	21-Aug-24*	27-Aug-24	-342	0%				
S3C2100	Installation of Separator for Phospaq No.1 and 2	21	16-Apr-24	06-May-24	21-Aug-24*	10-Sep-24	-382	0%				
S3C2110	Installation of Separator for Anammox No. 1 and 2	0	02-Mar-24	04-Apr-24	03-Jul-24 A	10-Aug-24 A		100%				
S3C2120	Installation of Mixer for Thickened Sludge Tank, Sludge Mxing Tank, Anammox Effluent Chamber and Filtrate Buffer Tank	14	16-May-24	29-May-24	17-Sep-24*	30-Sep-24	-372	0%				
S3C2130	Installation of Diffusers and pipework for Phospaq	30	07-May-24	05-Jun-24	11-Sep-24	10-Oct-24	-382	0%				
S3C2140	Installation of Diffusers and pipework for Anammox	21	07-May-24	05-Jun-24	12-Aug-24 A	10-Sep-24	-352	30%				
S3C2150	Installation of Pipeworks, Associate Valves and Fittings	30	02-Feb-24	01-May-24	30-Jan-24 A	19-Sep-24	-381	85.98%				
S3C2220	Installation of Instruments	30	02-Apr-24	01-May-24	31-Aug-24	29-Sep-24	-371	0%				
S3C2230	Installation of Actuator	21	01-May-24	21-May-24	01-Sep-24	21-Sep-24	-347	0%				
<b>GF</b>												
S3C2160	E&M installation of DG Plant Room (NaOH tank and FRP platform)	31	19-Feb-24	18-Apr-24	11-Apr-24 A	20-Sep-24	-354	72.32%				
S3C2170	Installation of EOT crane (LA-01)	10	02-Mar-24	15-Apr-24	02-Mar-24 A	30-Aug-24	-382	94.51%				
S3C2180	Installation of EOT crane (LA-02)	0	02-Mar-24	15-Apr-24	02-Mar-24 A	29-Jul-24 A		100%				
S3C2200	Installation of NaOH Dosing Pumps, Micro-Nutrient Dosing Pumps, Defoamer Dosing Pumps and PAM Dosing Pumps (12 nos.)	31	01-Feb-24	14-Feb-24	18-Jul-24 A	20-Sep-24	-382	31.11%				
S3C2210	Installation of Deformer dissolving Tank, Micro-nutrient tank and mixer	7	01-Feb-24	07-Feb-24	21-Aug-24*	27-Aug-24	-358	0%				
S3C2240	Installation of Drum Sludge Thickener System (Including mixing valves, flocculation reactors)	30	09-Feb-24	09-Mar-24	21-Aug-24*	19-Sep-24	-361	0%				
S3C2250	Installation of Pipeworks, Associate Valves and Fittings	29	19-Feb-24	03-May-24	17-May-24 A	20-Sep-24	-382	72.64%				
S3C2280	Installation of Primary Clarifiers No.1 and 2	14	16-Apr-24	15-May-24	31-Aug-24*	13-Sep-24	-355	0%				
S3C2320	Installation of Polymer System	30	16-Apr-24	15-May-24	21-Aug-24*	19-Sep-24	-269	0%				
S3C2540	Installation of Instruments	30	04-Apr-24	03-May-24	22-Aug-24	20-Sep-24	-362	0%				
S3C2550	Installation of Actuator	21	01-May-24	21-May-24	01-Sep-24	21-Sep-24	-347	0%				
<b>1/F</b>												
S3C2290	Installation of EOT crane (LA-06)	0	16-Apr-24	30-May-24	01-Feb-24 A	24-Jul-24 A		100%				
S3C2300	Installation of Deodorisation System (DOU) No.4	31	01-Apr-24	15-May-24	21-Aug-24*	20-Sep-24	-362	0%				
S3C2350	Installation of Pipeworks, Associate Valves and Fittings	45	19-Feb-24	03-Apr-24	21-Aug-24*	04-Oct-24	-396	0%				
S3C2560	Installation of Instruments	30	05-Mar-24	03-Apr-24	05-Sep-24	04-Oct-24	-376	0%				
S3C2570	Installation of Actuator	21	01-May-24	21-May-24	01-Sep-24	21-Sep-24	-347	0%				
<b>Electrical Installations</b>												
S3C2370	Installation of Electrical system - Cable Containment	41	19-Feb-24	18-Apr-24	04-Mar-24 A	30-Sep-24	-351	80.57%				
S3C2390	Installation of Electrical system - Wall Mount Equipment, Conduit & Wring	21	20-Mar-24	18-May-24	24-Jun-24 A	21-Sep-24	-111	65%				
S3C2400	Installation of SCADA system	0	19-Apr-24	17-Jun-24	24-Jun-24 A	20-Aug-24 A		100%				
S3C2410	Power Cable laying and Termination	30	29-Mar-24	27-Apr-24	10-Sep-24	09-Oct-24	-351	0%				
S3C2420	Installation of Gas Detection System	50	04-Apr-24	23-May-24	05-Sep-24	24-Oct-24	-396	0%				
S3C2430	Installation of Online Monitoring instrument / Level Control Equipment	30	04-Apr-24	03-May-24	05-Sep-24	04-Oct-24	-396	0%				
S3C2440	Installation of Electrical system - Lighting and Small Power Accessories	30	19-May-24	17-Jun-24	22-Sep-24	21-Oct-24	-111	0%				
S3C2580	Installation of UPS	7	21-May-24	27-May-24	01-Oct-24	07-Oct-24	-356	0%				
<b>BS Equipment Installation</b>												
S3C2450	Installation of P&D System - Main Pipework	10	15-Jan-24	29-Mar-24	15-May-24 A	30-Aug-24	-351	90.74%				
S3C2460	Installation of FS system - Main Pipework	41	15-Jan-24	29-Mar-24	18-May-24 A	30-Sep-24	-160	69.85%				
S3C2470	Installation of P&D System - Branch Pipework	14	10-Mar-24	28-Apr-24	15-Jul-24 A	03-Sep-24	-133	72.55%				



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- Remaining Work
- Critical Activity
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- ◆ 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.39) as at 31 Jul 2024**

Based on DE/2018/03 Revised Programme Rev.39			
Date	Revision	Checked	Approved
31-Jul-24	Rev. 0	JM/LT	KM

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				
									Aug 59	Sep 60	Oct 61	Nov 62	
S3C2480	Installation of FS system - Branch Pipework, Conduit & Wiring	31	10-Mar-24	28-Apr-24	28-Jun-24 A	30-Sep-24	-160	52.31%	[Gantt bar: 28-Jun-24 to 30-Sep-24]				
S3C2490	Installation of MVAC system - Ceiling Mount Equipment, Main Ductwork & Pipework	41	19-Feb-24	18-Apr-24	10-Jun-24 A	30-Sep-24	-351	63.72%	[Gantt bar: 10-Jun-24 to 30-Sep-24]				
S3C2500	Installation of MVAC system - Wall Mount Equipment, Branch Duct & pipework	28	30-Mar-24	18-May-24	30-Jul-24 A	08-Oct-24	-128	44%	[Gantt bar: 30-Jul-24 to 08-Oct-24]				
S3C2510	Installation of P&D System - Sanitary Fitting	30	29-Apr-24	28-May-24	04-Sep-24	03-Oct-24	-133	0%	[Gantt bar: 04-Sep-24 to 03-Oct-24]				
S3C2520	Installation of FS system - Dropper, Sprinkler Head, Detector & Devices	30	29-Apr-24	28-May-24	01-Oct-24	30-Oct-24	-160	0%	[Gantt bar: 01-Oct-24 to 30-Oct-24]				
S3C2530	Installation of MVAC system - Air Grills & Diffuser	30	19-May-24	17-Jun-24	09-Oct-24	07-Nov-24	-128	0%	[Gantt bar: 09-Oct-24 to 07-Nov-24]				
<b>Testing &amp; Commissioning</b>													
<b>For KD3A - Completion of Phase 1 Commissioning - 15 Jan 2024</b>													
<b>SAT of Sidestream Facilities</b>													
S3T1000	Pipe Pressure Test	60	09-Feb-24	18-May-24	21-Aug-24	19-Oct-24	-389	0%	[Gantt bar: 21-Aug-24 to 19-Oct-24]				
S3T1020	SAT for Chemical Dosing system (i.e.NaOH, Micro-Nutrient and Defoamer)	30	06-Jun-24	05-Jul-24	17-Nov-24	16-Dec-24	-327	0%	[Gantt bar: 17-Nov-24 to 16-Dec-24]				
S3T1030	Dry Test for Pumps	20	11-Feb-24	24-Feb-24	01-Sep-24	20-Sep-24	-360	0%	[Gantt bar: 01-Sep-24 to 20-Sep-24]				
S3T1040	SAT for Drum Sludge Thickener System	30	21-May-24	19-Jun-24	20-Sep-24	19-Oct-24	-361	0%	[Gantt bar: 20-Sep-24 to 19-Oct-24]				
S3T1050	SAT for SCADA System (STF)	16	18-Jun-24	05-Jul-24	08-Nov-24	23-Nov-24	-396	0%	[Gantt bar: 08-Nov-24 to 23-Nov-24]				
S3T1060	SAT for Air blowers and Ancillary Air Blower	30	07-May-24	05-Jun-24	21-Aug-24	19-Sep-24	-361	0%	[Gantt bar: 21-Aug-24 to 19-Sep-24]				
S3T1070	Wet Test for Pumps	14	19-May-24	01-Jun-24	20-Oct-24	02-Nov-24	-389	0%	[Gantt bar: 20-Oct-24 to 02-Nov-24]				
S3T1080	SAT for DOU no.4	30	21-May-24	04-Jul-24	21-Sep-24	20-Oct-24	-362	0%	[Gantt bar: 21-Sep-24 to 20-Oct-24]				
S3T1090	SAT for mixer	30	30-May-24	28-Jun-24	01-Oct-24	30-Oct-24	-372	0%	[Gantt bar: 01-Oct-24 to 30-Oct-24]				
S3T1100	SAT for Primary clarifier	30	21-May-24	03-Jun-24	14-Sep-24	13-Oct-24	-355	0%	[Gantt bar: 14-Sep-24 to 13-Oct-24]				
S3T1110	SAT for Secondary clarifier	30	21-May-24	03-Jun-24	01-Sep-24	30-Sep-24	-342	0%	[Gantt bar: 01-Sep-24 to 30-Sep-24]				
S3T1130	Functional Test for Pumps	14	02-Jun-24	01-Jul-24	03-Nov-24	16-Nov-24	-389	0%	[Gantt bar: 03-Nov-24 to 16-Nov-24]				
S3T1140	SAT for Phospaq Reactor	30	06-Jun-24	05-Jul-24	11-Oct-24	09-Nov-24	-382	0%	[Gantt bar: 11-Oct-24 to 09-Nov-24]				
S3T1150	SAT for Anammox Reactor	30	06-Jun-24	05-Jul-24	20-Sep-24	19-Oct-24	-361	0%	[Gantt bar: 20-Sep-24 to 19-Oct-24]				
S3T1152	SAT for Gas Detection System	30	24-May-24	22-Jun-24	25-Oct-24	23-Nov-24	-396	0%	[Gantt bar: 25-Oct-24 to 23-Nov-24]				
S3T1154	SAT for Instrumentation	30	21-May-24	19-Jun-24	05-Oct-24	03-Nov-24	-376	0%	[Gantt bar: 05-Oct-24 to 03-Nov-24]				
S3T1164	SAT for Actuators	14	22-May-24	04-Jun-24	22-Sep-24	05-Oct-24	-347	0%	[Gantt bar: 22-Sep-24 to 05-Oct-24]				
S3T1174	SAT for UPS	7	28-May-24	03-Jun-24	08-Oct-24	14-Oct-24	-356	0%	[Gantt bar: 08-Oct-24 to 14-Oct-24]				
<b>Process Start Up &amp; Phase 1 Commissioning Test</b>													
S3T1160	Power Energization (Power Provision from DE/2018/04 Contract)	0	31-Dec-24	31-Dec-24	10-Oct-24	10-Oct-24	-351	0%	[Gantt bar: 10-Oct-24 to 10-Oct-24]				
S3T1180	Existing sludge dewatering facilities Ready (by DE/2018/04 Contract)	0		05-Jul-24		20-Aug-24*	-301	0%	[Gantt bar: 20-Aug-24 to 20-Aug-24]				
S3T1190	Plant service water from zone B/C Ready (Zone B by DE/2018/04 Contract)	0		05-Jul-24		20-Aug-24*	-301	0%	[Gantt bar: 20-Aug-24 to 20-Aug-24]				
<b>For Section 3 Completion - Remaining Commissioning Works - 05 Jun 2024</b>													
S3T1240	SAT for FS system	30	29-May-24	27-Jun-24	31-Oct-24	29-Nov-24	-120	0%	[Gantt bar: 31-Oct-24 to 29-Nov-24]				
S3T1250	SAT for P&D system	30	29-May-24	27-Jun-24	04-Oct-24	02-Nov-24	-93	0%	[Gantt bar: 04-Oct-24 to 02-Nov-24]				
S3T1260	SAT for MVAC System	30	18-Jun-24	17-Jul-24	08-Nov-24	07-Dec-24	-128	0%	[Gantt bar: 08-Nov-24 to 07-Dec-24]				
S3T1270	Essential T&C for FSD Inspection	30	28-Jun-24	27-Jul-24	10-Oct-24	08-Nov-24	-134	0%	[Gantt bar: 10-Oct-24 to 08-Nov-24]				
S3T1280	SAT for Electrical System (BS)	30	18-Jun-24	17-Jul-24	22-Oct-24	20-Nov-24	-111	0%	[Gantt bar: 22-Oct-24 to 20-Nov-24]				
S3T1285	SAT for Lifting Appliance	30	31-May-24	29-Jun-24	31-Aug-24	29-Sep-24	29	0%	[Gantt bar: 31-Aug-24 to 29-Sep-24]				
<b>Statutory Submission / Inspection (FSD)</b>													
S3S1020	Submit WWO46 Part III to WSD (FS / PD)	0	15-Jan-24		21-Aug-24		-351	0%	[Gantt bar: 21-Aug-24 to 21-Aug-24]				
S3S1030	Submit WWO46 Part IV to WSD (FS / PD)	0	29-May-24		31-Oct-24		-160	0%	[Gantt bar: 31-Oct-24 to 31-Oct-24]				
S3S1040	WSD Inspection	7	12-Jun-24	18-Jun-24	14-Nov-24	20-Nov-24	-160	0%	[Gantt bar: 14-Nov-24 to 20-Nov-24]				
S3S1110	Submit Application to FSD for DG Licence	0	19-Apr-24		21-Sep-24		-354	0%	[Gantt bar: 21-Sep-24 to 21-Sep-24]				
S3S1120	D.G. Inspection, Defects Rectification & Re-inspection (Ventilation Division)	21	10-May-24	30-May-24	12-Oct-24	01-Nov-24	-162	0%	[Gantt bar: 12-Oct-24 to 01-Nov-24]				
S3S1130	D.G. Inspection, Defects Rectification & Re-inspection (DG Division)	21	31-May-24	20-Jun-24	02-Nov-24	22-Nov-24	-162	0%	[Gantt bar: 02-Nov-24 to 22-Nov-24]				
<b>Section 5 - Complete all remaining Works (incl. T&amp;C)</b>													
<b>Fabrication, FAT &amp; Delivery of Major Plant &amp; Materials</b>													
S5P1090	Fabrication and Delivery of UPS	41	15-Dec-23	20-May-24	15-Dec-23 A	30-Sep-24	-384	85.91%	[Gantt bar: 15-Dec-23 to 30-Sep-24]				
<b>Sludge Dewatering Building</b>													
<b>Procurement, Fabrication, FAT &amp; Delivery of Major Plant &amp; Materials</b>													



