



CONTRACT NO. SPW 12/2021

SHEK WU HUI EFFLUENT POLISHING PLANT – MAIN WORK

**UNDER FURTHER ENVIRONMENTAL PERMIT NO. FEP-
02/474/2013**

**QUARTERLY ENVIRONMENTAL MONITORING & AUDIT
REPORT**

- JULY TO SEPTEMBER 2023 -

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Contract No. SPW 13/2021

Shek Wu Hui Effluent Polishing Plant – Main Work

Quarterly Environmental Monitoring & Audit Report

July to September 2023

(January 2024)

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EXECUTIVE SUMMARY

- i. This is the Quarterly Environmental Monitoring and Audit (EM&A) Report – [July to September 2023](#) of Shek Wu Hui Effluent Polishing Plant – Main Work under Further Environmental Permit no. FEP-02/474/2013 (Hereafter as “the Project”). This is the 9th EM&A quarterly report prepared by Environmental Team under Contract No. SPW 12/2021, presenting the environmental monitoring findings and information recorded during the period of [1 July 2023 to 30 September 2023](#).

Construction Activities for the Reporting Quarter

- ii. During this reporting period, the principal work activities of individual contracts are summed up in **Table I**.

Table I *Summary table of principal work activities in the reporting period*

Contract No.	Contract Title	Month / Year	Principal work activities
DC/2018/06	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sludge Treatment Facilities and 132kV Primary Substation	July to September 2023	• RC works • Pipe jacking • Sewage, utility and pipe works • Road works • ABWF works • ELS
DC/2018/07	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sewage Treatment Facilities	July to September 2023	• RC works • ABWF works • Pipe laying
DE/2018/03	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities	July to September 2023	• Construction of Superstructure • Electrical Installation • MVAC Installation • Plumbing System Installation • MFA and AFA installation • SPR Installation • EOT and Monorail Installation • Bio-Gas Holding Tank Installation • Genset Installation • Transportation and Installation of THP System • Penstock and Stoplog Installation

			- Pipework Installation - Draft Tube Mixer Installation
DE/2018/04	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - E&M Works for Sewage Treatment Facilities	July 2023	- Improvement Works for Temporary Primary Sludge Thickener and its accessories - E&M works for Leachate Pre-treatment Plant at existing compressor house and BR No 3&4. - E&M works at Portion B-5, MFB2. - E&M works at Portion B-7, including DOU No.3A, Emergency Generator House and FS & Sprinkler Pumping Room, Chemical System No.1, Street Fire Hydrant & Booster Pump Room and Temporary Chemical System
		August 2023	- Improvement Works for Temporary Primary Sludge Thickener and its accessories - E&M works for Leachate Pre-treatment Plant at existing compressor house and BR No 3&4. - E&M works at Portion B-5, MFB1&2. - E&M works at Portion B-7, including DOU No.3A, Emergency Generator House and FS & Sprinkler Pumping Room, Chemical System No.1, Street Fire Hydrant & Booster Pump Room and Temporary Chemical System
		September 2023	- Improvement Works for Temporary Primary Sludge Thickener and its accessories - E&M works for Leachate Pre-treatment Plant at existing compressor house, BR No 3&4 and MFB1 - E&M works at Portion B-5, MFB2. - E&M works at Portion B-7, including

			DOU No.3A, Emergency Generator House and FS & Sprinkler Pumping Room, Chemical System No.1, Street Fire Hydrant & Booster Pump Room and Temporary Chemical System
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iii. Implementation of the key mitigation measures during the reporting quarter

Table II Summary table of key mitigation measures implemented in the reporting period according to the contract no.

Contract No. DC/2018/06		
July 2023	Air Quality	Dust mitigation measures should be provided to the stockpile.
	Water Quality	Stockpile near Ng Tung River should be cover by impervious sheeting to prevent site runoff.
	Air Quality	Dust suppression measures should be provided to the idled stockpile near Gate 4.
August 2023	Ecological	Contractor should keep the green barrier intact.
	Waste Management	Contractor was reminded to clean up the refuse regularly.
September 2023	Water Quality	Protection should be provided to the U-channel to prevent discharge of muddy water.
	Water Quality	Contractor was reminded to maintain the effectiveness of the concrete bund to prevent discharge of site runoff.
	Ecological	The dull green barrier should be kept intact.
	Waste Management	Contractor should clean up the oil spillage of the cherry picker, the cleanup materials should be dispose as chemical waste.
	Air Quality	Dust suppression measures should be provided to the idled stockpile.
	Air Quality	Dust suppression measures should be provided to the idled stockpile.
	Water Quality	The Contractor was reminded to prevent discharge of site runoff to the U-channel.
Contract No. DC/2018/07		
July 2023	Air Quality	Contractor should clean up the dust deposited on the public haul road.
	Air Quality	Dust suppression measures should be provided to the idled stockpile near Inlet.
	Landscape	Broken tree branch was observed on a tree near Inlet. It was suspected that the damage was done by the long arm excavator nearby. Contractor was reminded to maintain the tree protection zone to avoid damage to the tree.

August 2023	Air Quality	Dust suppression measure should be provided to the stockpile near sidestream.
	Water Quality	Treated effluent in the Wetsep was observed turbid. Contractor should maintain the performance of the Wetsep.
	Water Quality	Treated effluent of the Wetsep near MFB2 was observed turbid. Contractor should maintain the performance of the Wetsep.
	Landscape	Materials should not be stored in the tree protection zone.
September 2023	-	-
Contract No. DE/2018/03		
July 2023	Air Quality	Contractor was reminded to replace the faded NRMM label on the generator at sidestream.
August 2023	Waste Management	Contractor should clean up the diesel spillage properly, the clean-up materials should dispose as chemical waste.
	Waste Management	Contractor was reminded to clean up the waste skip regularly.
September 2023	-	-
Contract No. DE/2018/04		
July 2023	Waste Management	Contractor was reminded to separate the C&D waste and general waste and cover the idled waste skip.
August 2023	-	-
September 2023	-	-

Summary of Exceedances, Investigation and Follow-up

Noise Monitoring

- iv. Noise monitoring were conducted at noise monitoring stations namely, NM1 – G/F, Wai Loi Tsuen, NM2 – G/F, Fu Tei Au, and NM3 – G/F, Man Kok Village on a weekly basis in the reporting period.
- v. No action or limit level exceedance was recorded in this reporting quarter.
- vi. Noise monitoring scheduled on 8th September 2023 was cancelled due to rainfall on 8th and 9th September 2023.

Air Quality Monitoring

- vii. 1-hour Total Suspended Particulates (TSP) monitoring was conducted at air quality monitoring stations namely, AM1 – Wai Loi Tsuen and AM2 – Fu Tei Au; 24-hour TSP monitoring was conducted at air quality monitoring stations namely, AM1a* – Site boundary of the Shek Wu Hui STW (East), Roof floor of the control room of SWHSTW and AM2a – Site Boundary of the Shek Wu Hui STW (North). 24-hour TSP shall be sampled at least once in every 6 days, while sampling for 1-hour TSP shall be at least 3 times in every 6 day in the reporting month.
- viii. Due to power failure, 24 hr TSP AQM scheduled on 21 Aug 2023 at both AM1a* and AM2a were suspended. While the 24 hr TSP AQM has been resumed on 22 Aug 2023 at AM1a*, the one at AM2a was still suspended during the rest of the reporting period due to the instability of power supply.
- ix. No action or limit level exceedance was recorded in this reporting quarter.

Ecological Monitoring

- x. Ecological monitoring conducted on a weekly basis at both high and low tides (it is considered high tide when tidal levels are above 1.5m and low tide when tidal level are below 1.5m at Tsim Bei Tsui Station). The magnitude of how much above or below 1.5m was subject to tidal conditions of that week as it varied throughout different times of the year. Nonetheless, the high and low tide relative to that week's tidal condition were taken into consideration.
- xi. No action or limit level exceedance was triggered in this reporting quarter.
- xii. Ecological monitoring scheduled on 24th August 2023 was rescheduled to 30 Aug 2023 due to COVID infection of surveyor.

Table III Summary table of non-compliance (exceedances) in the reporting period

Parameter	No. of Exceedance		Investigation result
	Action Level	Limit Level	
July 2023			
Air Quality (1-hour TSP)	0	0	-
Air Quality (24-hour TSP)	0	0	-
Noise	0	0	-
Ecology	0	0	-
August 2023			
Air Quality (1-hour TSP)	0	0	-
Air Quality (24-hour TSP)	0	0	-

Noise	0	0	-
Ecology	0	0	-
September 2023			
Air Quality (1-hour TSP)	0	0	-
Air Quality (24-hour TSP)	0	0	-
Noise	0	0	-
Ecology	0	0	-

Complaints, Notifications of Summons and Successful Prosecutions

- i. No environmental complaints, notification of summons and successful prosecution regarding the construction works was recorded in the reporting quarter.

Table IV Summary table of complaints, summons and successful prosecutions in the reporting period

Events	Number	Brief description	Follow up and remedial actions	Status and remarks
Complaints	0	-	-	-
Notification of Summons and Successful Prosecution	0	-	-	-

Reporting Changes

- ii. There are no particular reporting changes in the reporting period.

Future Key Issues

- iii. In the next reporting period, the principal work activities of individual contracts are anticipated as follows.

Table V Summary table of anticipated work activities in the next reporting period

Contract No. DC/2018/06
• RC works • Pipe jacking • Sewage, utility and pipe works • Road works • ABWF works • ELS
Contract No. DC/2018/07
• RC works • ABWF works • Pipe laying
Contract No. DE/2018/03
• Construction of Superstructure • Electrical Installation • MVAC Installation • Plumbing System Installation • MFA and AFA installation • SPR Installation • EOT and Monorail Installation • Bio-Gas Holding Tank Installation • Transportation and Installation of Steam Boiler System • Transportation and Installation of THP System • Penstock and Stoplog Installation • Pipework Installation • Draft Tube Mixer Installation
Contract No. DE/2018/04
• Improvement works for Temporary Primary Sludge Thickener and its accessories. • E&M & civil works for Leachate Pre-treatment Plant at existing compressor house, BR No 3&4 and MFB1 • E&M works at Portion B-5, MFB2. • E&M works at Portion B-7, including DOU No.3A, Emergency Generator House and FS & Sprinkler Pumping Room, Chemical System No.1, Street Fire Hydrant & Booster Pump Room and Temporary Chemical System.



- E&M works at Portion B-4, BR 2A & 2B.
- E&M works at Portion B-2, Inlet Works.

1 Introduction

1.1 Scope of the Report

- 1.1.1. Lam Environmental Services Limited (LES) has been appointed to work as the Environmental Team (ET) under Environmental Permit (EP) No. FEP-02/474/2013 to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for North East New Territories New Development Areas (Register No.: AEIAR-175/2013).

1.2 Structure of the Report

- Section 1 *Introduction*** – details the scope and structure of the report.
- Section 2 *Project Background*** – summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.
- Section 3 *Environmental Monitoring and Audit Requirements*** – summarizes all monitoring parameters and methodology, no. of exceedances, influencing factors on the monitoring results.
- Section 4 *Compliance Audit*** – summarizes the auditing of monitoring results, all exceedances environmental parameters.
- Section 5 *Complaints, Notification of Summons and Prosecution*** – summarizes the cumulative statistics on complaints, notification of summons and prosecution.
- Section 6 *Comments, Conclusion and Recommendations*** – summarizes monitoring methodology, the effectiveness of EM&A Programme and mitigation measures, and recommendations based on findings during site audits.

2 Project Background

2.1 Background

2.1.1. The existing Shek Wu Hui Sewage Treatment Works (SWHSTW) has been operating and maintaining for 30 years 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 years. In 1984, Stage I of SWHSTW was commissioned with design capacity of 60,000 cubic meters per day (m^3 /day) at Average Dry Weather Flow (ADWF). In 2001, Stage II of SWHSTW was completed with design capacity enhanced to 80,000 m^3 /day at ADWF. In 2009, the expansion of SWHSTW was completed and its design capacity was increased to 93,000 m^3 /day at ADWF.

2.1.2. Further expansion of SWHSTW has been planned to be carried out in order to cope with the forecast increase in flow from Fanling North and Kwu Tong North New Development Area (NDA) and other NDAs and developments in three phases, namely Phase 1A, 1B and 2, which are later revised to Main Works Stage 1, Stage 2 and Stage 3 respectively. The EIA study report (Register No.: AEIAR-175/2013) for the NENT NDAs Study covered the assessment for the Further Expansion of SWHSTW, which is a designated project under item F.1 and F.2 of Part 1, Schedule 2 of the EIA Ordinance. The location of the project site is shown in [Figure 2.1](#).

A Further EP was applied on 18 January 2018 to assume the responsibility for constructing and operating the SWHEPP Project up to a capacity of 190,000 m^3 /day. The Further EP No. FEP-02/474/2013 was issued to DSD as permit holder on 15 February 2018. Due to overlapping of scope with the Further EP currently in force, the Further EP No. FEP-01/474/2013 was subsequently surrendered on 15 August 2018.

2.2 Project Organization and Contact Personnel

2.2.1. Drainage Service Department (DSD) is the overall project controllers for the Project. For the construction phase of the Project, Engineer's Representative, Contractor(s), Environmental Team and Independent Environmental Checker are appointed to manage and control environmental issues.

2.2.2. The project organization and lines of communication with respect to environmental protection works are shown in [Figure 2.2](#). Key personnel and contact particulars are summarized in **Table 2.1**.

Table 2.1 Contact Details of Key Personnel

Party	Role	Post	Name	Contact No.
Drainage Services Department (DSD)	Permit Holder	Engineer	Ms. Li Lin	2594 7463
AECOM	Supervisor Representative	Resident Engineer	Mr. Alex Leung	3907 6145
		Resident Engineer	Ms. Ada Chan	3907 1134
Kwan Lee - Chun Wo Joint Venture	Contractor (DC/2018/06)	Environmental Manager	Mr. Clarence Yeung	3758 8551
		Senior Environmental Engineer	Ms. Ruby Hui	6218 6408
		Environmental Engineer	Ms. Barbara Yiu	9758 2034
		Assistant Environmental Engineer	Mr. Marco Chan	6235 6017
	Contractor (DC/2018/07)	Environmental Engineer	Ms. Barbara Yiu	9758 2034
JEC	Contractor (DE/2018/03)	Environmental Officer	Ms. Juliet Ting	6826 7319
Bestwise	Contractor (DE/2018/04)	Environmental Officer	Mr. Albus Cheung	9731 0831
Meinhardt Infrastructure and Environment Ltd.	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Ms. Claudine Lee	9612 9229
Lam Environmental Services Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939

2.3 Principal Work and Activities

2.3.1. In the reporting month, the principal work activities conducted of individual contracts are as follow. [Appendix 1.1](#) lists the construction programmes of individual activities. The layout

plans showing the locations of reported construction activities and key PME used for the works contracts in the reporting quarter are provided in [Appendix 2.1](#)

Table 2.2 Summary table of principal work activities in the reporting period

Contract No.	Contract Title	Month / Year	Principal work activities
DC/2018/06	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sludge Treatment Facilities and 132kV Primary Substation	July to September 2023	• RC works • Pipe jacking • Sewage, utility and pipe works • Road works • ABWF works • ELS
DC/2018/07	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sewage Treatment Facilities	July to September 2023	• RC works • ABWF works • Pipe laying
DE/2018/03	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities	July to September 2023	• Construction of Superstructure • Electrical Installation • MVAC Installation • Plumbing System Installation • MFA and AFA installation • SPR Installation • EOT and Monorail Installation • Bio-Gas Holding Tank Installation • Genset Installation • Transportation and Installation of THP System • Penstock and Stoplog Installation • Pipework Installation • Draft Tube Mixer Installation
DE/2018/04	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - E&M Works for Sewage Treatment Facilities	July 2023	• Improvement Works for Temporary Primary Sludge Thickener and its accessories • E&M works for Leachate Pre-treatment Plant at existing

			compressor house and BR No 3&4. - E&M works at Portion B-5, MFB2. - E&M works at Portion B-7, including DOU No.3A, Emergency Generator House and FS & Sprinkler Pumping Room, Chemical System No.1, Street Fire Hydrant & Booster Pump Room and Temporary Chemical System
		August 2023	- Improvement Works for Temporary Primary Sludge Thickener and its accessories - E&M works for Leachate Pre-treatment Plant at existing compressor house and BR No 3&4. - E&M works at Portion B-5, MFB1&2. - E&M works at Portion B-7, including DOU No.3A, Emergency Generator House and FS & Sprinkler Pumping Room, Chemical System No.1, Street Fire Hydrant & Booster Pump Room and Temporary Chemical System
		September 2023	- Improvement Works for Temporary Primary Sludge Thickener and its accessories - E&M works for Leachate Pre-treatment Plant at existing compressor house, BR No 3&4 and MFB1 - E&M works at Portion B-5, MFB2. - E&M works at Portion B-7, including DOU No.3A, Emergency Generator House and FS & Sprinkler Pumping Room, Chemical System No.1, Street Fire Hydrant & Booster Pump Room and Temporary Chemical System

3 Environmental Monitoring and Audit Requirements

- 3.0.1. The environmental monitoring will be implemented based on the division of works areas of each designed projects. Overall layout showing work areas and monitoring stations is shown in [Figure 2.1](#) and [Figure 4.1 – 4.3](#) respectively. [Appendix 3.1](#) gives the details of the environmental monitoring requirements
- 3.0.2. The Action and Limit Levels for construction air quality, noise and ecological monitoring works are shown in [Appendix 3.2](#).
- 3.0.3. Mitigation measures according to the environmental mitigation implementation schedule and the EIA were generally implemented by the Contractor. The environmental mitigation implementation schedule is shown in [Appendix 3.3](#).

3.1 Weather conditions

- 3.1.1. The weather conditions were generally sunny, cloudy and with occasional rainstorms during the monitoring sessions of the reporting quarter. The details of weather conditions for each individual monitoring session were presented in the corresponding Monthly EM&A Reports within the reporting period.

3.2 Noise Monitoring Results

- 3.2.1. Noise monitoring results measured in this reporting period are reviewed and summarized. Graphical presentation of noise monitoring can be referred in [Appendix 3.4](#).
- 3.2.2. [No action or limit level exceedance was recorded in this reporting quarter.](#)
- 3.2.3. [Noise monitoring scheduled on 8th September 2023 was cancelled due to rainfall on 8th and 9th September 2023.](#)

3.3 Air Monitoring Results

- 3.3.1. Both 1-hour and 24-hour TSP were all conducted as scheduled in the reporting period. Air quality monitoring results measured in this reporting period are reviewed and summarized. Graphical presentation of air quality monitoring can be referred in [Appendix 3.5](#).
- 3.3.2. [Due to power failure, 24 hr TSP AQM scheduled on 21 Aug 2023 at both AM1a* and AM2a were suspended. While the 24 hr TSP AQM has been resumed on 22 Aug 2023 at AM1a*, the one at AM2a was still suspended during the rest of the reporting period due to the instability of power supply.](#)
- 3.3.3. [No action or limit level exceedance was recorded in this reporting quarter.](#)

3.4 Ecology Monitoring Results

- 3.4.1. Ecological monitoring was conducted as scheduled in the reporting period. Details of ecological monitoring results in the reporting period are provided in [Appendix 3.6](#).
- 3.4.2. [No action or limit level exceedance was triggered in this reporting quarter.](#)
- 3.4.3. [Ecological monitoring scheduled on 24th August 2023 was rescheduled to 30 Aug 2023 due to COVID infection of surveyor.](#)

3.5 Waste Management

- 3.5.1. The Summary Waste Flow Table is shown in [Appendix 3.7](#). Whenever possible, materials were reused on-site as far as practicable.

3.6 Landscape and Visual

- 3.6.1. Site audits were conducted on a bi-weekly basis and the landscape and visual mitigation measures of this project were monitored from time to time.
- 3.6.2. [No non-compliance of the landscape and visual mitigation measures was recorded in the reporting quarter.](#)

3.7 Influencing Factors on the Monitoring Results

- 3.7.1. In this reporting quarter, major noise and dust sources were recorded at designated monitoring stations and are shown below.

Table 3.1 Major noise sources during monitoring sessions in the reporting period

Monitoring Stations	Major Noise Source
NM1 - Wai Loi Tsuen	N/A
NM2 - Fu Tei Au	Construction noise from other construction projects
NM3 - Man Kok Village	Road traffic at Po Wan Road

Table 3.2 Major dust sources during monitoring sessions in the reporting period

Monitoring Stations	Major Dust Source
AM1 - Wai Loi Tsuen	Road Traffic at Sheung Shui Tung Hing Road
AM2 - Fu Tei Au	Construction activities from other construction projects
AM1a ⁽¹⁾ - Site boundary of the Shek Wu Hui STW (East), Roof floor of the	Operating machines and vehicle movement within SWHSTW

control room of SWHSTW	
AM2a - Site Boundary of the Shek Wu Hui STW (North)	N/A

1. Remark: 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.

3.7.2. Major observations were also recorded at designated monitoring locations and are shown below

Table 3.3 Major observations during ecological monitoring in the reporting period

Monitoring locations	Observations	
	Project related	Non-project related
T1 (PC1, PC2)	N/A	Human Activities such as Cycling, and Fishing Construction activities such as excavation, and breaking works
T2 (PC3, PC4)	Construction activities such as generator & welding works, Scaffolding, sedimentation tank, Excavation and crane	Human Activities such as Fishing, Cycling, and Landscape Planting Construction activities such as Sheet-piling, generator & welding works, Scaffolding, sedimentation tank, Excavation, crane and breaking works
PC5	Construction activities such as Excavation and crane	N/A
T3 (PC6, PC7)	Construction activities such as Sheet-piling	Human Activities such as Cycling, Landscape Planting, Grazing and Fishing Construction activities such as Excavation, Sheet-piling, generator & welding works, Scaffolding, lifting works

4 Compliance Audit

- 4.0.1. Environmental monitoring works were performed in the reporting period and all monitoring results were checked and reviewed. The summary of exceedance of Action/Limit Level for environmental monitoring is presented in [Appendix 4.1](#).
- 4.0.2. The observations and recommendations made for each contract were shown in [Appendix 4.2](#).

4.1 Noise Monitoring

- 4.1.1. [No action or limit level exceedance was recorded in this reporting quarter.](#)

4.2 Air Quality Monitoring

- 4.2.1. [No action or limit level exceedance was recorded in this reporting quarter.](#)

4.3 Ecological Monitoring

- 4.3.1. [No action or limit level exceedance was triggered in this reporting quarter.](#)

4.4 Landscape and visual impact

- 4.4.1. [No non-conformity for landscape and visual impact was recorded in the reporting quarter.](#)

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

- 4.5.1. [No environmental non-compliance was recorded in the reporting quarter.](#)

4.6 Summary of action taken in the event of and follow-up on non-compliance

- 4.6.1. [There was no particular action taken since no non-compliance was recorded in the reporting quarter.](#)

5 Complaints, Notification of Summons and Prosecution

- 5.0.1 No environmental complaints, notification of summons and successful prosecution regarding construction works was recorded in the reporting quarter.
- 5.0.2 The details environmental complaints, notification of summons and successful prosecution for the Project are summarized by complaint log in [Appendix 5.1](#).
- 5.0.3 Cumulative statistics on complaints and successful prosecutions are summarized in **Table 5.1** and **Table 5.2** respectively.

Table 5.1 Cumulative Statistics on Complaints

Reporting Period	No. of Complaints
Commencement works to June 2023	4
July 2023	0
August 2023	0
September 2023	0
Project-to-Date	4

Table 5.2 Cumulative Statistics on Successful Prosecutions

Environmental Parameters	Cumulative no. Brought Forward	No. of Successful Prosecutions this month (Offence Date)	Cumulative No. Project-to-Date
Air	-	0	0
Noise	-	0	0
Water	-	0	0
Waste	-	0	0
Total	-	0	0

6 Comment, Conclusions and Recommendations

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

6.1.1. In terms of project construction phase monitoring, with the implementation of mitigation measures as recommended, no project related exceedance was recorded. In general, no adverse construction air and noise impacts were recorded within the project area with the mitigation measures in place. It could be concluded that no adverse environmental impact was caused to the surrounding environment and the sensitive receivers. The overall environmental impact control of the Project is considered to be effective and efficient.

6.2 Review on Effectiveness of Mitigation Measures

6.2.1. The mitigation measures according to the Environmental Mitigation Implementation Schedule (EMIS) and the EIA are considered effective in minimizing environmental impacts as no exceedances related to the Project works was recorded throughout the monitoring period. Hence, the EM&A programme was considered effective and shall be maintained.

6.2.2. The Contractor has implemented the recommended mitigation measures except for those mitigation measures not applicable at this stage. [No site audit non-compliance was recorded during the reporting quarter.](#)

6.2.3. Environmental monitoring works were carried out in the reporting quarter and all monitoring results were checked and reviewed.

6.3. Recommendations

6.3.1. In regards to the results and findings during the weekly environmental inspections in the reporting period, recommendations were made as follow.

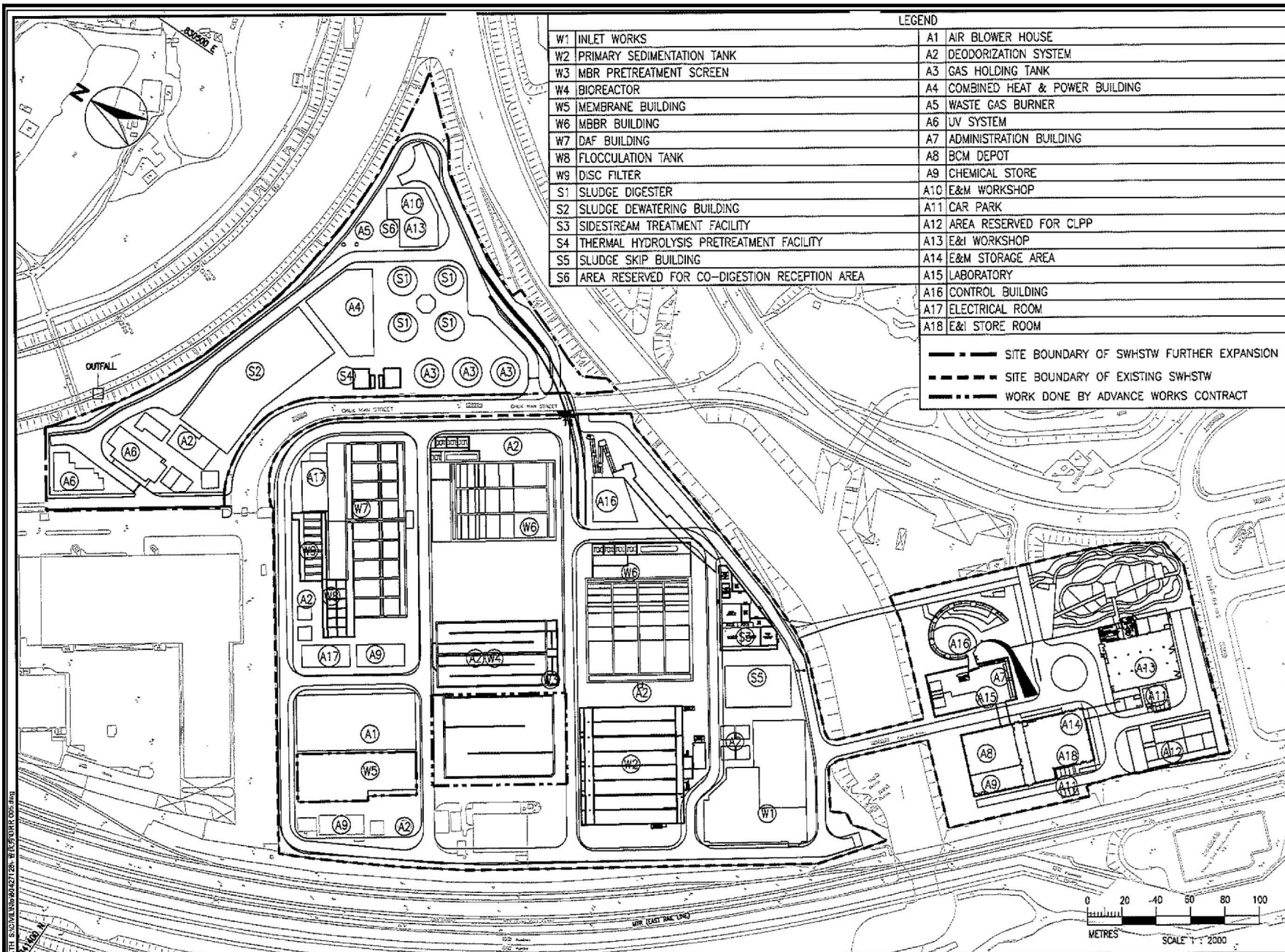
Table 6.1 Summary table of recommendations in terms of environmental parameters

Parameters	Recommendations
Air Quality	Dust suppression measures like water spraying or using tarpaulin should be enhanced for exposed stockpiles and other construction activities.
	To ensure all regulated machines in operation are displayed with valid NRMM labels.
Noise	Acoustic materials or other noise minimization measures should be adopted or enhanced especially for drilling and piling activities.

Water Quality	To maintain the proper function of the on-site drainage system and ensure the construction site runoff was properly treated.
Ecology	2m solid dull green barrier fences should be erected and maintained properly along the project boundaries of all active work sites under EP condition 2.7.
Waste Management	Oil/chemical containers should be stored properly.
	To maintain proper function of drip trays
	To maintain good housekeeping and remove the waste regularly.
	Good waste segregation practice should be maintained.

