Contract No. SPW 02/2023 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1

Quarterly EM&A Report

(April 2024 - June 2024)

Drainage Services Department

2024-07-26

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Attn: Mr. Simon H.M. YEUNG – CRE(C)

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Contract No. SPW 03/2023

Independent Environmental Checker for Construction of Yuen Long Effluent Polishing Plant Stage 1 (2023-2024)

Environmental Permit No. EP-565/2019

Quarterly EM&A Summary Report for April 2024 to June 2024

26 July 2024

By Hand and By Email

Dear Sir,

I refer to the captioned Quarterly EM&A Summary Report for April 2024 to June 2024 (Revision 1) which was produced by the Environmental Team (ET) Leader, received via e-mail on 26 July 2024 and duly certified by the ET Leader on 26 July 2024 (ref.: PL-202407060).

I have no comment on the captioned report and hereby verify that this submission has in general fulfilled the requirements set out in the EM&A Manual (in particular Section 12.4.5) for the captioned project.

Should you have any queries regarding the captioned or require any further information, please contact the undersigned at 2828 5875.

Yours faithfully
for MOTT MACDONALD HONG KONG LIMITED

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c.c.	DSD	Mr. Wallace CHENG – E/SP 16	By Email
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Ref: PL-202407060

By Email

26 July 2024

Mott MacDonald
3/F Manulife Tower,
348 Kwun Tong Road,
Kwun Tong, Kowloon,
Hong Kong

Attn: Mr. Brandon Wong, IEC

Dear Sir,

Contract No. SPW 02/2023
Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1
Environmental Permit No. EP-565/2019
EP Condition 3.5 – Quarterly EM&A Report for April to June 2024

Pursuant to Clause 3.5 of Environmental Permit No. EP-565/2019 for the captioned project, we are pleased to submit the certified Quarterly EM&A Report for April to June 2024 (Rev.1) for your verification.

Should you have any queries regarding the captioned or require any further information, please contact the undersigned at 2531 0243.

Yours faithfully,
For and on behalf of
Aurecon Hong Kong Limited

Vincent M. J. Lu
Environmental Team Leader

Encl.

cc. AECOM – Mr. Patrick Leung (patrick.leung@ylepp-aecom.com)
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Reviewer's signature		Approver's signature	
Name	Joe Ho	Name	Vincent Lu
Title	Senior Environmental Consultant	Title	Environmental Team Leader

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EXECUTIVE SUMMARY

This Quarterly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract No. SPW 02/2023 “Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1”. Drainage Services Department (DSD) has appointed Aurecon Hong Kong Limited (Aurecon) to undertake the Environmental Team services for the project and implement the EM&A works.

This is the 13th Quarterly EM&A Report for the construction phase which summaries findings of the EM&A programme during the reporting period from 1 April 2024 to 30 June 2024. As informed by the Contractor, major activities in the reporting period were shown in section 1.4.1.

Breaches of Environmental Quality Performance Limits (AL levels)

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

No Action and Limit Level exceedance was recorded for water quality monitoring in the reporting period.

No Action / Limit exceedance was recorded for noise levels at stations (NMS1 and NMS2) in close proximity to the active ardeid night roosts during the reporting period.

One exceedance in Action Level was recorded for the ecological monitoring of birds on 12 April 2024 (night-time) and 15 April 2024 (daytime). This includes decline in point count method for Abundance of Species of Conservation Importance.

No corrective actions were required according to the Event and Action Plans for the Monitoring Parameters.

Land Contamination

Regular site inspection was carried out to ensure the recommended mitigation measures are properly implemented. The signed final Contamination Assessment Report (CAR) for “Main Storeroom & Workshops”, “Mechanical Workshop”, “Waste Storage Area”, “SAS Thickener House-1” and “SAS Thickener House-2” were submitted to EPD respectively on 1st November 2021, 23rd November 2021, 29th April 2022, 6th July 2022 and 19th June 2023. No contaminated soil and ground water was found within the Main Storeroom & Workshop, Mechanical Workshop, Waste Storage Area, SAS Thickener House-1 and SAS Thickener House-2, and no remedial action is required for these locations.