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- Remaining Work
- Critical Activity
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- ◆ Actual Milestone
- ◆ 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.39) as at 31 Jul 2024**

Based on DE/2018/03 Revised Programme Rev.39			
Date	Revision	Checked	Approved
31-Jul-24	Rev. 0	IM/LT	KM

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				
									Aug 59	Sep 60	Oct 61	Nov 62	
<b>Mechanical</b>													
<b>Fabrication and FAT</b>													
S5SDBP1230	Fabrication and FAT of Sludge Skip (PS Screen & Dewatering Screen)	41	31-Jan-24	30-Mar-24	31-Jan-24 A	30-Sep-24	-354	83.2%					
<b>Delivery</b>													
S5SDBP1530	Delivery of Sludge Skip (PS Screen & Dewatering Screen)	30	31-Jul-23	29-Aug-23	01-Oct-24	30-Oct-24	-354	0%					
S5SDBP1640	Fabrication and delivery of DI pipework (G/F and 1/F)	11	21-Apr-23	31-Jan-24	30-Apr-23 A	31-Aug-24	461	97.76%					
<b>Installation</b>													
<b>NCE-PMI-0325 - Provision of 2 nos of 3 Tons Mobile A-frame with Electrical Hoist in SDB</b>													
<b>E&amp;M Installation</b>													
<b>Basement</b>													
<b>Mechanical</b>													
S5SDBC1080	Installation of Instruments	9	13-Jan-24	12-Mar-24	01-Mar-24 A	09-Nov-24	-394	96.46%					
S5SDBC1090	Installation of Polymer Mixer	0	01-Feb-24	01-Mar-24	01-Aug-24 A	20-Aug-24 A		100%					
S5SDBC1100	Installation of Process Pipe	61	28-Aug-23	21-Feb-24	28-Aug-23 A	20-Oct-24	-394	85.48%					
<b>Electrical</b>													
S5SDBC1180	Installation of Electrical System - Wall Mount Equipment, Conduit & Wiring	11	08-Jun-23	19-Apr-24	05-Nov-23 A	31-Aug-24	-311	96.35%					
S5SDBC1185	Installation of Control Cable Laying	41	28-Jun-23	30-Apr-24	09-May-23 A	30-Sep-24	-310	91.98%					
S5SDBC1190	Installation of Electrical System - Lighting and Small Power Accessories	10	20-Apr-24	19-May-24	02-Aug-24 A	31-Aug-24	-311	66.67%					
<b>Ground Floor</b>													
<b>Mechanical</b>													
S5SDBC1210	Installation of DOU Ductworks	45	01-Mar-24	14-Apr-24	21-Aug-24*	04-Oct-24	-314	0%					
S5SDBC1220	Installation of Instruments	48	20-Jan-24	19-Mar-24	01-Feb-24 A	07-Oct-24	-361	80.8%					
S5SDBC1240	Installation of Process Pipe	41	11-Dec-23	09-Mar-24	11-Dec-23 A	30-Sep-24	-361	86.1%					
S5SDBC1260	Installation of Silo & Conveyor	0	01-May-24	29-Jun-24	15-May-24 A	20-Jul-24 A		100%					
S5SDBC1300	Position of Sludge Skips and Installation of Hydraulic System	14	30-Apr-24	13-May-24	31-Oct-24	13-Nov-24	-354	0%					
<b>Electrical</b>													
S5SDBC1310	Installation of Electrical System - Cable Containment	11	22-Dec-23	20-Jan-24	22-Dec-23 A	31-Aug-24	-398	95.67%					
S5SDBC1320	Installation of Electrical System - Wall Mount Equipment, Conduit & Wiring	8	01-Jan-24	19-Feb-24	03-Jan-24 A	30-Sep-24	-341	96.68%					
S5SDBC1330	Installation of Electrical System - Lighting and Small Power Accessories	20	20-Feb-24	20-Mar-24	13-May-24 A	30-Sep-24	-341	85.82%					
S5SDBC1340	Installation of Control Cable Laying	101	21-Jan-24	19-Feb-24	01-Sep-24	10-Dec-24	-381	0%					
S5SDBC1350	Installation of Power Cable Laying and Termination	33	20-Feb-24	03-Mar-24	15-Jul-24 A	22-Sep-24	-398	52.86%					
S5SDBC1900	Installation of UPS	7	21-May-24	27-May-24	01-Oct-24	07-Oct-24	-310	0%					
<b>First Floor</b>													
<b>Mechanical</b>													
S5SDBC1410	Installation of Instruments	45	03-Apr-24	17-May-24	28-Aug-24	11-Oct-24	-365	0%					
S5SDBC1420	Installation of Mixer for Digested Sludge Holding Tank	0	01-Feb-24	10-Feb-24	12-Aug-24 A	20-Aug-24 A		100%					
S5SDBC1430	Installation of Mixer for Polymer Tank	0	04-Mar-24	13-Mar-24	08-Aug-24 A	20-Aug-24 A		100%					
S5SDBC1440	Installation of Mixer for PS holding tank	0	01-Feb-24	10-Feb-24	12-Aug-24 A	20-Aug-24 A		100%					
S5SDBC1460	Installation of Process Pipe	41	02-Jan-24	31-Mar-24	03-Jan-24 A	30-Sep-24	-382	84.93%					
<b>Electrical</b>													
S5SDBC1530	Installation of Control Cable Laying	19	03-Apr-24	11-Aug-24	22-Dec-23 A	30-Sep-24	431	93.31%					
S5SDBC1550	Installation of Electrical System - Wall Mount Equipment, Conduit & Wiring	8	01-Feb-24	16-Mar-24	15-Jul-24 A	28-Aug-24	-308	82.22%					
S5SDBC1560	Installation of Electrical System - Lighting and Small Power Accessories	8	17-Mar-24	15-Apr-24	15-Jul-24 A	28-Aug-24	-308	82.22%					
S5SDBC1570	Installation of SCADA System / Control Monitoring System (SPS, Process Water)	0	07-Dec-23	20-Jan-24	07-Dec-23 A	15-Aug-24 A		100%					
S5SDBC1910	Installation of UPS	7	21-May-24	27-May-24	01-Oct-24	07-Oct-24	-310	0%					
<b>BS Installation</b>													
<b>Basement</b>													
S5SDBC1670	Installation of Plumbing System - Sanitary Fitting	0	03-Feb-24	03-Mar-24	24-Jun-24 A	23-Jul-24 A		100%					
<b>Ground Floor</b>													
S5SDBC1720	Installation of MVAC System - Wall Mount Equipment, Branch Duct & Pipework	0	10-Jun-23	29-Dec-23	10-Jun-23 A	10-Aug-24 A		100%					
S5SDBC1770	Generator & Fuel Room Installation	31	16-Jan-24	14-Apr-24	15-Apr-24 A	20-Sep-24	-354	77.7%					



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	Remaining Work		RP Rev39 MS
	Critical Activity		Actual Milestone
	Milestone		
	Actual Progress		
	RP Rev39		

**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.39) as at 31 Jul 2024**

Based on DE/2018/03 Revised Programme Rev.39			
Date	Revision	Checked	Approved
31-Jul-24	Rev. 0	IM/LT	KM

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			
									Aug 56	Sep 60	Oct 61	Nov 62
S5SDBC1780	Installation of Lift	15	06-Sep-23	09-Feb-24	06-Sep-23 A	04-Sep-24	-330	95.65%				
S5SDBC1880	Installation of Gas Detection System	90	03-Feb-24	02-May-24	01-Sep-24	29-Nov-24	-386	0%				
<b>First Floor</b>												
S5SDBC1890	Installation of Gas Detection System	90	03-Feb-24	02-May-24	01-Sep-24	29-Nov-24	-386	0%				
<b>Testing and Commissioning</b>												
S5SDBT1000	Dry Test for Pumps	14	18-Mar-24	24-Mar-24	21-Aug-24	03-Sep-24	-325	0%				
S5SDBT1030	Permanent Power ready for T&C	0	05-Mar-24		24-Sep-24		-357	0%				
S5SDBT1040	Pipe Pressure Test	90	01-Feb-24	30-May-24	21-Aug-24	18-Nov-24	-401	0%				
S5SDBT1050	Ready for Power Energisation - LV	1	04-Mar-24	04-Mar-24	23-Sep-24	23-Sep-24	-398	0%				
S5SDBT1060	SAT for Sludge Conveying and Discharge System	60	30-Jun-24	28-Aug-24	24-Sep-24	22-Nov-24	-377	0%				
S5SDBT1070	SAT for Lift	60	05-Mar-24	03-May-24	24-Sep-24	22-Nov-24	-349	0%				
S5SDBT1080	SAT for Polymer Preparation, Storage and Dosing system for Thickening and Dewatering Sludge	45	05-Mar-24	03-May-24	24-Sep-24	07-Nov-24	-398	0%				
S5SDBT1090	SAT for Sludge Dewatering Centrifuges	30	10-Apr-24	09-May-24	24-Sep-24*	23-Oct-24	-333	0%				
S5SDBT1100	SAT for Sludge Thickening Centrifuge	30	10-Apr-24	09-May-24	24-Sep-24*	23-Oct-24	-357	0%				
S5SDBT1110	SAT for Switchboard	6	22-Jan-24	27-Jan-24	21-Aug-24*	26-Aug-24	-371	0%				
S5SDBT1130	SAT of Electrical System (BS)	45	20-May-24	03-Jul-24	01-Oct-24	14-Nov-24	-341	0%				
S5SDBT1140	SAT of Emergency Generator System	15	15-Apr-24	29-Apr-24	21-Sep-24	05-Oct-24	-301	0%				
S5SDBT1150	SAT of FS System	30	05-Mar-24	03-Apr-24	24-Sep-24	23-Oct-24	-319	0%				
S5SDBT1160	SAT of Instrumentation	30	12-Apr-24	11-May-24	10-Nov-24	09-Dec-24	-394	0%				
S5SDBT1170	SAT of Mixer (Excluded Mixer for PS holding tank)	30	14-Mar-24	12-Apr-24	04-Sep-24	03-Oct-24	-313	0%				
S5SDBT1175	SAT of Primary Sludge Holding Tanks and Mixer	45	31-Mar-24	14-May-24	10-Sep-24	24-Oct-24	-348	0%				
S5SDBT1178	SAT of Digested Sludge Holding Tanks and Mixer	45	21-Apr-24	04-Jun-24	21-Aug-24	04-Oct-24	-328	0%				
S5SDBT1180	SAT of MVAC System	45	05-Mar-24	18-Apr-24	24-Sep-24	07-Nov-24	-334	0%				
S5SDBT1190	SAT of Plumbing System	30	05-Mar-24	03-Apr-24	24-Sep-24	23-Oct-24	-319	0%				
S5SDBT1210	SAT of Sludge Blending System (included PS Screen Feed Pumps, Sludge Screen Presses and Sludge Recirculation Pumps)	45	18-Apr-24	01-Jun-24	24-Aug-24	07-Oct-24	-331	0%				
S5SDBT1220	Wet Test for Pumps (excluded FS Water Pumps and Process Water Pumps)	14	31-May-24	19-Jun-24	19-Nov-24	02-Dec-24	-401	0%				
S5SDBT1230	Wet Test for Pumps (FS Water Pumps and Process Water Pumps)	14	31-May-24	19-Jun-24	19-Nov-24	02-Dec-24	-387	0%				
S5SDBT1245	SAT of UPS	7	28-May-24	03-Jun-24	08-Oct-24	14-Oct-24	-310	0%				
<b>Combined Heat &amp; Power Building</b>												
<b>Fabrication, FAT &amp; Delivery of Major Plant &amp; Materials</b>												
S5CHPP1040	Fabrication & Delivery of Gas Detection System	11	15-May-23	02-Feb-24	28-Jul-23 A	31-Aug-24	-386	97.26%				
<b>Installation</b>												
<b>E&amp;M Installation</b>												
<b>Ground Floor</b>												
S5CHPC1050	Installation of CHP System - Mechanical Work	41	26-Apr-23	29-Feb-24	26-Apr-23 A	30-Sep-24	-305	92.18%				
S5CHPC1070	Installation of pipework	41	02-Jan-24	13-May-24	02-Jan-24 A	30-Sep-24	-305	84.98%				
S5CHPC1100	Installation of Electrical System	11	04-Dec-23	20-Feb-24	04-Dec-23 A	31-Aug-24	-307	95.96%				
S5CHPC1120	Installation of SCADA System	20	05-Jan-24	24-Apr-24	05-Jan-24 A	09-Sep-24	-270	91.67%				
S5CHPC1150	Diesel Storage & Pump Room Installation	72	15-Mar-24	13-Apr-24	15-Apr-24 A	31-Oct-24	-395	64%				
S5CHPC1410	Installation of Gas Detection System	90	03-Feb-24	02-May-24	01-Sep-24	29-Nov-24	-386	0%				
S5CHPC1430	Installation of UPS	7	21-May-24	27-May-24	01-Oct-24	07-Oct-24	-93	0%				
<b>First Floor</b>												
S5CHPC1160	Installation of Monorail / Davit LA-04-03 to LA-04-10 (total 8nos.)	11	07-Mar-23	20-Feb-24	07-Mar-23 A	31-Aug-24	-365	97.98%				
S5CHPC1170	Installation of Biogas Pre-treatment System - Mechanical Work	21	28-Sep-23	18-Mar-24	28-Sep-23 A	10-Sep-24	-375	93.81%				
S5CHPC1200	Installation of pipework	9	08-Jan-24	21-May-24	08-Jan-24 A	10-Sep-24	-375	96.5%				
S5CHPC1230	Installation of Electrical System	10	06-Nov-23	29-Jan-24	06-Nov-23 A	10-Sep-24	-315	96.67%				
S5CHPC1250	Installation of SCADA System (THP, Digester, H2S removal System, Dou12, Biogas Holding Tank)	90	11-Feb-24	10-May-24	02-Sep-24*	30-Nov-24	-282	0%				
S5CHPC1400	Installation of Gas Detection System	90	03-Feb-24	02-May-24	01-Sep-24	29-Nov-24	-386	0%				
S5CHPC1420	Cable Laying and termination	11	10-Mar-24	08-Apr-24	10-Jul-24 A	31-Aug-24	-330	79.25%				
S5CHPC1440	Installation of UPS	7	21-May-24	27-May-24	01-Oct-24	07-Oct-24	-93	0%				
<b>Roof</b>												
S5CHPC1290	Installation of Electrical System	9	11-Mar-24	17-Apr-24	18-Mar-24 A	15-Oct-24	-361	94.74%				