Figure 2.1

Project Layout



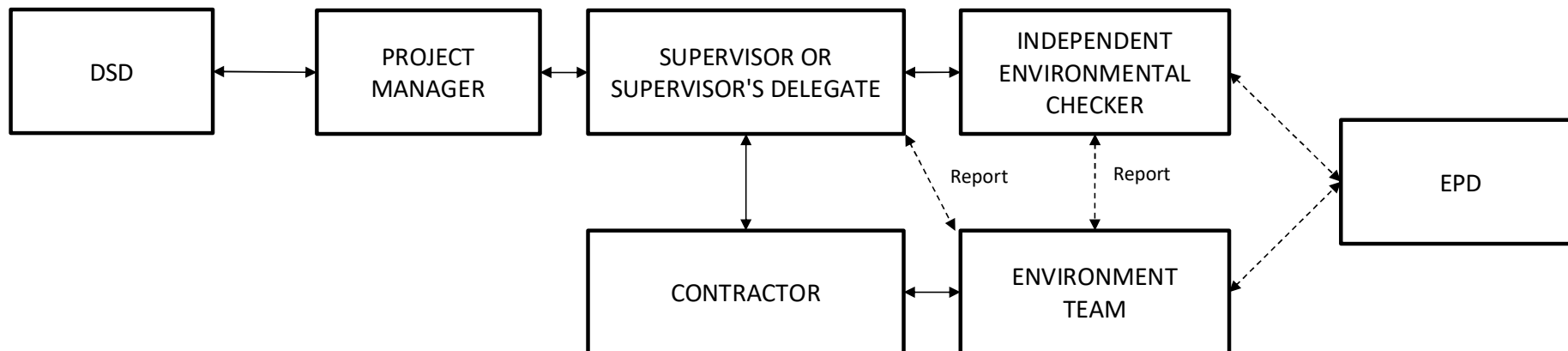
Shek Wu Hui Effluent Polishing Plant

General Site Layout Of SWHEPP

SCALE	As Shown	DATE	SEP 2019
CHECK	JM	DRAWN	SY
JOB No.		FIGURE NO.	1.1
		REV	-

Figure 2.2

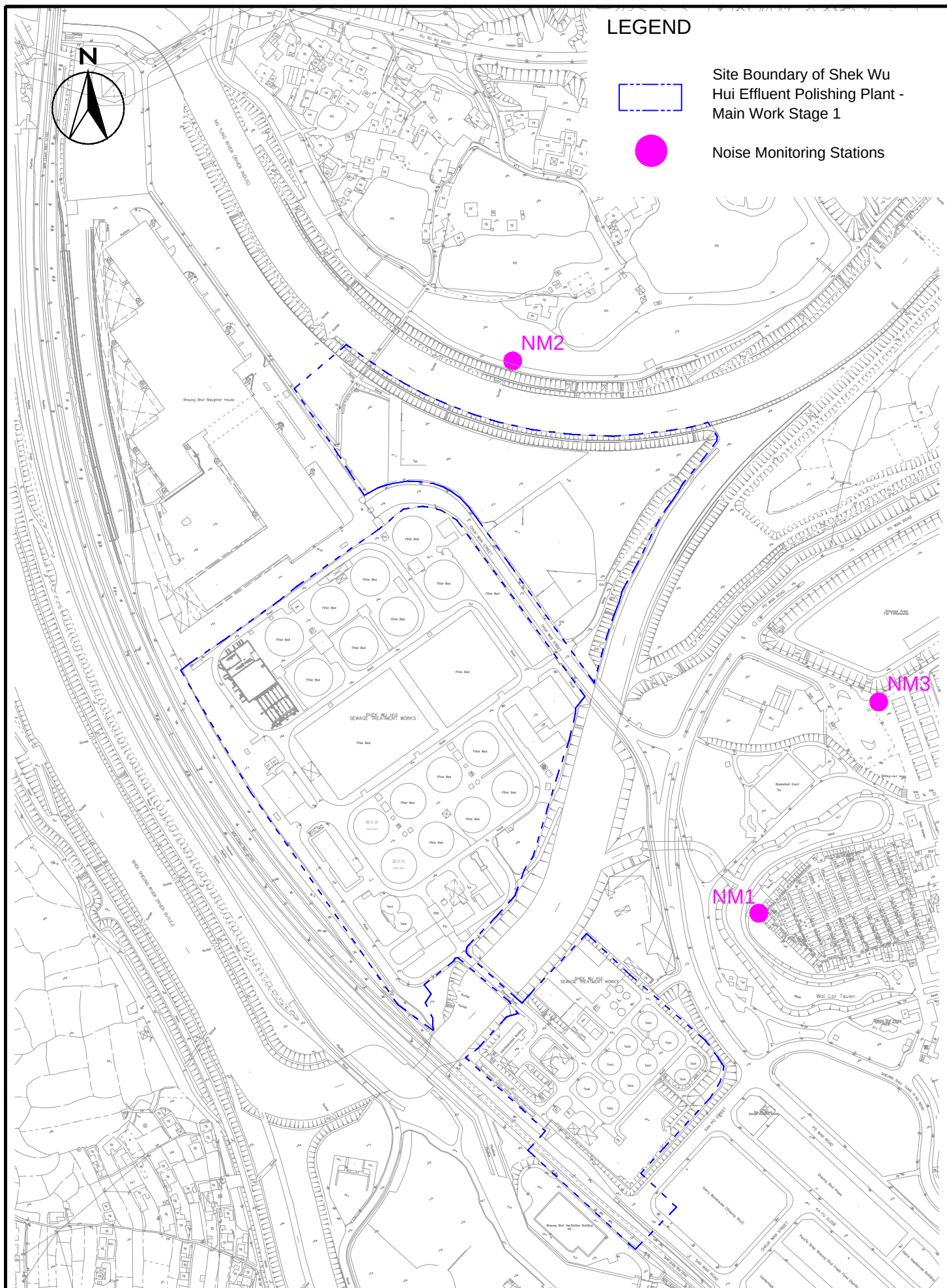
Project Organization Chart



	Shek Wu Hui Effluent Polishing Plant - Project Organisation For Environmental Monitoring and Audit	SCALE	N.T.S.	DATE	Sep 2019
		CHECK	JW	DRAWN	SY
		JOB NO.		FIGURE NO.	1.2

Figure 4.1

Locations of Noise Monitoring Stations



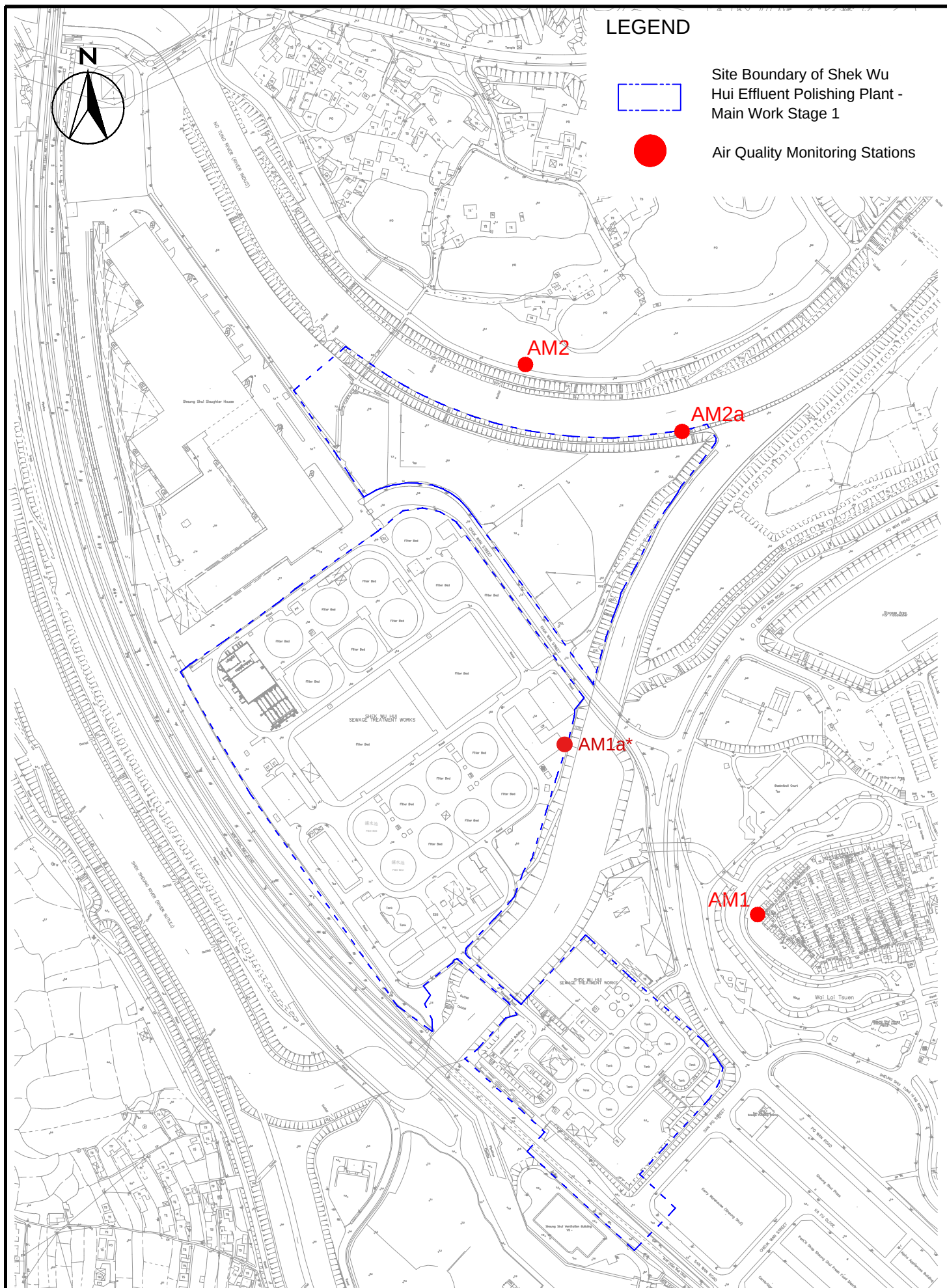
Shek Wu Hui Effluent Polishing Plant

Location of Noise Monitoring Stations

SCALE	1:4000@A4	DATE	SEP 2019
CHECK	JM	DRAWN	SY
JOB No.	MA19019	FIGURE NO.	3
		REV	-

Figure 4.2

Locations of Air Quality Monitoring Stations

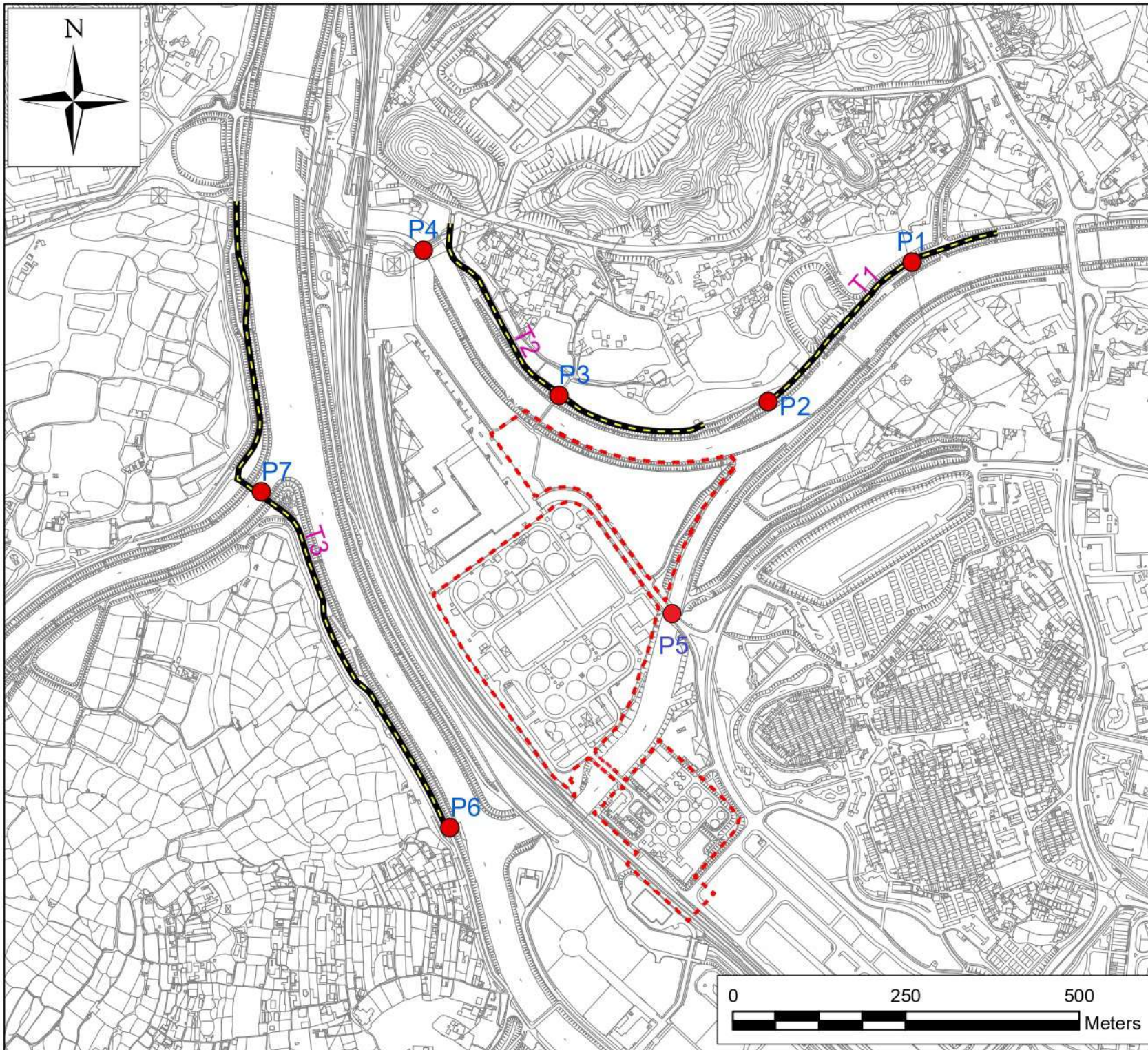


Shek Wu Hui Effluent Polishing Plant -
Location of Air Quality Monitoring Stations

SCALE	1:400@A4	DATE	SEP 2019
CHECK	JM	DRAWN	SY
JOB No.		FIGURE NO.	2
		REV	-

Figure 4.3

Locations of Ecological Monitoring Stations



Legend

- Project Site Boundary
- Walk Transects
- Point Count Locations

PREPARED BY

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CONTRACT NO.

SPW 12/2021

PROJECT TITLE

**Shek Wu Hui Effluent Polishing
Plant - Main Works
Survey Location for Ecological
Monitoring**

SCALE

1:7500@A4

DATE

Sept 2021

DRAWN BY

AL

CHECK BY

MC

FIGURE NO.

1

REVISION NO.

-



Appendix 1.1

Construction Programme of Individual Contracts

ID	Activity ID	KD	Task Name	Inclment Weather CE no. (NCE no.)	PMI & CE no. (NCE no.)	Duration	Start	Finish	Actual Start	Actual Finish	Predecessors	Successors	% Complete	Time Risk Allowa		H1	2020	H1	H1	2022	H1	H1	2024	H1	H1	2026	H1
1	CD-00000		Contract Dates			1842.8 day	Mon 16 Sep '19	Sat 22 Nov '25	Mon 16 Sep '19	NA			0%			16/9										22/11	
2	CD-01000		Starting Date			0 days	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19		4,5FS+181 days,6,7,8,9,11,12	100%			16/9											
3	CAD-00000		Access Date (cal. day)			147 days	Mon 16 Sep '19	Sat 14 Mar '20	Mon 16 Sep '19	Sat 14 Mar '20			100%			16/9											
4	CAD-01000		Portion A-1			0 days	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19			100%			16/9											
5	CAD-02000		Portion A-2			0 days	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19			100%			16/9											
6	CAD-03000		Portion C-1A			0 days	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19			100%			16/9											
7	CAD-04000		Portion C-1B			0 days	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19			100%			16/9											
8	CAD-05000		Portion C-2A			0 days	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19			100%			16/9											
9	CAD-06000		Portion C-2B			0 days	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19			100%			16/9											
10	CAD-07000		Portion C-2C			0 days	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19			100%			16/9											
11	CAD-08000		Portion C-2D			0 days	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19			100%			16/9											
12	CAD-09000		Portion C-3			0 days	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19			100%			16/9											
13	CAD-10000		Portion C-4			0 days	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19			100%			16/9											
14	CAD-11000		Portion C-5			0 days	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19			100%			16/9											
15	CAD-12000		Portion C-6			0 days	Sat 14 Mar '20	Sat 14 Mar '20	Sat 14 Mar '20	Sat 14 Mar '20		581	100%			16/9											
16	CAD-13000		Works Area WA1			1 day	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19			100%			16/9											
17	CAD-14000		Works Area WA2-A			1 day	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19			100%			16/9											
18	CKD-00000		Key Date (cal. day)			332 days	Sat 22 May '2	Tue 5 Jul '22	Sat 22 May '21	NA			0%			16/9											
19	CKD-01000		KD1A (613.5days after starting date)			0 days	Sat 22 May '21	Sat 22 May '21	Sat 22 May '21	Sat 22 May '21		53	100%			16/9											
20	CKD-02000		KD2A (820 days after starting date)			0 days	Tue 14 Dec '2	Tue 14 Dec '21	Tue 14 Dec '21	Tue 14 Dec '21		61	100%			16/9											
21	CKD-03000		KD3A (921 days after starting date)			0 days	Fri 25 Mar '22	Fri 25 Mar '22	Fri 25 Mar '22	Fri 25 Mar '22		69	100%			16/9											
22	CKD-04000		KD3B (906 days after starting date)			0 days	Thu 10 Mar '22	Thu 10 Mar '22	Thu 10 Mar '22	Thu 10 Mar '22		78	100%			16/9											
23	CKD-05000		KD3C (898 days after starting date)			0 days	Wed 2 Mar '22	Wed 2 Mar '22	Wed 2 Mar '22	Wed 2 Mar '22		86	100%			16/9											
24	CKD-06000		KD3D (785 days after starting date)			0 days	Tue 9 Nov '21	Tue 9 Nov '21	Tue 9 Nov '21	Tue 9 Nov '21		94	100%			16/9											
25	CKD-07000		KD3E (1022.5days after starting date)			0 days	Tue 5 Jul '22	Tue 5 Jul '22	NA	NA		101	0%			16/9											
26	CCD-00000		Completion Date (cal. day)			1163.8 day	Thu 30 Dec '2	Sat 22 Nov '25	Thu 30 Dec '21	NA			0%			16/9											
27	CCD-01000		Section 1 of Works (836 days after starting date)			1 day	Thu 30 Dec '21	Thu 30 Dec '21	Thu 30 Dec '21	Thu 30 Dec '21		109	100%			16/9											
28	CCD-02000		Section 2 of Works (1,467 days after starting date)			0 days	Fri 6 Sep '24	Fri 6 Sep '24	NA	NA		118	0%			16/9											
29	CCD-03000		Section 3 of Works (1,358.5 days after starting date)			0 days	Tue 6 Jun '23	Tue 6 Jun '23	NA	NA		127	0%			16/9											
30	CCD-04000		Section 4 of Works (1,138.5 days after starting date)			0 days	Sat 29 Oct '22	Sat 29 Oct '22	NA	NA		136	0%			16/9											
31	CCD-05000		Section 5 of Works (1,827.5 days after starting date)			0 days	Tue 17 Sep '24	Tue 17 Sep '24	NA	NA		32,33,145	0%			16/9											
32	CCD-06000		Defect Liability Period			365 days	Thu 19 Sep '24	Sat 22 Nov '25	NA	NA		31	0%			16/9											
33	CCD-07000		Soft Landscape Establishment Works			365 days	Thu 19 Sep '24	Sat 22 Nov '25	NA	NA		31	0%			16/9											
34	PKD-00000	*	Planned Completion - Key Date (cal. day)			1791.8 day	Fri 1 Nov '19	Fri 7 Nov '25	Fri 1 Nov '19	NA			26%			1/11											
35	PKD-00000	*	Planned Completion - Key Dates			618.8 days	Wed 12 May '1	Mon 12 Jun '23	Wed 12 May '21	NA			0%			1/11											
36	PKD-01000	KD1A	KD1A			0 days	Wed 12 May '21	Wed 12 May '21	Wed 12 May '21	Wed 12 May '21		19FF	100%			1/11											
37	PKD-02000	KD2A	KD2A			0 days	Mon 3 Jan '22	Mon 3 Jan '22	Mon 3 Jan '22	Mon 3 Jan '22		20FF	100%			1/11											
38	PKD-03000	KD3A	KD3A			0 days	Fri 2 Sep '22	Fri 2 Sep '22	Fri 2 Sep '22	Fri 2 Sep '22		21FF	100%			1/11											
39	PKD-04000	KD3B	KD3B			0 days	Tue 7 Jun '22	Tue 7 Jun '22	Tue 7 Jun '22	Tue 7 Jun '22		22FF	100%			1/11											
40	PKD-05000	KD3C	KD3C			0 days	Wed 26 Oct '22	Wed 26 Oct '22	Wed 26 Oct '22	Wed 26 Oct '22		23FF	100%			1/11											
41	PKD-06000	KD3D	KD3D			0 days	Sat 20 Nov '21	Sat 20 Nov '21	Sat 20 Nov '21	Sat 20 Nov '21		24FF	100%			1/11											
42	PKD-07000	KD3E	KD3E			0 days	Mon 12 Jun '23	Mon 12 Jun '23	NA	NA		450FF,460FF,470FF,480FF,5,25FF	0%			1/11											
43	PCD-00000	*	Planned Completion - Section of the Works (cal. day)			1081.8 day	Fri 25 Mar '22	Fri 7 Nov '25	Fri 25 Mar '22	NA			0%			1/11											
44	PCD-01000	SW1	Section 1 of Works			0 days	Fri 25 Mar '22	Fri 25 Mar '22	Fri 25 Mar '22	Fri 25 Mar '22		6 27FF	100%			1/11											
45	PCD-02000	SW2	Section 2 of Works			0 days	Fri 8 Dec '23	Fri 8 Dec '23	NA	NA		715FF,727FF,699FF 28FF	0%			1/11											
46	PCD-03000	SW3	Section 3 of Works			0 days	Tue 16 Jan '24	Tue 16 Jan '24	NA	NA		205FF,403FF,418FF,436FF,4648,29FF	0%			1/11											
47	PCD-04000	SW4	Section 4 of Works			0 days	Thu 21 Sep '23	Thu 21 Sep '23	NA	NA		579FF,355FF,381FF,405FF,4 30FF	0%			1/11											
48	PCD-05000	SW5	Section 5 of Works			0 days	Mon 2 Sep '24	Mon 2 Sep '24	NA	NA		313FF,356FF,382FF,406FF,4,49,50,31FF	0%			1/11											
49	PCD-06000	DLP	Defect Liability Period			365 days	Tue 3 Sep '24	Fri 7 Nov '25	NA	NA		48,649FF	0%			1/11											
50	PCD-07000		Soft Landscape Establishment Works			365 days	Tue 3 Sep '24	Fri 7 Nov '25	NA	NA		48,641,642,643	0%			1/11											
51	DE-00000		Delaying Events Other than Change of Works Information to be considered			1532.8 day	Fri 1 Nov '19	Thu 9 Jan '25	Fri 1 Nov '19	NA			43%			1/11											
153	SUB-00000		Submissions (cal. day)			1590 days	Mon 16 Sep '19	Sat 1 Feb '25	Mon 16 Sep '19	NA			93%			16/9											
264	CPW-00000		Site Preliminary Works			300 days	Mon 16 Sep '19	Thu 17 Sep '20	Mon 16 Sep '19	Thu 17 Sep '20			100%			16/9											
270	CWPC-00000	*	Construction Works of Portion C of the Site			1772.8 day	Mon 16 Sep '19	Tue 2 Sep '25	Mon 16 Sep '19	NA			57%			16/9											
271	CUV1-00000	*	UV System No. 1 & Effluent Pumping Station No. 1 (1)			971 days?	Mon 16 Sep '19	Thu 22 Dec '22	Mon 16 Sep '19	Thu 22 Dec '22			100%			16/9											
314	CSDC-00000	*	Sludge Digesters and Distribution Chamber (4)			1395.8 day	Sat 7 Dec '19	Mon 2 Sep '24	Sat 7 Dec '19	NA			67%			16/9											
357	CSDB-00000	*	Sludge Dewatering Building (2)			875.8 days	Tue 26 Nov '1	Wed 9 Nov '22	Tue 26 Nov '19	NA			65%			16/9											
383	CHPB-00000	*	Combined Heat Power Building (3)			1393.8 day	Tue 10 Dec '1	Mon 2 Sep '24	Tue 10 Dec '19	NA			51%			16/9											
407	CSPS-00000	*	Sewage Pumping Station (9)			1414.8 day	Fri 15 Nov '19	Mon 2 Sep '24	Fri 15 Nov '19	NA			79%			16/9											
421	CWS2-00000	*	Workshop No. 2 (5)			1381.8 day	Tue 24 Dec '1	Mon 2 Sep '24	Tue 24 Dec '19	NA			74%			16/9											
440	CTHP-00000	*	Thermal Hydrolysis Pretreatment (6)			1385.8 day	Thu 19 Dec '1	Mon 2 Sep '24	Thu 19 Dec '19	NA			35%			16/9											
454	CFCD-00000	*	Ferric Chloride Dosing Facilities (10)			949.8 days	Tue 15 Jun '2	Mon 2 Sep '24	Tue 15 Jun '21	NA			42%			16/9											
464	CFHB-00000	*	Fire Hydrant and Booster Pump Room (16)			923.8 days	Fri 16 Jul '21	Mon 2 Sep '24	Fri 16 Jul '21	NA			28%			16/9											
475	CTFS-00000	*	Transformer and Switchroom (15)			923.8 days	Fri 16 Jul '21	Mon 2 Sep '24	Fri 16 Jul '21	NA			43%			16/9											
484	CUC-00000	*	Utility Corridor (13)		204	539 days	Mon 31 Oct '2	Mon 2 Sep '24	Mon 31 Oct '22	NA			13%			16/9											
497	CWMC-00000	*	Water Meter Cabinet (11)		204	593.8 days	Thu 25 Aug '2	Mon 2 Sep '24	Thu 25 Aug '22	NA			21%			16/9											
504	CGH-00000	*	Guard House (14)			923.8 days	Fri 16 Jul '21	Mon 2																			

識別碼	Activity ID	Key Date	NCE/(EW/PMI)/(CE)	Task Name	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限期	Risk Allow	完成百分比	9年	2020年	2021年	2022年	2023年	2024年	2025年
40	PD-1000	*		Planned Completion	2113 days	2020年1月28日	2025年11月9日	年1月28日星期二2020	NA			0 days		49%	019年7月19日10	2020年1月10	2021年1月10	2022年1月10	2023年1月10	2024年1月10	2025年1月10
41	PCD-1000	*		Planned Completion - Key Dates (cal. day)	1298.79 days	2020年9月30日	2024年4月21日	年9月30日星期三2020	NA			-96.79 days		0%							
42	PKD-1010	KD1A		KD1A completion of AR3 in Portion B-1	0 days	2020年9月30日	2020年9月30日	年9月30日星期三2020	年9月30日星期三2020	21FF,56FF+3.39 days	21FF,56FF+3.39 days	0 days		100%							
43	PCD-1020	KD1B		KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2	0 days	2021年1月22日	2021年1月22日	年1月22日星期五2021	年1月22日星期五2021	22FF,56FF+3.39 days,2176	22FF,56FF+3.39 days	0 days		100%							
44	PCD-1030	KD1C		KD1C completion of civil and structural works of Inlet Works No.1 in Portion B-2	0 days	2023年12月26日	2023年12月26日	NA	NA	466FF+3.19 days,1081	23FF,56FF+3.39 day	-287.19 days		0%							
45	PCD-1040	KD1D		KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3	0 days	2023年12月5日	2023年12月5日	NA	NA	571FF+3.33 days	24FF,56FF+3.39 days	-216.33 days		0%							
46	PCD-1050	KD1E		KD1E completion of civil and structural works of Bioreactor in Portion B-4	0 days	2024年1月7日	2024年1月7日	NA	NA	676FF+2.97 days	25FF,56FF+3.39 day	-213.97 days		0%							
47	PCD-1060	KD1F		KD1F completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5	0 days	2023年12月20日	2023年12月20日	NA	NA	858FF+3.39 days	26FF,56FF+3.39 days	-540.39 days		0%							
48	PCD-1070	KD1G		KD1G completion of civil and structural works of MFB in Portion B-5	0 days	2024年4月21日	2024年4月21日	NA	NA	859FF+3.39 days	27FF,56FF+3.39 day	-471.79 days		0%							
49	PCD-1080	KD1H		KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6	0 days	2022年3月11日	2022年3月11日	年3月11日星期五2022	年3月11日星期五2022	905FF,902FF	28FF,56FF+3.39 days	0 days		100%							
50	PCD-1090	KD1I		KD1I completion alternation works for existing Power House in Portion B-7A	0 days	2021年1月29日	2021年1月29日	年1月29日星期五2021	年1月29日星期五2021	1106FF	29FF,56FF+3.39 day	0 days		100%							
51	PCD-1100	KD1J		KD1J completion of auxiliary facilities in Portion B-7	0 days	2022年9月28日	2022年9月28日	年9月28日星期三2022	年9月28日星期三2022	1039FF,1063FF,1046FF	30FF,56FF+3.39 day	0 days		100%							
52	PCD-1110	KD2A		KD2A completion of effluent pipes to UV system and connection to its downstream in Portion B-9	0 days	2021年7月20日	2021年7月20日	年7月20日星期二2021	年7月20日星期二2021	1112FF,1110FF	31FF,57FF+2.33 days	0 days		100%							
53	PCD-1120	KD2B		KD2B completion of air supply main alternation to existing air blower house No.2 in Portion B-8A	0 days	2021年3月26日	2021年3月26日	年3月26日星期五2021	年3月26日星期五2021	1099FF,1103FF,1104FF	32FF,57FF+2.33 days	0 days		100%							
54	PCD-1130	KD3A		KD3A completion of all utilities and road works in Portion B-9A	0 days	2024年1月18日	2024年1月18日	NA	NA	1108FF+2.33 days,1101	33FF	-2.33 days		0%							
55	PCD-1000	*		Planned Completion Date (cal. Day)	552.67 days	2024年6月6日	2025年11月9日	NA	NA			-513.33 da...		0%							
56	PCD-1010	SW1		Section 1 of the Works	0 days	2025年3月10日	2025年3月10日	NA	NA	1097FF+3.39 days,908	35FF	-235.79 days		0%							
57	PCD-1020	SW2		Section 2 of the Works	0 days	2024年5月6日	2024年5月6日	NA	NA	671FF+2.33 days,672F	36FF	-513.33 days		0%							
58	PCD-1030	SW3		Section 3 of the Works	0 days	2024年11月9日	2024年11月9日	NA	NA	2204FF+2.33 days,220	37FF,59	0 days		0%							
59	PCD-1040	DLP		Defects Liability Period	365 days	2024年11月10日	2025年11月9日	NA	NA	58	38FF	0 days		0%							
266	C-1000	*		Construction Works (Working day)	2181.67 days	2019年11月18日	2026年11月7日	年11月18日星期一2019	NA			2.33 days		67%							
272	CAR-0000	*		Access Road (AR3), B-1	238 days	2019年12月12日	2020年9月30日	年12月12日星期四2019	年9月30日星期三2020	4,221	1199SS	0 days		100%							
281	CAR-3000	KD1A		Roadworks	133 days	2020年4月24日	2020年9月30日	年4月24日星期五2020	年9月30日星期三2020	191,280,279	42FF	0 days		100%							
282	CIW-0000	*		Inlet Works No.1, B-2	754 days	2019年11月26日	2022年6月15日	年11月26日星期二2019	年6月15日星期三2022			0 days		100%							
323	CIW-1510	KD1B		Diversion of Tank Drain MHD9.5 (approx. 70m CHES1 & CHES2)	405 days	2018年11月26日	2021年4月10日	年11月26日星期二2019	年4月10日星期六2021	351	384	0 days		100%							
382	CIW-2500	KD1B		Conditions to be met for KD1B	0 days	2021年1月22日	2021年1月22日	年1月22日星期五2021	年1月22日星期五2021	380	381	0 days		100%							
383	CIW-3000	*		Inlet Works No.1 Building (1)	1139 days	2020年9月15日	2024年7月22日	年9月15日星期二2020	NA	6		402 days		60%							
466	CIW-3700	KD1C		Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	2023年12月22日	2023年12月22日	NA	NA	402,453,436	44FF+3.19 days	-235.19 days		0%							
480	CIW-4000	SW1		ABWF Works	180 days	2023年12月9日	2024年7月22日	NA	NA	256,206	56FF+3.39 days	-7 days		0%							
488	CPS-0000	*		Primary Sedimentation Tanks, B-3 (2)	1297 days	2019年11月18日	2024年4月6日	年11月18日星期一2019	NA	8		489 days		74%							
571	CPS-9000	KD1D		Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	2023年12月1日	2023年12月1日	NA	NA	522	45FF+3.33 days	-183.25 days		0%							
576	CPS-10000	SW1		ABWF works + BS Works	152 days	2023年9月28日	2024年4月6日	NA	NA	256,206	56FF+3.39 days	80 days		0%							
584	CBR-0000	*		Bioreactors No.2A & 2B, B-4 (3)	1125 days	2020年9月23日	2024年7月13日	年9月23日星期三2020	NA	9		409 days		64%							
676	CBR-18000	KD1E		Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	2024年1月4日	2024年1月4日	NA	NA	668,673,674,675,641	46FF+2.97 days	-175.97 days		0%							
680	CBR-21000	SW1		ABWF Works + BS Works	362 days	2023年4月25日	2024年7月13日	年4月25日星期二2023	NA	256,206	56FF+3.39 days	0 days		1%							
686	CMF-0000	*		Membrane Facilities Building No.2 , B-5 (4)	1535.4 days	2020年1月6日	2025年3月7日	年1月6日星期一2020	NA	2		211.6 days		57%							
858	CMF-8000	KD1F		Allow access to Contractor DE/2018/04 for E&M installation and T&C works (from B1 to 1/F)	0 days	2023年12月16日	2023年12月16日	NA	NA	836,808,828	47FF+3.39 days	-441 days		0%							
859	CMF-8100	KD1G		Allow access to Contractor DE/2018/04 for E&M installation and T&C works (from 1/F to Roof)	0 days	2024年4月18日	2024年4月18日	NA	NA	830,811	48FF+3.39 days	-378.65 days		0%							
860	CMF-9000	SW1		ABWF works + BS works	706.4 days	2022年10月24日	2025年3月7日	年10月24日星期一2022	NA	256,206	56FF+3.39 days	-197.4 days		2%							
878	CSA-0000	*		SAS Pumping Station, B-6 (12)	934 days	2020年4月9日	2023年6月6日	年4月9日星期四2020	NA	11		327 days		98%							
905	CSA-8000	KD1H		Allow access to Contractor DE/2018/03 for E&M installation and T&C works	1 day	2022年3月11日	2022年3月11日	年3月11日星期五2022	年3月11日星期五2022	904	49FF,906SS-1 day	0 days		100%							
908	CSA-9000	SW1		ABWF works + BS works	331 days	2022年4月25日	2023年6月6日	年4月25日星期二2022	NA	907	56FF+3.39 days	327 days		93%							
920	CFS-1000	*	301	Fire Services Sprinkler Pumping Room & Emergency Generator House (9)*10)**	534 days	2021年5月4日	2023年2月18日	年5月4日星期二2021	年2月18日星期六2023			0 days		100%							
963	CFS-5000	KD1J		Allow access to Contractor DE/2018/04 for E&M installation and T&C works	1 day	2022年8月29日	2022年8月29日	年8月29日星期一2022	年8月29日星期一2022	938	51FF,964SS-1 day	0 days		100%							
977	CFS-6100	SW1		Inspection and Handover	37 days	2022年12月6日	2023年1月20日	年12月6日星期二2022	年1月20日星期五2023	975,976	56FF+3.39 days	0 days		100%							
978	CCS-1000	*	295,297	Chemical System No.1 (8)*	539 days	2021年7月13日	2023年5月8日	年7月13日星期二2021	NA			351 days		99%							
1013	CCS-1900	KD1J		Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	2022年9月5日	2022年9月5日	年9月5日星期一2022	年9月5日星期一2022	1015	51FF,1020,1019	0 days		100%							
1025	CCS-2050	SW1		Inspection and Handover	1 day	2023年5月8日	2023年5月8日	NA	NA	1024	56FF+3.39 days	347.75 days		0%							
1026	CDS-0000	*		Deodorization System No.3A (7)*	387 days	2021年6月11日	2022年9月28日	年6月11日星期五2021	年9月28日星期三2022			0 days		100%							
1039	CDS-7000	KD1J		Allow access to Contractor DE/2018/04 for E&M installation and T&C works	1 day	2022年9月28日	2022年9月28日	年9月28日星期三2022	年9月28日星期三2022	1038	51FF,1043	0 days		100%							
1040	CTC-0000	*		Temporary Chemical Dosing System (5)	466 days	2021年6月3日	2022年12月23日	年6月3日星期四2021	年12月23日星期五2022			0 days		100%							
1063	CTC-11000	KD1J		Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	2022年9月28日	2022年9月28日	年9月28日星期三2022	年9月28日星期三2022	1061FS+1 day	51FF,1065	0 days		100%							
1068	CTC-13000	SW1		Inspection and Handover	1 day	2022年11月22日	2022年11月22日	年11月22日星期二2022	年11月22日星期二2022	1067	56FF+3.39 days	0 days		100%							
1069	CFB-0000	*		Fire Hydrant and Booster Pump Room (13)*	650 days	2021年10月29日	2024年1月8日	年10月29日星期五2021	NA			150 days		9%							
1081	CFB-4000	KD1C		Allow access to Contractor DE/2018/04 for E&M installation and T&C works	1 day	2023年10月31日	2023年10月31日	NA	NA	1080FF	1082SF,44FF+3.19 d	-190.19 days		0%							
1088	CFB-5100	SW1		Inspection and Handover	10 days	2023年12月27日	2024年1月8日	NA	NA	1084,1085,1086,1087	56FF+3.39 days	150 days		0%							
1097	CDS1-4000	KD1C		Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	2023年6月27日	2023年6月27日	NA	NA	1096	56FF+3.39 days,44F	-88.25 days		0%							
1098	CAA-0000	*		Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)	961 days	2020年10月19日	2024年1月15日	年10月19日星期一2020	NA			0 days		79%							
1099	CAA-1000	KD2B		B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)	315 days	2020年10月19日	2021年11月9日	年10月19日星期一2020	年11月9日星期二2021	15,207,251	53FF	0 days		100%							
1104	CAA-1500	KD2B	064	Re-alignment of DN800 Temporary Air Main (CHTA) and Provision of FRP Staircases	168 days	2021年4月20日	2021年11月9日	年4月20日星期二2021	年11月9日星期二2021	1100,1101,1102	53FF	0 days		100%							
1105	CAA-1600	KD2B	017	Elevated Section of DN800 Temporary Air Main (CHTA) across existing Bioreactor's Distribution Chamber No. 2	168 days	2021年4月20日	2021年11月9日	年4月20日星期二2021	年11月9日星期二2021	1100,1101,1102	53FF,1106	0 days		100%							
1106	CAA-2000	KD1I		B7-A Alternation works for existing Power House	0 days	2022年1月3日	2022年1月3日	年1月3日星期一2022	年1月3日星期一2022	13FS-1 day,187,225,22	50FF,1107FS+540 d	0 days		100%							
1107	CAA-2100	SW3	224	Additional works for Power House	60 days	2023年10月31日	2024年1月11日	NA	NA	1106FS+540 days	58FF+2.33 days,54F	1.67 days		0%							
1108	CAA-3000	SW3		Alternation works for existing Membrane Facilities Building No.1	359 days	2022年10月31日	2024年1月15日	年10月31日星期二2022													