Complaint Log

No complaints were received in the reporting period.

Notifications of Summons and Successful Prosecutions

No notifications of summons and successful prosecutions were received in the reporting period.

Reporting Change

There were no reporting changes during the reporting period.

1 INTRODUCTION

1.1 Background

1.1.1 The existing Yuen Long Sewage Treatment Works (YLSTW) is a secondary sewage treatment works, located at Yuen Long Industrial Estate serves Yuen Long Town, Yuen Long Industrial Estate and Kam Tin areas with a design capacity of 70,000 m³ per day. Based on the latest planning data, the volume of sewage generation from the YLSTW catchment is estimated to increase to 150,000 m³ per day after 20 years. In addition, since YLSTW has been operating for over 30 years and most of its facilities are of out-dated design and reaching the end of their design life, the environmental facilities of the plant will also be upgraded and hence improving the adjacent environment through upgrading the YLSTW to Yuen Long Effluent Polishing Plant (YLEPP). The Location of Proposed Yuen Long Effluent Polishing Plant is given in **Figure 1**.

1.1.2 YLSTW will be reconstructed in two stages to increase its capacity to 150,000 m³ per day. The proposed works, as Stage 1 of the project, will firstly increase the treatment capacity to 100,000 m³ per day. In the course of Stage 1 construction, about half of the existing facilities of YLSTW would be demolished, while the other half would be kept in operation to maintain the sewage treatment service for Yuen Long area. This 72-month works contract commenced on 9 November 2020. Demolition of existing YLSTW for construction of new treatment facilities are in progress.

1.1.3 The Project is a designated project under Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO) (Cap. 499) for which Environmental Impact Assessment (EIA) report and Environmental Monitoring and Audit (EM&A) Manual was approved by EPD (Register No.: AEIAR-220/2019) on 25 April 2019. The Environmental Permit (EP) (EP No. EP-565/2019) was issued by EPD on 26 April 2019.

1.1.4 Fugro Technical Services Limited was appointed as the Environmental Team (ET) by Drainage Services Department (DSD) to undertake the Environmental Team services for the Project and implement the EM&A works under the Contract No. DC/2019/10 Yuen Long Effluent Polishing Plant -Main Works for Stage 1 (hereinafter referred as “the Contract”) for the period from July 2020 to 6 July 2023.

1.1.5 Aurecon Hong Kong Limited (Aurecon) has been appointed as the Environmental Team (ET) by Drainage Services Department (DSD) to undertake the Environmental Team services for the Project and implement the EM&A works under the Contract from July 2023. Air quality, noise, water quality and ecological monitoring, site inspections and auditing (as scheduled) under EM&A programme with effect from 7 July 2023 was conducted by Aurecon. Aurecon is undertaking the preparation (including reporting of monitoring results), certification by ET Leader and submission of this report to EPD.

1.1.6 All ET roles and responsibilities under the EP for this Project were undertaken by Fugro up to 6 July 2023 and by Aurecon with effect from 7 July 2023. Air quality, noise, water quality and ecological monitoring, site inspections and auditing (as scheduled) under EM&A programme up to 6 July 2023 was conducted by Fugro, and the corresponding monitoring results were shared with Aurecon for the purposes of reporting in this report.

1.1.7 This is the 13th Quarterly EM&A Summary Report to document the findings of site inspection activities and EM&A programme for this project from 1 April 2024 to 30 June 2024 (reporting period) and is submitted to fulfil Condition 3.5 of the EP and Section 12.4.5 of the EM&A Manual. According to Condition 4 of the EP, electronic reporting is provided on the internet website to facilitate public inspection of the report.

1.2 Project Organization

1.2.1 The Project Organization structure is shown in **Appendix B**. The key personnel contact names and numbers are summarized in **Table 1**.