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	Remaining Work		RP Rev39 MS
	Critical Activity		Actual Milestone
	Milestone		
	Actual Progress		
	RP Rev39		

**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.39) as at 31 Jul 2024**

Based on DE/2018/03 Revised Programme Rev.39			
Date	Revision	Checked	Approved
31-Jul-24	Rev. 0	JM/LT	KM

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				
									Aug 59	Sep 60	Oct 61	Nov 62	
<b>BS Installation</b>													
<b>Ground Floor</b>													
S5CHPC1080	Installation of FS System	41	27-Feb-23	28-Feb-24	27-Feb-23 A	30-Sep-24	-390	92.12%					
S5CHPC1090	Installation of MVAC System	30	15-Jul-23	28-Jan-24	10-Jun-23 A	19-Sep-24	-150	92.82%					
<b>First Floor</b>													
S5CHPC1210	Installation of FS System	41	27-Feb-23	28-Feb-24	27-Feb-23 A	30-Sep-24	-390	92.96%					
S5CHPC1220	Installation of MVAC System	11	21-Oct-23	08-Mar-24	21-Oct-23 A	19-Sep-24	-150	96.72%					
<b>Testing and Commissioning</b>													
S5CHPT1000	Pipe Pressure Test	120	22-Feb-24	20-Jun-24	11-Sep-24	08-Jan-25	-375	0%					
S5CHPT1010	SAT for Switchboard	8	09-Apr-24	16-Apr-24	23-Jul-24 A	28-Aug-24	-327	52.94%					
S5CHPT1020	Ready for Power Energisation	1	01-May-24	01-May-24	16-Oct-24	16-Oct-24	-361	0%					
S5CHPT1022	SAT of Instrumentation (Excluded Biogas Circuit)	30	22-May-24	20-Jun-24	01-Oct-24	30-Oct-24	-305	0%					
S5CHPT1040	SAT for Pre-treatment System	60	22-Apr-24	20-Jun-24	10-Nov-24	08-Jan-25	-375	0%					
S5CHPT1060	SAT for Ventilation System	45	19-Apr-24	02-Jun-24	01-Oct-24	14-Nov-24	-124	0%					
S5CHPT1080	SAT for UPS	7	28-May-24	03-Jun-24	08-Oct-24	14-Oct-24	-93	0%					
<b>Tx Rm &amp; LV Switchroom (for UV)</b>													
<b>Fabrication, FAT &amp; Delivery of Major Plant &amp; Materials</b>													
S5TXRP1010	Fabrication & Delivery of LVSB -UV	31	03-Nov-23	12-May-24	03-Nov-23 A	20-Sep-24	-368	90.4%					
<b>Installation</b>													
S5TXRC1020	BS Fitting Installation (at Tx Rm & LV Switchroom)	10	27-Nov-23	14-Feb-24	27-Nov-23 A	30-Aug-24	-327	96.4%					
S5TXRC1040	E&M Installation of LVSB	6	13-May-24	18-May-24	21-Sep-24	26-Sep-24	-368	0%					
S5TXRC1050	Installation of SCADA System (UV, DOU11, PSW)	30	19-Jan-24	17-Feb-24	28-Aug-24	26-Sep-24	-354	0%					
<b>Testing and Commissioning</b>													
S5TXRT1000	SAT for Switchboard	8	19-May-24	26-May-24	27-Sep-24	04-Oct-24	-368	0%					
S5TXRT1010	Ready for Power Energisation	1	10-Jun-24	10-Jun-24	11-Oct-24	11-Oct-24	-368	0%					
<b>Sludge Digesters &amp; Distribution Chamber</b>													
<b>Installation</b>													
<b>E&amp;M Installation</b>													
<b>FRP Walkway/ Cover Installation</b>													
S5DIGC1080	Installation of Working Platform for Digester 2 (Roof)	0	19-Apr-24	02-May-24	15-Jul-24 A	28-Jul-24 A		100%					
<b>Sludge Digester 1</b>													
S5DIGC1120	Installation of Electrical System	11	29-Jan-24	13-Mar-24	29-Jan-24 A	31-Aug-24	-315	94.91%					
<b>Sludge Digester 3</b>													
S5DIGC1160	Installation of Electrical System	11	29-Jan-24	13-Mar-24	29-Jan-24 A	31-Aug-24	-315	94.91%					
<b>Sludge Digester 4</b>													
S5DIGC1200	Installation of Electrical System	11	29-Jan-24	13-Mar-24	29-Jan-24 A	31-Aug-24	-315	94.88%					
<b>Distribution Chamber</b>													
S5DIGC1240	Installation of Vertical Mixer at Sludge Buffer Tank (2 nos.)	8	30-Jan-24	06-Feb-24	21-Aug-24*	28-Aug-24	-369	0%					
S5DIGC1250	Installation of Pipework, Valve & Instruments	10	16-Oct-23	07-Mar-24	16-Oct-23 A	30-Aug-24	-371	96.67%					
S5DIGC1260	Installation of Electrical System	11	16-Oct-23	07-Mar-24	16-Oct-23 A	31-Aug-24	-315	96.57%					
S5DIGC1270	Installation of Gas Detection System	90	03-Feb-24	02-May-24	01-Sep-24	29-Nov-24	-386	0%					
<b>BS Installation</b>													
<b>Distribution Chamber</b>													
S5DIGC1280	Installation of FS System	30	25-Aug-23	31-Jan-24	25-Aug-23 A	19-Sep-24	-150	91.2%					
S5DIGC1290	Installation of MVAC System	30	11-Dec-23	09-Mar-24	11-Dec-23 A	19-Sep-24	-150	87.12%					
<b>Testing and Commissioning</b>													
S5DIGT1000	Pipe Pressure Test	45	08-Mar-24	21-May-24	01-Aug-24 A	14-Oct-24	-356	40%					
S5DIGT1015	SAT of Instrumentation	30	14-Mar-24	12-Apr-24	31-Aug-24	29-Sep-24	-341	0%					
S5DIGT1018	SAT for Digested Sludge Recirculation Pumps	60	14-Mar-24	12-May-24	31-Aug-24	29-Oct-24	-371	0%					
<b>Workshop No. 2</b>													
<b>Installation</b>													
<b>HV Switchroom / Transformer Room / LV Switchroom</b>													
S5WS2C1050	BS Fitting Installation	0	11-Apr-22	15-May-23	11-Apr-22 A	20-Jul-24 A		100%					
S5WS2C1085	Cable Laying and Termination	30	02-Mar-24	13-Mar-24	02-Mar-24 A	19-Sep-24	-144	83.52%					
S5WS2C1200	Installation of UPS	7	21-May-24	27-May-24	01-Oct-24	07-Oct-24	-93	0%					
<b>Building Services</b>													



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	Remaining Work		RP Rev39 MS
	Critical Activity		Actual Milestone
	Milestone		
	Actual Progress		
	RP Rev39		

**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.39) as at 31 Jul 2024**

Based on DE/2018/03 Revised Programme Rev.39			
Date	Revision	Checked	Approved
31-Jul-24	Rev. 0	JM/LT	KM

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			
									Aug 59	Sep 60	Oct 61	Nov 62
S5WS2C1140	Installation of FS System	0	11-Apr-22	07-Feb-24	11-Apr-22 A	20-Jul-24 A		100%				
S5WS2C1150	Installation of MVAC System	0	19-Dec-22	31-Jan-24	19-Dec-22 A	20-Jul-24 A		100%				
S5WS2C1160	Installation of Electrical System	30	03-Oct-22	09-Feb-24	03-Oct-22 A	19-Sep-24	-252	95.82%				
S5WS2C1170	Installation of Plumbing System	0	10-Oct-22	09-Feb-24	10-Oct-22 A	20-Jul-24 A		100%				
S5WS2C1180	Installation of SCADA System	0	24-Nov-23	08-May-24	01-Mar-24 A	20-Jul-24 A		100%				
<b>Testing and Commissioning</b>												
S5WS2T1030	SAT for UPS	7	28-May-24	03-Jun-24	08-Oct-24	14-Oct-24	-93	0%				
<b>Biogas Storage</b>												
<b>E&amp;M Installation</b>												
<b>Mechanical Installation</b>												
S5BIOC1020	Mechanical Installation of Biogas Storage Tank 3	77	03-Oct-22	31-May-24	03-Oct-22 A	05-Nov-24	-389	89.95%				
S5BIOC1030	Mechanical Installation of Biogas Storage Tank 2	79	10-Oct-22	31-Jul-24	10-Oct-22 A	07-Nov-24	-389	89.62%				
S5BIOC1040	Mechanical Installation of Biogas Storage Tank 1	89	01-Jun-23	31-Aug-24	01-Jun-23 A	17-Nov-24	-389	83.43%				
<b>Electrical Installation</b>												
S5BIOC1060	Electrical Installation for Biogas Holding Tanks	48	17-Jun-24	31-Aug-24	17-Jun-24 A	23-Dec-24	347	50%				
S5BIOC1070	Installation for Gas Detection System	90	03-Feb-24	02-May-24	01-Sep-24	29-Nov-24	-386	0%				
<b>Testing and Commissioning</b>												
S5BIOT1010	SAT for Biogas Storage Tank 3	30	01-Jun-24	30-Jun-24	06-Nov-24	05-Dec-24	-362	0%				
S5BIOT1020	SAT for Biogas Storage Tank 2	30	01-Aug-24	30-Aug-24	08-Nov-24	07-Dec-24	-364	0%				
<b>THP Area</b>												
<b>E&amp;M Installation</b>												
<b>Mechanical Installation</b>												
S5THPC1030	Mechanical Installation of Thickened Sludge Feed Pipe to THP System	29	15-Feb-24	15-Mar-24	19-Jul-24 A	18-Sep-24	-266	53.97%				
<b>Electrical Installation</b>												
S5THPC1050	Electrical Installation for THP Facilities	53	16-Mar-24	14-May-24	15-Aug-24 A	12-Oct-24	-360	11.67%				
S5THPC1060	Installation of Control panel for THP	6	17-Apr-24	22-Apr-24	02-Sep-24*	07-Sep-24	-279	0%				
S5THPC1070	Cable Laying and Termination	12	02-Mar-24	13-Mar-24	02-Sep-24*	13-Sep-24	-262	0%				
<b>Testing and Commissioning</b>												
S5THPT0005	SAT of LV switchboard	8	23-Apr-24	30-Apr-24	09-Sep-24	16-Sep-24	-279	0%				
S5THPT1005	SAT of Instrumentation	45	07-Jun-24	21-Jun-24	05-Nov-24	19-Dec-24	-360	0%				
<b>H2S Removal Area</b>												
<b>Installation</b>												
S5H2SC1020	E&M Installation of H2S Removal System	30	04-Jan-24	03-Mar-24	03-Jan-24 A	19-Sep-24	-329	88.55%				
<b>Waste Gas Burning Area</b>												
<b>Installation</b>												
S5WGBC1020	E&M Installation of Waste Gas Burning System	14	15-Jan-24	13-May-24	22-Feb-24 A	03-Sep-24	-221	92.86%				
<b>Testing and Commissioning</b>												
S5WGBT1000	Ready for Power Energisation	3	02-May-24	04-May-24	20-Oct-24	22-Oct-24	-270	0%				
S5WGBT1010	SAT for Flare (Waste Gas Burning System)	45	14-May-24	27-Jun-24	23-Oct-24	06-Dec-24	-270	0%				
<b>Plant Service Water Area</b>												
<b>Installation</b>												
S5PSWC1000	E&M Installation of Plant Service Water System	71	01-Feb-24	30-Apr-24	18-Mar-24 A	30-Oct-24	-388	68.86%				
<b>Testing and Commissioning</b>												
S5PSWT1000	Ready for Power Energisation	3	29-Jun-24	01-Jul-24	19-Nov-24	21-Nov-24	-407	0%				
<b>DO Area</b>												
<b>Installation</b>												
S5DOUC1030	E&M Installation of DO System No.11	91	05-Feb-24	04-May-24	02-Feb-24 A	19-Nov-24	-404	68.94%				
S5DOUC1040	E&M Installation of DO System No.12	91	05-Feb-24	04-May-24	22-Feb-24 A	19-Nov-24	-390	66.67%				
<b>Testing and Commissioning</b>												
S5DOUT1000	Ready for Power Energisation of DO No.11	3	29-Jun-24	01-Jul-24	19-Nov-24	21-Nov-24	-406	0%				
<b>Sewage Pump Station</b>												
<b>Fabrication, FAT &amp; Delivery of Major Plant &amp; Materials</b>												
S5SPSP1010	Fabrication & Delivery of LV Switchboard	26	28-Mar-23	02-Jun-24	28-Mar-23 A	15-Sep-24	-369	95.17%				
<b>Installation</b>												



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	Remaining Work		RP Rev39 MS
	Critical Activity		Actual Milestone
	Milestone		
	Actual Progress		
	RP Rev39		