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Activity ID	Key Date	NCE/(EV/PMI)/(CE)	Task Name	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限期時間	Risk Allowance	完成百分比	9年	2020年	2021年	2022年	2023年	2024年	2025年
1829	CS2-25100a	SW2	Workfront G6a: Process Pipe CHN, CHPSW-1, CHSS1, CHSS2	700 days	2021年7月27日	2023年12月2日	年7月27日星期二2021		NA 1851	1891	-351.33 da...		5%							
1840	CS2-25100b	SW2	Workfront G6b: Process Pipe CHN, CHPSW-1, CHSS1, CHSS2	491 days	2022年1月5日	2023年9月1日	年1月5日星期三2022		NA 1737SS+36 days		-105 days		38%							
1855	CS2-26000	SW2	Sewerage and utilities in Workfront H1	178 days	2022年4月1日	2022年11月7日	年4月1日星期五2022	年11月7日星期一—2022			0 days		100%							
1856	CS2-26100	SW2	Process Pipe CHSS1, CHSS2 CH181-254	178 days	2022年4月1日	2022年11月7日	年4月1日星期五2022	年11月7日星期一—2022	1801SS+21 days		0 days		100%							
1867	CS2-27000	SW2	Sewerage and utilities in Workfront I1	370 days	2020年7月8日	2021年10月2日	年7月8日星期三2020	年10月2日星期六2021			0 days		100%							
1868	CS2-27100	SW2	Process Pipe CHS CH0-72 , CHR CH 57-132	370 days	2020年7月8日	2021年10月2日	年7月8日星期三2020	年10月2日星期六2021			0 days		100%							
1879	CS2-28000	SW2	Sewerage and utilities in Workfront I2	1072 days	2020年7月8日	2024年2月16日	年7月8日星期三2020		NA		-351.33 da...		40%							
1880	CS2-28100	SW2	Process Pipe CHR CH0-26	963 days	2020年7月8日	2023年10月4日	年7月8日星期三2020		NA		-242.33 da...		55%							
1896	CS2-29000	SW2	Sewerage and utilities in Workfront I3	592 days	2021年7月21日	2023年7月20日	年7月21日星期三2021		NA	2164	-13 days		97%							
1897	CS2-29100	SW2	Construction of manhole MHFB51A, MHFB51, MHFB52, PSW3	509 days	2021年7月21日	2023年4月6日	年7月21日星期三2021		NA		0 days		97%							
1934	CS2-30000	SW2	Sewerage and utilities in Workfront I4	661 days	2021年6月5日	2023年8月26日	年6月5日星期六2021		NA	2153,1189,2175,2176-30 days			69%							
1937	CS2-30100	SW2	Construction of Process Pipes CHPSW3; CHDO1, chemical trench	661 days	2021年6月5日	2023年8月26日	年6月5日星期六2021		NA		-33 days		91%							
1971	CS3-0000	*	Remaining drainage and utilities (Section 3)	830 days	2021年7月27日	2024年5月16日	年7月27日星期二2021		NA	2188,58FF+2.33 day	14.67 days		28%							
2186	CS3CK-PMI-496g	SW3	ABWF works + BS works	90 days	2024年1月26日	2024年6月5日		NA	NA 2185	58FF+2.33 days	106.57 days		0%							
2187	CRW-0000	*	Road Works (Section 3)	130 days	2024年5月17日	2024年10月21日		NA	NA	58FF+2.33 days	14.67 days		0%							
2198	CRW-2000	SW3	Footpath Road Pavement	60 days	2024年8月9日	2024年10月21日		NA	NA 2197SS+5 days	58FF+2.33 days	14.67 days		0%							
2199	CRW-2100	SW3	Signages	20 days	2024年7月29日	2024年8月20日		NA	NA 2196SS	58FF+2.33 days	64.67 days		0%							
2202	CLW-0000	*	Landscaping Works (Section 3)	871.67 days	2022年12月15日	2025年11月7日	年12月15日星期四2022		NA 16		1.33 days		0%							
2203	CLW-1000	SW3	Irrigation System	120 days	2022年12月15日	2023年5月16日	年12月15日星期四2022		NA	2204,58FF+2.33 day	0 days		0%							
2204	CLW-2000	SW3	Hard Landscaping Works	214 days	2023年5月19日	2024年2月3日		NA	NA 2203	58FF+2.33 days	22050 days	5	0%							
2205	CLW-3000	SW3	Soft Landscaping Works	214 days	2024年2月19日	2024年11月7日		NA	NA 2204FS+10 days	2206,58FF+2.33 day	0 days	5	0%							
2206	CLW-4000	DLP	Establishment Works (365 days)	365 days	2024年11月7日	2025年11月7日		NA	NA 2205,208	60FF	2.33 days	5	0%							

Activity ID		Activity Name		Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors	Gantt Chart																											
SWH - Main Works Stage 1 Sidestream Treatment Facilities & E&M V				2071	11-Oct-19 A	11-Jun-25	31-Oct-21	11-Jun-25	0																														
Contract Data				2071	11-Oct-19 A	11-Jun-25	24-May-22	11-Jun-25	0																														
Starting Date & Completion Date				2071	11-Oct-19 A	11-Jun-25	24-May-22	11-Jun-25	0																														
CD1000	Contract Date (LOA)			0	11-Oct-19 A		24-May-22				CD1010, S1P1000, PL1460																												
CD1010	Starting Date			0	23-Oct-19 A		24-May-22			CD1000	S1D1040, AD1050,																												
CD1020	Whole Contract Period (1626 days from starting date)			1626	23-Oct-19 A	04-Apr-24	21-Aug-23	04-Apr-24	0	CD1010	CD1040, CD1030																												
CD1030	Extension of Time Granted (Total 139days)			139	05-Apr-24	21-Aug-24*	05-Apr-24	21-Aug-24	0	CD1020	CD1040																												
CD1040	Completion Date for the whole of the Works			0		11-Jun-25		11-Jun-25	0	CD1020, CD1010,																													
Access Date				1434	23-Oct-19 A	21-Aug-23	24-May-22	11-Jun-25	660																														
AD1000	Portion C-1A (within 480 to 550 days from starting date)			550	23-Oct-19 A	24-Apr-21 A	08-Dec-22	08-Dec-22		CD1010	AD1010																												
AD1010	Planned Access Date for Portion C-1A (Partial Access)			1	24-Apr-21 A	24-Apr-21 A	08-Dec-22	08-Dec-22		CD1010, AD1000	PL1470, S4C1010																												
AD1020	Planned Access Date for Portion C-1A (Access for Remaining Area)			1	12-May-21 A	12-May-21 A	08-Dec-22	08-Dec-22			S4C1010																												
AD1030	Portion C-2A (within 705 to 795 days from starting date) (SS by NCE-NCE-288, within 705 to 831 days from starting date)			831	23-Oct-19 A	30-Jan-22 A	11-Jun-25	11-Jun-25		CD1010	AD1040																												
AD1040	Planned Access Date for Portion C-2A			1	09-Sep-22 A	09-Sep-22 A	11-Jun-25	11-Jun-25		CD1010, AD1030																													
AD1050	Portion C-2B (within 765 to 855 days from starting date) (SS by NCE-NCE-286, within 765 to 880 days from starting date)			880	23-Oct-19 A	20-Mar-22 A	18-Feb-23	18-Feb-23		CD1010	AD1060																												
AD1060	Planned Access Date for Portion C-2B			1	07-Dec-22 A	07-Dec-22 A	18-Feb-23	18-Feb-23		CD1010, AD1050	S5CHPC1020																												
AD1070	Portion C-2C (within 715 to 805 days from starting date) (SS by NCE-NCE-287, within 715 to 934 days from starting date)			934	23-Oct-19 A	13-May-22 A	11-Oct-22	11-Oct-22		CD1010	AD1080																												
AD1080	Planned Access Date for Portion C2-C			1	20-Jul-23 A	20-Jul-23 A	11-Oct-22	11-Oct-22		CD1010, AD1070	S5DIGC1040, S5DIGC1210																												
AD1090	Portion C-2D (within 825 to 945 days from starting date)			945	23-Oct-19 A	24-May-22 A	24-May-22	24-May-22		CD1010	AD1100																												
AD1100	Planned Access Date for Portion C-2D			1	21-Aug-23	21-Aug-23*	24-May-22	24-May-22	-454	AD1090	S5BIOC1020, S5BIOC1030,																												
AD1110	Portion C-3 (within 615 to 705 days from starting date) (SS by NCE-NCE-273, within 615 to 815 days from starting date)			815	23-Oct-19 A	31-Dec-21 A	11-Jan-23	11-Jan-23		CD1010	AD1120																												
AD1120	Planned Access Date for Portion C-3 (SS by NCE-NCE-273)			1	31-Dec-21 A	31-Dec-21 A	11-Jan-23	11-Jan-23		AD1110, S2D1110	KD1060, S5WS2C1000,																												
AD1130	Portion B-1 (within 285 to 345 days from starting date)			345	23-Oct-19 A	30-Sep-20 A	16-Aug-23	16-Aug-23		CD1010	AD1140																												
AD1140	Planned Access Date for Portion B-1			1	30-Sep-20 A	30-Sep-20 A	16-Aug-23	16-Aug-23		AD1130	KD1030, S3C1020,																												
AD1150	Portion B-2a (within 615 to 705 days from starting date) (SS by NCE-NCE-219, within 771 to 891 days from starting date)			891	23-Oct-19 A	23-Mar-22 A	23-May-23	23-May-23		CD1010	AD1160																												
AD1160	Planned Access Date for Portion B-2a (SS by NCE-NCE-219)			1	23-Mar-22 A	23-Mar-22 A	23-May-23	23-May-23		AD1150	S5SASC1010, S5SASC1000																												
AD1170	Portion B-2b (within 615 to 705 days from starting date) (SS by NCE-NCE-219)			705	23-Oct-19 A	24-Sep-21 A	11-Jun-25	11-Jun-25																															
AD1180	Planned Access Date for Portion B-2b (SS by NCE-NCE-219)			1	24-Sep-21 A	24-Sep-21 A	11-Jun-25	11-Jun-25																															
AD1190	Works Area WA1-B (starting date)			1	23-Oct-19 A	23-Oct-19 A	03-Jan-23	03-Jan-23		CD1010	AD1200																												
AD1200	Planned Access Date for Works Area WA1-B			1	23-Oct-19 A	23-Oct-19 A	03-Jan-23	03-Jan-23		CD1010, AD1190	PL1000, PL1020																												
AD1210	Works Area WA3 (starting date)			1	23-Oct-19 A	23-Oct-19 A	25-Jul-24	25-Jul-24		CD1010	AD1220																												
AD1220	Planned Access Date for Works Area WA3			1	23-Oct-19 A	23-Oct-19 A	25-Jul-24	25-Jul-24		CD1010, AD1210	PL1000, PL1030																												
Key Dates				1842	23-Oct-19 A	06-Nov-24	08-May-23	11-Jun-25	217																														
Contractual Completion (Include Implemented CE)				1628	23-Oct-19 A	06-Apr-24	08-May-23	11-Jun-25	431																														
KD1000	KD1A Submission of Civil Requirement Dwgs, Elec. Schematic Dwgs of UV System No.1 and Effluent Pumping Station No.1			196	23-Oct-19 A	05-May-20 A	08-May-23	08-May-23		CD1010, S1D1040, S1D1100	CD1040, S4P1040																												
KD1010	KD2A Submission of Civil Requirement Dwgs, Elec. Schematic Dwgs of SD Bldg, SD & DC, CHP Bldg, Workshop No.2, etc.			226	23-Oct-19 A	04-Jun-20 A	11-Jun-25	11-Jun-25		CD1010, S2D1080, S2D1160	KD1020																												

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors	Gantt Chart																																																																							
										2020												2021												2022												2023												2024												2025											
										J	A	S	N	D	J	F	A	M	J	J	A	S	N	D	J	F	A	M	J	J	A	S	N	D	J	F	A	M	J	J	A	S	N	D	J	F	A	M	J	J	A	S	N	D																											
KD1020	KD2B Submission of Remaining Civil Requirement Dwgs, Elec. Schematic Dwgs of SD Bldg, SD & DC, CHP Bldg, etc.	461	23-Oct-19 A	16-Jan-21 A	11-Jun-25	11-Jun-25		CD1010, S2D1120, S2D1220, KD1010	SC21110																																																																								
KD1030	KD3A Completion of Phase 1 Commissioning of Sidestream Treatment Facilities (1140d after Portion B-1 Access)	1141	30-Sep-20 A	14-Nov-23*	21-Aug-23	14-Nov-23	0	AD1140	KD1040																																																																								
KD1040	Extension of Time Granted for KD3A (Total 144days)	144	15-Nov-23	06-Apr-24	15-Nov-23	06-Apr-24	0	KD1030	SC31110, KD1050																																																																								
KD1050	Revised Completion Date for KD3A	0		06-Apr-24*		06-Apr-24	0	KD1040																																																																									
KD1060	KD5A - Completion of BS Fitting at CLP Sub-Station at Workshop No.2 (245d after Portion C-3 Access)(Impacted by NCE-273)	246	31-Dec-21 A	02-Sep-22 A	11-Jun-25	11-Jun-25		AD1120, S5WS2C1010																																																																									
Expected Completion (Include Non-implemented CE)		1303	30-Sep-20 A	15-Jun-24	21-Aug-23	15-Jun-24	0																																																																										
KD1030-1	KD3A Completion of Phase 1 Commissioning of Sidestream Treatment Facilities (1140d after Portion B-1 Access)	1141	30-Sep-20 A	14-Nov-23*	21-Aug-23	14-Nov-23	0	AD1140	KD1040-1																																																																								
KD1040-1	Extension of Time Granted for KD3A (Total 144 days)	144	15-Nov-23	06-Apr-24	15-Nov-23	06-Apr-24	0	KD1030-1	SC31110, KD1045																																																																								
KD1045	Extension of Time for KD3A - Non-implemented (Total 70days)	70	07-Apr-24	15-Jun-24	07-Apr-24	15-Jun-24	0	KD1040-1	KD1050-1																																																																								
KD1050-1	Expected Completion Date for KD3A	0		15-Jun-24*		15-Jun-24	0	KD1045																																																																									
Planned Completion		765	02-Sep-22 A	06-Nov-24	06-Apr-24	11-Jun-25	217																																																																										
KD1050-2	Planned Completion Date for KD3A	0		06-Nov-24*		06-Apr-24	-214	S3T1230	SC31110																																																																								
KD1060-1	Planned Completion Date for KD5A	0		02-Sep-22 A		11-Jun-25		AD1120, S5WS2C1010																																																																									
Completion Date		2059	23-Oct-19 A	11-Jun-25	21-Aug-23	11-Jun-25	0																																																																										
Section 1 - Complete All Design at UV System No.1 & EP Station No. 1		312	23-Oct-19 A	08-Aug-20 A	11-Jun-25	11-Jun-25																																																																											
SC11000	Contract Duration of Section 1	291	23-Oct-19 A	08-Aug-20 A	11-Jun-25	11-Jun-25		CD1010	SC11100																																																																								
SC11100	Completion date - Section 1 (290 days after starting date)	0		08-Aug-20 A		11-Jun-25		SC11000	SC11120																																																																								
Time Risk Allowance and Planned Completion		1	08-Aug-20 A	08-Aug-20 A	11-Jun-25	11-Jun-25																																																																											
SC11110	Time Risk Allowance for Section 1	1	08-Aug-20 A	08-Aug-20 A	11-Jun-25	11-Jun-25		S1P1000, S1P1040,	SC11120																																																																								
SC11120	Planned Completion for Section 1	0		08-Aug-20 A		11-Jun-25		SC11110, SC11100	CD1040																																																																								
Section 2 - Complete All Designs (exclude Sec. 1 & 3)		632	23-Oct-19 A	11-Jun-21 A	11-Jun-25	11-Jun-25																																																																											
SC21000	Contract Duration of Section 2	601	23-Oct-19 A	11-Jun-21 A	11-Jun-25	11-Jun-25		CD1010	SC21100																																																																								
SC21100	Completion date - Section 2 (600 days after starting date)	0		11-Jun-21 A		11-Jun-25		SC21000	SC21120																																																																								
Time Risk Allowance and Planned Completion		9	11-Jun-21 A	11-Jun-21 A	11-Jun-25	11-Jun-25																																																																											
SC21110	Time Risk Allowance for Section 2	6	11-Jun-21 A	11-Jun-21 A	11-Jun-25	11-Jun-25		S2P1000, S2P1010,	SC21120																																																																								
SC21120	Planned Completion for Section 2	0		11-Jun-21 A		11-Jun-25		SC21110, SC21100, PL1490, PL1530	CD1040																																																																								
Section 3 - Complete Design, Construction & T&C for Sidestream Facilities		2059	23-Oct-19 A	11-Jun-25	21-Aug-23	11-Jun-25	0																																																																										
Contractual Completion (Include Implemented CE)		1765	23-Oct-19 A	21-Aug-24	21-Aug-23	21-Aug-24	0																																																																										
SC31000	Contract Duration of Section 3	1626	23-Oct-19 A	04-Apr-24	21-Aug-23	04-Apr-24	0		SC31001																																																																								
SC31001	Completion date - Section 3 (1625 days after starting date)	0		04-Apr-24*		04-Apr-24	0	SC31000	SC31002																																																																								
SC31002	NICE-CNE-0248 - Inclement Weather (May 2021) - 5days (Implemented)	5	05-Apr-24	09-Apr-24	05-Apr-24	09-Apr-24	0	SC31001	SC31003																																																																								
SC31003	NICE-CNE-0256 Inclement Weather (June 2021) - 14.5days (Implemented)	15	10-Apr-24	24-Apr-24	10-Apr-24	24-Apr-24	0	SC31002	SC31005																																																																								
SC31005	NICE-CNE-0264 Inclement Weather (July 2021) - 15days (Implemented)	15	24-Apr-24	09-May-24	24-Apr-24	09-May-24	0	SC31003	SC31006																																																																								
SC31006	NICE-CNE-0292 Inclement Weather (August 2021) - 19days (Implemented)	19	09-May-24	28-May-24	09-May-24	28-May-24	0	SC31005	SC31007																																																																								
SC31007	NICE-CNE-0293 Inclement Weather (September 2021) - 3.5days (Implemented)	4	28-May-24	31-May-24	28-May-24	31-May-24	0	SC31006	SC31010																																																																								
SC31010	NICE-CNE-0313 Inclement Weather (November 2021) - 0.5days (Implemented)	1	01-Jun-24	01-Jun-24	01-Jun-24	01-Jun-24	0	SC31007	SC31011																																																																								
SC31011	NICE-CNE-0343 Inclement Weather (December 2021) - 4days (Implemented)	4	01-Jun-24	05-Jun-24	01-Jun-24	05-Jun-24	0	SC31010	SC31012																																																																								
SC31012	NICE-CNE-0344 Inclement Weather (January 2022) - 0.5days (Implemented)	1	05-Jun-24	05-Jun-24	05-Jun-24	05-Jun-24	0	SC31011	SC31013																																																																								
SC31013	NICE-CNE-0345 Inclement Weather (February 2022) - 6.5days (Implemented)	7	06-Jun-24	12-Jun-24	06-Jun-24	12-Jun-24	0	SC31012	SC31014																																																																								

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	31-Jul-23	Rev.36		IM/LT	KM		
	31-Aug-23	Rev.37		IM/LT	KM		

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Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors	9	2020				2021				2022				2023				2024				2025						
										J	A	S	N	J	A	S	N	J	A	S	N	J	A	S	N	J	A	S	N	J	A	S	N	J	A	S	N
										-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CE0273	NCE-NCE-0273 - Change of Site Access Date to Workshop No. 2 Forming Part of Portion C-3 of the Site	0		24-Sep-21 A		11-Jun-25																															
CE0273a	NCE-NCE-0273 - Portion C-3 (within 615 to 815 days from starting date)	815	23-Oct-19 A	31-Dec-21 A	11-Jun-25	11-Jun-25			CE0273b																												
CE0273b	NCE-NCE-0273 - Revised Access Date for Portion C-3	1	31-Dec-21 A	31-Dec-21 A	11-Jun-25	11-Jun-25		CE0273a																													
CE0275	NCE-PMI-0275 - Additional Lighting Fittings for UV System No.1 & Effluent Pumping Station No.1	0		29-Sep-21 A		11-Jun-25																															
CE0277	NCE-PMI-0277 - Provision of Access Platform for the EOT Crane (LA-01-03) in Sludge Dewatering Building	0		27-Sep-21 A		11-Jun-25																															
CE0279	NCE-PPMI-0279 - Implementation of Digital Twin Pilot Project in Advance Works Area of Shek Wu Hui Sewage Treatment Works	0		11-Aug-22 A		11-Jun-25																															
CE0280	NCE-PMI-0280 - Employment of Temporary Staff under Job Creation Scheme 2.0 (JCS 2.0) under Anti-Epidemiv Fund (AEF)	0		21-Oct-21 A		11-Jun-25																															
CE0280a	PMI-PMI-0280 - Employment of Temporary Staff under Job Creation Scheme 2.0 (JCS 2.0) under Anti-Epidemiv Fund (AEF)	0		16-Jun-23 A		11-Jun-25																															
CE0283	NCE-PMI-0283 - Provision of Metal Base Plate,Stopper&Guide Rail for Loading&Unloading of Sludge Skip at Skip Rm of SDB	0		11-Nov-21 A		11-Jun-25																															
CE0284	NCE-PMI-0284 - Revised Road Lighting System for Zone C	0		03-Dec-21 A		11-Jun-25																															
CE0286	NCE-NCE-0286 - Change of Site Access Date to Combined Heat and Power Building Forming Part of Portion C-2B of the Site	0		21-Jan-22 A		11-Jun-25																															
CE0286a	NCE-NCE-0286 - Portion C-2B (within 765 to 880 days from starting date)	880	23-Oct-19 A	20-Mar-22 A	20-Mar-22	20-Mar-22			CE0286b																												
CE0286b	NCE-NCE-0286 - Revised Access Date for Portion C2-B	1	21-Aug-23	21-Aug-23*	20-Mar-22	20-Mar-22	-519	CE0286a																													
CE0287	NCE-NCE-0287 - Change of Site Access Date to Sludge Digester & Distribution Chamber Forming Part of Portion C- 2C	0		24-Dec-21 A		11-Jun-25																															
CE0287a	NCE-NCE-0287 - Portion C-2C (within 715 to 934 days from starting date)	934	23-Oct-19 A	13-May-22 A	13-May-22	13-May-22			CE0287b																												
CE0287b	NCE-NCE-0287 - Revised Access Date for Portion C2-C	1	21-Aug-23	21-Aug-23*	13-May-22	13-May-22	-465	CE0287a																													
CE0288	NCE-NCE-0288 - Change of Site Access Date to Sludge Dewatering Building Forming Part of the Portion C- 2A of the site	0		18-Dec-21 A		11-Jun-25																															
CE0288a	NCE-NCE-0288 - Portion C-2A (within 705 to 831 days from starting date)	831	23-Oct-19 A	30-Jan-22 A	30-Jan-22	30-Jan-22			CE0288b																												
CE0288b	NCE-NCE-0288 - Revised Access Date for Portion C-2A	1	21-Aug-23	21-Aug-23*	30-Jan-22	30-Jan-22	-568	CE0288a																													
CE0292	RCNE-CNE-0292 - Inclement Weather - August 2021 (Time Implication)	0		02-Nov-21 A		11-Jun-25																															
CE0293	RCNE-CNE-0293 - Inclement Weather - September 2021 (Time Implication)	0		02-Nov-21 A		11-Jun-25																															
CE0294	NCE-PMI-0294 - IIB for FAT for THP System	0		30-Nov-21 A		11-Jun-25																															
CE0296	NCE-PMI-0296 - Provision of emMIC Adoption of FRP Walkway and Platform for Sludge Digesters	0		03-Dec-21 A		11-Jun-25																															
CE0297	NCE-PMI-0297-Provision of Addit. Module BIM Collaboration Pro to existing CDE&Omission of Procurement Maintenance of CDE	0		03-Dec-21 A		11-Jun-25																															
CE0298	NCE-PMI-0298 - Additional Light Fittings at Roof Floor of UV System No.1 & Effluent Pumping Station No.1	0		30-Nov-21 A		11-Jun-25																															
CE0299	NCE-PMI-0299 - Revised Plumbing Layout for UV System No.1 & Effluent Pumping Station No.1	0		14-Dec-21 A		11-Jun-25																															
CE0300	NCE-PMI-0300 - Revised Plumbing Layout for CHP, DOU 12 and SD&DC	0		10-Mar-22 A		11-Jun-25																															
CE0301	NCE-PMI-0301 - Revised Plumbing Layout for SDB & FeCl3 Dosing System	0		24-Feb-22 A		11-Jun-25																															
CE0302	NCE-PMI-0302 - Revised Lighting Layout Plan for Workshop No.2	0		17-Dec-21 A		11-Jun-25																															
CE0303	NCE-CNE-0303 - Revise Fire Services Provision for Server Room of Workshop No.2	0		19-Jan-22 A		11-Jun-25																															
CE0304	NCE-PMI-0304 - Provision of Digital Displaying Screen and Softwarewithin Portion B Area	0		29-Dec-21 A		11-Jun-25																															
CE0305	NCE-PMI-0305 - Process Review for Advance Works	0		12-Jan-22 A		11-Jun-25																															
CE0306	NCE-CNE-0306 - Additional Trial Pits & the Associated Modification Works for Uncharted Utilities at STF	0		01-Mar-22 A		11-Jun-25																															
CE0307	NCE-PMI-0307 - Revised Quantity for Stoplogs of Sewage Pumping Station	0		13-Dec-21 A		11-Jun-25																															
CE0309	RCNE-CNE-0309 - Inclement Weather - October 2021 (Time Implication)	0		16-Dec-21 A		11-Jun-25																															