Table 1 Contact Information of Key Personnel

Party	Position	Name	Telephone
Project Proponent (Drainage Services Department)	Engineer	Mr. Wallace Cheng	2594 7473
Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Resident Engineer	Mr. Simon Yeung	9075 7172
	Senior Resident Engineer	Mr. Patrick Leung	6124 8838
Independent Environmental Checker (Mott MacDonald Hong Kong Limited)	Independent Environmental Checker (IEC)	Mr. Brandon Wong	2828 5875
Contractor (Paul Y. - CREC Joint Venture)	Environmental Specialist	Mr. Gabriel Wong	5269 5723
	Environmental Officer	Mr. Henry Lau	5490 5271
Environmental Team (Aurecon Hong Kong Limited)	Environmental Team Leader (ETL)	Mr. Vincent Lu	6346 5908

1.3 Construction Programme and Activities

1.3.1 The construction programme of this project is shown in **Appendix A**.

1.4 Works undertaken during the Period

1.4.1 The main construction works carried out in the reporting period were summarized in **Table 2**:

Table 2 Main Construction Works carried out in the Reporting Period

April 2024	May 2024	June 2024
• Piling at SDB • ABWF work, E&M works and fixing GRC panel at CLP Substation • ABWF and E&M works at PST • ABWF, E&M works and RC structure at IW • Erection temp. loading platform at AGS • ELS work at AGS • Erection temp. loading platform at TTS • ELS work at TTS • ELS work at STB • ELS work at Sludge Digester no. 1-3 • E&M work at Biogas Holder no. 1 • Pipeworks for interim scheme • Disposal of construction waste as indicated in **Appendix F**.	• Piling at SDB • ABWF work, E&M works and fixing GRC panel at CLP Substation • ABWF and E&M works at PST • ABWF, E&M works and RC structure at IW • •Erection temp. loading platform at AGS • ELS work at AGS • Erection temp. loading platform at TTS • ELS work at TTS • ELS work at STB • ELS work at Sludge Digester no. 1-3 • E&M work at Biogas Holder no. 1 • Pipeworks for interim scheme • Disposal of construction waste as indicated in **Appendix F**.	• Demolition at existing PST • E&M works and fixing GRC panel at CLP Substation • ABWF and E&M works at PST • ABWF, E&M work and RC structure at IW • ELS work at AGS • ELS work at TTS • ELS work at STB • ELS work at Sludge Digester no. 1-3 • E&M work at Biogas Holder no. 1 • ELS works at emergency bypass chamber • Disposal of construction waste as indicated in **Appendix F**.

1.4.2 The environmental mitigation measures corresponding to the main construction works implemented in the reporting period can be referred to **Appendix G**.

2 SUMMARY OF EM&A REQUIREMENTS AND MONITORING RESULTS

2.1 Monitoring Requirement

2.1.1 The EM&A programme was undertaken in accordance with the EM&A Manual. It should be noted that the air quality, noise, water quality and ecology monitoring works are covered by this contract.

Air quality Monitoring

2.1.2 1-hour Total Suspended Particulates (TSP) levels should be measured at the designated air quality monitoring stations to ensure that any deteriorating air quality could be readily detected and timely action shall be undertaken to rectify such situation. Impact 1-hour TSP monitoring was conducted for at least three times every 6 days when the highest dust impact occurs.

Noise Monitoring

2.1.3 Leq (30min) monitoring is conducted at least once a week when there are Project-related construction activities being undertaken within a radius of 300 m from the monitoring stations. The monitoring is conducted during the construction phase between 0700 and 1900 on normal weekdays at the designated monitoring locations.

Water quality Monitoring

2.1.4 Turbidity (in NTU), pH, DO (in mg/L and % of saturation), Temperature (in °C), Salinity (in ppt) and Suspended Solids are conducted for three days per week at mid-flood and mid-ebb with sampling and measurement at the designated monitoring stations.

Ecology Monitoring

2.1.5 Ardeid night roost monitoring was conducted once a month in areas within 100 m from the Project boundary to monitor the effectiveness of proposed mitigation measures and detect any unpredicted indirect ecological impacts arising from the Project.