**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.39) as at 31 Jul 2024**

Based on DE/2018/03 Revised Programme Rev.39			
Date	Revision	Checked	Approved
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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				
									Aug 59	Sep 60	Oct 61	Nov 62	
<b>E&amp;M Installation</b>													
S5SPSC1000	E&M Installation of Sewage Pump	30	18-Oct-23	15-Mar-24	17-Jul-23 A	19-Sep-24	-345	93.04%					
S5SPSC1001	LV Switchboard Installation	6	03-Jun-24	08-Jun-24	16-Sep-24	21-Sep-24	-369	0%					
S5SPSC1002	Cable Laying and Termination	29	02-Mar-24	10-Jun-24	21-Jun-24 A	18-Sep-24	-344	67.78%					
S5SPSC1012	SCADA System Installation	41			21-Jun-24 A	30-Sep-24	-396	59.8%					
<b>BS Installation</b>													
S5SPSC1020	BS Installation for Sewage Pumping Station	11	16-Mar-24	14-May-24	18-Jul-24 A	30-Sep-24	-161	85.33%					
<b>Testing and Commissioning</b>													
SSSPST0990	SAT of Switchboard	8	09-Jun-24	16-Jun-24	22-Sep-24	29-Sep-24	-369	0%					
SSSPST1000	Ready for Power Energisation	1	01-Jul-24	01-Jul-24	14-Oct-24	14-Oct-24	-369	0%					
SSSPST1010	SAT & System Commissioning Tests for Sewage Pumping Station	45	02-Jul-24	15-Aug-24	15-Oct-24	28-Nov-24	-369	0%					
<b>THP Cooling Water Transfer Pumping Station</b>													
<b>Installation</b>													
S5TCWC1020	E&M Installation of THP Cooling Pump	40	05-Jan-24	04-Mar-24	18-Dec-23 A	29-Sep-24	-340	86.11%					
<b>Ferric Chloride Dosing Facility</b>													
<b>Fabrication, FAT &amp; Delivery of Major Plant &amp; Materials</b>													
S5FCDP1020	Fabrication & Delivery of LV Switchboard	26	28-Mar-23	02-Jun-24	28-Mar-23 A	15-Sep-24	-369	95.17%					
<b>Installation</b>													
S5FDCD1030	E&M Installation of Ferric Chloride Dosing Pump	71	02-Mar-24	15-Apr-24	29-Jan-24 A	30-Oct-24	-408	74.37%					
S5FDCD1035	LV Switchboard Installation	6	03-Jun-24	08-Jun-24	16-Sep-24	21-Sep-24	-369	0%					
<b>Testing and Commissioning</b>													
S5FCDT0990	SAT of Switchboard	8	09-Jun-24	16-Jun-24	31-Oct-24	07-Nov-24	-408	0%					
<b>Fire Hydrant and Booster Pump Room</b>													
<b>Installation</b>													
SSSHPC1020	Fire Hydrant and Booster Pump Room Installation	40	01-Mar-24	29-Apr-24	10-Jun-24 A	29-Sep-24	-230	64.6%					
<b>Testing and Commissioning</b>													
SSSHPT1000	Ready for Power Energisation	3	29-Jun-24	01-Jul-24	19-Nov-24	21-Nov-24	-243	0%					
<b>External Area</b>													
<b>Installation</b>													
S5EXAC1030	LV Cable Laying from CHP to Sludge Digester, Workshop no.2 and THP CW transfer PS (80 days) & Termination (40 days)	120	01-Mar-24	27-Aug-24	21-Aug-24*	18-Dec-24	-424	0%					
S5EXAC1045	E&M Installation of Pipe Trench No.1, No.2 (Duration assumed no interface work)	100	01-Mar-24	08-Jun-24	21-Aug-24*	28-Nov-24	-307	0%					
S5EXAC1050	LV Cable Laying from CHP to BHT, THP, DOU No.12, H2S removal & Guard Hse (70days) & Termination (40 days)	110	01-Mar-24	28-Jul-24	21-Aug-24*	08-Dec-24	-412	0%					
S5EXAC1070	LV Cable Laying from SDB to SPS (20 days) & Termination (25 days)	45	01-Mar-24	14-Apr-24	21-Aug-24*	04-Oct-24	-360	0%					
S5EXAC1080	LV Cable Laying from TX & SW Room to DOU no. 11, Street Hydrant Pump room and PSWS (60days) & Termination (30days)	90	01-Mar-24	28-Jun-24	21-Aug-24*	18-Nov-24	-407	0%					
S5EXAC1090	LV Cable Laying from CHP to FeCl3 Dosing Facility and Waste Gas Burning System (30 days) & Termination (30 days)	60	01-Mar-24	29-Apr-24	21-Aug-24	19-Oct-24	-270	0%					
S5EXAC1100	Road Lighting Installation	180	01-Mar-24	27-Aug-24	21-Aug-24*	16-Feb-25	-300	0%					
S5EXAC1110	Landscape Lighting Installation	120	01-Mar-24	28-Jun-24	21-Aug-24*	18-Dec-24	-240	0%					
<b>SAS Pumping Station</b>													
<b>Installation</b>													
SSSASC1010	E&M Installation of SAS Pumping System	41	23-Mar-22	30-Jun-23	23-Mar-22 A	30-Sep-24	-355	95.56%					
SSSASC1020	Installation of SCADA System / Control Monitoring System	0	21-Feb-24	21-Mar-24	10-Jun-24 A	20-Jul-24 A		100%					
SSSASC1040	Installation of UPS	7	21-May-24	27-May-24	01-Oct-24	07-Oct-24	-384	0%					
<b>Testing and Commissioning</b>													
SSSAST1000	SAT & System Commissioning Tests for SAS Pumping Station	45	14-Mar-24	27-Apr-24	01-Oct-24	14-Nov-24	-355	0%					
SSSAST1010	SAT of Switchboard	4	09-Feb-24	12-Feb-24	21-Aug-24	24-Aug-24	-348	0%					
SSSAST1020	Ready for Power Energisation	1	13-Mar-24	13-Mar-24	23-Sep-24	23-Sep-24	-348	0%					
SSSAST1030	SAT for UPS	7	28-May-24	03-Jun-24	08-Oct-24	14-Oct-24	-384	0%					
<b>Existing Consolidation House</b>													
<b>Installation</b>													
S5ECHC1000	E&M Installation of Existing Consolidation House	120	31-Jan-24	29-May-24	21-Aug-24*	18-Dec-24	-419	0%					



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- ◆ Actual Milestone
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- ◆ 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.39) as at 31 Jul 2024**

Based on DE/2018/03 Revised Programme Rev.39			
Date	Revision	Checked	Approved
31-Jul-24	Rev. 0	JM/LT	KM

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				
									Aug 59	Sep 60	Oct 61	Nov 62	
<b>Miscellaneous</b>													
S5MISC1000	Access to Other Peripheral Systems - Guard House Only (Impacted by EWN-0314-4)	0	29-Jan-24		21-Aug-24*		-210	0%					
S5MISC1010	E&M Installation - Guard House	90	29-Jan-24	27-Apr-24	21-Aug-24*	18-Nov-24	-210	0%					
S5UVPC1000	E&M Installation of Lift-up Pumps & Associated Pipeworks / Valves	11	19-Jun-23	08-Feb-24	19-Jun-23 A	31-Aug-24	-325	97.5%					
<b>Testing &amp; Commissioning</b>													
<b>T&amp;C of Control Monitoring System</b>													
S5T1000	SAT of SCADA System (SPS and FeCB)	100	05-Apr-24	15-Aug-24	01-Oct-24	08-Jan-25	-396	0%					
S5T1001	SAT of SCADA System (SAS PS)	60	22-Mar-24	03-Jun-24	15-Oct-24	13-Dec-24	-384	0%					
S5T1002	SAT of SCADA (SDB)	136	21-Jan-24	11-Oct-24	21-Sep-24	03-Feb-25	-422	0%					
S5T1003	SAT of SCADA (CHP System at CHP building) (Excluded Biogas Circuit)	150	25-Apr-24	02-Sep-24	28-Sep-24	24-Feb-25	-226	0%					
S5T1004	SAT of SCADA (WS2)	214	04-Jun-24	29-Nov-24	20-Sep-24	21-Apr-25	-282	0%					
S5T1006	SAT of SCADA (Transformer and Switchroom)	62	18-Feb-24	15-Aug-24	05-Nov-24	05-Jan-25	-393	0%					
S5T1220	SAT of SCADA (Sludge Anaerobic Digestion System at CHP Building)	107	11-May-24	30-Aug-24	06-Oct-24	20-Jan-25	-191	0%					
S5T1270	SAT of SCADA (for Sludge Thickening System at SDB Building)	102	21-Mar-24	14-Aug-24	08-Oct-24	17-Jan-25	-419	0%					
<b>Statutory Submission / Inspection</b>													
<b>HKT Submission</b>													
S5S0990	Application of Telemetry Lines for Workshop No. 2.	180	09-May-24	04-Nov-24	21-Aug-24	16-Feb-25	-132	0%					
<b>CLP Submission</b>													
S5S1080	Submission and approval of Renewable Energization Application to/from CLP	11	03-Nov-22	17-Jan-24	03-Nov-22 A	31-Aug-24	461	98.35%					
<b>WSD Submission / Inspection</b>													
S5S1130	Submit WWO46 Part IV to WSD (FS)	0	30-Apr-24		30-Sep-24		-230	0%					
S5S1140	WSD Inspection (FS)	28	14-May-24	10-Jun-24	14-Oct-24	10-Nov-24	-230	0%					
S5S1160	Submit WWO46 Part IV to WSD (PD)	0	09-May-24		01-Oct-24		-390	0%					
S5S1170	WSD Inspection	7	23-May-24	29-May-24	15-Oct-24	21-Oct-24	-390	0%					
S5S1180	Issuance of Form WWO46 Part Va	0		12-Jun-24		04-Nov-24	-390	0%					
S5S1190	System Flushing / Sampling	45	13-Jun-24	27-Jul-24	05-Nov-24	19-Dec-24	-390	0%					
<b>FSD Submission / Inspection</b>													
S5S1270	Application of D.G. Licence	0	19-Apr-24		01-Nov-24		-395	0%					
S5S1280	Apply for D.G. Inspection	14	19-Apr-24	09-May-24	01-Nov-24	14-Nov-24	-395	0%					
S5S1290	D.G. Inspection, Defects Rectification & Re-inspection (Ventilation Division)	14	10-May-24	30-May-24	15-Nov-24	28-Nov-24	-395	0%					



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**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.39) as at 31 Jul 2024**

Based on DE/2018/03 Revised Programme Rev.39			
Date	Revision	Checked	Approved
31-Jul-24	Rev. 0	JM/LT	KM

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 %		
<b>Drawing Submission for Key Dates</b>												
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 dimensional 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 Commissioning	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: Acceptance 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				100%		
	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%		

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: 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). Manufacturing 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 this 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 Commissioning 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.

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 Commissioning 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											
<b>Section 1 of Works (outstanding works list)</b>												
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	- * = PMI014 - Revised Location for Construction of Temporary Filtrate Equalization System received 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%		* = PMI014 - Revised Location for Construction of Temporary Filtrate Equalization System received 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%		- * = PMI014 - Revised Location for Construction of Temporary Filtrate Equalization System received on 17 Aug 2020. - Bestwise submitted Rev.0 on 12 Jan 2020.

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 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 received 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-004)	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 received on 17 Aug 2020. Subletting package would be 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 received 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 Commissioning	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				-		

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	101%				-	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	101%						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	101%						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	102%						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	102%				-		
	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	101%				-	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	101%						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.

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 GA Drawing	6/9/2020	3/2/2021	14/5/2021	31/8/2024	102%						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	102%						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	102%				-		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	102%						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	102%						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	102%				-		
	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



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 KD1A: 6 November 2020	7/9/2020	16/9/2020	5/11/2020	5/11/2020	Task Completed						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	102%				-	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	101%						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	102%						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	102%						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	102%					-	
	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 KD1A: 6 November 2020	7/9/2020	1/10/2020	5/11/2020	5/11/2020	Task Completed						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	102%				-	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	101%						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	102%						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)

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	102%						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	102%				-		
	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	101%						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	102%						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	102%				-		
	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	101%				-	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	102%						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	102%				-		
	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.

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 GA Drawing of DOU No. 3A	6/9/2020	8/7/2020	14/5/2021	31/8/2024	101%					Bestwise	Bestwise submitted (rev.1) on 28 Oct 2020. AECOM commented 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	102%						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	102%						
	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.
	Submission of P&ID Drawing of DOU No. 3B	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	101%						Bestwise submitted DWG0081 (rev.0) on 5 Feb 2021. AECOM commented 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	102%						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	102%						
	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	101%						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	101%						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	101%						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	101%						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	101%						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.



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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 %		
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								
<b>Section 3 of Works</b>												
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.

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											
<b>Subcontracting</b>												
	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.
<b>04SC003 - Building Information Modeling (BIM)</b>												
	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					-		
<b>04SC007 - Independent Beam Plus Consultant</b>												
	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
<b>04SC008 - Design, Supply and Installation of detailed</b>												
	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.

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
	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-> 30/11/2020*	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 on 14 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.

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 %		
	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 Commissioning	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%			



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 %		
	Material submission P431 P&M-0087	21 May 2021	19 June 2021	28 May 2021	12 July 2021	Task Completed				100%		
	Fabrication of container at PRC	21 June 2021	21 June 2021	TBC	12/8/2021	Task Completed				100%		
	Container deliver to HK	TBC	12/8/2021	10/8/2021	12/8/2021	Task Completed				100%		
	Off site modification work at HK factory	TBC	16/8/2021	24/8/2021	24/8/2021	Task Completed				100%		
	FAT plan of modified Genset No.2 P431 MS-036	12/7/2021	12/7/2021	20/8/2021	20/8/2021	Task Completed				100%		
	FAT of Genset No.2 after modification works	25/8/2021	25/8/2021	25/8/2021	25/8/2021	Task Completed				100%		
	Installation Work of I-beam Support	26/8/2021	26/8/2021	26/8/2021	26/8/2021	Task Completed				100%		
	Transportation of Genset No. 2 to existing power house in SWHSTW and completion of the Genset No.2 installation on I-beam supporting frame	27/8/2021	27/8/2021	27/8/2021	27/8/2021	Task Completed				100%		
	Provision of one (1) can of 160L diesel and a diesel hand pump placed at diesel daily tank of Genset No.1 for standby top up (PPMI-012 item L) Location to be coordinated and advised by SWHSTW operator DSD/ST1	27/7/2021	27/7/2021	31/8/2021								Location to be further coordinated with DSD.
	Modification works of existing switchboard	1/9/2021	1/9/2021	8/9/2021	8/9/2021	Task Completed				100%		
	Cables (including control cable and power cables) laying and installation of cable containment, busbar chamber	21/7/2021	30/7/2021	8/9/2021	8/9/2021	Task Completed				100%		
	Supply of busbar chamber/ connection box	10/8/2021	10/8/2021	3/9/2021	3/9/2021	Task Completed				100%		
	Completion of all Genset cables and cable termination work to existing power house in SWHSTW after the completion of Genset No. 2 installation work	1/9/2021	1/9/2021	8/9/2021	8/9/2021	Task Completed				100%		
	Delivery of dummy load and self-test	9/9/2021	9/9/2021	14/9/2021	15/9/2021	Task Completed				100%		
	SAT and T&C (witness by AECOM and DSD/ST1) Please allow 1 week advance notice for coordination with DSD/ST1, e.g. genset signal start, etc.)	15/9/2021	15/9/2021	15/9/2021	16/9/2021	Task Completed				100%		
04SC009 - Design, Supply and Installation of HVSB	Submission of subletting package for acceptance	21/4/2020		1/5/2020		-						
	Acceptance of subletting package	21/5/2020		30/5/2020		-						
	Tender invitation	1/6/2020		14/6/2020		-						
	Tender award	1/7/2020		14/7/2020		-						
04SC010 - Design, Supply and Installation of LVSB	Submission of subletting package for acceptance	1/5/2020		14/5/2020		-						
	Acceptance of subletting package	1/6/2020		14/6/2020		-						
	Tender invitation	14/6/2020		30/6/2020		-						
	Tender award	1/7/2020		14/7/2020		-						
04SC011 - Design and Installation of Building	Submission of subletting package for acceptance	14/4/2020		30/4/2020		-						
	Acceptance of subletting package	14/5/2020		30/5/2020		-						
	Tender invitation	30/5/2020		14/6/2020		-						
	Tender award	21/6/2020		30/6/2020		-						
04SC012 - Facility Computerized Systems	Submission of subletting package for acceptance	14/5/2020		30/5/2020		-						
	Acceptance of subletting package	14/6/2020		30/6/2020		-						
	Tender invitation	1/7/2020		14/7/2020		-						
	Tender award	21/7/2020		14/8/2020		-						
<b>Plant and Materials (Marking Scheme)</b>												
PS Clause no. 6B.2.1 Inlet Pump	Submission of marking scheme for PM's acceptance (fourth draft)	1/5/2020	1/5/2020	1/9/2020	19/8/2020	Task Completed				100%		AECOM commented on 14 August 2020, Bestwise resubmitted on 19 Aug 2020.
	Submission of marking scheme for PM's acceptance	1/5/2020	1/5/2020	1/9/2020	19/8/2020	Task Completed				100%		Bestwise resubmitted on 19 Aug 2020.
	Acceptance of marking scheme by the PM	15/5/2020	20/8/2020	15/9/2020	1/9/2020	Task Completed				100%		AECOM accepted on 1 Sep 2020
	Tender invitation	29/5/2020	9/9/2020	29/9/2020	18/9/2020	Task Completed				100%		Tender invitation was conducted on 9 Sept 2020 and returned on 18 Sept 2020.
PS Clause no. 6B.2.1 Inlet Pump	Tender award	5/6/2020	19/9/2020	5/10/2020	7/10/2020	Task Completed				100%		Technical Submission Evaluation Report was submitted on 5 Oct 2020, Tender report was submitted on 7 Oct 2020. AECOM noted on 8 Oct 2020.
	Acceptance of tender award	19/6/2020	17/10/2020	19/10/2020	15/11/2020	Task Completed				-		