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										2020												2021												2022												2023												2024												2025											
										J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D																														
Section 2 - Complete All Designs (exclude Sec. 1 & 3)										1421	20-Nov-19 A	21-Aug-23	31-Oct-21	11-Jun-25	660																																																																		
Major Plant & Materials Procurement										571	20-Nov-19 A	23-Apr-21 A	11-Oct-22	11-Jun-25																																																																			
S2P1000	Procurement & PO for Sludge Screening System (S2)	150	18-May-20 A	16-Oct-20 A	13-Oct-22	13-Oct-22		S2P1020	SC21110, S2D1260, S5P1000, S2P1060, S2P1150, S5P1030																																																																								
S2P1010	Procurement & PO for Sludge Thickening System (S3)	180	20-Nov-19 A	08-Jun-20 A	17-Nov-22	17-Nov-22		PL1010, CD1010	SC21110, S2D1300, S2P1030																																																																								
S2P1020	Procurement & PO for Sludge Digestion System (S5)	150	18-Feb-20 A	12-Aug-20 A	11-Oct-22	11-Oct-22		CD1010, S2P1040	SC21110, S5DIGP1000, S2D1420, S5DIGP1010, S2P1180, S2P1210, S5P1040, S2P1000, S5P1020																																																																								
S2P1030	Procurement & PO for Sludge Dewatering System (S6)	180	20-Nov-19 A	08-Jun-20 A	17-Nov-22	17-Nov-22		PL1010, CD1010, S2P1010	SC21110, S2D1460																																																																								
S2P1040	Procurement & PO for THP System (S4)	180	20-Nov-19 A	05-Jun-20 A	11-Oct-22	11-Oct-22		CD1010, PL1010	SC21110, S5THPP1000, S2D1340, S2P1020																																																																								
S2P1050	Procurement & PO for Biogas Holding Tanks(S7)	180	20-Nov-19 A	20-Aug-20 A	17-Nov-22	17-Nov-22		PL1010	SC21110, S5BIOP1010, S2D1500																																																																								
S2P1060	Procurement & PO for H2S Removal System (S7)	234	17-Jul-20 A	17-Mar-21 A	13-Oct-22	13-Oct-22		S2P1000	SC21110, S5H2SP1000, S2D1500																																																																								
S2P1070	Procurement & PO for CHP System (S8)	180	20-Nov-19 A	08-Jun-20 A	22-Oct-22	22-Oct-22		PL1010	SC21110, S5CHPP1010, S2D1540, S2P1110																																																																								
S2P1080	Procurement & PO for Waste Gas Burning System (S9)	150	17-Jul-20 A	15-Jan-21 A	18-Feb-23	18-Feb-23			SC21110, S5WGBP1000																																																																								
S2P1090	Procurement & PO for Plant Service Water System (S12)	150	18-May-20 A	30-Sep-20 A	17-Nov-22	17-Nov-22			SC21110, S5PSWP1000, S2D1660, S2P1190																																																																								
S2P1100	Procurement & PO for SAS Pumping System (S14)	150	18-May-20 A	30-Sep-20 A	03-Feb-23	03-Feb-23			SC21110, S5SASP1000, S2D1700, S2P1220																																																																								
S2P1110	Procurement & PO for Transformers (S17)	150	18-Feb-20 A	13-Jul-20 A	22-Oct-22	22-Oct-22		S2P1070	SC21110, S5WS2P1000, S2P1120, S2P1140, S5TXRP1000																																																																								
S2P1120	Procurement & PO for 11 kV Switchboard (S17)	150	18-Feb-20 A	13-Jul-20 A	22-Oct-22	22-Oct-22		S2P1110	SC21110, S5WS2P1060, S2P1130																																																																								
S2P1130	Procurement & PO for 380V Switchboard (S17)	174	21-Nov-20 A	23-Apr-21 A	22-Oct-22	22-Oct-22		S2P1120, S2D1220	SC21110, S5WS2P1090, S5P1050, S5TXRP1010																																																																								
S2P1140	Procurement & PO for Control & Monitoring System (S18)	183	17-Jul-20 A	11-Jan-21 A	28-May-23	28-May-23		PL1010, S2P1110	SC21110, S5TXRP1020																																																																								
S2P1150	Procurement & PO for DO System (S21)	150	15-Apr-20 A	24-Jun-20 A	14-Feb-23	14-Feb-23		S2P1000	SC21110, S5DOUP1000, S2D1930																																																																								
S2P1160	Procurement & PO for Stoplog (S21)	90	18-Apr-20 A	17-Jul-20 A	18-Jun-23	18-Jun-23		PL1010, S1P1040	SC21110, S5SASP1010, S2P1170																																																																								

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S2D1190	Review & Comment of Elec. Schematic Drawings by PM (from formation level up to +8mPD)	21	24-Apr-20 A	08-May-20 A	22-Oct-22	22-Oct-22		S2D1180	S2D1250, S5WS2P1090, S2D1220, S2D1200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

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Gantt Chart Area																																																																																	
S3C2110	Installation of Separator for Anammox No. 1 and 2	34	01-Nov-23	04-Dec-23	03-Aug-23	06-Sep-23	-90	S3P1490, S3C2100	S3T1150																																																																								
S3C2120	Installation of Mixer for Thickened Sludge Tank, Sludge Mxing Tank, Anammox Effluent Chamber and Filtrate Buffer Tank	14	15-Jan-24	28-Jan-24	23-Aug-23	06-Sep-23	-145	S3P1960, S3C2190	S3T1090																																																																								
S3C2130	Installation of Diffusers and pipework for Phospaq	30	02-Feb-24	02-Mar-24	07-Aug-23	06-Sep-23	-179	S3P1950, S3C2100	S3T1140, S3C2140																																																																								
S3C2140	Installation of Diffusers and pipework for Anammox	30	02-Feb-24	02-Mar-24	07-Aug-23	06-Sep-23	-179	S3P1950, S3C2130	S3T1150																																																																								
S3C2150	Installation of Pipeworks, Associate Valves and Fittings	45	02-Dec-23	15-Jan-24	23-Jun-23	07-Aug-23	-162	S3C2000, S3C2010, S3C2020, S3C2030, S3C2040, S3C2050, S3C2060, S3C2070, S3C2080, S3P2060, S3P2070, S3P2020, S3P2160	S3T1000, S3T1070																																																																								
G/F		116	05-Dec-23	29-Mar-24	03-Jun-23	11-Jun-25	439																																																																										
S3C2155	Access to Sidestream Treatment Facilities (G/F)	0	05-Dec-23		03-Jun-23		-185	S3C1110	S3C2200, S3C2170, S3C2210, S3C2240, S3C2250, S3C2160, S3C2340, S3T1170, S3C2280, S3C2360																																																																								
S3C2160	E&M installation of DG Plant Room	45	05-Dec-23	18-Jan-24	01-Dec-23	14-Jan-24	-4	S3C2155, S3S1100	S3S1110																																																																								
S3C2170	Installation of EOT crane (LA-01)	45	16-Dec-23	29-Jan-24	24-Jul-23	07-Sep-23	-145	S3P1740, S3C2155	S3C2180, S3C2190, S3C2260																																																																								
S3C2180	Installation of EOT crane (LA-02)	45	30-Jan-24	14-Mar-24	28-Apr-25	11-Jun-25	454	S3C2170, S3P1740																																																																									
S3C2190	Installation of Monorail (LA-03)	30	16-Dec-23	14-Jan-24	24-Jul-23	23-Aug-23	-145	S3P1740, S3C2170	S3C2120																																																																								
S3C2200	Installation of NaOH Dosing Pumps, Micro-Nutrient Dosing Pumps, Defoamer Dosing Pumps and PAM Dosing Pumps (12 nos.)	14	04-Jan-24	17-Jan-24	03-Jul-23	17-Jul-23	-185	S3P1860, S3P1870, S3P1880, S3P1820, S3C2155, S3P1750, S3C2240	S3C2250, S3T1030, S3T1020, S3C2210																																																																								
S3C2210	Installation of PAM Tank, Deformer dissolving Tank, Micro-nutrient tank and NaOH Tank	7	04-Jan-24	10-Jan-24	31-Jul-23	07-Aug-23	-157	S3P1930, S3C2155, S3C2200	S3C2250, S3T1020																																																																								
S3C2240	Installation of Drum Sludge Thickener	30	05-Dec-23	03-Jan-24	03-Jun-23	03-Jul-23	-185	S3P1480, S3C2080, S3C2155	S3T1040, S3C2200																																																																								
S3C2250	Installation of Pipeworks, Associate Valves and Fittings	45	05-Dec-23	18-Jan-24	23-Jun-23	07-Aug-23	-165	S3C2280, S3C2200, S3C2210, S3P2060, S3P2070, S3P2020, S3C2155, S3P2160	S3T1000, S3C2430, S3T1070																																																																								
S3C2260	Installation of Monorail (LA-04)	30	30-Jan-24	28-Feb-24	13-Apr-25	12-May-25	439	S3P1740, S3C2170	S3C2270																																																																								
S3C2270	Installation of Monorail (LA-05)	30	29-Feb-24	29-Mar-24	13-May-25	11-Jun-25	439	S3P1740, S3C2260																																																																									
S3C2280	Installation of Primary Clarifiers No.1 and 2	30	05-Dec-23	03-Jan-24	28-Jun-23	28-Jul-23	-160	S3P1470, S3C2155	S3C2250, S3T1100																																																																								



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	File Name: DE/2018/03 RP R37 Layout: DE1803 RP (August 2023) - WBS Page 38 of 56	Remaining Work Critical Activity Milestone Actual Progress	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 Revised Programme - as at 20 August 2023	Date	Revision	Checked	Approved
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Activity ID		Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors	Gantt Chart																											

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Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors	Gantt Chart																																																																							
										2020												2021												2022												2023												2024												2025											
										J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D																		
S5TXRT1010	Ready for Power Energisation	3	13-Feb-24	15-Feb-24	13-May-23	16-May-23	-276	S5TXRC1020, S5TXRC1040, S5WS2C1060, S5WS2C1040, S5WS2C1130, S5TXRT1000	SC51110, S5SHPT1000, S5DOUT1000, S5PSWT1000																																																																								
Sludge Digesters & Distribution Chamber		928	06-Nov-21 A	05-Jun-24	11-Oct-22	11-Jun-25	371																																																																										
Fabrication, FAT & Delivery of Major Plant & Materials		698	06-Nov-21 A	15-Oct-23	11-Oct-22	21-Mar-23	-209																																																																										
S5DIGP1000	Fabrication & Delivery of Sludge Digestion System	180	06-Nov-21 A	29-Mar-23 A	11-Oct-22	11-Oct-22		S2P1020, S2D1450	S5DIGC1210																																																																								
S5DIGP1010	Fabrication & Delivery of FRP Walkway / Cover	480	01-Mar-22 A	10-Jun-23 A	21-Mar-23	21-Mar-23		S2P1020	S5DIGC1040, S5DIGC1050, S5DIGC1060, S5DIGC1070, S5DIGC1080																																																																								
S5DIGP1020	Fabrication & Delivery of Pipeworks & Associated Valves	60	31-Jul-23 A	15-Oct-23	13-Oct-22	08-Dec-22	-312	S5P1010	S5DIGC1110, S5DIGC1150, S5DIGC1190, S5DIGC1250																																																																								
Installation		316	29-Jun-23 A	31-May-24	11-Oct-22	11-Jun-25	376																																																																										
S5DIGC1000	Access to Sludge Digesters & Distribution Chamber (Impacted by EWN-0314)	1	20-Jul-23 A	20-Jul-23 A	11-Jun-25	11-Jun-25																																																																											
S5DIGC1010	Access to Sludge Digester No.1 & Distribution Chamber (Impacted by EWN-0314-1)	1	20-Jul-23 A	20-Jul-23 A	11-Jun-25	11-Jun-25																																																																											
S5DIGC1020	Access to Sludge Digesters - Remaining (Impacted by EWN-0314-1)	1	20-Jul-23 A	20-Jul-23 A	29-May-25	29-May-25			S5DIGC1050																																																																								
S5DIGC1022	Access to Sludge Digesters - Remaining (Impacted by EWN-0314-2)	1	20-Jul-23 A	20-Jul-23 A	11-Oct-22	11-Oct-22			S5DIGC1025																																																																								
S5DIGC1025	Actual Access Date	0	20-Jul-23 A		11-Oct-22			S5DIGC1022	S5DIGC1030																																																																								
S5DIGC1030	Mobilisation	15	20-Jul-23 A	03-Aug-23 A	11-Oct-22	11-Oct-22		S5DIGC1025	S5DIGC1210, S5DIGC1040																																																																								
E&M Installation		229	29-Jun-23 A	05-Mar-24	11-Oct-22	11-Jun-25	463																																																																										
FRP Walkway / Cover Installation		115	06-Oct-23	28-Jan-24	21-Mar-23	11-Jun-25	500																																																																										
S5DIGC1040	Installation of Working Platform for Digester 1 (Roof)	14	20-Oct-23	02-Nov-23	24-Jan-24	07-Feb-24	97	AD1080, S5DIGP1010, S5DIGC1030, S5DIGC1100, S5DIGC1060	SC51110, PL1210, PL1310, S5DIGC1050																																																																								
S5DIGC1050	Installation of Working Platform for Digester 3 (Roof)	14	03-Nov-23	16-Nov-23	29-May-25	11-Jun-25	573	S5DIGC1020, S5DIGC1140, S5DIGP1010, S5DIGC1040																																																																									
S5DIGC1060	Installation of Working Platform for Digester 4 (Roof)	14	06-Oct-23*	19-Oct-23	10-Jan-24	24-Jan-24	97	S5DIGC1180, S5DIGP1010	S5DIGC1040																																																																								
S5DIGC1070	Installation of Working Platform for Distribution Chamber & Overflow Chamber	75	01-Nov-23*	14-Jan-24	21-Mar-23	04-Jun-23	-225	S5DIGP1010	S5DIGC1080																																																																								
S5DIGC1080	Installation of Working Platform for Digester 2 (Roof)	14	15-Jan-24	28-Jan-24	04-Jun-23	18-Jun-23	-225	S5DIGC1070, S5DIGP1010	S5DIGT1020																																																																								
Sludge Digester 1		105	08-Aug-23 A	03-Dec-23	02-Mar-23	15-Jun-23	-172																																																																										
S5DIGC1090	Installation of Sludge Mixer (4 nos.)	19	08-Aug-23 A	26-Aug-23	02-Mar-23	08-Mar-23	-172	S5DIGC1180	S5DIGC1100																																																																								
S5DIGC1100	Installation of Motor with Belt adjustment	18	27-Aug-23	13-Sep-23	08-Mar-23	26-Mar-23	-172	S5DIGC1090	S5DIGC1110, S5DIGC1130, S5DIGC1040																																																																								
S5DIGC1110	Installation of Pipework, Valve, Inpsection Window, Telescopic Valve & Instruments	45	20-Oct-23	03-Dec-23	01-May-23	15-Jun-23	-172	S5DIGC1100, S5DIGP1020, S5DIGC1150	S5DIGC1120																																																																								
S5DIGC1120	Installation of Electrical System	45	20-Oct-23	03-Dec-23	01-May-23	15-Jun-23	-172	S5DIGC1110, S5P1050	S5DIGT1010																																																																								
Sludge Digester 3		81	14-Sep-23	03-Dec-23	26-Mar-23	15-Jun-23	-172																																																																										
S5DIGC1130	Installation of Sludge Mixer (4 nos.)	18	14-Sep-23	01-Oct-23	26-Mar-23	13-Apr-23	-172	S5DIGC1100	S5DIGC1140																																																																								
S5DIGC1140	Installation of Motor with Belt adjustment	18	02-Oct-23	19-Oct-23	13-Apr-23	01-May-23	-172	S5DIGC1130	S5DIGC1150, S5DIGC1050																																																																								
S5DIGC1150	Installation of Pipework, Valve, Inpsection Window, Telescopic Valve & Instruments	45	20-Oct-23	03-Dec-23	01-May-23	15-Jun-23	-172	S5DIGC1140, S5DIGP1020	S5DIGC1160, S5DIGC1110, S5DIGC1190																																																																								
S5DIGC1160	Installation of Electrical System	45	20-Oct-23	03-Dec-23	01-May-23	15-Jun-23	-172	S5DIGC1150, S5P1050	S5DIGT1010																																																																								

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S5WS2T1020	SAT for Lift	60	22-Apr-24	20-Jun-24	02-Mar-24	01-May-24	-51	S5WS2C1190, S5WS2T1010	S5S1090																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

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S5SHPC1020	Fire Hydrant and Booster Pump Room Installation	63	30-Nov-23*	31-Jan-24	06-Oct-23	08-Dec-23	-55	S5S1120, AD1100, S5SHPC1000, S5SHPC1010, S5SHPP1000, S5SHPC1015	S5S1130, S5SHPT1000, PL1210																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													

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File Name: DE/2018/03 RP R37
Layout: DE1803 RP (August 2023) - WBS
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Remaining Work

Critical Activity

Milestone

Actual Progress

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

Revised Programme - as at 20 August 2023

Date	Revision	Checked	Approved
30-Apr-23	Rev.33	IM/LT	KM
31-May-23	Rev.34	IM/LT	KM
30-Jun-23	Rev.35	IM/LT	KM
31-Jul-23	Rev.36	IM/LT	KM
31-Aug-23	Rev.37	IM/LT	KM

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	File Name: DE/2018/03 RP R37 Layout: DE1803 RP (August 2023) - WBS Page 54 of 56	Remaining Work Critical Activity Milestone Actual Progress	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 Revised Programme - as at 20 August 2023		Date	Revision	Checked	Approved
	30-Apr-23	Rev.33		IM/LT	KM			
	31-May-23	Rev.34		IM/LT	KM			
	30-Jun-23	Rev.35		IM/LT	KM			
	31-Jul-23	Rev.36		IM/LT	KM			
	31-Aug-23	Rev.37		IM/LT	KM			

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors	Gantt Chart																																															
										J	A	S	N	D	J	F	A	M	J	J	A	S	O	N	D	J	F	A	M	J	J	A	S	O	N	D	J	F	A	M	J	J	A	S	O	N	D										
S5T1200	Plant Commissioning Tests	45	02-Apr-25	16-May-25	23-May-24	07-Jul-24	-314	S5T1190, S5S1020, S5TXRC1050, S5WS2C1180, S5S1150, S3T1320	SC51110																																																
Statutory Submission / Inspection		1335	03-Oct-20 A	01-Jan-25	03-Nov-22	02-Aug-24	-153																																																		
HKT Submission		180	02-Mar-24	28-Aug-24	09-Jan-24	07-Jul-24	-53																																																		
S5S0990	Application of Telemetry Lines for Workshop No. 2.	180	02-Mar-24	28-Aug-24	09-Jan-24	07-Jul-24	-53	S5WS2C1180	SC51110																																																
CLP Submission		793	30-May-21 A	21-Aug-23	13-Feb-23	14-Feb-23	-189																																																		
S5S1000	Submission & Approval of Electrical Schematic Wiring Diagram to CLP	793	30-May-21 A	21-Aug-23	13-Feb-23	14-Feb-23	-189		S5WS2C1040																																																
EPD Submission / Inspection		821	28-Aug-21 A	26-Oct-23	03-Nov-22	20-Jan-23	-280																																																		
S5S1010	EPD Submission & Approval for Air Pollution Control - Genset	220	01-Mar-23 A	26-Oct-23	03-Nov-22	09-Jan-23	-291	S2D1860	S5SDBC1770																																																
S5S1020	EPD Submission & Approval for Air Pollution Control - CHP & Burner	180	28-Aug-21 A	29-Sep-22 A	20-Jan-23	20-Jan-23		S2D1610	S5T1200, S5THPC1020, S5CHPC1020																																																
EMSD Submission / Inspection		1335	03-Oct-20 A	01-Jan-25	11-Jan-23	02-Aug-24	-153																																																		
S5S1030	BEE0 Stage one: Submit EE1 & EE-SU to EMSD	60	03-Oct-20 A	02-Dec-20 A	11-Jan-23	11-Jan-23		S2D1890	S5WS2C1000																																																
S5S1040	BEE0 Stage two: Submit EE2 & EE-SU to EMSD	60	03-Nov-24	01-Jan-25	03-Jun-24	02-Aug-24	-153	S5S1250	SC51120																																																
S5S1050	Application & Approval of the Zone Classification of Hazardous Area - including Fire Risk Assessment Report	180	15-Nov-21 A	30-Aug-22 A	16-Feb-23	16-Feb-23		S2D1070	S5S1070, S5S1060																																																
S5S1060	Application for Construction Approval of Notifiable Gas Installation (Form 104)	180	15-Nov-21 A	30-Aug-22 A	16-Feb-23	16-Feb-23		S2D1070, S5S1050	S5S1070, S5BIOC1020																																																
S5S1070	Application for Approval of Use of Notifiable Gas Installation (Form 105)	28	07-Jul-24	03-Aug-24	04-Sep-23	02-Oct-23	-307	S5S1060, S5T1070, S5S1050	S5S1080																																																
S5S1080	EMSD Inspection - Gas Holding Tanks	14	04-Aug-24	17-Aug-24	02-Oct-23	16-Oct-23	-307	S5S1070	S5T1120																																																
S5S1090	Form 5 Submission to EMSD - Lift Installation	0	21-Jun-24		01-May-24		-51	S5WS2T1020, S5SDBT1070	S5S1100																																																
S5S1100	EMSD Inspection - Lift Installation	7	21-Jul-24	27-Jul-24	31-May-24	07-Jun-24	-51	S5S1090	S5S1110																																																
S5S1110	Issuance of Form 6 - Lift Installation	0		26-Aug-24		07-Jul-24	-51	S5S1100	SC51110																																																
WSD Submission / Inspection		1160	01-Jul-21 A	02-Sep-24	06-Oct-23	07-Jul-24	-58																																																		
S5S1120	Submit WWO46 Part I / II to WSD (FS/PD)	30	01-Jul-21 A	30-Jul-21 A	06-Oct-23	06-Oct-23		S2D1910, S2D1860, S2D1870, S2D1880, S2D1890, S2D1900	S5S1130, S5WS2C1140, S5SHPC1020, S5DIGC1300, S5WS2C1170																																																
S5S1130	Submit WWO46 Part IV to WSD (FS)	0	01-Feb-24		08-Dec-23		-55	S5S1120, S5WS2C1140, S5SHPC1020, S5SDBC1800, S5SDBC1690, S5SDBC1600	S5S1140, S5S1150																																																
S5S1140	WSD Inspection (FS)	28	15-Feb-24	13-Mar-24	22-Dec-23	19-Jan-24	-55	S5S1130	S5S1250, S5S1150																																																
S5S1150	Issuance of FS Water Certificate	0		10-Apr-24		16-Feb-24	-55	S5S1130, S5S1140	S5T1200, S5S1220																																																
S5S1160	Submit WWO46 Part IV to WSD (PD)	0	01-Jun-24		04-Apr-24		-58	S5SPSC1020, S5CHPC1240, S5CHPC1110, S5DIGC1300, S5WS2C1170, S5SDBT1190	S5S1170																																																
S5S1170	WSD Inspection	7	15-Jun-24	21-Jun-24	18-Apr-24	25-Apr-24	-58	S5S1160	S5S1180																																																
S5S1180	Issuance of Form WWO46 Part Va	0		05-Jul-24		09-May-24	-58	S5S1170	S5S1200, S5S1190																																																
S5S1190	System Flushing / Sampling	45	06-Jul-24	19-Aug-24	09-May-24	23-Jun-24	-58	S5S1180	S5S1200																																																
S5S1200	Issuance of Form WWO46 Part Vb	0		19-Aug-24		23-Jun-24	-58	S5S1180, S5S1190	S5S1210																																																
S5S1210	Issuance of Water Certificate	0		02-Sep-24		07-Jul-24	-58	S5S1200	SC51110																																																
FSD Submission / Inspection		491	29-Apr-22 A	02-Nov-24	19-Jan-23	03-Jun-24	-153																																																		

[illegible]

 Remaining Work
 Critical Activity
 Milestone
 Actual Progress

Date	Revision	Checked	Approved
30-Apr-23	Rev.33	IM/LT	KM
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30-Jun-23	Rev.35	IM/LT	KM
31-Jul-23	Rev.36	IM/LT	KM
31-Aug-23	Rev.37	IM/LT	KM

Contract No. DE/2018/04
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1
- E&M Works for Sewage Treatment Facilities
3 Month Rolling Programme (From 01/09/2023 to 01/11/2023)

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

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

Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencem ent Date	Anticipated / Actual Commencem ent Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	KD3B: Testing and Comissioning for PST No. 6	11/5/2021	22/6/2021	9/6/2021	20/8/2021	Task Completed				100%		Wet test (1st) completed on 20 Aug 2021 and wet test (2nd) completed on 3 Sep 2021.
KD3B: 6B.2.15 Operation Restoration of Existing Primary Sedimentation Tank (PST) No. 4 and 6	KD3B: System Commissioning for PST No. 4 & 6	N/A	22/6/2021	N/A	3/9/2021	Task Completed				100%		Wet test (2nd) for PST#6 completed on 3 Sep 2021 and pre-handover inspection arranged on 30 Aug 2021. Defect list (final) received on 17 Sep 2021 and defect rectification was completed. Site training/ demonstration shall be conducted by end Feb and PMI modification work shall be completed by end March.
	KD3B: 9 June 2021											
Section 1 of Works (outstanding works list)												
6B.2.12 Provision of New Replacement Filter Plates	Submission of onsite survey plan for acceptance	1/3/2020	25/3/2020	30/3/2020	21/4/2020	not yet commenced				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	not yet commenced				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	not yet commenced				100%		
	Acceptance of onsite survey report	30/5/2020	30/5/2020	15/6/2020	15/6/2020	not yet commenced				-		
	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	not yet commenced				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	not yet commenced				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	- * = PM1014 - Revised Location for Construction of Temporary Filtrate Equalization System reveiced on 17 Aug 2020. - Re-design work was proceeded and the planned start date was revised to 17 Aug 2020. Bestwise submitted Rev.0 on 21 Oct 2020 and resubmitted Rev.2 on 23 Jan 2021. - AECOM provide consent for the ELS temporary works on 9 Feb 2021. AECOM accepted on 9 Feb 2021.
	Submission and Acceptance of Design for Filtrate Lifting Well Construction	15/06/2020 -> 17/08/2020*	2/9/2020	30/07/2020 -> 30/11/2020*	15/1/2021	Task Completed				100%		* = PM1014 - Revised Location for Construction of Temporary Filtrate Equalization System reveiced on 17 Aug 2020. - Re-design work was proceeded and the planned start date was revised to 17 Aug 2020. AECOM commented on 21 Dec 2020. Bestwise submitted Rev.0 on 2 Nov 2020 and Rev.1 on 8 Jan 2021.
	Submission and Acceptance of Design of FRP Filtrate Equalization Tank	15/06/2020 -> 07/09/2020**	2/9/2020	30/07/2020 -> 22/10/2020*	15/1/2021	Task Completed				100%		** = Change of material of temporary filtrate equalization tank from concrete to FRP on 07 Sep 2020. - Re-design work was proceeded and the planned start date was revised to 17 Aug 2020.
	Submission and Acceptance of Design of footing for FRP Filtrate Equalization Tank	15/06/2020 -> 07/09/2020**	2/9/2020	30/07/2020 -> 22/10/2020*	19/2/2021	Task Completed				100%		** = Change of material of temporary filtrate equalization tank from concrete to FRP on 07 Sep 2020. - Re-design work was proceeded and the planned start date was revised to 17 Aug 2020.
	Submission and Acceptance of Design of Formwork & Flasework Design for Construction of Lifting Well	15/06/2020 -> 17/08/2020*	2/9/2020	30/07/2020 -> 30/11/2020*	15/1/2021	Task Completed				100%		- * = PM1014 - Revised Location for Construction of Temporary Filtrate Equalization System reveiced 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 Commencem ent Date	Anticipated / Actual Commencem ent Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	Submission and Acceptance of Contractor's Design for Temporary Filtrate Equalisation System (E&M Works) (CDS010-2)	01/06/2020 -> 7/9/2020**	5/7/2020	30/07/2020 - > 30/11/2020* *	30/7/2021	Task Completed				-	Bestwise	** = Change of material of temporary filtrate equalization tank from concrete to FRP on 07 Sep 2020. - Bestwise submitted (CDS 0010 Rev.0) on 6 August 2020, AECOM commented on 27 Aug 2020. Bestwise to resubmit (Separate submissions P&M0049, DWG0038, CDS0026, P&M0008, P&M0004, CDS0037, CDS0027, DWG0040 were submitted) - Control philosophy (CDS0027 Rev.0) was submitted on 22 Dec 2020. AECOM commented on 13 Jan 2021, Bestwise resubmitted on 27 May 2021 formally, AECOM accepted with comments on 4 Jun 2021.
	Drawing Submission	01/06/2020 -> 17/08/2020*	29/9/2020	30/07/2020 - > 30/11/2020*	5/3/2021	Task Completed				100%	Bestwise	- * = PMI014 - Revised Location for Construction of Temporary Filtrate Equalization System reveiced on 17 Aug 2020. - Bestwise submitted (rev.0) on 29 Oct 2020 and resubmitted (rev.2) on 25 Jan 2021, AECOM accepted on 5 Feb 2021.
	Material Submission	01/06/2020 -> 17/08/2020*	29/11/2020	30/07/2020 - > 30/11/2020*	25/2/2021	Task Completed				100%	Bestwise	** = Change of material of temporary filtrate equalization tank from concrete to FRP on 07 Sep 2020. - P&M submission of temporary filtrate equalization tank (P&M 0030 Rev.1) on 29 Jan 2021. AECOM accepted subject to comments on 25 Feb 2021.
Subletting Package for Temporary Filtrate Equalization System	Tender invitation (C11) (EQT-002 & EQT-004)	17/4/2020	17/4/2020	7/5/2020	7/5/2020	Task Completed				100%		
	Tender award (C11) (EQT-002 & EQT-004)	14/4/2020	24/4/2020	13/5/2020	13/5/2020	Task Completed				100%	Bestwise	Bestwise submitted tender report on 29 April 2020 for filtrate pumps, AECOM commented on 29 May 2020, Bestwise to resubmit. Bestwise submitted tender report of instrument on 13 May 2020, AECOM noted on 26 May
	Acceptance of tender award (C11) (EQT-002 & EQT-	25/4/2020	25/4/2020	21/5/2020	21/5/2020	Task Completed				100%	Bestwise	
	Material Submission	20/07/2020 ->	16/10/2020	20/08/2020 -	5/2/2021	Task Completed				-	Bestwise	** = Change of material of temporary filtrate equalization tank from concrete to FRP on 18
	Submission of subletting package for acceptance (C9)	1/3/2020	13/7/2020	14/3/2020	13/7/2020	Task Completed				100%		
	Acceptance of subletting package (C9)	15/3/2020	14/7/2020	28/3/2020	14/7/2020	Task Completed				100%		
	Tender invitation (C9)	29/3/2020	15/7/2020	11/4/2020	22/7/2020	Task Completed				100%		
	Tender award (C9)	12/4/2020	23/7/2020	25/4/2020	13/8/2020	Task Completed				100%		
	Acceptance of tender award for civil construction work (C9)	26/04/2020	14/8/2020	5/5/2020	2/9/2020	Task Completed				100%		
	Preparation of subletting package for mech work (C9)	01/08/2020 -> 01/12/2020*	25/1/2021	08/08/20 -> 08/12/2020*	1/3/2021	Task Completed				100%		* = PMI014 - Revised Location for Construction of Temporary Filtrate Equalization System reveiced on 17 Aug 2020. Subletting package would was submitted on 25 Feb 2021 and AECOM accepted on 1 Mar
	Tender invitation for mech work (C9)	08/08/20 ->	2/3/2021	15/08/2020 -	9/3/2021	Task Completed				100%		Tender invitation was conducted on 2 Mar 2021 and returned on 9 Mar 2021
	Tender Award for mech work (C9)	15/08/2020 ->	10/3/2021	22/08/2020 -	15/3/2021	Task Completed				100%		Tender report was submitted on 15 Mar 2021
	Acceptance of tender award for mech work (C9)	22/08/2020 ->	15/3/2021	29/08/2020 -	19/3/2021	Task Completed				100%		Tender award on 19 Mar 2021.
	Preparation of subletting package for elect work (C9)	01/08/2020 -> 01/12/2020*	2/2/2021	08/08/20 -> 08/12/2020*	1/3/2021	Task Completed				100%		* = PMI014 - Revised Location for Construction of Temporary Filtrate Equalization System reveiced on 17 Aug 2020. Subletting package resubmitted on 26 Feb 2021 and AECOM accepted on 1 Mar 2021..
	Tender invitation for elect work (C9)	01/08/2020 ->	2/3/2021	15/08/2020 -	9/3/2021	Task Completed				100%		Tender invitation was conducted on 2 Mar 2021 and returned on 9 Mar 2021
	Tender Award for elect work (C9)	08/08/20 ->	10/3/2021	22/08/2020 -	15/3/2021	Task Completed				100%		Tender report was submitted on 15 Mar 2021
	Acceptance of tender award for elect work (C9)	15/08/2020 -> 15/12/2020*	15/3/2021	29/08/2020 - >	19/3/2021	Task Completed				100%		Tender award on 19 Mar 2021.
Construction of Temporary Filtrate Equalisation System	Construction of minor civil works under PMI 014	22/08/2020 -> 22/12/2020*	5/10/2020	15/10/2020	31/3/2021	Task Completed				100%	Bestwise	Utilities survey report of lifting well and EQ tank were submitted on 23 Sept 2020 and 29 Sept 2020. AECOM commented lifting well on 29 Sept 2020.
	RC Structure Works of lifting well	7/11/2020	12/1/2021	30/12/2020	25/2/2021	Task Completed				100%		
	Construction of concrete plinth for filtrate EQ tank	23/1/2021	8/2/2021	1/2/2021	26/2/2021	Task Completed				100%		
	Offsite fabrication and delivery of filtrate EQ tank	31/10/2020	16/1/2021	2/2/2021	4/3/2021	Task Completed				100%		First batch of filtrate EQ tank panel was delivered on 4 Mar 2021.
	Onsite assembly of filtrate EQ tank	2/2/2021	1/3/2021	12/3/2021	16/4/2021	Task Completed				100%		
6B.2.16 Temporary Filtrate Equalisation System	Mechanical Installation	17/3/2021	30/3/2021	12/4/2021	14/5/2021	Task Completed				-		
	Electrical Installation	13/3/2021	29/3/2021	15/4/2021	10/12/2021	Task Completed				-		PLC programme for water spray system (stage 1) is on-going, motorized gate valve for stage 2 under PMI is being fabricated and the delivery lead time is by end November.
	Testing and Comissioning	15/4/2021	22/4/2021	1/5/2021	30/11/2022	Completed				-		Defect rectification for BCM comments was partially completed and Site Acceptance Test (72 hours) was completed.
6B.1.17 Overall plant treatment process review by the Treatment Process Specialist	Submission of Treatment Process Specialist's review report	1/6/2020	1/6/2020	30/6/2020	2/7/2020	not yet commenced				-	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	not yet commenced				-		

Contract No. DE/2018/04
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1
- E&M Works for Sewage Treatment Facilities
3 Month Rolling Programme (From 01/09/2023 to 01/11/2023)

Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencem ent Date	Anticipated / Actual Commencem ent Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
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	not yet commenced				-	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	not yet commenced				-		
6B.2.1 Inlet Works	Submission of Contractor's Design for Inlet Works No. 1	6/9/2020	16/11/2020	14/5/2021	31/8/2023	not yet commenced				-	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	31/8/2023	not yet commenced						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	31/8/2023	not yet commenced						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	31/8/2023	not yet commenced						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	31/8/2023	not yet commenced				-		
	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	31/8/2023	not yet commenced				-	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	31/8/2023	not yet commenced						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 Commencem ent Date	Anticipated / Actual Commencem ent Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	Submission of GA Drawing	6/9/2020	3/2/2021	14/5/2021	31/8/2023	not yet commenced						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	31/8/2023	not yet commenced						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	31/8/2023	not yet commenced				-		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	31/8/2023	not yet commenced						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	31/8/2023	not yet commenced						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	31/8/2023	not yet commenced				-		
	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 Commencem ent Date	Anticipated / Actual Commencem ent Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	KD1A: Submission of civil requirement drawing for Temporary Chemical System up to +8.0 mPD (Final)	7/9/2020	16/9/2020	5/11/2020	5/11/2020	Task Completed	no.	1	1	100%		Bestwise resubmitted (Rev.A) on 5 Nov 2020.
	KD1A: Submission of electrical schematic drawings for Temporary Chemical System (First Draft)	15/7/2020	15/7/2020	15/8/2020	15/9/2020	Task Completed				-		1st draft of drawing to be submitted by 16 September 2020
	KD1A: Submission of electrical schematic drawings for	7/9/2020	16/9/2020	5/11/2020	5/11/2020	Task Completed						
	KD1A: 6 November 2020											Notice of completion works was submitted on 17 Nov 2020
6B.2.4 Membrane Bioreactor (MBR) System - Bio Reactor 2A and 2B	Submission of Contractor's Design for Bioreactor 2A and 2B (CDS004)	6/9/2020	12/1/2021	14/5/2021	31/8/2023	not yet commenced				-	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	31/8/2023	not yet commenced						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	31/8/2023	not yet commenced						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	31/8/2023	not yet commenced						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	31/8/2023	not yet commenced				-		Refer to outstanding list under "Certificate of completion no.1 - section 1 of the works".
	Submission of detailed design for electrical installation	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for LV Switchboards for BR 2A and 2B (CDS025-3)	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for electrical installation	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of civil work requirements for BR 2A and 2B up to +8.0 mPD (CDS080-3)	1/9/2020	1/9/2020	30/10/2020	30/10/2020	Task Completed						
	KD1A: Submission of civil requirement drawing for BR 2A and 2B up to +8.0 mPD (First Draft)	15/7/2020	15/7/2020	15/8/2020	30/9/2020	Task Completed	no.	2	2	100%		1st draft of drawing submitted on 30 September 2020
	KD1A: Submission of civil requirement drawing for BR 2A and 2B up to +8.0 mPD (Final)	28/8/2020	1/10/2020	5/11/2020	5/11/2020	Task Completed	no.	2	2	100%	Bestwise	AECOM commented on 23 Oct 2020, Bestwise resubmitted on 5 Nov 2020.
	KD1A: Submission of electrical schematic drawings for BR 2A and 2B (First Draft)	15/7/2020	15/7/2020	15/8/2020	30/9/2020	Task Completed				-		1st draft of drawing was sent to AECOM via email on 15 September 2020
	KD1A: Submission of electrical schematic drawings for	7/9/2020	1/10/2020	5/11/2020	5/11/2020	Task Completed						
	KD1A: 6 November 2020											Notice of completion works was submitted on 17 Nov 2020
6B.2.4 Membrane Bioreactor (MBR) System - Membrane Filtration System No. 2 (MFB No. 2)	Submission of Contractor's Design for Membrane Filtration System (CDS005)	6/9/2020	11/1/2021	14/5/2021	31/8/2023	not yet commenced				-	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	31/8/2023	not yet commenced						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	31/8/2023	not yet commenced						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)

Contract No. DE/2018/04
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1
- E&M Works for Sewage Treatment Facilities
3 Month Rolling Programme (From 01/09/2023 to 01/11/2023)

Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencem ent Date	Anticipated / Actual Commencem ent Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	Submission of Electrical Drawing	15/4/2021	15/1/2021	14/5/2021	31/8/2023	not yet commenced						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	31/8/2023	not yet commenced				-		
	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	31/8/2023	not yet commenced						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	31/8/2023	not yet commenced						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	31/8/2023	not yet commenced				-		
	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	31/8/2023	not yet commenced				-	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	31/8/2023	not yet commenced						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	31/8/2023	not yet commenced				-		
	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 Commencem ent Date	Anticipated / Actual Commencem ent Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	Submission of GA Drawing of DOU No. 3A	6/9/2020	8/7/2020	14/5/2021	31/8/2023	not yet commenced				-	Bestwise	Bestwise submitted (rev.1) on 28 Oct 2020. AECOM commeneted on 16 Dec 2020. Bestwise resubmitted on 24 June 2021. Finalized drawings shall be submitted by 30 June 2022 and BIM GA review meeting is scheduled on 27/4/2022, 4, 11/5/2022.
	Submission of Electrical Drawing of DOU No. 3A	21/3/2021	26/2/2021	14/5/2021	31/8/2023	not yet commenced						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	31/8/2023	not yet commenced						
	KD1A: Submission of civil requirement drawing for Deodorisation System , DOU No. 3A up to +8.0 mPD	15/7/2020	15/7/2020	15/8/2020	28/9/2020	Task Completed	no.	1	1	100%		1st draft of drawing was submitted on 28 September 2020
	KD1A: Submission of civil requirement drawing for Submission of Contractor's Design for Deodorisation System , DOU No. 3B (CDS0019 & CDS0049)	28/8/2020	29/9/2020	2/11/2020	5/11/2020	Task Completed	no.	1	1	100%	Bestwise	Bestwise resubmitted (rev.1) on 5 Nov 2020.
		6/9/2020	6/9/2020	14/5/2021	10/12/2021	Task Completed						CDS0019: Design Calculation for Deodorisation System (status: B) CDS0049: Design Calculation on DOU3B - air extraction fan (status: B)
	Submission of P&ID Drawing of DOU No. 3B	6/9/2020	5/8/2020	14/5/2021	2/7/2021	Task Completed				-	Bestwise	Bestwise resubmitted rev.3 on 29 Mar 2021. AECOM accepted subject to comments on 13 Apr 2021.
	Submission of GA Drawing of DOU No. 3B	6/9/2020	6/9/2020	14/5/2021	31/8/2023	not yet commenced						Bestwise submitted DWG0081 (rev.0) on 5 Feb 2021. AECOM commeneted on 12 Mar 2021. Bestwise to resubmit. Finalized drawings shall be submitted by 30 June 2022 and BIM GA review meeting is scheduled on 16, 23, 30/6/2022.
	Submission of Electrical Drawing of DOU No. 3B	21/3/2021	22/2/2021	14/5/2021	31/8/2023	not yet commenced						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	31/8/2023	not yet commenced				-		
	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						
04SC008 - Design, Supply and Installation of detailed design for lifting appliances	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	31/8/2023	not yet commenced						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	31/8/2023	not yet commenced						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	31/8/2023	not yet commenced						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	31/8/2023	not yet commenced						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	31/8/2023	not yet commenced						Design calculations and drawings for inlet works was submitted on 16 Dec 2020. AECOM commented on 15 Jan 2021 and 20 Jan 2021. Design calculations and drawings for PST was submitted on 30 Dec 2020. AECOM commented on 22 Jan 2021 and 26 Jan 2021. Design calculations and drawings for MFB2 was submitted on 29 Jan 2021. AECOM commented on 26 Mar 2021. Subletting package resubmitted by 18 Mar 2021. AECOM accepted on 19 Mar 2021. Finalized design shall be submitted by 20 Jan 2023.

Contract No. DE/2018/04
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1
- E&M Works for Sewage Treatment Facilities
3 Month Rolling Programme (From 01/09/2023 to 01/11/2023)

Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencem ent Date	Anticipated / Actual Commencem ent Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
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	Rail Beam Installation at Basement 2	12/5/2023	22/5/2023	11/7/2023								
	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								
Section 3 of Works												
6B.2.12 Provision of New Replacement Filter Plates	Submission of onsite survey plan for acceptance	1/3/2020	25/3/2020	30/3/2020	21/4/2020	not yet commenced				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	not yet commenced				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	not yet commenced				100%		
	Acceptance of onsite survey report	30/5/2020	30/5/2020	15/6/2020	15/6/2020	not yet commenced				-		
	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.
6B.2.12 Provision of New Replacement Filter Plates for Existing Membrane Filter Presses at Existing Sludge Press House	Material Delivery	1/12/2020	1/12/2020	8/8/2021	13/7/2021	Task Completed				-		Handed over to DSD.
	Completion Date of Section 3: 22 September 2021											
Subcontracting												
	Submission of subletting package for acceptance	1/1/2020	6/3/2020	30/3/2020	6/3/2020	Task Completed				100%	-	
	Acceptance of subletting package	1/3/2020	21/3/2020	30/3/2020	21/3/2020	Task Completed				100%	-	
	Tender invitation	1/3/2020	24/3/2020	1/4/2020	30/3/2020	Task Completed				100%	-	
	Tender award	22/3/2020		14/4/2020	6/4/2020	Task Completed				100%	-	Bestwise submitted tender report on 6 April 2020
	Acceptance of tender award	-	-	-	15/4/2020	Task Completed				100%		AECOM accepted tender report on 15 April 2020
Construction of Contractor's site accommodation in WA1-C	Design of MiC	15/4/2020	16/4/2020	1/6/2020	15/8/2020	Task Completed				100%		Revised layout drawings received from AluHouse on 28 May 2020. Comments provided to AluHouse on 2 June 2020.
	Submission of detailed design including foundation works, septic tank	1/7/2020	1/7/2020	14/7/2020	4/9/2020	Task Completed				100%		Design calculation of foundation work was submitted on 7 July 2020, comment received on 27 July 2020. Bestwise to resubmit.
	Site Clearance Work	15/7/2020	20/7/2020	31/7/2020	15/8/2020	Task Completed				100%		Tender invitation commenced on 29 May 2020 and tenders received on 4 June 2020. Tender
	Off-site fabrication of Septic tank	15/7/2020	20/7/2020	31/7/2020	31/7/2020	Task Completed				100%		Site clearance work started on 20 July 2020
	Submission of method statement with ICE certificate	1/8/2020	1/8/2020	7/8/2020	8/10/2020	Task Completed				100%		CV of ICE was submitted on 4 August 2020 and accepted on 25 August 2020
	Submission of design calculation with ICE certificate	1/8/2020	1/8/2020	7/8/2020	8/10/2020	Task Completed				100%		Design calculation of foundation work was submitted on 7 July 2020, comment received on
	Acceptance of method statement and design calculation	8/8/2020	9/10/2020	14/8/2020	16/10/2020	Task Completed				100%		Method Statement and Design Calculation was submitted on 8 Oct 2020.
	Submission of method statement with ICE certificate	1/8/2020	1/8/2020	7/8/2020	23/11/2020	Task Completed				100%		
	Submission of design calculation with ICE certificate	1/8/2020	1/8/2020	7/8/2020	23/11/2020	Task Completed				100%		
	Acceptance of method statement and design calculation	8/8/2020	24/11/2020	14/8/2020	27/11/2020	Task Completed				100%		
	Excavation work	17/8/2020	21/10/2020	18/8/2020	21/10/2020	Task Completed				100%		
	Installation of septic tank	19/8/2020	21/10/2020	20/8/2020	22/10/2020	Task Completed				100%		

Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencem ent Date	Anticipated / Actual Commencem ent Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	Construction of RC foundation	21/8/2020	23/10/2020	31/8/2020	12/11/2020	Task Completed				100%		
	Off-site fabrication and delivery of MiC Office	1/6/2020	30/9/2020	31/7/2020	4/12/2020	Task Completed				100%		
	On-site installation of MiC Office	1/8/2020	4/12/2020	30/8/2020	5/1/2021	Task Completed				100%		
	Installation of car park shelter	4/1/2021	7/1/2021	11/1/2021	9/1/2021	Task Completed				100%		Subject to the completion of car park shelter of PM office and JEC office.
04SC003 - Building Information Modeling (BIM)	Submission of subletting package for acceptance (C9)	1/3/2020	25/3/2020	14/3/2020	25/3/2020	Task Completed				100%	-	
	Acceptance of subletting package (C9)	14/3/2020	2/4/2020	30/3/2020	2/4/2020	Task Completed				100%	-	
	Tender invitation (C9)	1/4/2020	1/4/2020	8/4/2020	9/4/2020	Task Completed				100%	-	
	Tender award (C9)	-	-	-	15/4/2020	Task Completed				100%	-	Bestwise submitted tender report on 15 April 2020
	Submission of subletting package for acceptance	14/3/2020	16/3/2020	30/3/2020	20/4/2020	not yet commenced				100%	-	Bestwise resubmitted on 20 April 2020
	Acceptance of subletting package	28/3/2020	4/5/2020	13/4/2020	13/5/2020	not yet commenced				100%	-	AECOM accepted subletting package on 13 May 2020
	Tender invitation	11/4/2020	19/6/2020	27/4/2020	26/6/2020	not yet commenced				-		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	not yet commenced				-		Bestwise submitted tender report on 30 June 2020
	Acceptance of tender award	-	-	-	18/7/2020					-		
04SC007 - Independent Beam Plus Consultant	Submission of subletting package for acceptance	1/3/2020	30/3/2020	14/3/2020	30/3/2020	not yet commenced				100%	-	
	Acceptance of subletting package	14/3/2020	3/4/2020	30/3/2020	3/4/2020	not yet commenced				100%	-	
	Tender invitation	30/3/2020	30/3/2020	9/4/2020	9/4/2020	not yet commenced				100%	-	
	Tender award	-	-	-	15/4/2020	Task Completed				100%	-	Bestwise submitted tender report on 15 April 2020
	Acceptance of tender award	-	-	-	17/4/2020	Task Completed				100%	-	AECOM accepted tender report on 17 April 2020
	Introduction meeting with IBPC, Cinotech	-	-	-	28/4/2020	Task Completed				100%	-	Meeting completed on 28 April 2020 followed by planning work progress
04SC008 - Design, Supply and Installation of detailed	Submission of subletting package for acceptance (C9)	1/4/2020	17/3/2020	14/4/2020	17/3/2020	Task Completed				100%	-	Bestwise submitted subletting package on 3 April 2020
	Acceptance of subletting package (C9)	14/4/2020	17/4/2020	30/4/2020	28/4/2020	Task Completed				100%	-	AECOM accepted subletting package on 28 April 2020
	Tender invitation (C9)	30/4/2020	6/5/2020	14/5/2020	28/5/2020	Task Completed				100%	-	Invitation to tender was commenced on 6 May 2020 and tender returned on 28 May 2020
	Tender award (C9)	14/5/2020	29/5/2020	30/5/2020	9/6/2020	Task Completed				100%	-	Bestwise submitted tender report on 9 June 2020.
Temporary Primary Sludge Thickener and its	Submission of subletting package (C9) for acceptance	15/05/2020 ->	14/8/2020	15/05/2020 -	27/8/2020	Task Completed				100%	Bestwise	- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020.
	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%		

Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencem ent Date	Anticipated / Actual Commencem ent Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	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	Task Completed				100%		- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020.
	Acceptance of tender award (C11)	-	-	-	18/9/2020					-		
	Design Submission	03/07/2020 -> 15/07/2020*	5/8/2020	21/09/2020- > 02/10/2020*	10/5/2021	Task Completed				100%	Bestwise	- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. -Design submission of Process Pumps (Rev.3) resubmitted on14 Apr 2021, AECOM accepted with comments on 7 May 2021. -Design submission of electrical calculation (rev.2) was resubmitted on 29 Apr 2021. AECOM accepted with comments on 10 May 2021. -Control Philosophy (Rev.2) resubmitted on 5 Mar 2021. AECOM accepted subject to comments on 26 Mar 2021.
	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						

Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencem ent Date	Anticipated / Actual Commencem ent Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	Mechanical Installation	01/10/2020 -> 01/12/2020*	2/2/2021	15/11/2020 - > 15/01/2021*	17/5/2021	Task Completed				-		
	Offsite Fabrication and Delivery of FRP Tank		16/1/2021		7/4/2021	Task Completed				100%		First batch to be delivered on 23 Mar 2021
	Onsite Installation of FRP Tank		7/4/2021		30/7/2021	Task Completed						Water filling to tank completed; Tank hydraulic test completed.
	Electrical Installation	01/10/2020 -> 01/12/2020*	19/3/2021	15/11/2020 - > 15/01/2021*	19/7/2021	Task Completed				-		Energize of all LCPs on 24 May 2021 and isolated prior to system commissioning.
Temporary Primary Sludge Thickener and its accessories (Sub-programme was provided by Bestwise)	Testing and Comissioning	15/11/2020 -> 15/01/2021*	8/5/2021	22/11/2020 - > 22/01/2021*	30/9/2022	Completed				-		Improvement works under PMI are on-going and defect rectification for BCM comments was partially completed. - Testing and Commissioning (3 x 24hrs) completed by End September.
Modification of Existing Emergency Generator Electrical Works	Submission of subletting package (C9) for acceptance	15/10/2020	15/10/2020	31/10/2020	11/12/2020	Task Completed				100%		
	Acceptance of subletting package (C9)	1/11/2020	5/11/2020	15/11/2020	2/1/2021	Task Completed				100%		
	Tender invitation (C9)	16/11/2020	26/1/2021	30/11/2020	5/2/2021	Task Completed				100%		Tender invitation commenced on 26 Jan 2021, and returned on 5 Feb 2021
	Tender award (C9)	30/11/2020	18/2/2021	7/12/2020	18/2/2021	Task Completed				100%		Tender report was submitted on 18 Feb 2021 and accepted on 26 Feb 2021
	Acceptance of tender award (C9)	8/12/2020	18/2/2021	15/12/2020	26/2/2021	Task Completed				100%		
	Design Submission	15/12/2020	15/3/2021	15/1/2021	23/4/2021	Task Completed				100%		DWG-0100 was submitted on 23 Apr 2021. AECOM accepted with comments on 30 Apr
	Transportation of existing dismantled genset no. 2 (Genset No.2) to subcontractor (Click Ltd.)’s workshop	9/3/2021	9/3/2021	9/3/2021	9/3/2021	Task Completed				100%		
	Drawing submission (Drawing of General Layout for Existing 600kVA Genset Container)	23/4/2021	23/4/2021	30/4/2021	30/4/2021	Task Completed				100%		
	Drawing submission (Cable route ,general arrangement, etc)	14/5/2021	28/5/2021	21/5/2021	5 July 2021	Task Completed				100%		
	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		-						

Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencem ent Date	Anticipated / Actual Commencem ent Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	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		-						
Plant and Materials (Marking Scheme)												
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				-		
	Submission of marking scheme for PM's acceptance (third draft)	1/5/2020	14/5/2020	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	14/5/2020	1/9/2020	19/8/2020	Task Completed				100%		Bestwise resubmitted on 19 Aug 2020
PS Clause no. 6B.2.4 MBR Pre-treatment Screen	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	20/11/2020	29/9/2020	11/12/2020	Task Completed				100%		Tender invitation was conducted on 20 Nov 2020 and returned on 11 Dec 2020. Tender
	Tender award	5/6/2020	13/12/2020	5/10/2020	3/3/2021	Task Completed				100%		Technical Submission Evaluation Report was submitted on 12 Jan 2021. AECOM noted on 22 Jan 2021. Tender Report was submitted on 4 Feb 2021, AECOM commented on 19 Feb 2021, Bestwise submitted supplementary information on 26 Feb 2021. AECOM noted on 3 Mar
PS Clause no. 6B.2.4	Submission of marking scheme for PM's acceptance	1/5/2020	14/5/2020	1/9/2020	2/9/2020	Task Completed				100%		AECOM commented on 1 September 2020, Bestwise resubmitted on 2 Sep 2020
	Submission of marking scheme for PM's acceptance	1/5/2020	3/9/2020	1/9/2020	2/9/2020	Task Completed				100%		Bestwise resubmitted on 2 Sep 2020
PS Clause no. 6B.2.4 Air Diffusion System	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, subject to conditions.
	Tender invitation	29/5/2020	17/2/2021	29/9/2020	12/3/2021	Task Completed				100%		Procurement package would follow the approved format (i.e. aeration blower) Tender invitation was conducted on 17 Feb 2021. Addendum No. 1 was issued on 18 Feb 2021. Tender return date was extended from 26 Feb 2021 to 12 Mar 2021. Tender returned
	Tender award	5/6/2020	18/3/2021	5/10/2020	20/4/2021	Task Completed				-		Technical Submission Evaluation Report was submitted on 18 Mar 2021. AECOM noted on 30 Mar 2021. Tender Report was submitted on 8 Apr 2021. LOI was issued to supplier.
	Acceptance of tender award	19/6/2020	20/2/2021	19/10/2020	12/3/2021	Task Completed				-		
PS Clause no. 6B.2.4	Submission of marking scheme for PM's acceptance	14/5/2020	14/5/2020	14/9/2020	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	14/5/2020	14/5/2020	14/9/2020	19/8/2020	Task Completed				100%		Bestwise resubmitted on 19 Aug 2020
PS Clause no. 6B.2.4 BR Aeration Blower	Acceptance of marking scheme by the PM	28/5/2020	20/8/2020	28/9/2020	1/9/2020	Task Completed				100%		AECOM accepted on 1 Sep 2020
	Tender invitation	11/6/2020	3/2/2021	12/10/2020	3/3/2021	Task Completed				100%		Procurement package was submitted to AECOM under CGS-066. AECOM replied on 29 Jan 2021. Tender invitation was conducted on 3 Feb 2021. Tender returned on 3 Mar 2021
	Tender award	18/6/2020	4/3/2021	19/10/2020	12/4/2021	Task Completed				-		Technical Submission Evaluation Report was submitted on 10 Mar 2021. AECOM noted on 19 Mar 2021. Tender Report was submitted on 24 Mar 2021. LOI was issued to supplier.
	Acceptance of tender award	2/7/2020	4/3/2021	2/11/2020	25/3/2021	Task Completed				-		AECOM accepted on 1 Sep 2020, subject to conditions.
PS Clause no. 6B.2.4	Submission of marking scheme for PM's acceptance	14/5/2020	1/5/2020	14/9/2020	2/9/2020	Task Completed				100%		AECOM commented on 1 September 2020, Bestwise resubmitted on 2 Sep 2020
	Submission of marking scheme for PM's acceptance	14/5/2020	3/9/2020	14/9/2020	2/9/2020	Task Completed				100%		Bestwise resubmitted on 2 Sep 2020
	Acceptance of marking scheme by the PM	28/5/2020	3/9/2020	28/9/2020	5/9/2020	Task Completed				100%		AECOM accepted on 5 Sep 2020 subject to conditions.