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**APPENDIX B**  
**MONITORING REQUIREMENTS**

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**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	<ul style="list-style-type: none"><li>• AM1 – Wai Loi Tsuen</li><li>• AM2 – Fu Tei Au</li></ul>	<ul style="list-style-type: none"><li>• AM1 – Ground Level</li><li>• AM2 – Ground Level</li></ul>
	24-hour TSP	Once every 6 days	<ul style="list-style-type: none"><li>• AM1a* – Site Boundary of the Shek Wu Hui STW (East)</li><li>• AM2a – Site Boundary of the Shek Wu Hui STW (North)</li></ul>	<ul style="list-style-type: none"><li>• AM1a* – Roof floor (about 4/F) of the control room of SWHSTW</li><li>• AM2a – Ground Level</li></ul>

**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 <sub>eq</sub> , L <sub>90</sub> & L <sub>10</sub> at 30 minute intervals during (0700 to 1900 on normal weekdays)	Once per week	<ul style="list-style-type: none"> <li>• NM1 – Wai Loi Tsuen</li> <li>• NM2 – Fu Tei Au</li> <li>• NM3 – Man Kok Village</li> </ul>	<ul style="list-style-type: none"> <li>• NM1 – Ground Level – Free Field</li> <li>• NM2 – Ground Level – Free Field</li> <li>• NM3 – Ground Level – Free Field</li> </ul>

**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.	<ul style="list-style-type: none"> <li>• Transect T1</li> <li>• Point Count Location P1</li> <li>• Point Count Location P2</li> </ul>	Along Ng Tung River	No
		<ul style="list-style-type: none"> <li>• Transect T2</li> <li>• Point Count Location P3</li> <li>• Point Count Location P4</li> </ul>		Yes
		<ul style="list-style-type: none"> <li>• Point Count Location P5</li> </ul>	At Shek Sheung River (Low –flow Channel)	No
		<ul style="list-style-type: none"> <li>• Transect T3</li> </ul>	Along Shek Sheung River & Sheung Yue River	Yes
		<ul style="list-style-type: none"> <li>• Point Count Location P6</li> </ul>	At Shek Sheung River	Yes
		<ul style="list-style-type: none"> <li>• Point Count Location P7</li> </ul>	At Interscetion between Sheung Yue River and Shek Sheung River	Yes

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**APPENDIX C  
ACTION AND LIMIT LEVELS**

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## 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.



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

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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
<b>Air Quality Impact</b>							
S2.3.1.3	<p>Dust suppression measures stipulated in the Air Pollution Control (Construction Dust) Regulation and good site practices:</p> <p>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;</p> <p>Any dusty material remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;</p> <p>A stockpile of dusty material should not be extended beyond the pedestrian barriers, fencing or traffic cones;</p> <p>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;</p> <p>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;</p> <p>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.</p> <p>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;</p>	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	<p>^</p> <p>^</p> <p>*</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p>

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
<b>Noise Impact</b>							
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 <sup>2</sup> 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
<b>Ecological Impact</b>							
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 banded. 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
<b>Water Quality Impact</b>							
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	<p>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.</p> <p>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</p>	Handling of site sewage	Contractors	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM, WPCO, EIAO	^

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
<b>Waste Management</b>							
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
<b>Landscape and Visual</b>							
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.  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.	Minimize the impact to the landscape and visual	Contractor	Work Sites	Prior to construction and construction phase		^
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	<p>MM5 - Tree Transplantation</p> <p>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.</p>	<p>Transplant Trees where suitable for transplantation</p>	<p>Designer / Contractor</p>	<p>Work Sites where possible. Otherwise consider offsite locations</p>	<p>Prior to construction, construction phase and operation phase</p>	<p>DEVB TC(W) No. 7/2015 and ETWB TCW No.2/2004</p> <p>HyD HQ/GN/13 Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit</p>	<p>Completed on 23 Sep 2020</p>
S7.3.2.1	<p>MM6 - Slope Landscaping</p> <p>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 seedings and/or shrubs should be planted where slope gradient and site conditions allow.</p> <p>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.</p>	<p>To avoid substantial slope cutting and fill slopes.</p> <p>To prevent erosion and subsequent loss of landscape resources and character.</p> <p>To ensure man-made slopes are as visually amenable as possible.</p>	<p>Designer / Contractor</p>	<p>Work Sites</p>	<p>Prior to construction, construction phase and operation phase</p>	<p>GEO Publication (1999) - Use of Vegetation as Surface Protection on Slope; GEO Publication No. 1/2011-Technical Guidelines on Landscape Treatment for Slopes</p>	<p>Completed on 28 Feb 2023</p> <p>Completed on 28 Feb 2023</p>

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.						To be commenced in Oct 2024 tentatively
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 Oct 2024 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)	Commenced in Sep 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/rectified by the contractor;
#	Recommendation was made during site audit but not yet improved/rectified by the contractor;
X	Non-compliance of mitigation measure;
●	Non-compliance but rectified by the contractor.

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**APPENDIX E**  
**SITE AUDIT SUMMARY**

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## Appendix E – Summary of Observations and Recommendations of Site Audit

Reporting Quarter: September 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
<i>Water Quality</i>	12 September 2024	The stockpile (outside site boundary) should be removed immediately.	19 September 2024	Stockpile was removed and no muddy water discharge from the exposed slope was observed.
<i>Air Quality</i>	19 September 2024	The dust material of the stockpile should be covered property.	26 September 2024	The dust material of the stockpile has been covered property.
<i>Noise</i>	N/A	There was no observation in the reporting period.	N/A	N/A
<i>Waste / Chemical Management</i>	03 September 2024	Drip tray should be provided to the chemical and oil drums.	04 September 2024	Chemical was removed
	12 September 2024	Waste tank should be cleaned regularly.	19 September 2024	Waste tank have been cleaned and no accumulation observed.
	19 September 2024	Drip tray should be provided to oil drum or chemical.	24 September 2024	The chemical was removed
	19 September 2024	Used cement bag & General Refuse should be removed or disposed of property.	24 September 2024	The used cement bag and general refuse were removed.
	24 September 2024	Oil stains in water of nearby drains should be avoided.	24 September 2024	The oil stain in the water of the nearby drain was removed.
<i>Ecology</i>	N/A	There was no observation in the reporting period.	N/A	N/A



<b>Parameters</b>	<b>Date</b>	<b>Observations and Recommendations</b>	<b>Closed Out Date</b>	<b>Follow-up</b>
<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-2 Observations and Recommendations of Site Audit of Contract No. DC/2018/07**

<b>Parameters</b>	<b>Date</b>	<b>Observations and Recommendations</b>	<b>Closed Out Date</b>	<b>Follow-up</b>
<i>Water Quality</i>	N/A	There was no observation in the reporting period.	N/A	N/A
<i>Air Quality</i>	19 September 2024	Water spaying should be provided to the haul road.	20 September 2024	Water spaying was provided to the haul road.
<i>Noise</i>	N/A	There was no observation in the reporting period.	N/A	N/A
<i>Waste / Chemical Management</i>	03 September 2024	Used cement bag should be removed or disposed of property.	12 September 2024	Used cement bag was removed
	24 September 2024	Used cement bag & General Refuse should be removed or disposed of property	03 October 2024	Used cement bag & General Refuse were removed.
<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**

<b>Parameters</b>	<b>Date</b>	<b>Observations and Recommendations</b>	<b>Closed Out Date</b>	<b>Follow-up</b>
<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**

<b>Parameters</b>	<b>Date</b>	<b>Observations and Recommendations</b>	<b>Closed Out Date</b>	<b>Follow-up</b>
<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>	24 September 2024	Accumulation of general refuse should be avoided	03 October 2024	The general refuse was removed
<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

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**APPENDIX F**  
**WASTE FLOW TABLE**

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### 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	Metals	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
<b>Sub-total</b>	<b>0.299</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.299</b>	<b>0.239</b>	<b>0.000</b>	<b>0.000</b>	<b>0.023</b>	<b>0.000</b>	<b>0.176</b>
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											
Nov											
Dec											
<b>Total</b>	<b>0.436</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.436</b>	<b>0.666</b>	<b>0.002</b>	<b>0.000</b>	<b>0.028</b>	<b>0.000</b>	<b>0.233</b>

- Notes:
1. Assume the density of soil fill is 2 ton/m<sup>3</sup>.
  2. Assume the density of rock and broken concrete is 2.5 ton/m<sup>3</sup>.
  3. Assume the density of general refuse is 0.9 ton/m<sup>3</sup>.
  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	Metals	Paper/ cardboard packaging	Plastics	Chemical Waste	Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
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
<b>Sub-total</b>	<b>5.620</b>	<b>0.000</b>	<b>0.000</b>	<b>0.155</b>	<b>5.465</b>	<b>2.462</b>	<b>0.000</b>	<b>0.000</b>	<b>0.026</b>	<b>0.000</b>	<b>1.004</b>
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	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
Nov	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
Dec	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
<b>Total</b>	<b>9.167</b>	<b>0.000</b>	<b>0.000</b>	<b>0.581</b>	<b>8.586</b>	<b>3.781</b>	<b>0.000</b>	<b>0.000</b>	<b>0.029</b>	<b>0.000</b>	<b>1.341</b>

- Notes:
1. Assume the density of soil fill and special waste (i.e. sediment from DSD sedimentation tank) is 2 ton/m<sup>3</sup>.
  2. Assume the density of rock and broken concrete is 2.5 ton/m<sup>3</sup>
  3. Assume the density of general refuse is 0.9 ton/m<sup>3</sup>
  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

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 '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
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											
Nov											
Dec											
Total	0	0	0	0	0	0	24.285	0.932	0.037	0	262.6T



**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											
Nov											
Dec											
Total	39.87	0	0	0	39.87	0	0	0	0	0	32.88

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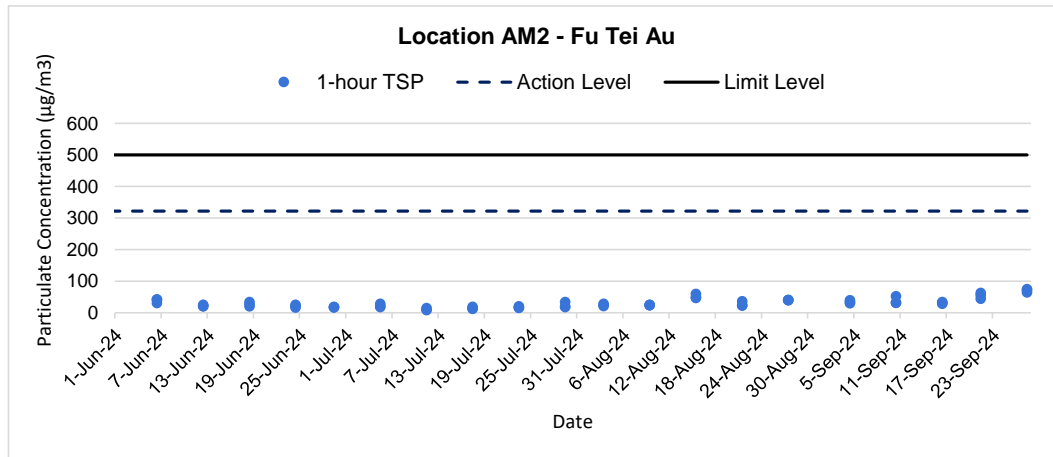
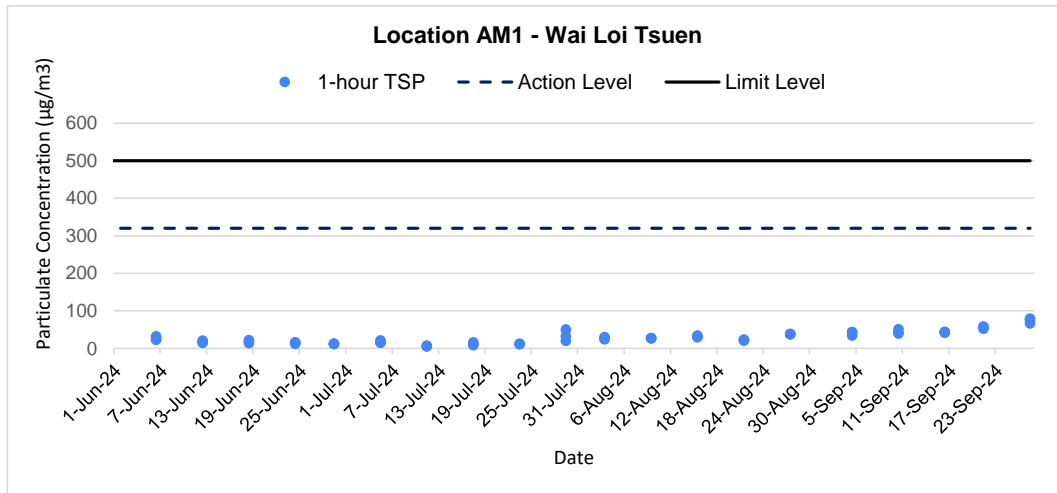
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**APPENDIX G  
GRAPHICAL PRESENTATIONS OF AIR  
QUALITY MONITORING RESULTS (1-  
HOUR)**

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### 1-hr TSP Concentration Levels