3 Month Rolling Programme (From 01/09/2023 to 01/11/2023)

[illegible]



Appendix 2.1

Layout Plans of Construction Activities

July 2023



Site Record Photos

DC/2018/06

			
SD&THP	CHP	SDB	Outfall

DC/2018/07

			
BR2	MFB	PST	Inlet

DE/2018/03



Sidestream



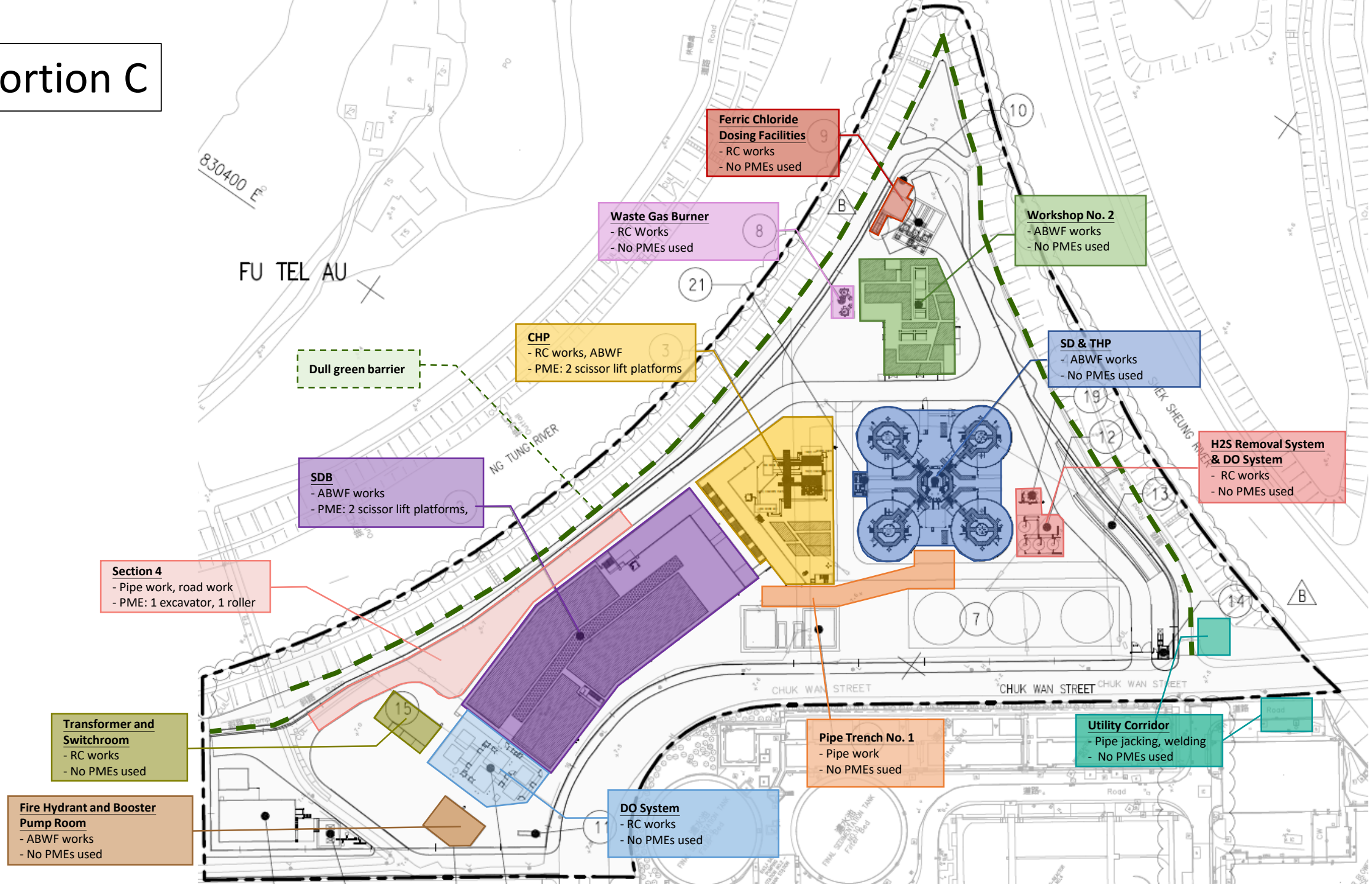
Bio Gas Tank

DE/2018/04

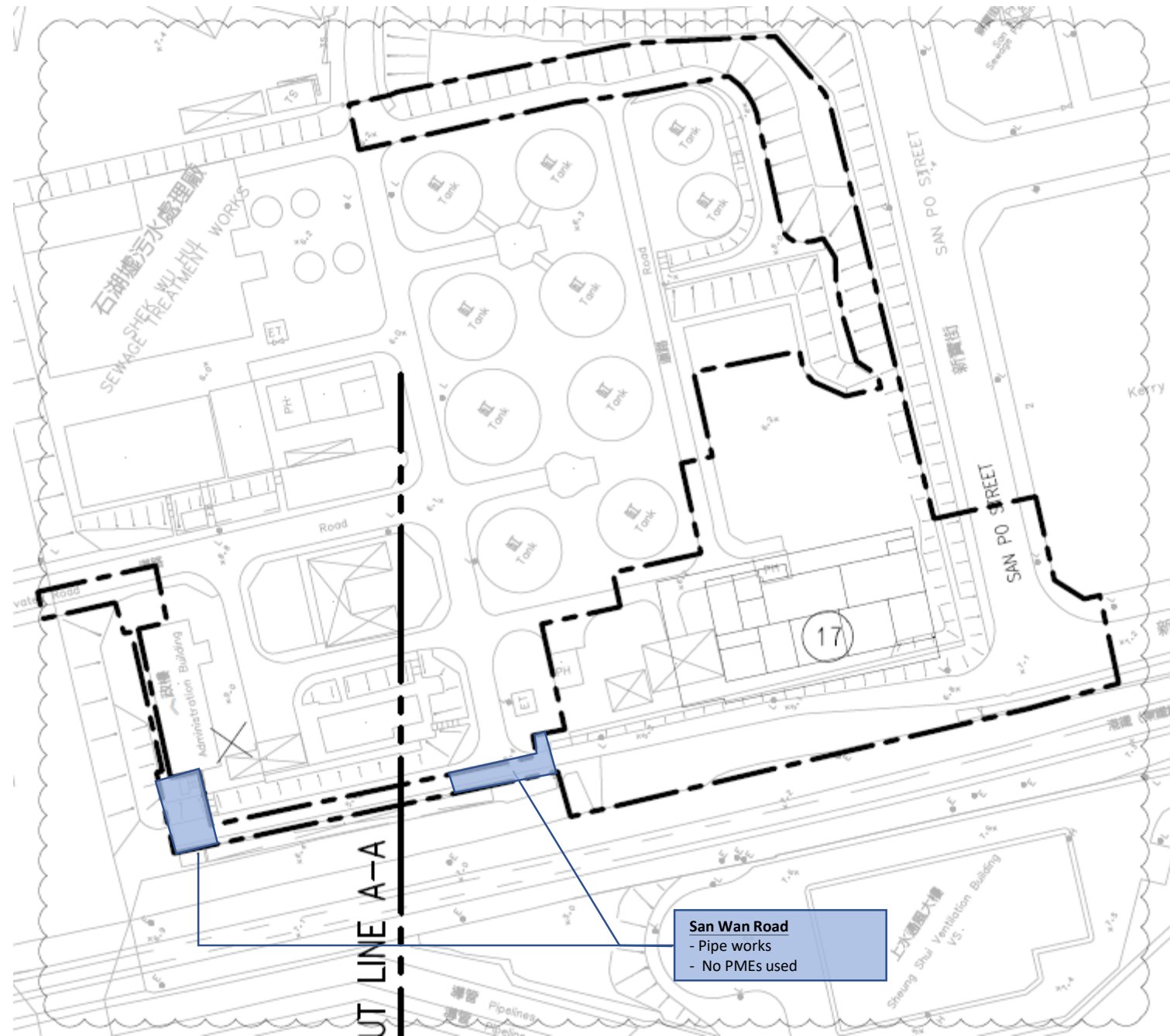


Compressor House

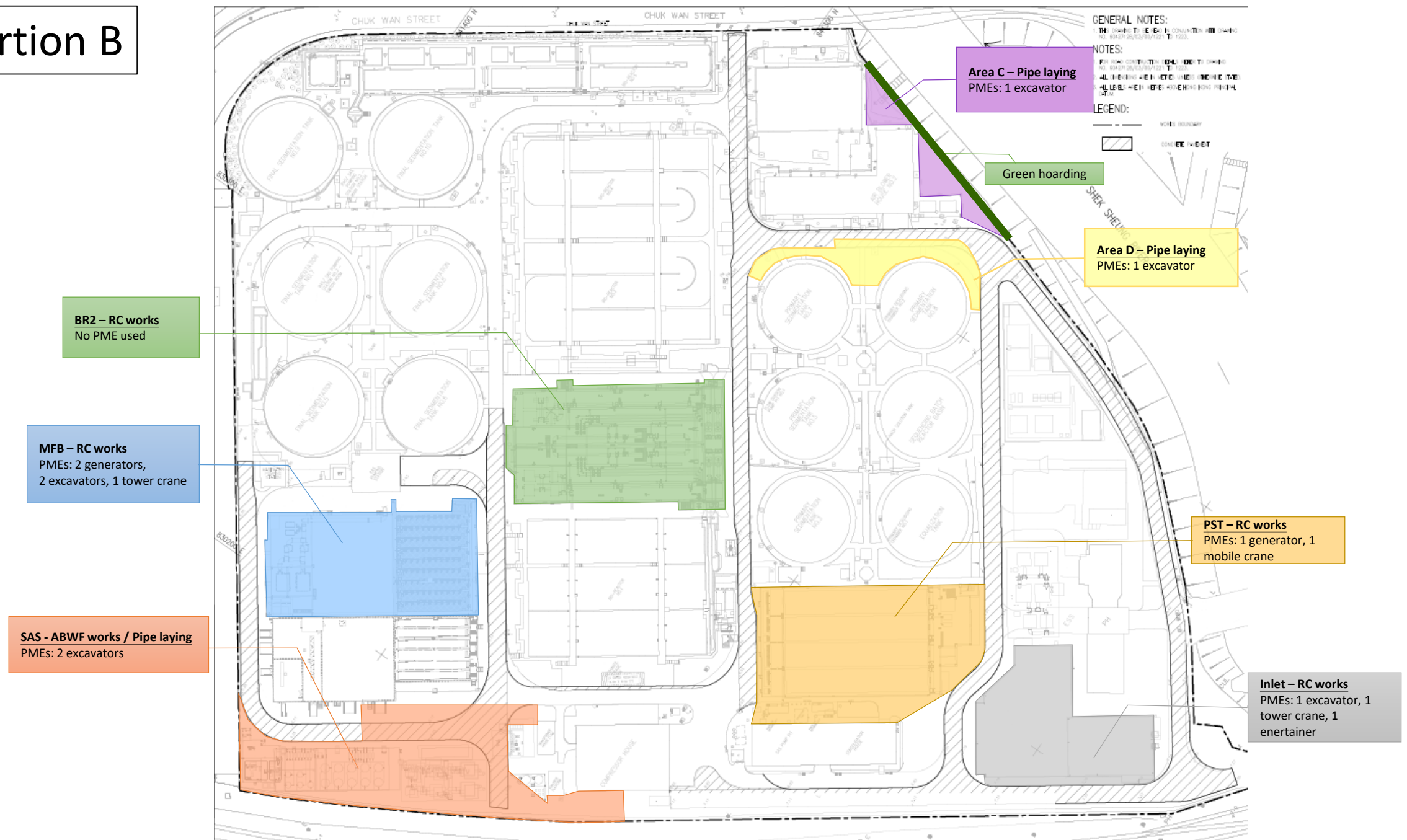
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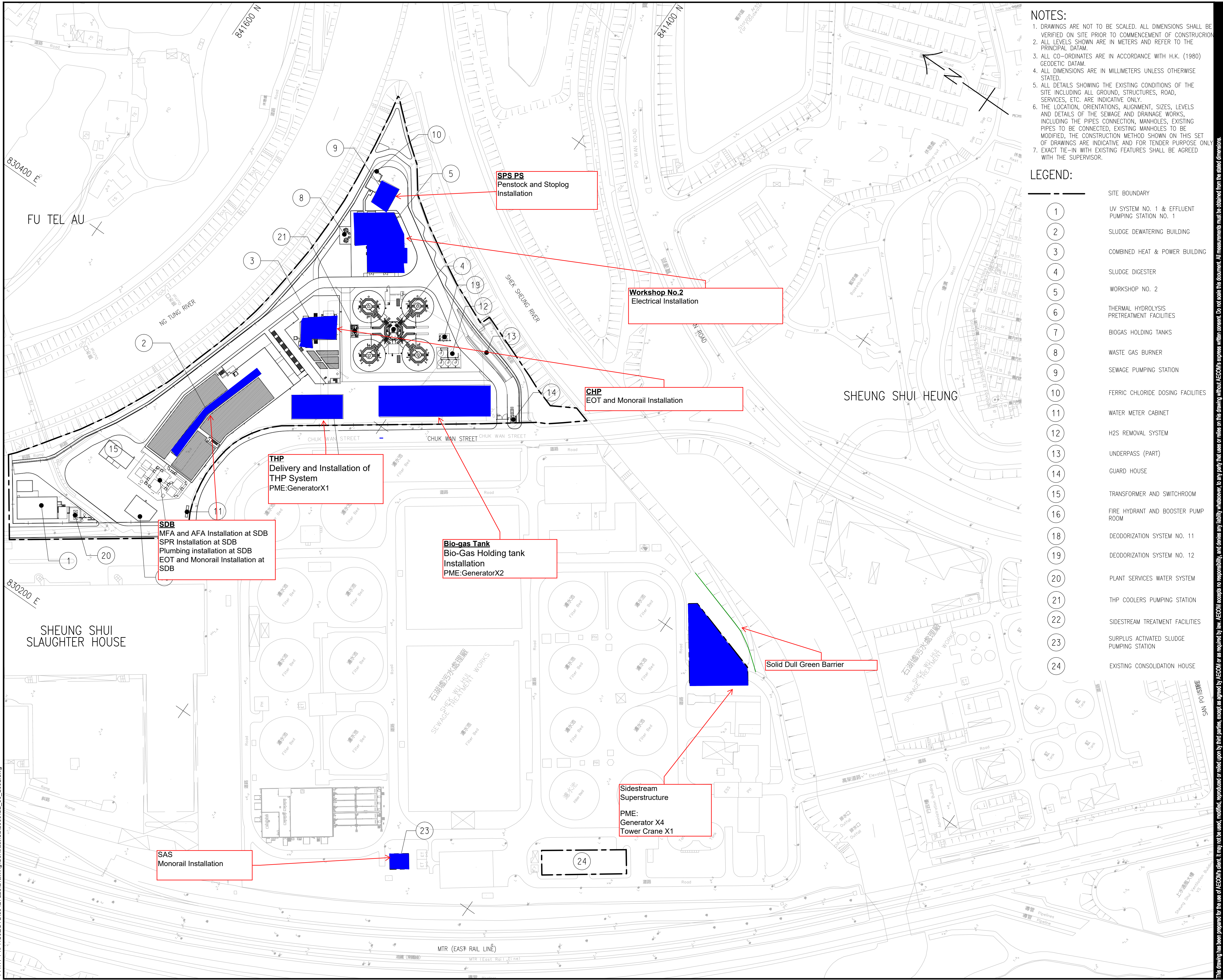
Portion A



Portion B



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26/03/2019
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Plot File by: GuoX



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

LEGEND:

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

AECOM

PROJECT
項目

SHEK WU HUI EFFLUENT POLISHING PLANT

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

CLIENT
業主

渠務署
Drainage Services Department

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NO.	DATE	DESCRIPTION	CHK.
1	MAR. 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/2018/03

SHEET TITLE
圖紙名稱

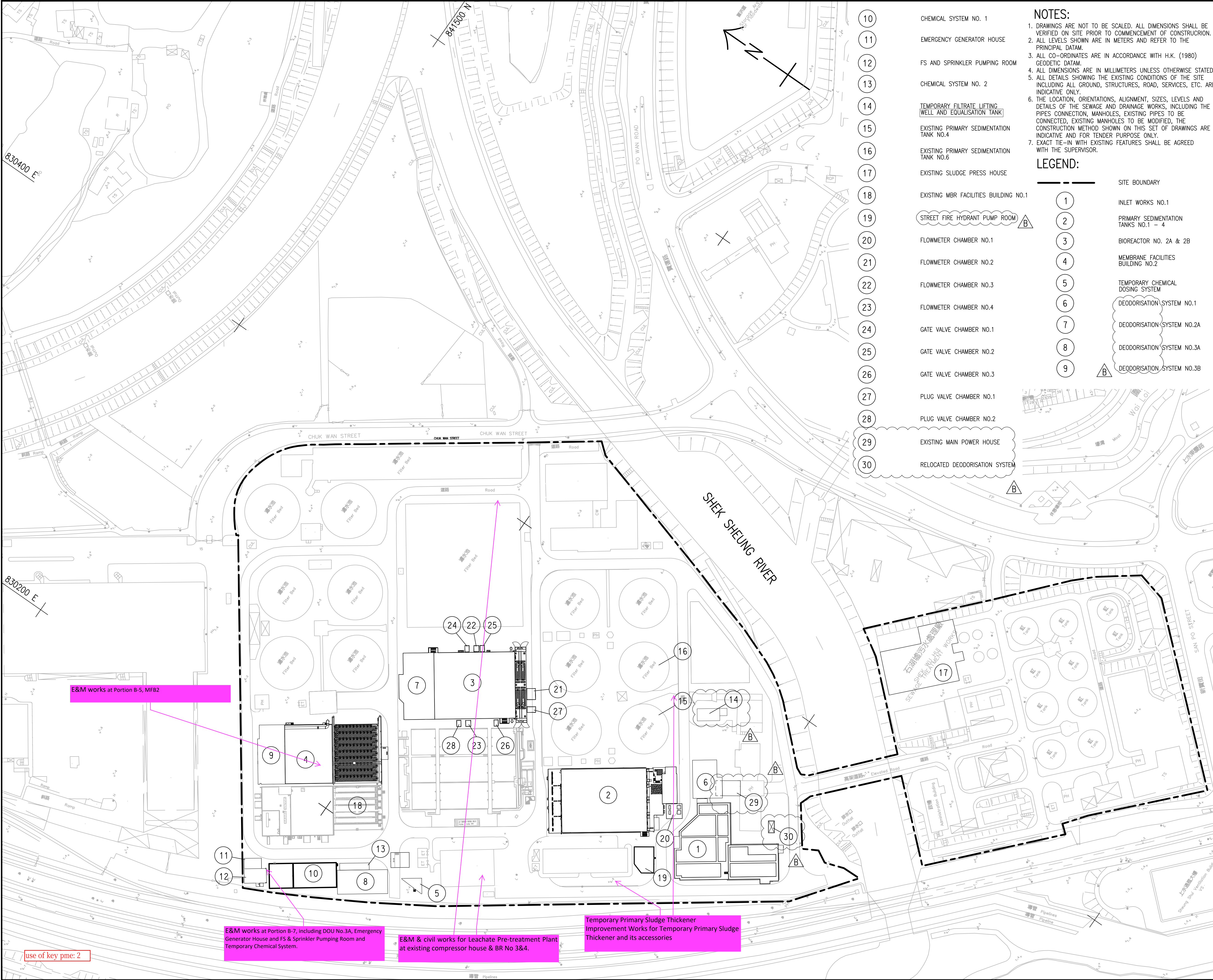
SHEK WU HUI EFFLUENT POLISHING PLANT GENERAL LAYOUT PLAN

SHEET NUMBER
圖紙編號

60427128/C2/00/1001

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Project Management Initials: Designer: KYTM Checked: TLST Approved: ELIM ISO A1 594mm x 841mm



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

NOTES:

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

AECOM

PROJECT
項目

SHEK WU HUI EFFLUENT POLISHING PLANT

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

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業主

 **渠務署**
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B	AUG. 19	TENDER ADDENDUM NO. 3	TLST
A	JUL. 19	TENDER ADDENDUM NO. 2	TLST
-	APR. 19	TENDER DRAWING	TLST
I/R	DATE	DESCRIPTION	CHK.
修訂	日期	內容摘要	核核

STATUS
階段

SCALE
比例

A1 1: 1000

DIMENSION UNIT
尺寸單位

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KEY PLAN
索引圖

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CONTRACT NO.
合約編號

DE/2018/04

SHEET TITLE
圖紙名稱

GENERAL LAYOUT PLAN

SHEET NUMBER
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August 2023



Site Record Photos



DC/2018/06

		
SD&THP	CHP	SDB

DC/2018/07

			
BR2	MFB	PST	Inlet

DE/2018/03



Sidestream



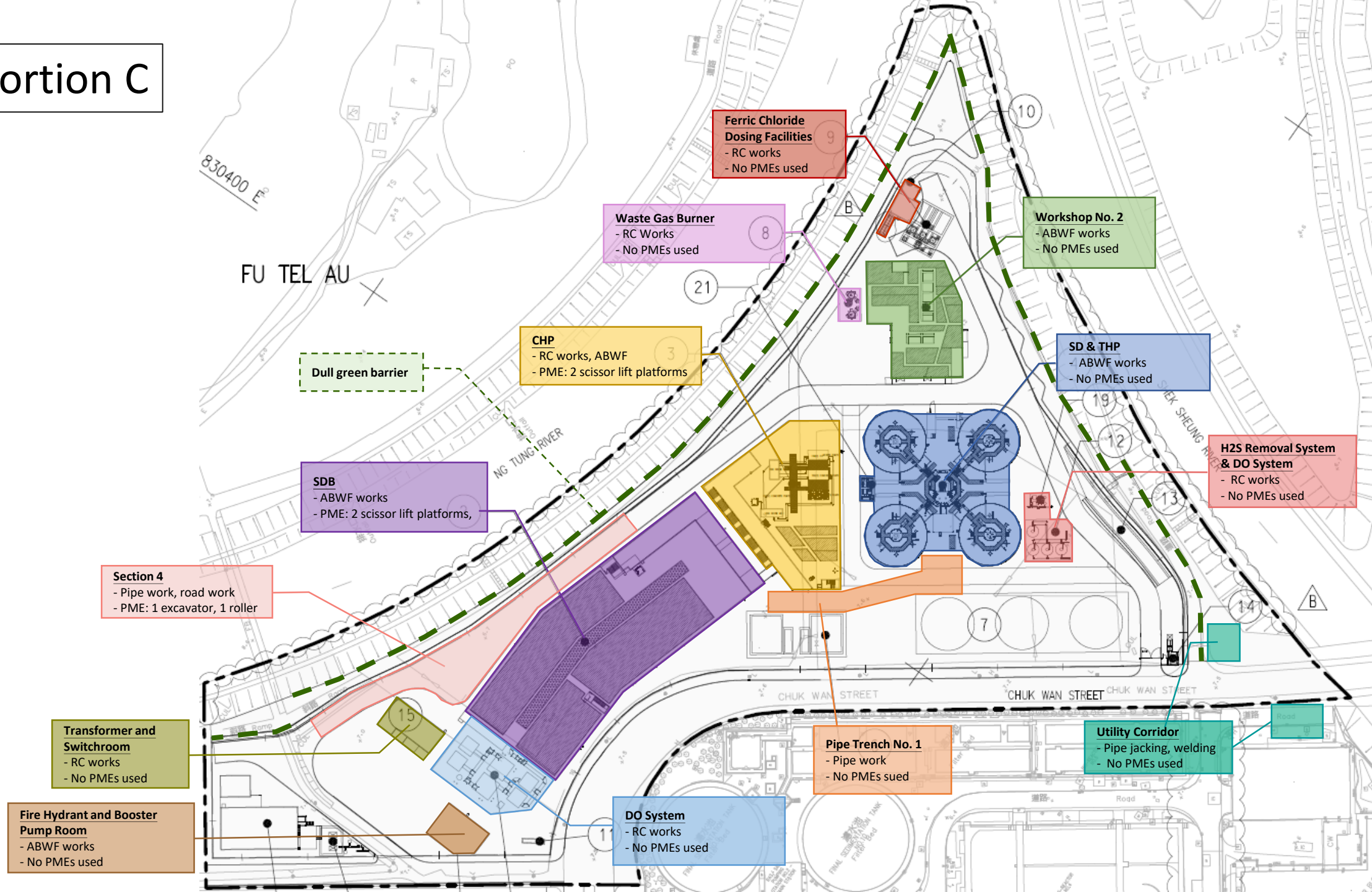
Bio Gas Tank

DE/2018/04

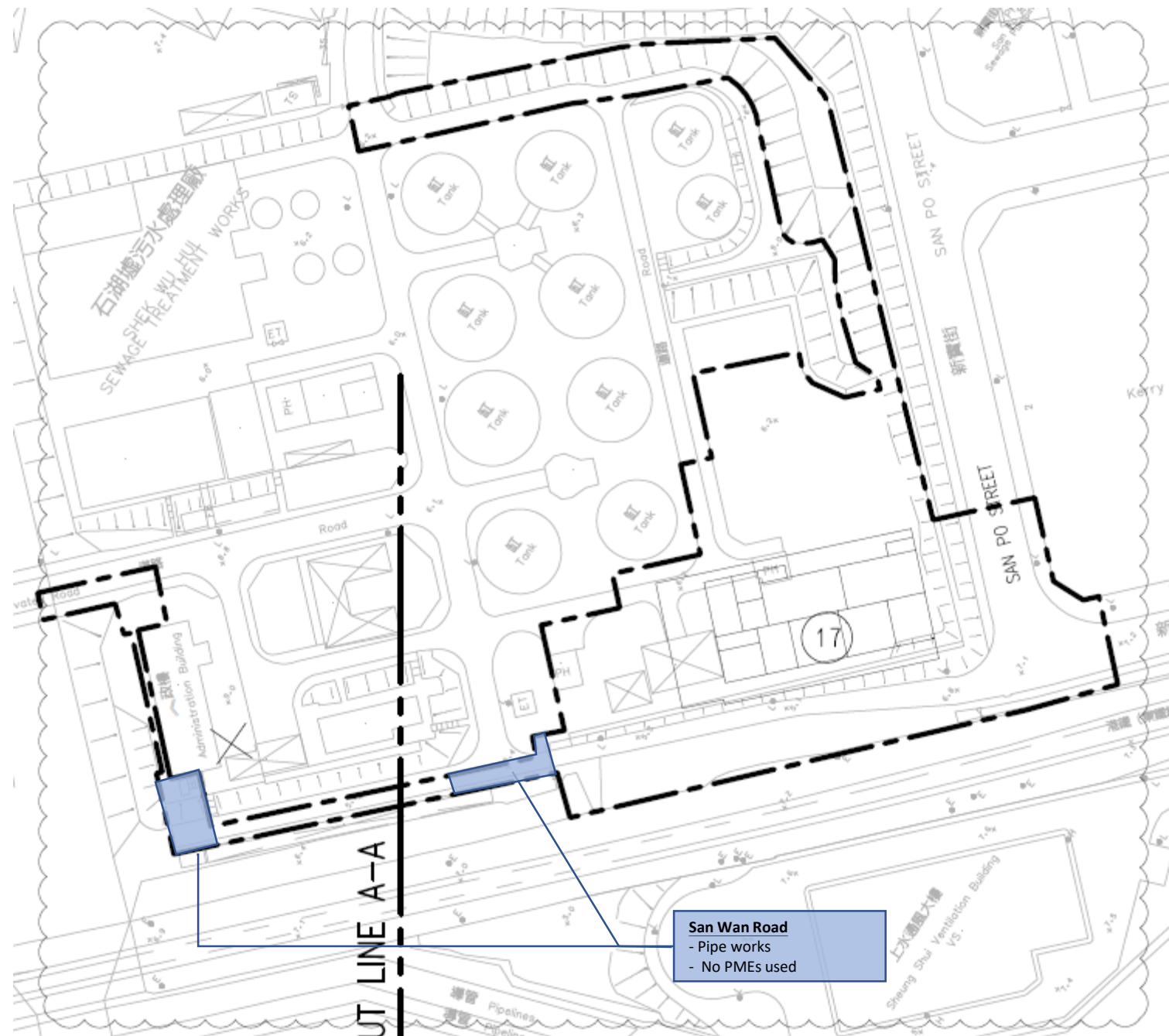


Compressor House

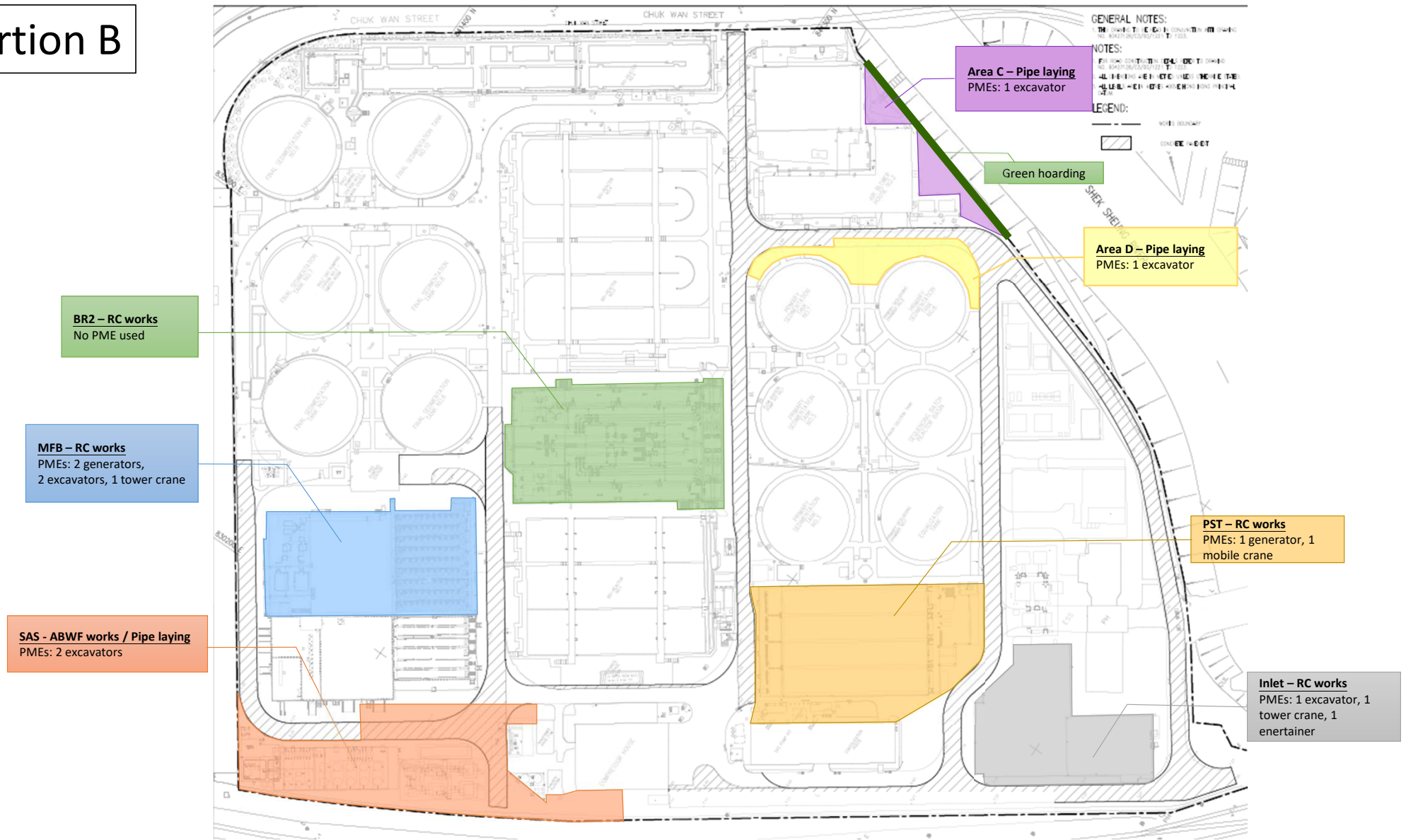
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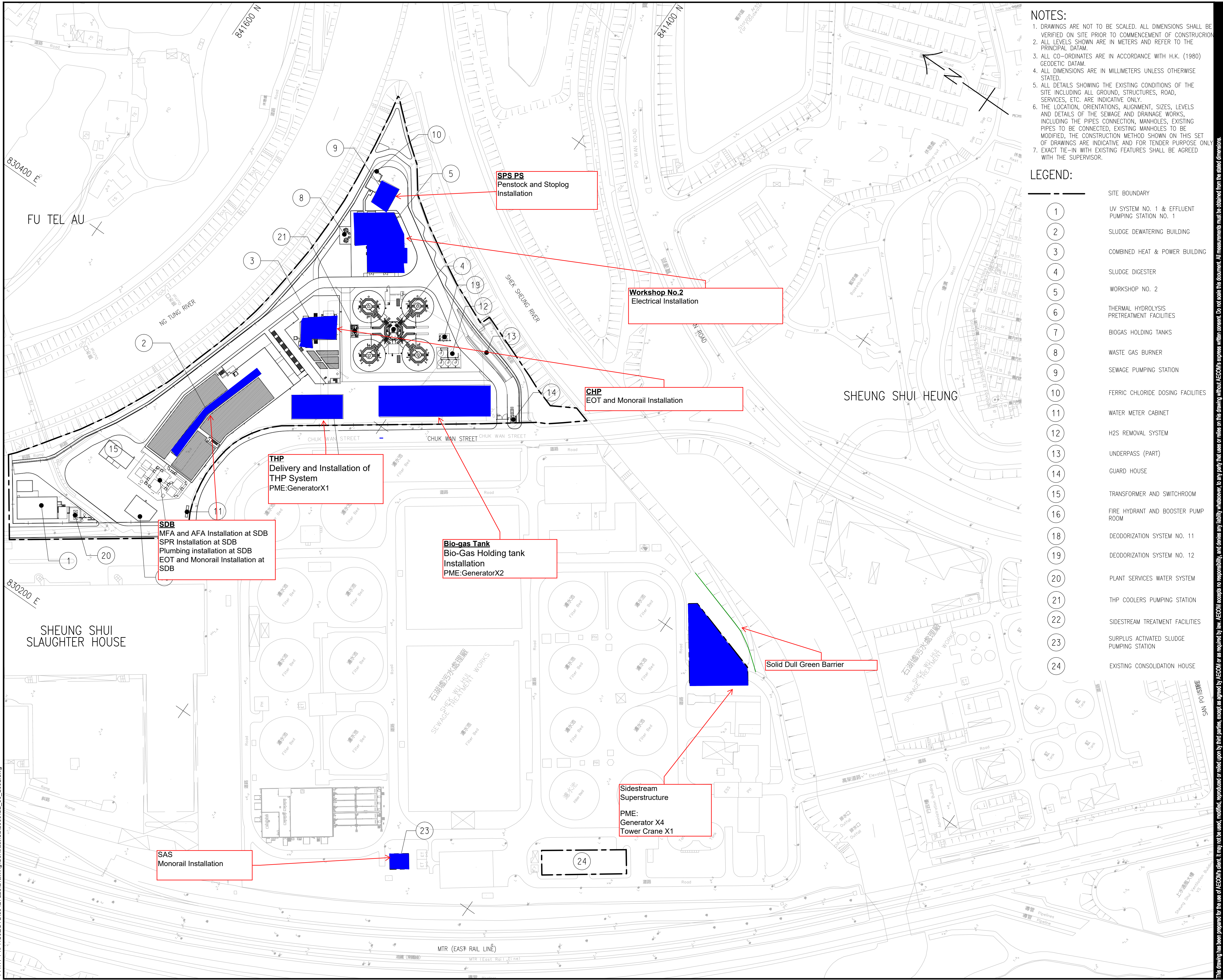
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Portion B



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26/03/2019
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23	SURPLUS ACTIVATED SLUDGE PUMPING STATION
24	EXISTING CONSOLIDATION HOUSE

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PROJECT
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SHEK WU HUI EFFLUENT POLISHING PLANT

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SCALE
比例

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DIMENSION UNIT
尺寸單位

METRES

KEY PLAN
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SHEET TITLE
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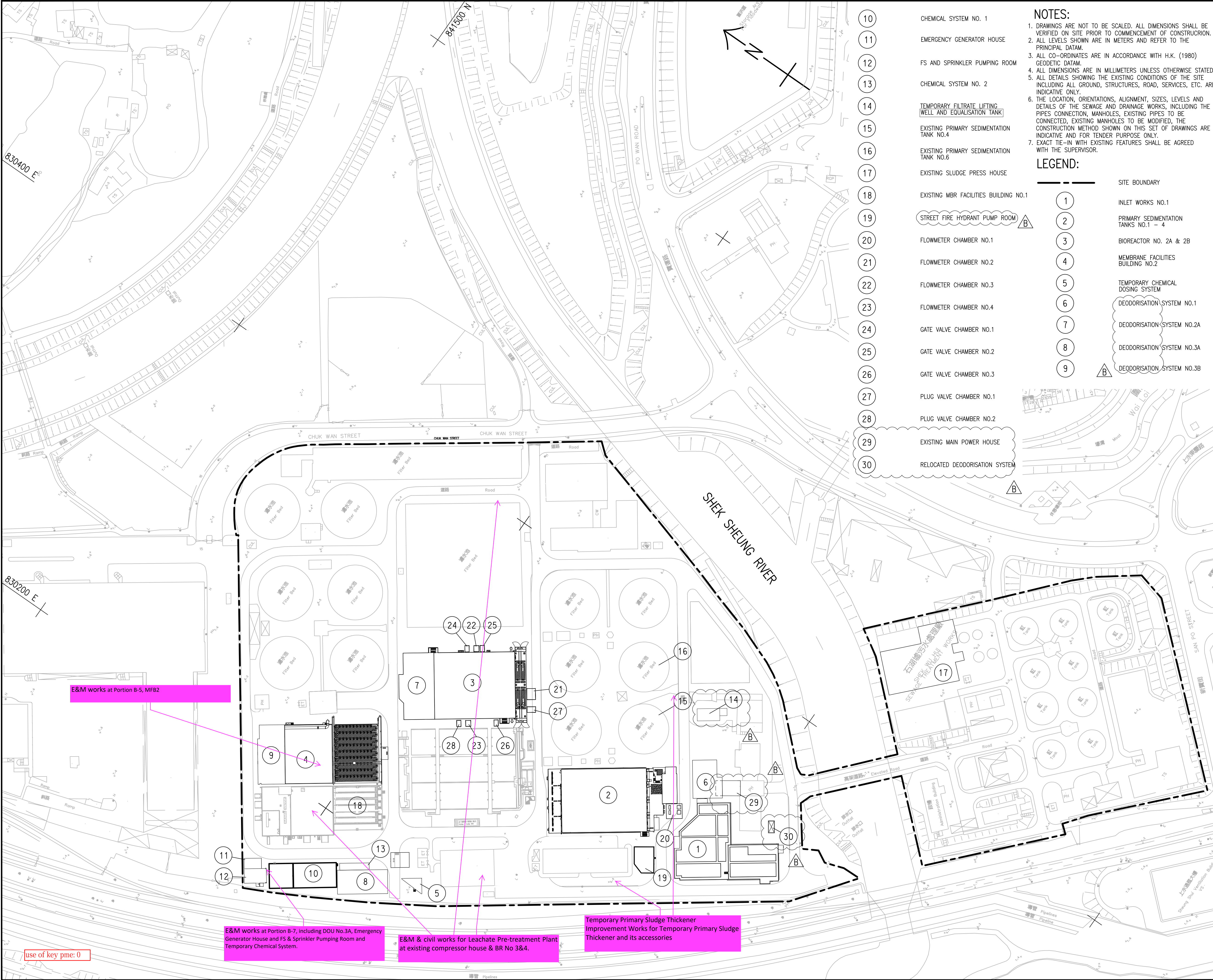
SHEK WU HUI EFFLUENT POLISHING PLANT GENERAL LAYOUT PLAN

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圖紙編號

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

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- 8 DEODORISATION SYSTEM NO.2A
- 9 DEODORISATION SYSTEM NO.3A
- 10 DEODORISATION SYSTEM NO.3B

AECOM

PROJECT
項目

SHEK WU HUI EFFLUENT POLISHING PLANT

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

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業主

 **渠務署**
Drainage Services Department

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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

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September 2023



Site Record Photos

DC/2018/06

		
SD&THP	CHP	SDB

DC/2018/07

			
BR2	MFB	PST	Inlet

DE/2018/03



Sidestream



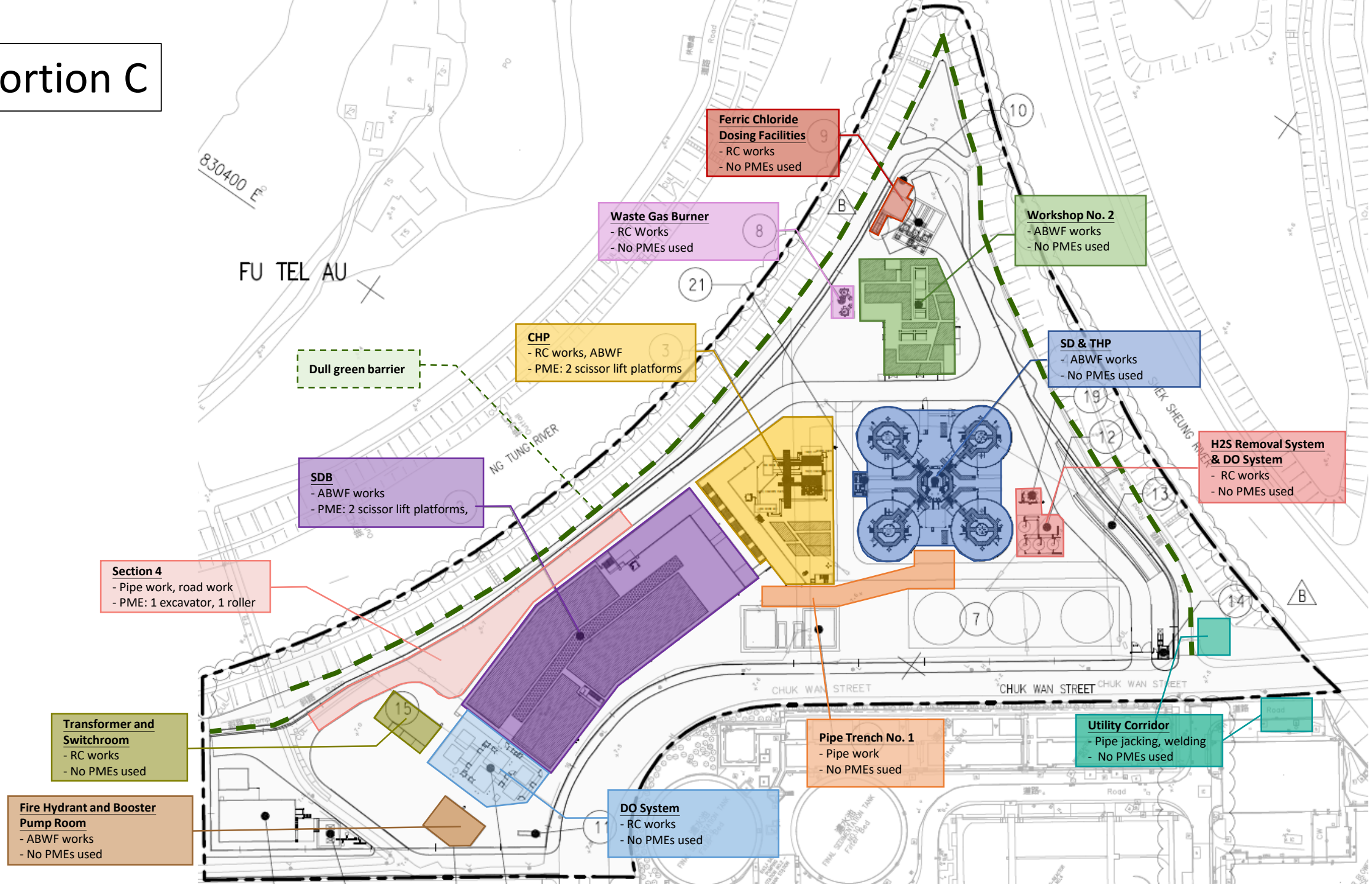
Bio Gas Tank

DE/2018/04

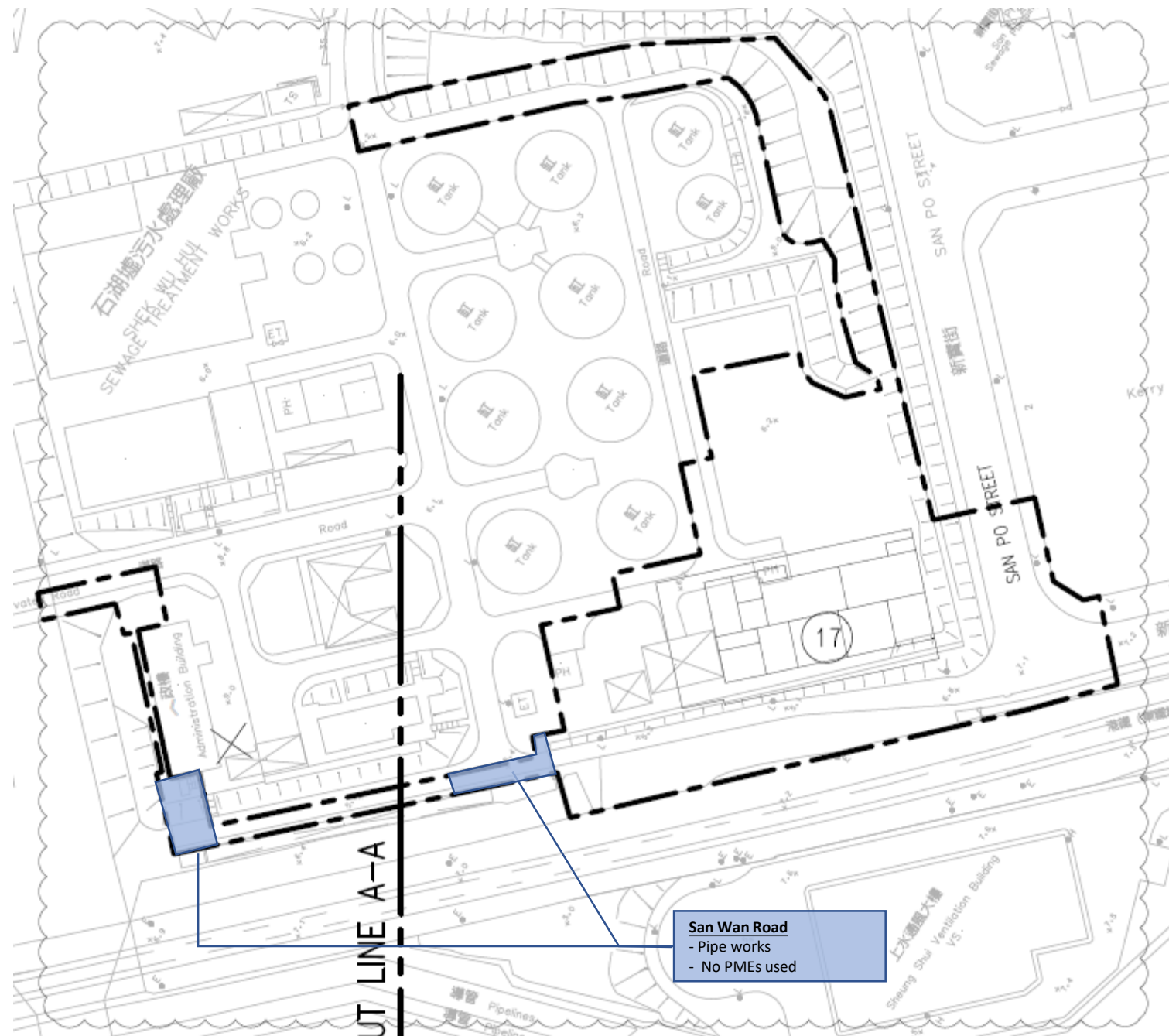


Compressor House

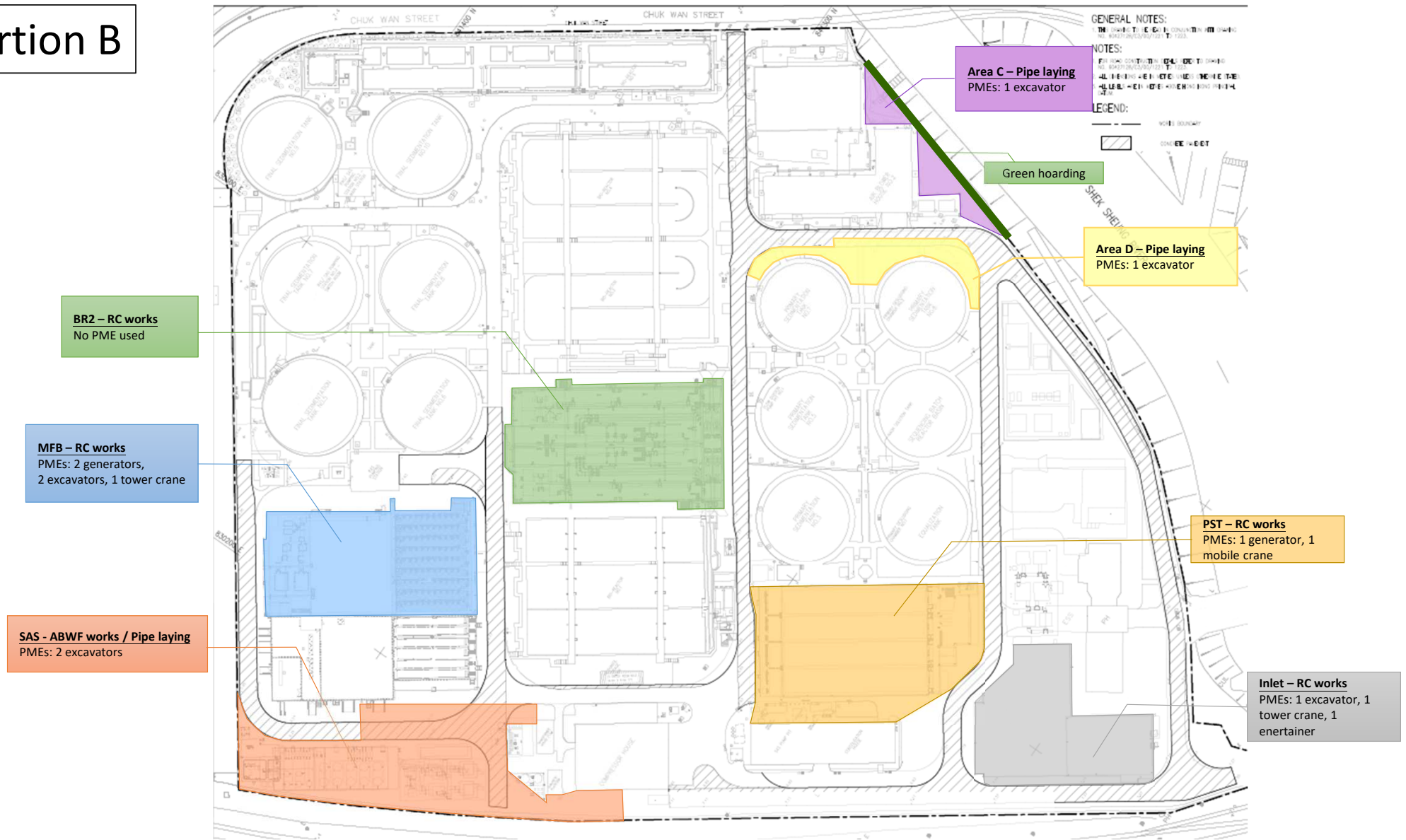
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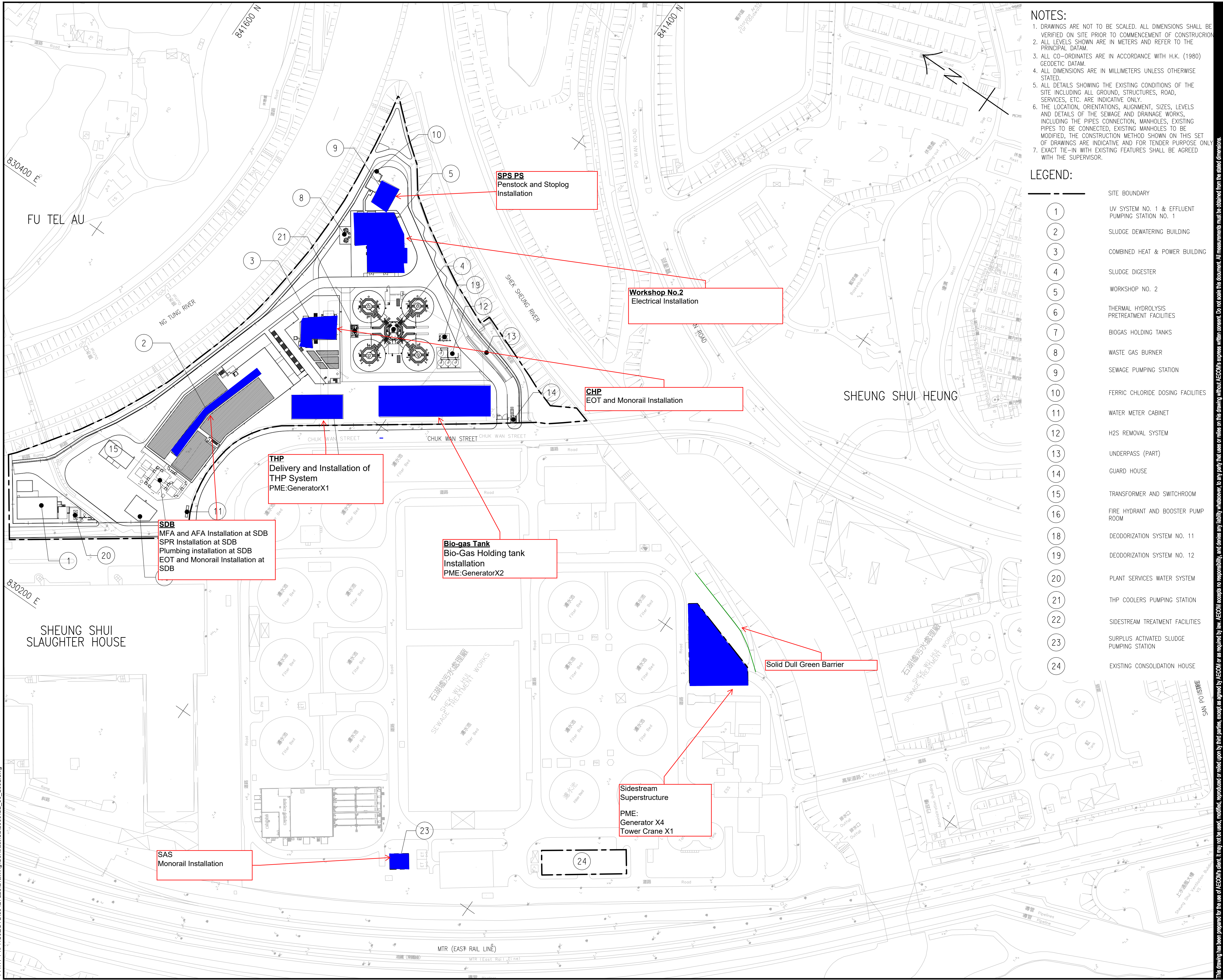
Portion A



Portion B



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LEGEND:

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

AECOM

PROJECT
項目

SHEK WU HUI EFFLUENT POLISHING PLANT

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

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1	MAR. 19	TENDER DRAWING	TLST

STATUS
階段

SCALE 比例	DIMENSION UNIT 尺寸單位
A1 1:1000	METRES

KEY PLAN
索引圖

PROJECT NO.
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DE/2018/03

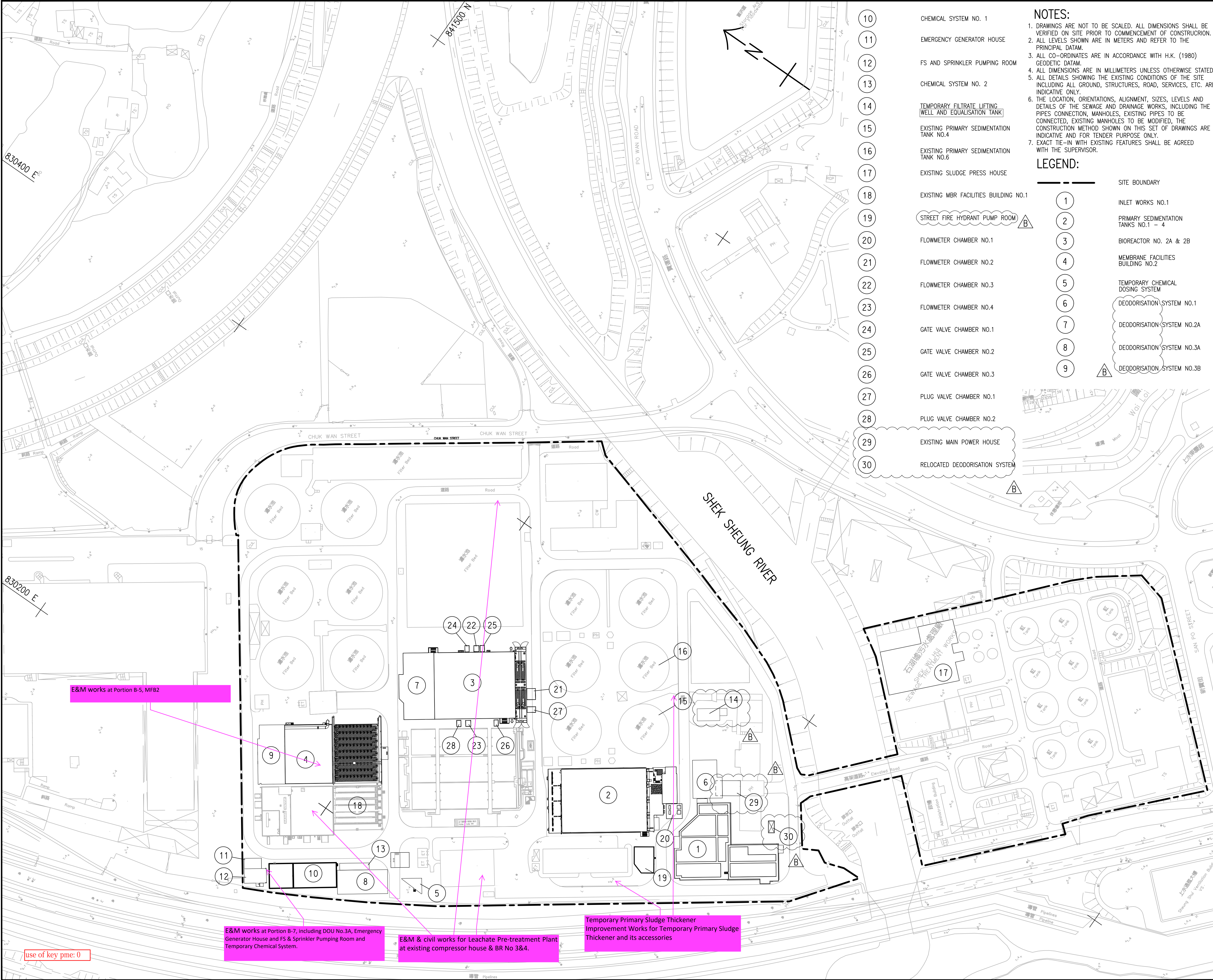
SHEET TITLE
圖紙名稱

SHEK WU HUI EFFLUENT POLISHING PLANT GENERAL LAYOUT PLAN

SHEET NUMBER
圖紙編號

60427128/C2/00/1001

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SCALE
比例

A1 1: 1000

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Appendix 3.1

Environmental Monitoring Requirements



Monitoring Requirements

Air Quality Monitoring

Parameter	Frequency	Location	Measurement Conditions
1-hour TSP	3 times per day, once every 6 days	AM1 – House No.15, Wai Loi Tsuen	Ground level
		AM2 – Fu Tei Au	
24-hour TSP	Once every 6 days	AM1a* - Site boundary of the Shek Wu Hui STW (East), Roof floor of the control room of SWHSTW ⁽¹⁾	Roof floor
		AM2a - Site Boundary of the Shek Wu Hui STW (North)	Ground level

Remarks

- (1) 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.

Noise Monitoring

Parameter	Frequency	Location	Measurement Conditions
Leq, L90 & L10 at 30-minute intervals during (0700 to 1900 on normal weekdays)	Once per week when noise generating activities are underway	NM1 – Wai Loi Tsuen	Ground level and free field measurement
		NM2 – Fu Tei Au	
		NM3 - Man Kok Village	

Ecological Monitoring

Methodology	Monitoring Stations	Descriptions	Influenced by Tidal Action
Monitoring surveys were conducted on a weekly basis along the Ng Tung River,	Transect T1	Along Ng Tung River	No
	Point Count Location P1		
	Point Count Location P2		



Sheung Yue River and Shek Sheung River at both high and low tides. Any sources of actual or potential disturbance to birds due to construction activities are identified.	Transect T2		Yes
	Point Count Location P3		
	Point Count Location P4		
	Point Count Location P5	At Shek Sheung River (Low-flow Channel)	No
	Transect T3	Along Shek Sheung River & Sheung Yue River	Yes
	Point Count Location P6	At Shek Sheung River	Yes
	Point Count Location P7	At Intersection between Sheung Yue River and Shek Sheung River	Yes



Appendix 3.2

Action and Limit Level



Action and Limit Levels

Air Quality Monitoring

Monitoring Station	1-hour TSP Level in $\mu\text{g}/\text{m}^3$		24-hour TSP Level in $\mu\text{g}/\text{m}^3$	
	Action Level	Limit Level	Action Level	Limit Level
AM1	320	500	189	260
AM2	322	500	187	260

Noise Monitoring

Monitoring Stations	Leq(30min),dB(A)	
	Action Level (dB(A))	Limit Level (dB(A))
NM1	When one documented complaint is received	75*
NM2		
NM3		

*Notes: (1) 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 should be followed.

(2) The limit level shall be 70 dB(A) and 65 dB(A) for educational institute during normal teaching periods and school examination periods, respectively.

Ecological Monitoring of 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 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 data.



Appendix 3.3

Environmental Mitigation Implementation Schedule

Appendix 3.1 Environmental Mitigation Implementation Schedule

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	Remark
Air Quality Monitoring							
S2.4.1.3	Dust suppression measures stipulated in the Air Pollution Control (Construction Dust) Regulation and good site practices:						
	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;	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)	*
	Any dusty material remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;						^
	A stockpile of dusty material should not be extended beyond the pedestrian barriers, fencing or traffic cones;						^
	The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle;						^
	Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores;						^

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	Remark
	When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period.						^
	The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials;						^
	Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously;						^
	Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet;						^
	Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, 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	Remark
Noise Impact							
S3.4.1.1	Use of movable barrier, enclosure, acoustic mat and quiet plant. Use of wooden frames barrier with a small-cantilevered upper portion of superficial density not less than 14kg/m ² on a skid footing with 25mm thick internal sound absorptive lining.	To minimize construction noise impact arising from the Project at the affected noise sensitive receivers (NSRs)	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM, Noise Control Ordinance (NCO)	^
S3.4.1.2	Good Site Practice:						
	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	Remark
Ecological Impact							
S4.2.1.1	Solid dull green noise/visual barriers of at least 2m high shall be erected and maintained between active works area and all areas of ecological importance.	Minimize noise and human disturbances during construction phase.	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM	^
S4.2.1.2	Avoid unnecessary lighting.	Minimize mortality impacts on birds.	Design / Contractor/ Plant Operator	Work Sites	Construction and operation 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	The following measures to avoid, minimise and mitigate impact on water quality during construction phase shall be implemented						
	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;						^

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	Remark
	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;						^
	Proper locations for discharge outlets of temporary wastewater treatment facilities well away from sensitive receivers should be identified;						^
	Adequate lateral support should be erected where necessary in order to prevent soil/mud from slipping into water bodies;						^
	Site boundaries should be clearly marked and any works beyond the boundary strictly prohibited;						^
	Regular water monitoring and site audit should be carried out at adequate points along any watercourses where construction works are underway upstream within their catchments and also on the Ng Tung, Sheung Yue and Shek Sheung Rivers. If the monitoring and audit results show that pollution occurs, adequate measures including temporarily cessation of works should be considered;						^
	Excavation profiles should be properly designed and executed with attention to the relevant requirements for environment, health and safety;						^
	Where soil to be excavated is situated beneath the groundwater table, it may be necessary to lower the groundwater table by installing well points or similar means; Stockpiling sites should be lined with impermeable sheeting and bunded. Stockpiles should be properly covered by impermeable sheeting to reduce dust emission during dry season or contaminated run-off during rainy season. Watering should be avoided on stockpiles of						^
	contaminated soil to minimize contaminated runoff and construction materials should be properly covered and located away from nearby water bodies; and						^
	Supply of suitable clean backfill material after excavation, if required.						^

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	Remark
	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; and						^
	Other measures as detailed in this schedule.						^

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	Remark
Water Quality Impact							
S5.2.2.1	Construction Site Runoff Practices and measures provided in the Practice Note for Professional Persons on Construction Site Drainage, (PROPECC PN1/94) 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	Sewage from Workforce - 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; - 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	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	Remark
Waste Management							
S6.2.2.1	Good Site Practices and Waste Reduction Measures		Contractors	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Waste Disposal Ordinance (WDO)	^
	• 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;						
	• 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	Waste Reduction Measures		Contractors	Work Sites	Prior to the commencement of construction of Main Works Stage 1, Stage 2 and Stage 3	WDO	^
	• Segregate and store different types of waste in different containers, skip or stockpiles to enhance reuse or recycling of materials and their proper disposal;						
	• Proper storage and site practices to minimize the potential for damage and contamination of construction materials;						
	• Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste;						
	• Sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable portions (i.e. soil, broken concrete, metal etc.); 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	Remark
S6.2.4.1	Storage, Collection and Transportation of Waste Should any temporary storage or stockpiling of waste is required, recommendations to minimize the impacts include:	Minimize waste impacts arising from waste storage	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	WDO	^
	• Waste, such as soil, should be handled and stored well to ensure secure containment, thus minimizing the potential of pollution;						^
	• Stockpiling area should be provided with covers and water spraying system to prevent materials from windblown or being washed away; and						^
	• Different locations should be designated to stockpile each material to enhance reuse.						^
S6.2.4.2	Storage, Collection and Transportation of Waste (con't)	Minimize waste impacts arising from waste storage	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	WDO	^
	• Remove waste in timely manner;						^
	• Employ the trucks with cover or enclosed containers for waste transportation;						^
	• Obtain relevant waste disposal permits from the appropriate authorities; and						^
S6.2.5.2	• Disposal of waste should be done at licensed waste disposal facilities	Minimize waste impacts arising from waste storage	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	^
	C&D Materials from Site Formation						^
	• Maintain temporary stockpiles and reuse excavated fill material for backfilling;						^
	• Carry out on-site sorting;						^
	• Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate;						^
S6.2.5.3	• 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	C&D Material from Buildings Demolition and New Building Construction						

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	Remark
	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 arising from waste storage	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	^
	The use of wooden hoardings shall not be allowed. An alternative material, such as metal, aluminium or alloy etc, could be used.						^
	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	Chemical Waste						
	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						