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

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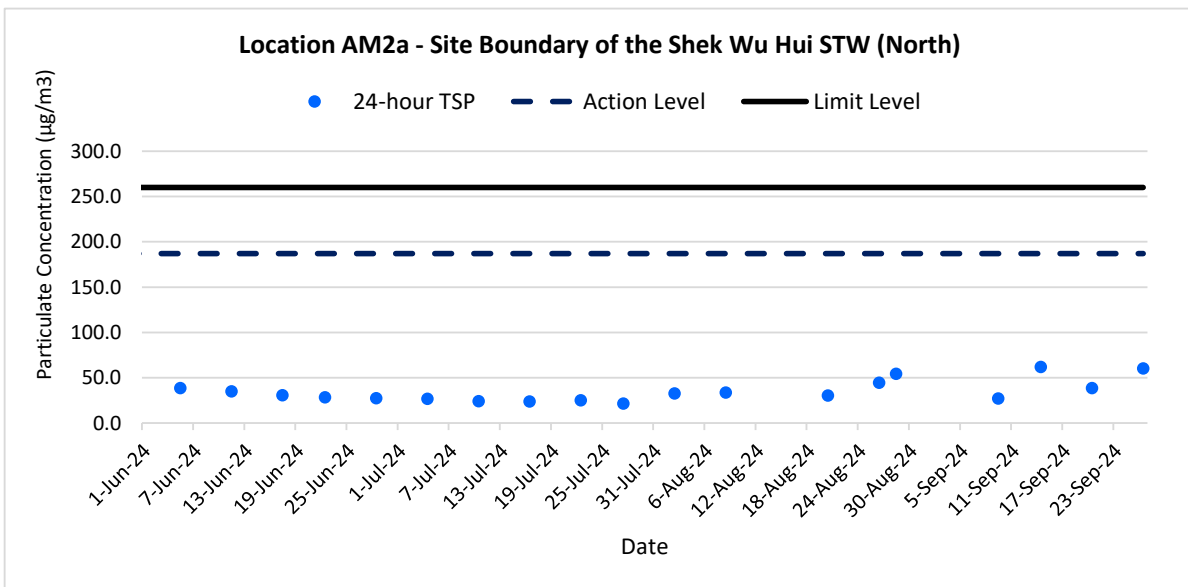
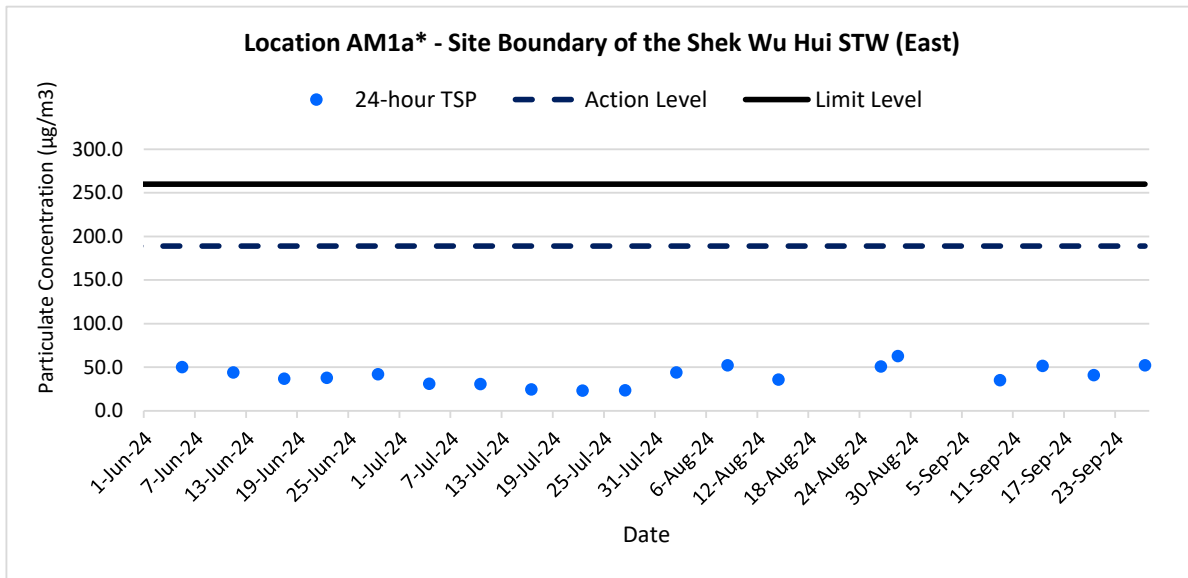
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**APPENDIX H  
GRAPHICAL PRESENTATIONS OF AIR  
QUALITY MONITORING RESULTS (24-  
HOUR)**

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## 24-hr TSP Concentration Levels



Remark(1): Due to the DSD's unaccepted approval for access to the plant working area by 03 September 2024, the 24hrs TSP monitoring at AM1a & AM2a on 03 September 2024 was suspended.

Remark(2): Due to the typhoon factor, the installation of the HVS sampler and 24hrs TSP monitoring at Location AM1a & AM2a was postponed to be conducted on 09 September 2024.

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

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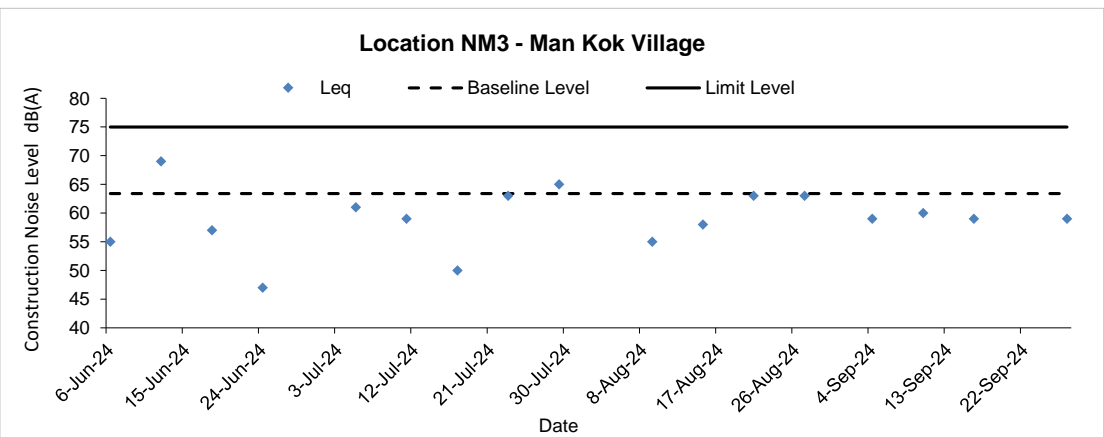
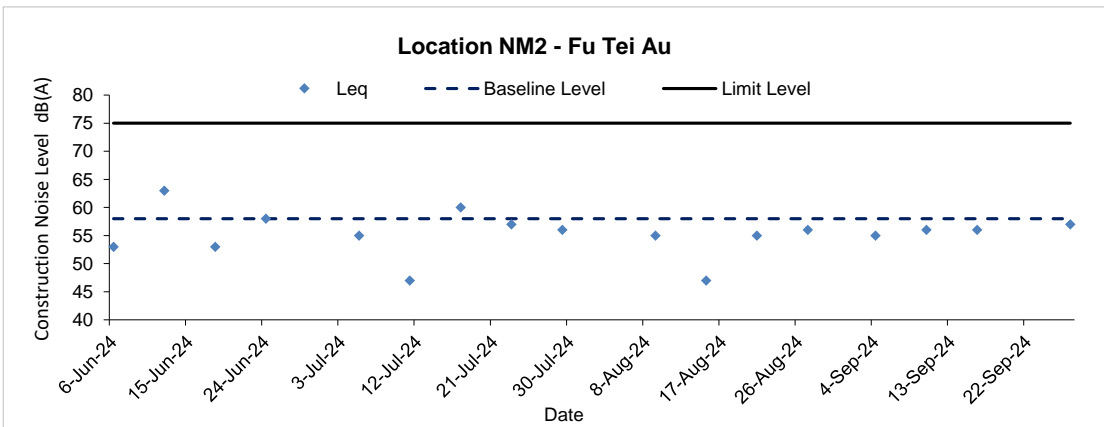
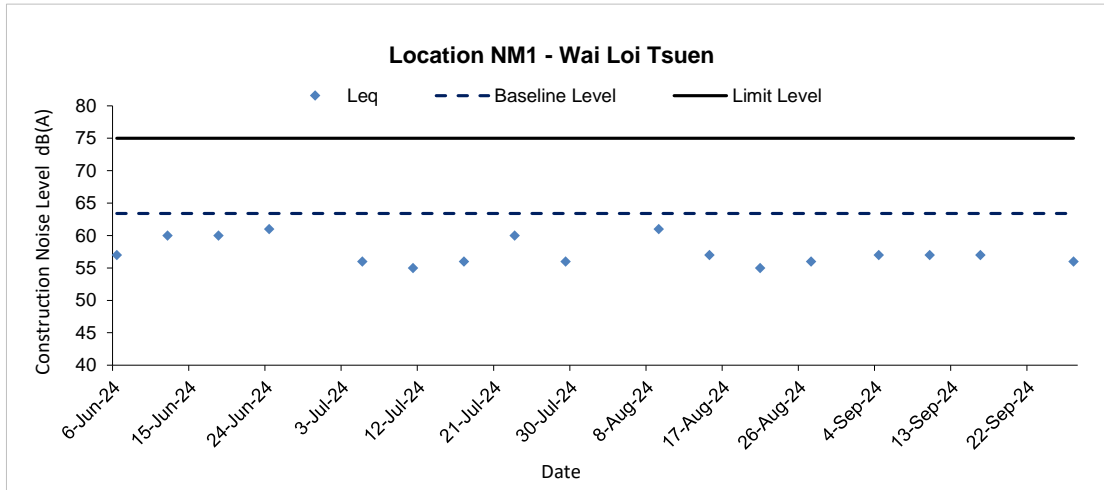
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**APPENDIX I  
GRAPHICAL PRESENTATIONS OF  
NOISE MONITORING RESULTS**

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## Noise Levels



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

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**APPENDIX J  
SUMMARY OF ECOLOGICAL  
MONITORING ANALYSIS**

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

**Appendix J – Summary of Ecology Monitoring Analysis**

**Reporting Quarter:** September 2024

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

T-values of Data*		Confidence Level	
		95%	99%
Sept 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	September 2024
<i>Egretta garzetta</i>	Little Egret	小白鷺	✓
<i>Ardea cinerea</i>	Grey Heron	蒼鷺	N/A*
<i>Ardeola bacchus</i>	Chinese Pond Heron	池鷺	✓
<i>Phalacrocorax carbo</i>	Great Cormorant	普通鸕鶿	N/A*
<i>Ardea alba</i>	Great Egret	大白鷺	✓
<i>Bubulcus coromandus</i>	Eastern Cattle Egret	牛背鷺	✓

Remarks:

\* Great Cormorant (*Phalacrocorax carbo*) and Grey Heron (*Ardea cinerea*) were not recognised as representative waterbird species during Summer.

✓ = 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.

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**APPENDIX K  
SUMMARY OF EXCEEDANCES**

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

**Appendix K – Summary of Exceedance**

**Reporting Quarter:** September 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)

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

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**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 Month: September 2024**

<b>Log Ref.</b>	<b>Location</b>	<b>Received From and Received By</b>	<b>Received Date</b>	<b>Details of Complaint/Warning/Summon and Prosecution</b>	<b>Investigation/Mitigation Action</b>	<b>Status</b>
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	<ul style="list-style-type: none"> <li>• Employed suction truck and dump truck to clear the silt and mud at Shek Sheung River</li> <li>• Arranged to repair the wastewater treatment system</li> <li>• Installed additional sedimentation tanks and wastewater treatment system to increase the on-site treatment capacity</li> <li>• Clean the slurry sediment released from the outlet regularly by suction trucks</li> <li>• Avoid damage of underground drains and pipes caused by existing construction works</li> <li>• Avoid illegal discharge from the Site into foul drains and manholes</li> </ul>	Closed
2	SWHEPP	EPD	19 February 2021	Significant odour nuisance was suspected to be emitted from the construction activities of SWHEPP	<ul style="list-style-type: none"> <li>• Ensured only PMEs with valid NRMM label were used on-site</li> <li>• Conducted regular visual checking against emission quality of exhaust pipe of equipment by using the Ringlemann Chart</li> <li>• Used ULSD for diesel-powered equipment</li> <li>• Provided water spraying and water sprinklers system</li> </ul>	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 <ul style="list-style-type: none"> <li>• Used battery powered solution to provide power to the tower crane</li> <li>• Provided cover for all rubbish bins on-site</li> <li>• Separated general refuse from construction waste</li> </ul>	
3	SWHEPP	EPD	9 August 2021	Air nuisance was suspected to be originated from the construction activities of SWHEPP	<ul style="list-style-type: none"> <li>• Ensured only PMEs with valid NRMM label were used on-site</li> <li>• Conducted regular visual checking against emission quality of exhaust pipe of equipment by using the Ringlemann Chart</li> <li>• Used ULSD for diesel-powered equipment</li> <li>• Used battery powered solution to provide power to the tower crane</li> <li>• Carried out plant maintenance in a timely manner</li> </ul>	Closed

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.	<p>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:</p> <ul style="list-style-type: none"> <li>• Ensure only equipment with valid NRMM label is allowed to be used at site and regular maintenance of equipment</li> <li>• Provide regular visual checking against emission quality of exhaust pipe of equipment by using the Ringelmann Chart</li> <li>• Use ULSD as fuel for diesel-powered equipment</li> <li>• Maintain proper segregation and storage of general refuse</li> </ul>	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.	<p>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.</p> <p>For the illegal discharge issue, ET did not observed the</p>	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
					<p>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.</p> <p>After the receipt of the complaint, Contractor of DC/2018/07 has taken the following actions:</p> <ul style="list-style-type: none"> <li>• Provision of effective dust screening or netting to enclose the scaffolding of building under construction .</li> <li>• All wastewater generated on site should be properly treated before discharge.</li> </ul> <p>ET also reminded all Contractors to implement the following measures:</p> <ul style="list-style-type: none"> <li>• Regular maintenance of sedimentation tanks and Wetsep to ensure their effectiveness for treating wastewater generated on site.</li> <li>• Provision of sandbags, bunds or other effective measures to U-channels, manholes and gully to</li> </ul>	

**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 <ul style="list-style-type: none"> <li>• 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.</li> </ul>	