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	Remark
	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	Remark
Landscape and Visual							
S7.3.1.1	Good Site Practices Measures						
	For areas unavoidably disturbed by the Project on a short term basis e.g. works areas, the general principle to try and restore these to their former state to suit future land use, should be adhered to.	Minimize the impact to the landscape and visual	Contractor	Work Sites	Prior to construction and construction phase		N/A
	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.						N/A
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	Remark
S7.3.2.1	MM5 - Tree Transplantation Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, where applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme. A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBTC No. 2/2004 and DEVB TC(W) No. 7/2015 and final locations of transplanted trees should be agreed prior to commencement of the work. For trees associated with highways e.g. roadside planting along highways, that are unavoidably affected and should be transplanted, HyD HQ/GN/13 'Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit' should be referred to.	Transplant Trees where suitable for transplantation	Designer / Contractor	Work Sites where possible. Otherwise consider offsite locations	Prior to construction, construction phase and operation phase	DEVB TC(W) No. 7/2015 and ETWB TCW No.2/2004 HyD HQ/GN/13 Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit	N/A
S7.3.2.1	MM6 - Slope Landscaping Site formation should be reduced as far as possible. Hydroseeding of modified slopes should be done as soon as grading works are completed to prevent erosion and subsequent loss of landscape resources and character. Woodland tree seedlings and/or shrubs should be planted where slope gradient and site conditions allow.	To avoid substantial slope cutting and fill slopes. To prevent erosion and subsequent loss of landscape resources and character. To ensure manmade slopes are as visually amenable as possible.	Designer / Contractor	Work Sites	Prior to construction, construction phase and operation phase	GEO Publication (1999) - Use of Vegetation as Surface Protection on Slope; GEO Publication No. 1/2011- Technical Guidelines on Landscape Treatment for Slopes	N/A
	In addition, landscape planting should be provided for the retaining structures associated with modified slopes where conditions allow. All slope landscaping						N/A
S7.3.2.1	MM7 - Compensatory Planting						

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	Remark
	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	N/A
	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.						N/A
	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>Raphiolepis indica</i>, and <i>Rhododendron simsii</i> are suggested.						N/A
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	N/A
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)	N/A

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	Remark
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	N/A
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. Details can refer to the ecological impact assessment. [Chapter 13 of the EIA Report of NENT NDAs (Register No. AEIAR-175- 2013)]	To screen undesirable views of the works site.	Designer	Work Sites	Construction phase		N/A
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		N/A

Remarks:

^ Implemented
 * To be followed-up by Contractor
 # Not Implemented
 N/A Not Applicable

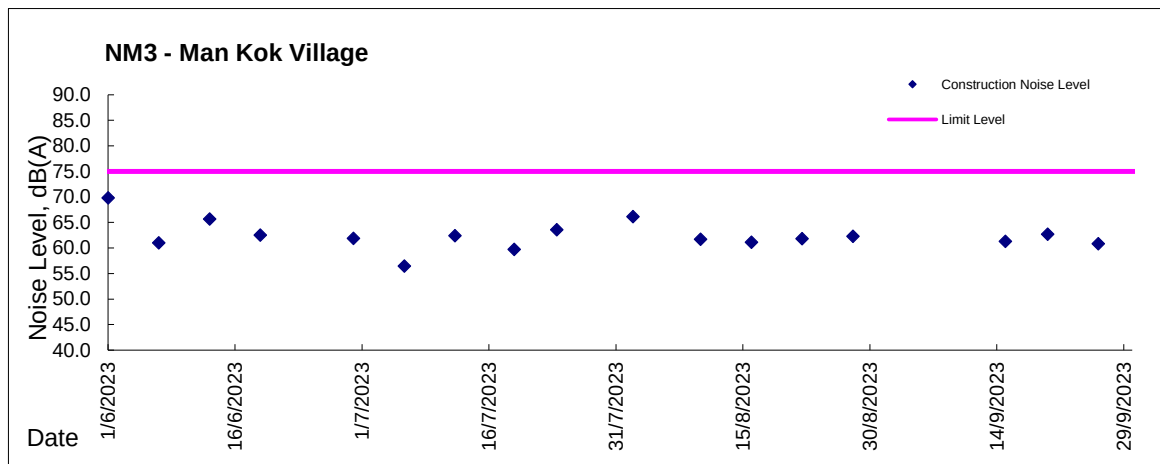
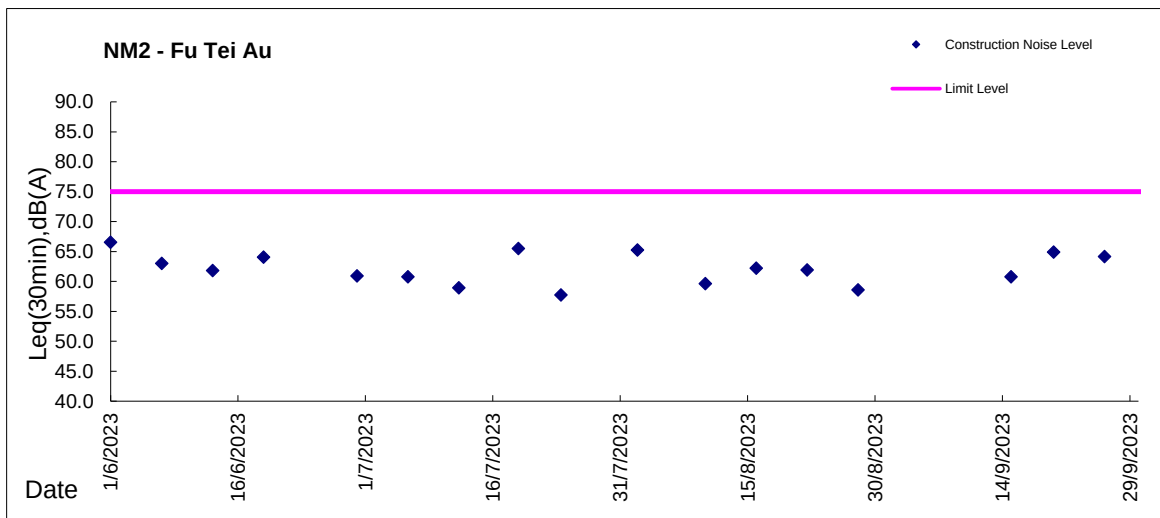
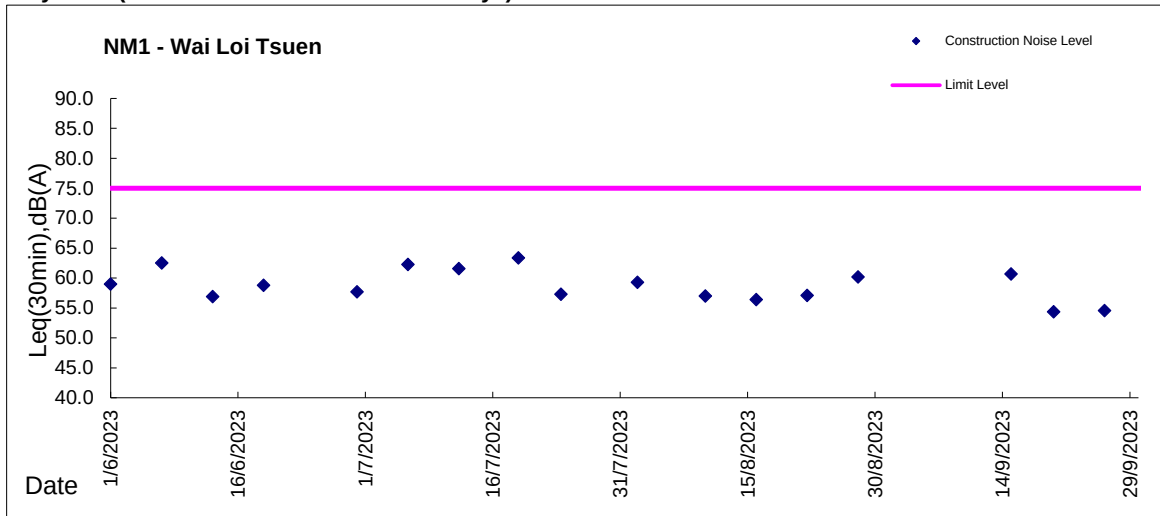


Appendix 3.4

Noise Monitoring Graphical Presentations

Graphic Presentation of Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)



Remark: Noise monitoring scheduled on 8th September 2023 was cancelled due to rainfall on 8th and 9th September 2023.

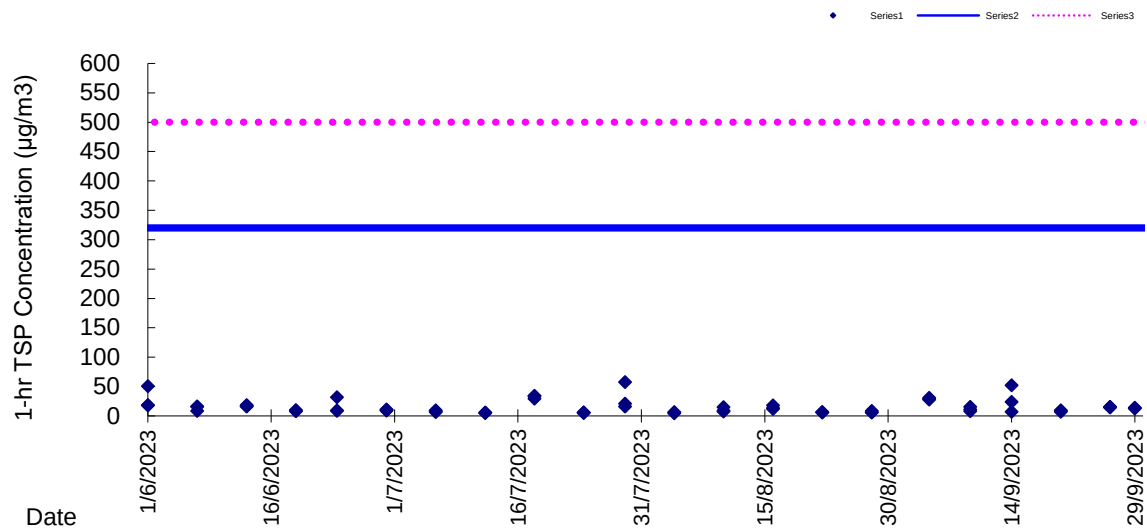


Appendix 3.5

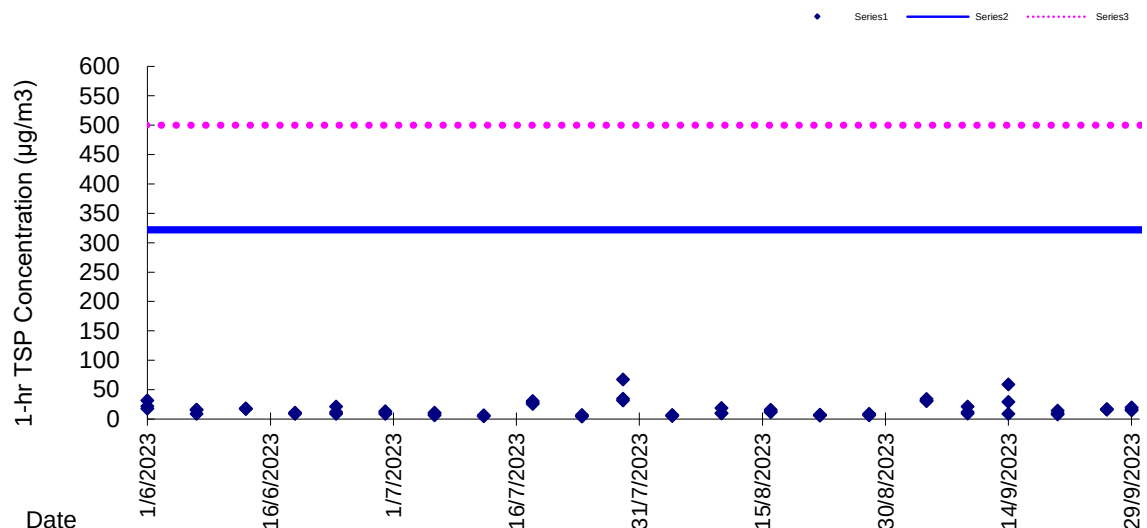
Air Quality Monitoring Graphical Presentations

Graphic Presentation of TSP Result

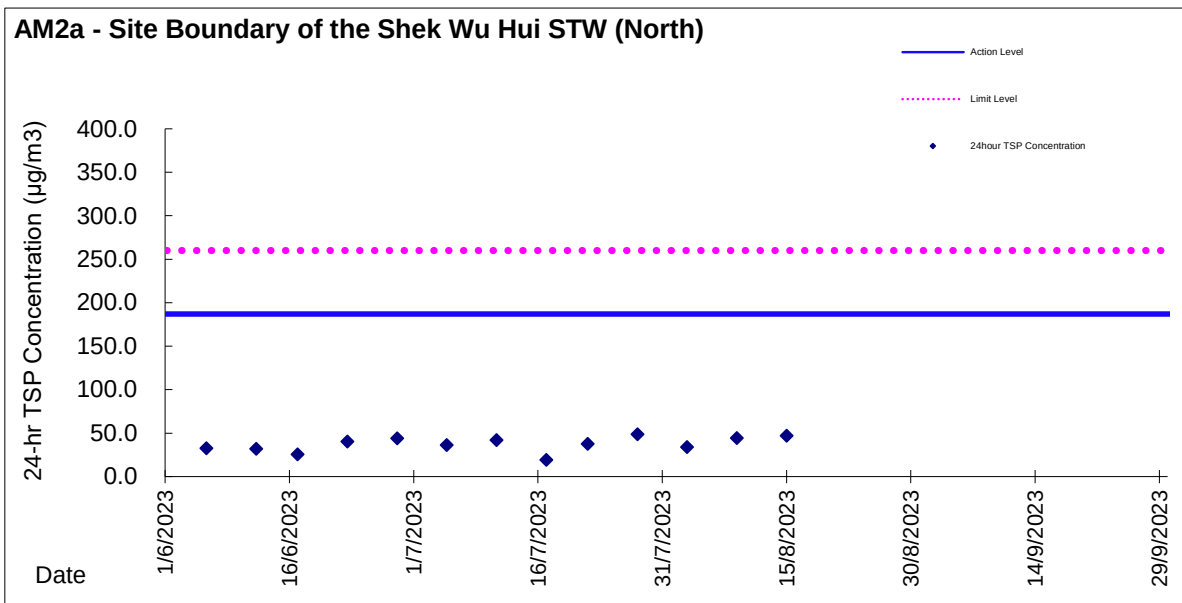
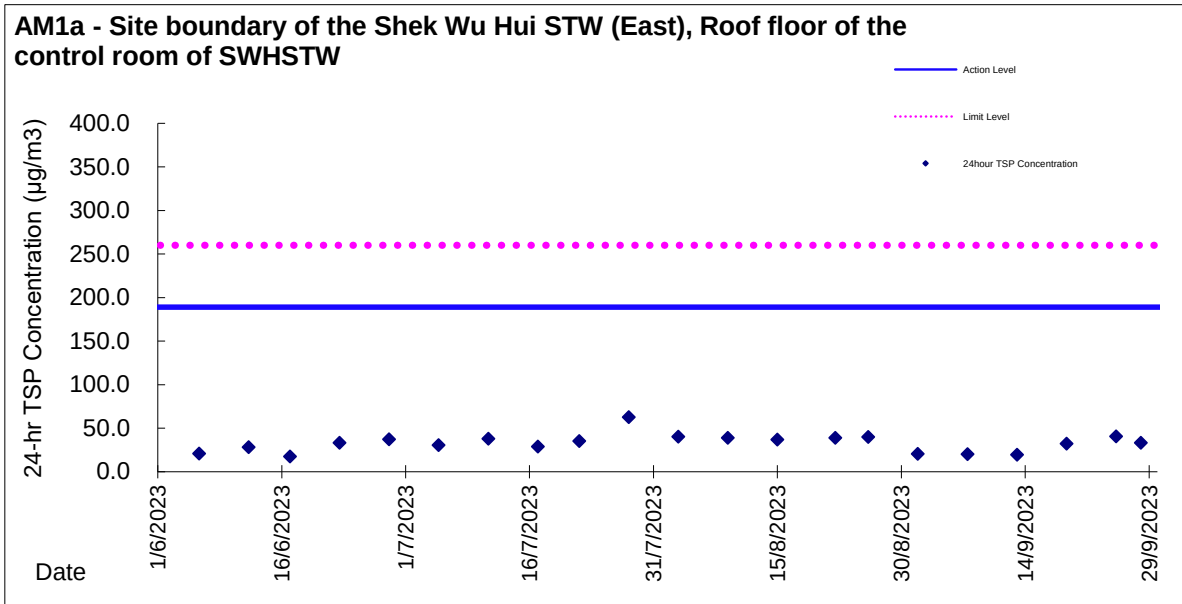
AM1 - Wai Loi Tsuen



AM2 - Fu Tei Au



Graphic Presentation of TSP Result



Remark: Due to power failure, 24 hr TSP AQM scheduled on 21 Aug 2023 at both AM1a* and AM2a were suspended. While the 24 hr TSP AQM has been resumed on 22 Aug 2023 at AM1a*, the one at AM2a was still suspended during the rest of the reporting period due to the instability of power supply.



Appendix 3.6

Details of Ecological Monitoring Results in the Reporting Period



Details of Ecological Monitoring Results in the Reporting Quarter

Reporting period: July to September 2023

Summary Result of T-Test Analysis for All Waterbird

Month	T-values of Data		Confidence Level (Critical Value)	
			95% (-2.353)	99% (-4.541)
July 2023	Abundance	Monthly	✓	✓
		Seasonal	✓	✓
		Overall	✓	✓

Month	T-values of Data		Confidence Level (Critical Value)	
			95% (-2.132)	99% (-3.747)
August 2023	Abundance	Monthly	✓	✓
		Seasonal	✓	✓
		Overall	✓	✓

Month	T-values of Data		Confidence Level (Critical Value)	
			95% (-2.353)	99% (-4.541)
September 2023	Abundance	Monthly	✓	✓
		Seasonal	✓	✓
		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.



Summary of Abundance of Representative Waterbirds in the Reporting Period

Representative Species			Compliance		
Species Name	Common Name	Chinese Name	July 2023	August 2023	September 2023
<i>Egretta garzetta</i>	Little Egret	小白鷺	✓	✓	✓
<i>Ardea cinerea</i>	Grey Heron	蒼鷺	NA*		
<i>Ardeola bacchus</i>	Chinese Pond Heron	池鷺	✓	✓	✓
<i>Phalacrocorax carbo</i>	Great Cormorant	普通鸕鶿	NA*		
<i>Ardea alba</i>	Great Egret	大白鷺	✓	✓	✓
<i>Bubulcus coromandus</i>	Eastern Cattle Egret	牛背鷺	✓	✓	✓

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.

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



Appendix 3.7

Waste Flow Table

Monthly Summary Waste Flow Table for 2023

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	0.442	0.000	0.000	0.000	0.442	3.796	0.000	0.000	0.000	0.000	0.061
Feb	1.381	0.000	0.000	0.000	1.381	2.962	0.000	0.000	0.000	0.000	0.078
Mar	2.528	0.000	0.000	0.000	2.528	3.530	0.000	0.000	0.000	0.000	0.090
Apr	1.633	0.000	0.000	0.000	1.633	0.280	0.000	0.000	0.000	0.000	0.083
May	2.067	0.000	0.000	0.000	2.067	0.791	0.000	0.000	0.000	0.000	0.073
Jun	1.013	0.000	0.000	0.000	1.013	0.250	0.000	0.000	0.000	0.000	0.084
Sub-total	9.064	0.000	0.000	0.000	9.064	11.609	0.000	0.000	0.000	0.000	0.469
Jul	1.310	0.000	0.000	0.000	1.310	0.111	0.000	0.000	0.000	0.000	0.054
Aug	1.114	0.000	0.000	0.000	1.114	0.112	0.000	0.000	0.000	0.000	0.091
Sep	0.683	0.000	0.000	0.000	0.683		0.000	0.000	0.000	0.000	0.098
Oct											
Nov											
Dec											
Total	12.170	0.000	0.000	0.000	12.170	11.832	0.000	0.000	0.000	0.000	0.713

- Notes:
1. Assume the density of soil fill is 2 ton/m3.
 2. Assume the density of rock and broken concrete is 2.5 ton/m3.
 3. Assume the density of general refuse is 0.9 ton/m3.
 4. Assume density of waste oil is assumed to be 0.8 kg/L.
 5. The inert C&D materials except slurry and bentonite are disposed at Tuen Mun 38.
 6. The non-inert C&D wastes are disposed at NENT.
 7. The quantities of C&D material disposed at Public Fill Facilities and Landfill was until 24/9/2023.

Monthly Summary Waste Flow Table for 2023

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 ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	8.960	0.000	0.000	0.000	8.960	0.089	0.00	0.000	0.000	0.000	0.025
Feb	3.950	0.000	0.000	0.000	3.950	0.043	0.00	0.000	0.000	0.000	0.070
Mar	0.341	0.000	0.000	0.000	0.341	0.000	0.00	0.000	0.000	0.000	0.074
Apr	0.213	0.000	0.000	0.000	0.213	0.000	0.00	0.000	0.000	0.000	0.047
May	1.877	0.000	0.000	0.000	1.877	0.000	0.00	0.000	0.000	0.000	0.072
Jun	1.004	0.000	0.000	0.000	1.004	0.093	0.00	0.000	0.000	0.000	0.065
Sub-total	16.346	0.000	0.000	0.000	16.346	0.225	0.000	0.000	0.000	0.000	0.352
Jul	2.555	0.000	0.000	0.000	2.555	0.070	0.00	0.000	0.000	0.000	0.093
Aug	3.369	0.000	0.000	0.000	3.369	0.134	0.00	0.000	0.000	0.000	0.061
Sep	0.897	0.000	0.000	0.000	0.897		0.00	0.000	0.000	0.000	0.067
Oct											
Nov											
Dec											
Total	23.167	0.000	0.000	0.000	23.167	0.428	0.000	0.000	0.000	0.000	0.574

Notes:

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

Name of Department: ~~ArchSD/CEDD/DSD/EMSD/HyD/WSD~~Contract No.: DE/2018/03**Monthly Summary Waste Flow Table for 2023** (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 ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	0	0	0	0	0	0	0	0.13	0	0	10.51T
Feb	0	0	0	0	0	0	0	0	0	0	17.33T
Mar	0	0	0	0	0	0	0	0.155	0.01	0	18.31T
Apr	0	0	0	0	0	0	4.81	0	0	0	12.62T
May	0	0	0	0	0	0	8.66	0.154	0	0	15.69T
June	0	0	0	0	0	0	75.09	0.155	0.01	0	19.34T
Sub-total	0	0	0	0	0	0	88.56	0.594	0.02	0	93.8T
July	62.33	0	0	0	62.33	0	41.04	0.156	0	0	24.83T
Aug	576.05	0	0	0	576.05	0	12.52	0.251	0.04	0	21.41T
Sept	0	0	0	0	0	0	0	0	0	0	49.61T
Oct											
Nov											
Dec											
Total	638.38	0	0	0	638.38	0	129.6	1.001	0.06	0	189.65T

Name of Department: DSD

Contract No.: DE/2018/04**Monthly Summary Waste Flow Table for 2023** (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	7.26	0	0	0	7.26	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0	0	1.97
Mar	0	0	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	36.23	0	0	0.8	0
May	0	0	0	0	0	0	0	0	0	0	1.06
June	74.73	0	0	0	74.73	0	0	0	0	0	2.05
Sub-total	81.99	0	0	0	81.99	0	36.23	0	0	0.8	5.08
July	28.34	0	0	0	28.34	0	0	0	0	0	0
Aug	9.26	0	0	0	9.26	0	0	0	0	0	7.97
Sept	0	0	0	0	0	0	0	0.2	0	0	0.92
Oct											
Nov											
Dec											
Total	119.59	0	0	0	119.59	0	36.23	0.2	0	0.8	13.97



Appendix 4.1

Summary of Notification of Exceedance



Summary for Notification of Exceedance

Reporting period: July to September 2023

Air Quality

Ref No.	Date	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up Action
-	-	-	-	-	-	-	-

Construction Noise

Ref. No.	Date	Time	Location	Construction Noise Level	Parameter	Action Level	Limit Level	Follow-up action
-	-	-	-	-	-	-	-	-

Ecology: Nil



Appendix 4.2

Site Audit Summary

**Site Audit Summary**Reporting Quarter: **July to September 2023**

Contract No.: DC/2018/06		
Date	Observations and recommendations	Follow-up and status
July		
4 July 2023	No particular findings	-
13 July 2023	Dust mitigation measures should be provided to the stockpile.	Rectified on 18-July-23.
18 July 2023	No particular findings	-
27 July 2023	Stockpile near Ng Tung River should be cover by impervious sheeting to prevent site runoff.	Rectified on 3-August-23.
27 July 2023	Dust suppression measures should be provided to the idled stockpile near Gate 4.	Rectified on 3-August-23.
August		
3 August 2023	No particular findings	-
10 August 2023	Contractor should keep the green barrier intact.	Rectified on 15-August-23.
15 August 2023	No particular findings	-
22 August 2023	Contractor was reminded to clean up the refuse regularly.	Rectified on 29-August-23.
29 August 2023	No particular findings	-
September		
5 September 2023	Protection should be provided to the U-channel to prevent discharge of muddy water.	Rectified on 26-Sep-2023.
5 September 2023	Contractor was reminded to maintain the effectiveness of the concrete bund to prevent discharge of site runoff.	N/A
19 September 2023	The dull green barrier should be kept intact.	Rectified on 26-Sep-2023.
19 September 2023	Contractor should clean up the oil spillage of the cherry picker, the cleanup materials should be dispose as chemical waste.	Rectified on 26-Sep-2023.
19 September 2023	Dust suppression measures should be provided to the idled stockpile.	Rectified on 26-Sep-2023.



26 September 2023	Dust suppression measures should be provided to the idled stockpile.	Rectified on 3-Oct-2023.
26 September 2023	The Contractor was reminded to prevent discharge of site runoff to the U-channel.	N/A

Contract No.: DC/2018/07		
Date	Observations and recommendations	Follow-up and status
July		
4 July 2023	No particular findings	-
13 July 2023	Contractor should clean up the dust deposited on the public haul road.	Rectified on 18-July-23.
18 July 2023	No particular findings	-
27 July 2023	Dust suppression measures should be provided to the idled stockpile near Inlet.	Rectified on 3-August-23.
27 July 2023	Broken tree branch was observed on a tree near Inlet. It was suspected that the damage was done by the long arm excavator nearby. Contractor was reminded to maintain the tree protection zone to avoid damage to the tree.	N/A
August		
3 August 2023	Dust suppression measure should be provided to the stockpile near sidestream.	Rectified on 10-August-23.
3 August 2023	Treated effluent in the Wetsep was observed turbid. Contractor should maintain the performance of the Wetsep.	Rectified on 10-August-23.
10 August 2023	No particular findings	-
15 August 2023	No particular findings	-
22 August 2023	No particular findings.	-
29 August 2023	Treated effluent of the Wetsep near MFB2 was observed turbid. Contractor should maintain the performance of the Wetsep.	Rectified on 5-Sept-23.
29 August 2023	Materials should not be stored in the tree protection zone.	Rectified on 5-Sept-23.



September		
5 September 2023	No particular findings	-
19 September 2023	No particular findings	-
26 September 2023	No particular findings	-

Contract No.: DE/2018/03		
Date	Observations and recommendations	Follow-up and status
July		
4 July 2023	No particular findings	-
11 July 2023	No particular findings	-
18 July 2023	Contractor was reminded to replace the faded NRMM label on the generator at sidestream.	Rectified on 3-August-23.
27 July 2023	No particular findings	-
August		
3 August 2023	Contractor should clean up the diesel spillage properly, the clean-up materials should dispose as chemical waste.	Rectified on 8-August-23.
8 August 2023	No particular findings	-
15 August 2023	No particular findings	-
22 August 2023	Contractor was reminded to clean up the waste skip regularly.	Rectified on 29-August-23.
29 August 2023	No particular findings	-
September		
5 September 2023	No particular findings	-
12 September 2023	No particular findings	-
19 September 2023	No particular findings	-
26 September 2023	No particular findings	-



Contract No.: DE/2018/04		
Date	Observations and recommendations	Follow-up and status
July		
4 July 2023	No particular findings	-
11 July 2023	No particular findings	-
18 July 2023	No particular findings	-
27 July 2023	Contractor was reminded to separate the C&D waste and general waste and cover the idled waste skip.	Rectified on 3-August-23.
August		
3 August 2023	No particular findings	-
8 August 2023	No particular findings	-
15 August 2023	No particular findings	-
22 August 2023	No particular findings	-
29 August 2023	No particular findings	-
September		
5 September 2023	No particular findings	-
12 September 2023	No particular findings	-
19 September 2023	No particular findings	-
26 September 2023	No particular findings	-

Appendix 5.1

Summary of Complaints, Notification of Summons and Successful Prosecution



Summary of Environmental Complaints Log

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
1	18 March 2020	EPD	Expansion Site of SWHSTP (Portion C)	Water contamination	Muddy water was suspected to be discharged from the expansion site of SWHSTP to Shek Sheung River, manholes and foul drains nearby The investigation and mitigation measures included - Employed suction truck and dump truck to clear the silt and mud at Shek Sheung River - Arranged to repair the wastewater treatment system - Installed additional sedimentation tanks and wastewater treatment system to increase the on-site treatment capacity - Clean the slurry sediment released from the outlet regularly by suction trucks - Avoid damage of underground drains and pipes caused by existing construction works - Avoid illegal discharge from the Site into foul drains and manholes	Closed
2	19 February 2021	EPD	SWHEPP	Odour nuisance	Significant odour nuisance was suspected to be emitted from the construction activities of SWHEPP The investigation and mitigation measures included - Ensured only PMEs with valid NRMM label were used on-site - Conducted regular visual checking against emission quality of exhaust pipe of equipment by using the Ringlemann Chart - Used ULSD for diesel-powered equipment - Provided water spraying and water sprinklers system for haul road access and demolition works - Used battery powered solution to provide power to the tower crane - Provided cover for all rubbish bins on-site - Separated general refuse from construction waste	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
3	9 August 2021	EPD	SWHEPP	Air Quality	Air nuisance was suspected to be originated from the construction activities of SWHEPP The investigation and mitigation measures included - Ensured only PMEs with valid NRMM label were used on-site - Conducted regular visual checking against emission quality of exhaust pipe of equipment by using the Ringlemann Chart - Used ULSD for diesel-powered equipment - Used battery powered solution to provide power to the tower crane - Carried out plant maintenance in a timely manner	Closed
20220304	4 March 2022	EPD	SWHEPP	Odour nuisance	The complainant alleged the odour nuisance was sourced from the construction site of Shek Wu Hui Effluent Polishing Plant on 4 March 2022. Thus, all four contracts (Contract Nos. DC/2018/06, DC/2018/07, DE/2018/03 and DE/2018/04) were involved in the complaint investigation. After investigation, no construction activities undertaken by all four contracts was associated with the odour nuisance received on 4 March 2022. Nevertheless, the contractors were reminded and recommended to: • Ensure only equipment with valid NRMM label is allowed to be used at site and regular maintenance of equipment • Provide regular visual checking against emission quality of exhaust pipe of equipment by using the Ringlemann Chart • Use ULSD as fuel for diesel-powered equipment • Maintain proper segregation and storage of general refuse	Closed.



Summary of Notification of Summons and Successful Prosecution

Reporting period: July to September 2023

Log No.	Date	Received From and Received By	Location	Outcome	Status
-	-	-	-	-	-

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