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

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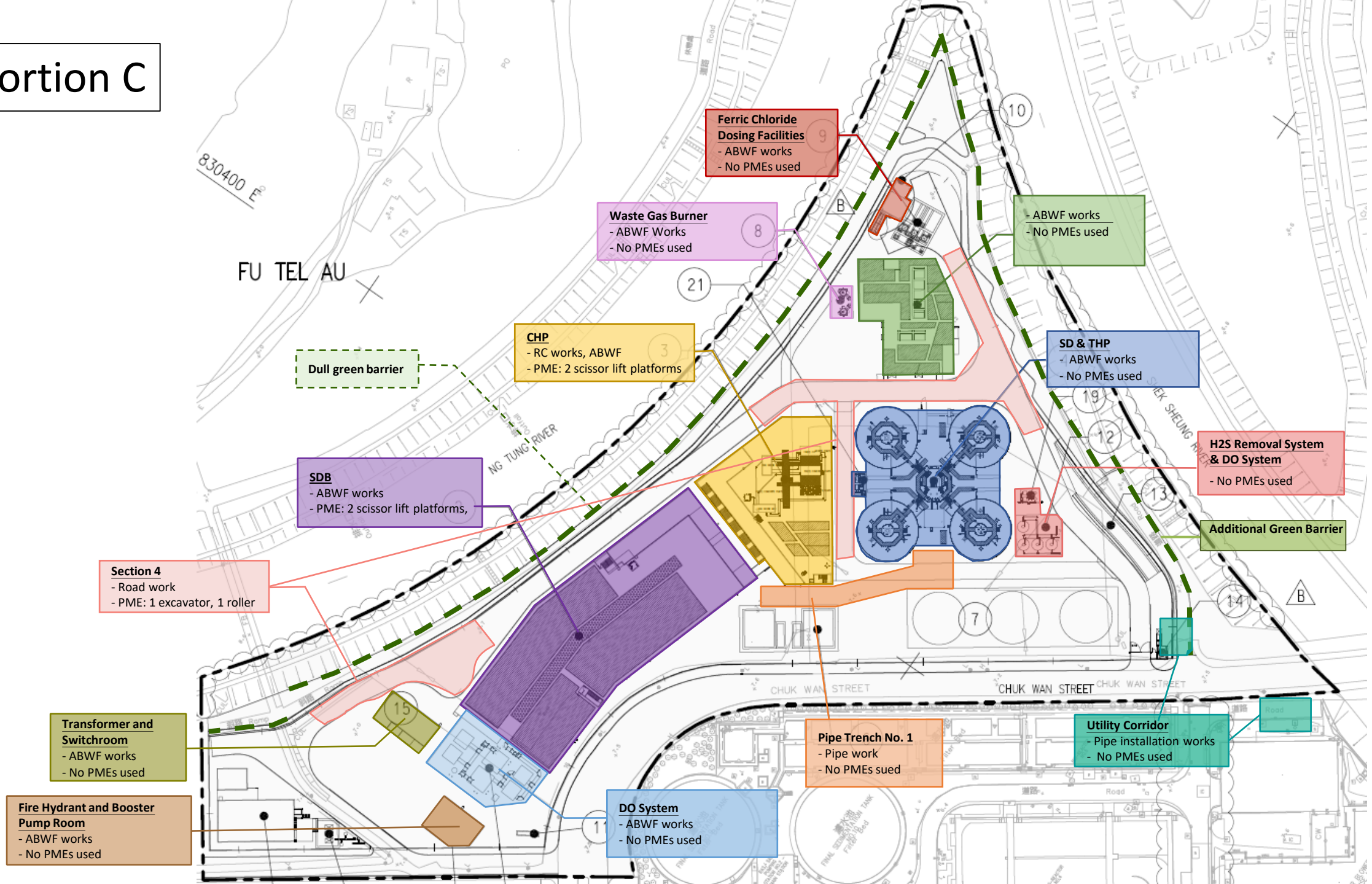
**APPENDIX M  
LAYOUT PLANS OF CONSTRUCTION  
ACTIVITIES AND SITE RECORD  
PHOTOS**

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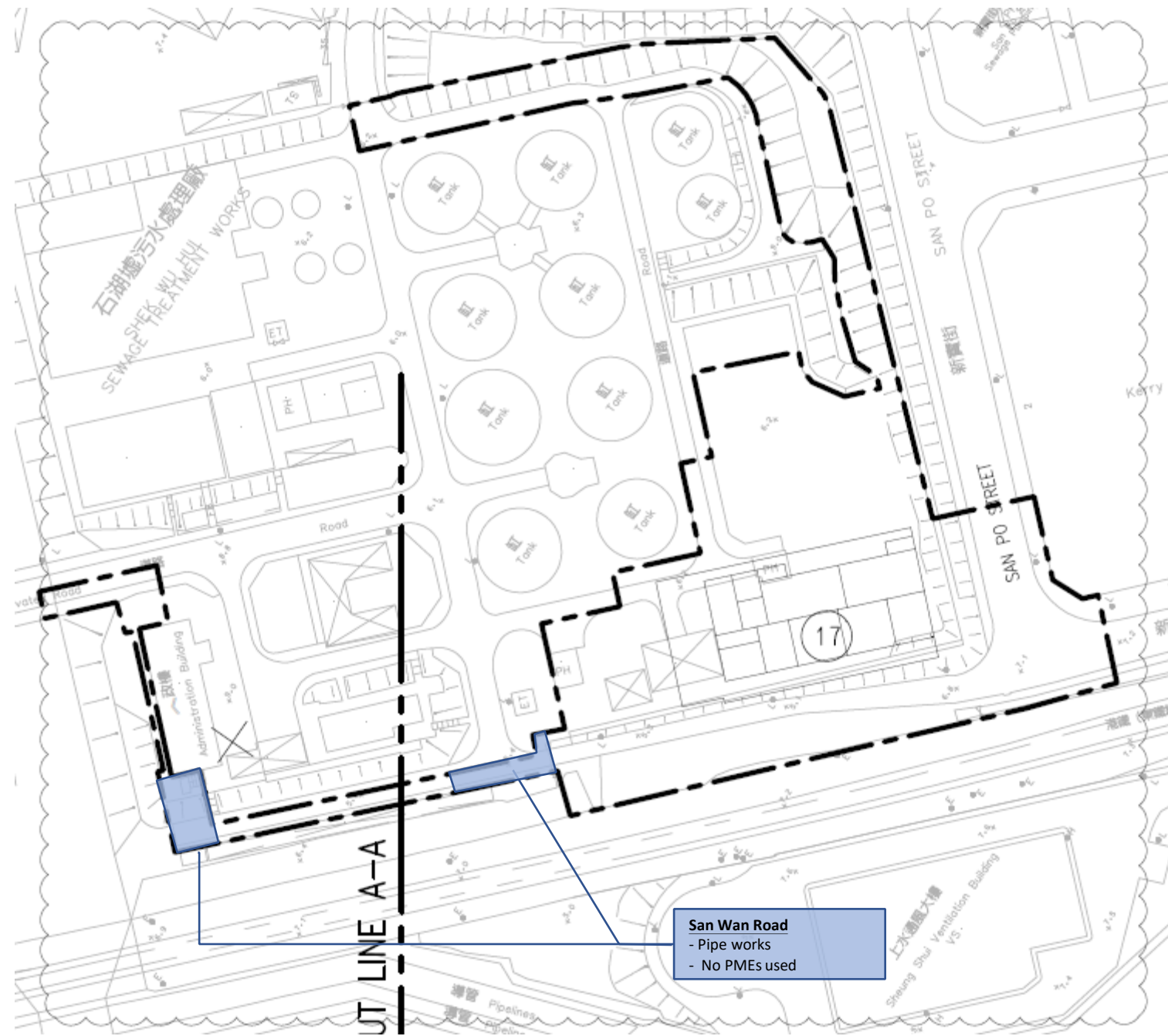
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September 2024

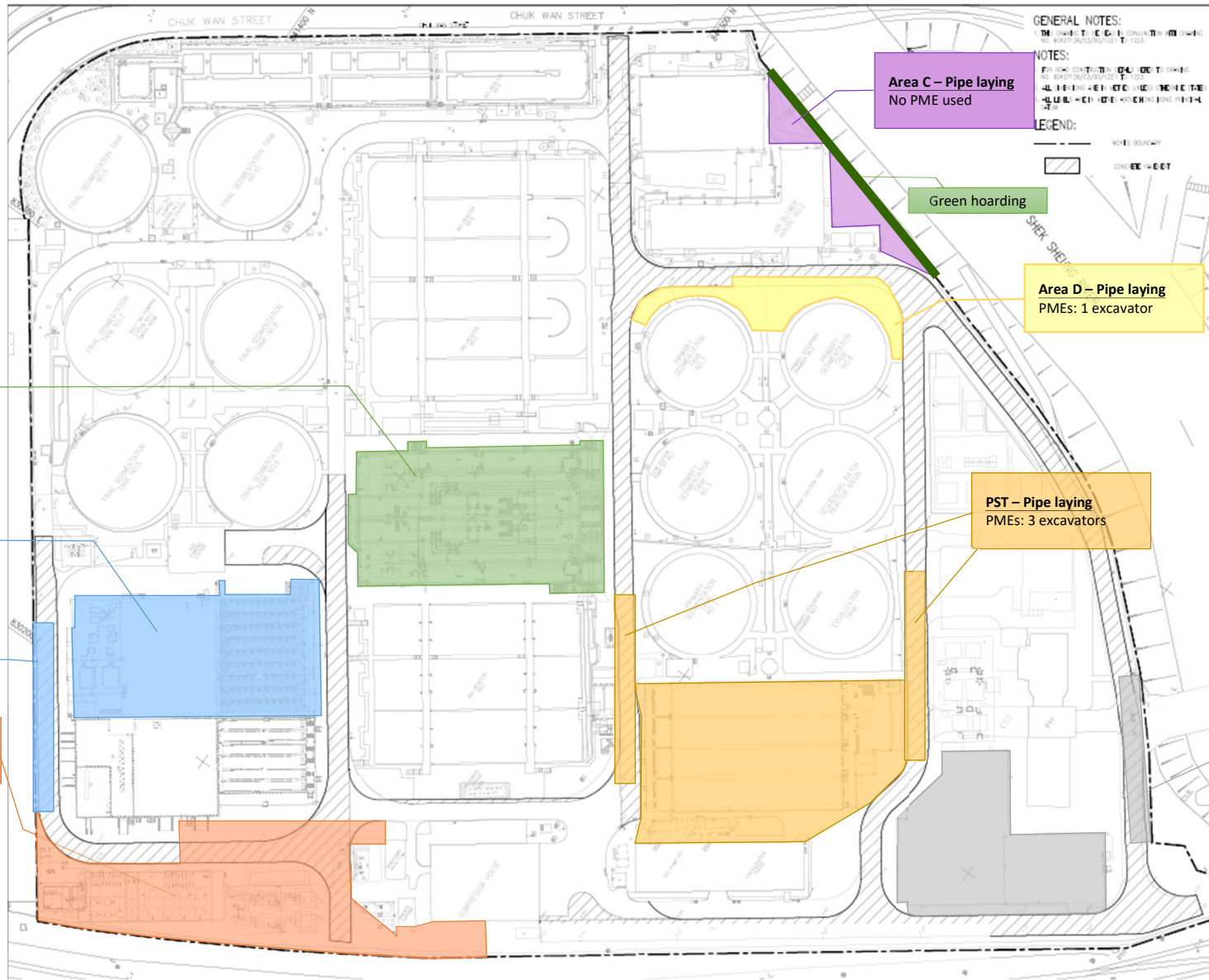
# Portion C



# Portion A



# Portion B



**BR2 – RC works,  
cement paint finish**  
No PME used

**MFB – RC works, cement  
paint finish**  
No PME used

**MFB - Pipe laying**  
PMEs: 2 excavators

**SAS Pipe laying**  
PMEs: 2 excavators

**Area C – Pipe laying**  
No PME used

**Green hoarding**

**Area D – Pipe laying**  
PMEs: 1 excavator

**PST – Pipe laying**  
PMEs: 3 excavators

**Inlet – Pipe laying**  
PMEs: 1 excavator

**GENERAL NOTES:**  
1. THE DRAWING IS FOR INFORMATION ONLY.  
2. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.  
3. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.

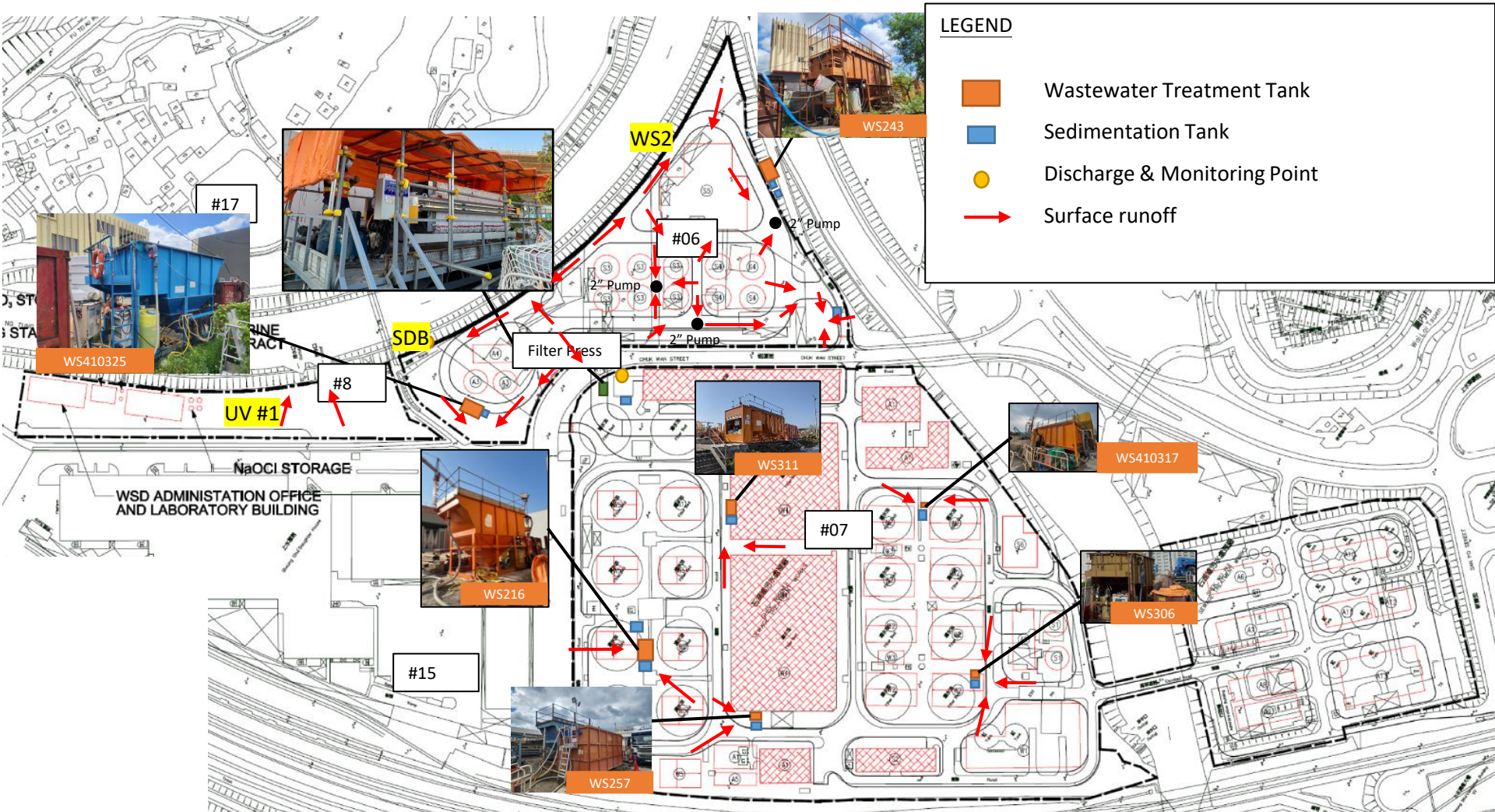
**NOTES:**  
1. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.  
2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.

**LEGEND:**  
WORK BOUNDARY  
CONCRETE FOOT

# Project: DC/2018/06 & 07

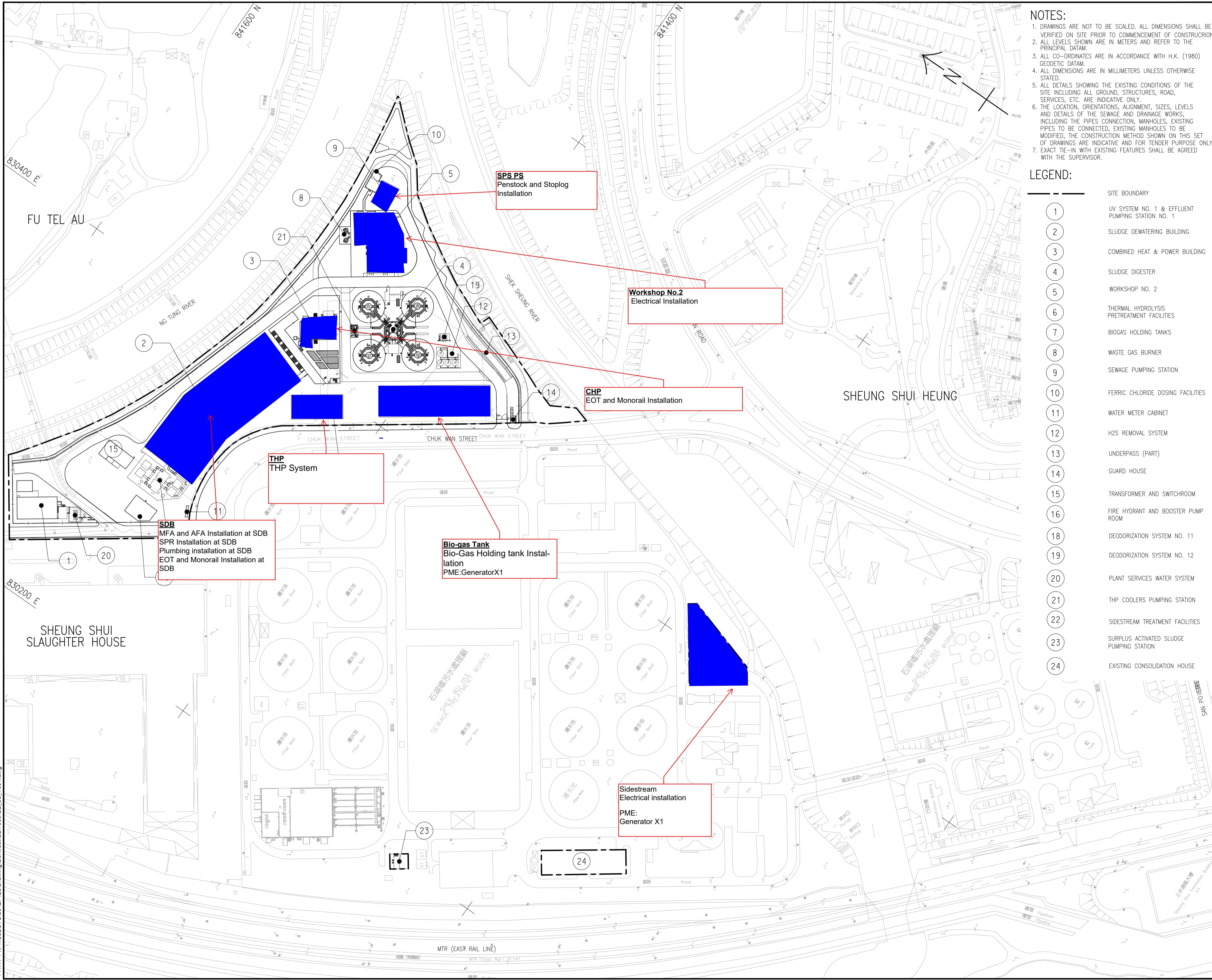
## Location of Wastewater Treatment Facilities (Updated in Jul 24)

### 地盤廢水處理設施流程圖





Plot File by: GuoX 26/03/2019  
 PATH: P:\PROJECTS\60427128\Drawing\Contract\C21000\C2\_00\_1001.dwg  
 Project Management Initials: Designer: KYTM Checked: TLST Approved: ELIM  
 ISO A1 594mm x 841mm



- NOTES:**
1. DRAWINGS ARE NOT TO BE SCALED. ALL DIMENSIONS SHALL BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
  2. ALL LEVELS SHOWN ARE IN METERS AND REFER TO THE PRINCIPAL DATUM.
  3. ALL CO-ORDINATES ARE IN ACCORDANCE WITH H.K. (1980) GEODETIC DATUM.
  4. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
  5. ALL DETAILS SHOWING THE EXISTING CONDITIONS OF THE SITE INCLUDING ALL GROUND, STRUCTURES, ROAD, SERVICES, ETC. ARE INDICATIVE ONLY.
  6. THE LOCATION, ORIENTATIONS, ALIGNMENT, SIZES, LEVELS AND DETAILS OF THE SEWAGE AND DRAINAGE WORKS, INCLUDING THE PIPES CONNECTION, MANHOLES, EXISTING PIPES TO BE CONNECTED, EXISTING MANHOLES TO BE MODIFIED, THE CONSTRUCTION METHOD SHOWN ON THIS SET OF DRAWINGS ARE INDICATIVE AND FOR TENDER PURPOSE ONLY.
  7. EXACT TIE-IN WITH EXISTING FEATURES SHALL BE AGREED WITH THE SUPERVISOR.

- LEGEND:**
- ① SITE BOUNDARY
  - ② UV SYSTEM NO. 1 & EFFLUENT PUMPING STATION NO. 1
  - ③ SLUDGE DEWATERING BUILDING
  - ④ COMBINED HEAT & POWER BUILDING
  - ⑤ SLUDGE DIGESTER
  - ⑥ WORKSHOP NO. 2
  - ⑦ THERMAL HYDROLYSIS PRETREATMENT FACILITIES
  - ⑧ BIOGAS HOLDING TANKS
  - ⑨ WASTE GAS BURNER
  - ⑩ SEWAGE PUMPING STATION
  - ⑪ FERRIC CHLORIDE DOSING FACILITIES
  - ⑫ WATER METER CABINET
  - ⑬ H2S REMOVAL SYSTEM
  - ⑭ UNDERPASS (PART)
  - ⑮ GUARD HOUSE
  - ⑯ TRANSFORMER AND SWITCHROOM
  - ⑰ 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



**PROJECT**  
 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**  
 渠務署  
 Drainage Services Department

**CONSULTANT**  
 AECOM Asia Company Ltd.  
 www.aecom.com

**SUB-CONSULTANTS**  
 分判工程師有限公司

**ISSUE/REVISION**

NO.	DATE	DESCRIPTION	CHK.
1	MAR. 19	TENDER DRAWING	TLST

**STATUS**  
 預備

**SCALE**  
 A1 1:1000

**DIMENSION UNIT**  
 METRES

**KEY PLAN**  
 索引圖

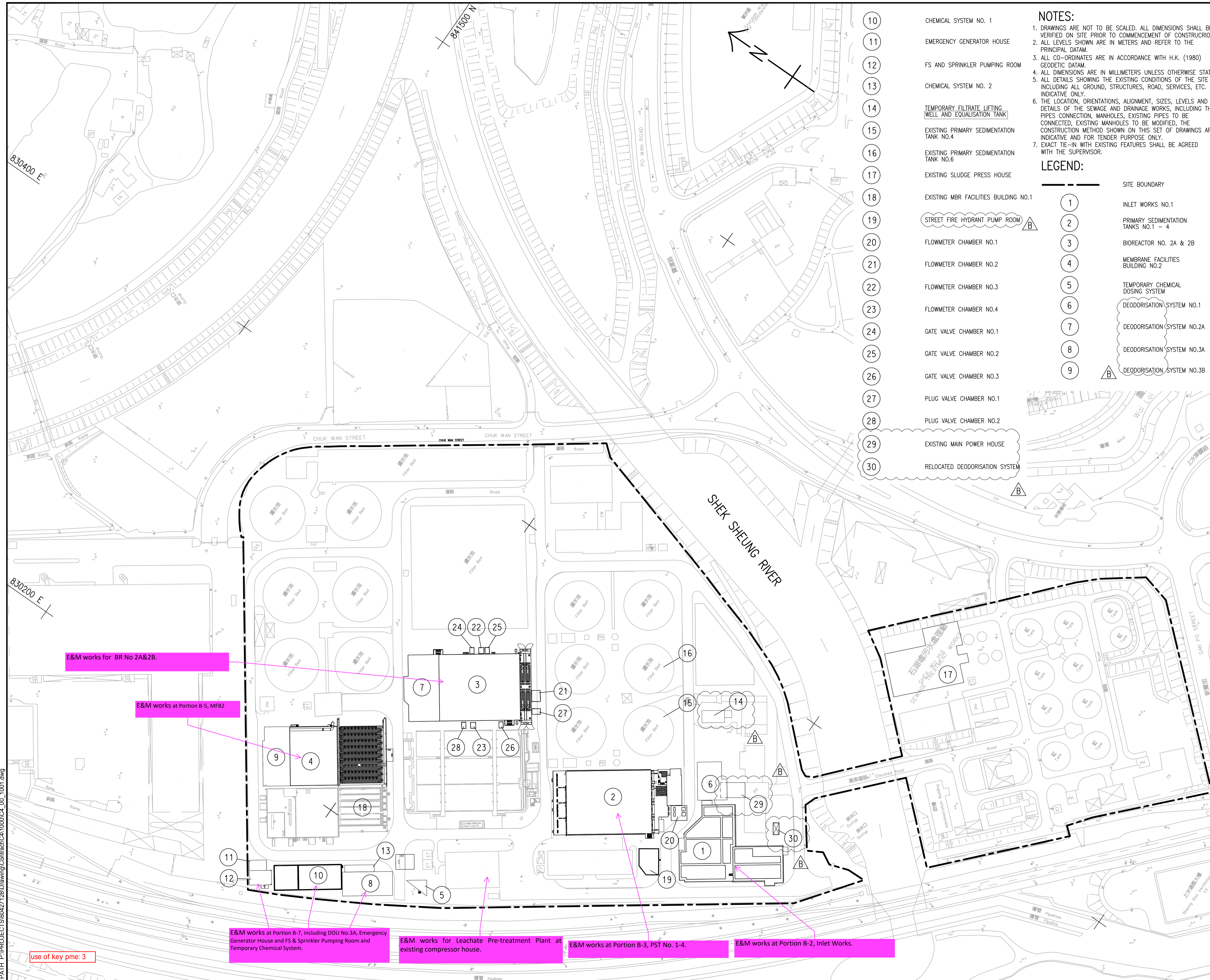
**PROJECT NO.**  
 項目編號  
 60427128

**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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- 10 CHEMICAL SYSTEM NO. 1
- 11 EMERGENCY GENERATOR HOUSE
- 12 FS AND SPRINKLER PUMPING ROOM
- 13 CHEMICAL SYSTEM NO. 2
- 14 TEMPORARY FILTRATE LIFTING WELL AND EQUALISATION TANK
- 15 EXISTING PRIMARY SEDIMENTATION TANK NO.4
- 16 EXISTING PRIMARY SEDIMENTATION TANK NO.6
- 17 EXISTING SLUDGE PRESS HOUSE
- 18 EXISTING MBR FACILITIES BUILDING NO.1
- 19 STREET FIRE HYDRANT PUMP ROOM
- 20 FLOWMETER CHAMBER NO.1
- 21 FLOWMETER CHAMBER NO.2
- 22 FLOWMETER CHAMBER NO.3
- 23 FLOWMETER CHAMBER NO.4
- 24 GATE VALVE CHAMBER NO.1
- 25 GATE VALVE CHAMBER NO.2
- 26 GATE VALVE CHAMBER NO.3
- 27 PLUG VALVE CHAMBER NO.1
- 28 PLUG VALVE CHAMBER NO.2
- 29 EXISTING MAIN POWER HOUSE
- 30 RELOCATED DEODORISATION SYSTEM

**NOTES:**

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

**AECOM**

**PROJECT**  
 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**  
 渠務署  
 Drainage Services Department

**CONSULTANT**  
 土亞顧問公司  
 AECOM Asia Company Ltd.  
 www.aecom.com

**SUB-CONSULTANTS**  
 分判工程師有限公司

**ISSUE/REVISION**

REV	DATE	DESCRIPTION	CHK.
B	AUG. 19	TENDER ADDENDUM NO. 3	TLST
A	JUL. 19	TENDER ADDENDUM NO. 2	TLST
-	APR. 19	TENDER DRAWING	TLST

**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

E&M works for BR No 2A&2B.

E&M works at Portion B-5, MF82

E&M works at Portion B-7, including DOU No.3A, Emergency Generator House and FS & Sprinkler Pumping Room and Temporary Chemical System.

E&M works for Leachate Pre-treatment Plant at existing compressor house.

E&M works at Portion B-3, PST No. 1-4.

E&M works at Portion B-2, Inlet Works.

use of key pme: 3

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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 - H<sub>2</sub>O Removal System & DO System



# Site Record Photos and the Photographs of Monitoring Stations

DC/2018/07 – BR2



DC/2018/07 - PST



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

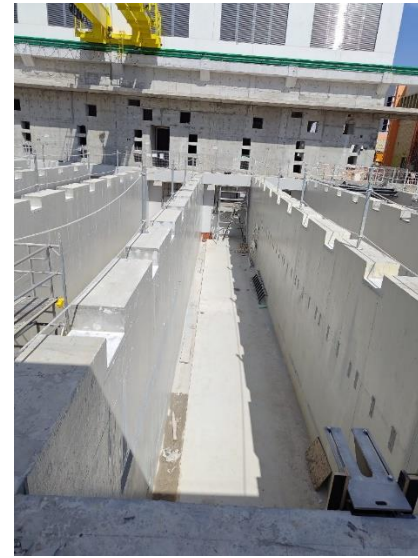


**Site Record Photos and the Photographs of Monitoring Stations**

DE/2018/04 –Compressor House



DE/2018/04 - MFB2



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)