2.1.6 Ecological monitoring of birds was conducted monthly during the quarter at point count sites and transect routes along the wetland habitats in Fung Lok Wai and Nam Sang Wai as well as along Shan Pui River and Kam Tin River within 500 m from the Project boundary.

2.2 Monitoring Locations

2.2.1 The air quality and noise monitoring are summarized in **Table 3**. The locations of the air quality and noise monitoring stations shown in **Figure 2** and **Figure 3**, respectively.

Table 3 Air Quality and Noise Monitoring Locations

Environmental Monitoring	Monitoring Station	Location
Air Quality	AM1	Topfine Machinery (China) Co. Ltd
	AM2	Squatter house at the west of YLSTW
Noise	CM1	Squatter house at the north of Yuen Long STW
	CM2	Squatter house at the west of Yuen Long STW
	CM3	Squatter house at the east of Yuen Long STW

2.2.2 The coordinates of water quality monitoring locations are summarized in **Table 4**. The locations of the water quality monitoring stations shown in **Figure 4**.

Table 4 Coordinates of Water Quality Monitoring Locations

Sampling Location		Easting	Northing
M1	Serve as the control station at upstream location of construction site (Flood Tide) / Serve as the impact station at downstream location of construction site (Ebb Tide)	821 086	836 656
M2	Serve as the impact station at downstream location of construction site (Flood Tide)/ Serve as the control station at upstream location of construction site (Ebb Tide)	820 996	836 246
M3	Serve as the impact station at downstream location of construction site (Flood Tide) / Serve as the control station at upstream location of construction site (Ebb Tide)	820 645	820 335

2.3 Results & Observations

2.3.1 Graphical presentation of the environmental monitoring data in the reporting period is presented in **Appendix D**.

Air quality Monitoring

2.3.2 1-hour TSP impact monitoring at AM1 and AM2 were carried out in the reporting period, the air quality monitoring results are reported in the monthly EM&A Report prepared for this Contract.

2.3.3 No Action and Limit Level exceedance was recorded for air quality monitoring in the reporting period.

Noise Monitoring

2.3.4 Construction noise monitoring were carried out in the reporting period, the construction noise monitoring results for CM1, CM2 and CM3 are reported in the monthly EM&A Reports prepared for this Contract.

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

2.3.6 No raining and wind with speed over 5 m/s was observed during noise monitoring according to the onsite observation.

2.3.7 During the noise monitoring period, at CM2, road traffic from the squatter house at the west of Yuen Long STW was observed, at CM3, road traffic from the Nam Sang Wai Road was observed. No effect that arose from the other special phenomena and work progress of the concerned site for CM1 was noted during the current monitoring period.

Water quality Monitoring

2.3.8 Water quality monitoring were carried out in the reporting period, the monitoring results for M1, M2 and M3 are reported in the monthly EM&A Reports prepared for this Contract.

2.3.9 Due to safety concerns, the water quality monitoring on 14 June 2024 [Mid-Flood] has been cancelled by Red Rainstorm Warning Signal.

2.3.10 No Action and Limit Level exceedance was recorded for Dissolved Oxygen, Turbidity and Suspended Solids. Number of water quality exceedance recorded in the reporting period at each impact stations is summarized in **Table 5**.

Table 5 Summary of Water Quality Exceedance

Sampling Location	Exceedance Level	DO		Turbidity		Suspended Solids		Total	
		Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb
M1	Action	0	0	0	0	0	0	0	0
	Limit	0	0	0	0	0	0	0	0
M2	Action	0	0	0	0	0	0	0	0
	Limit	0	0	0	0	0	0	0	0
M3	Action	0	0	0	0	0	0	0	0
	Limit	0	0	0	0	0	0	0	0
Total	Action	0	0	0	0	0	0	0	
	Limit	0	0	0	0	0	0	0	

Ecology Monitoring

2.3.11 Ardeid night roost monitoring and ecological bird monitoring were carried out in the reporting period. The monitoring results are reported in the monthly EM&A Reports prepared for this Contract.

2.3.12 Results of the ardeid night roost monitoring showed that the two confirmed ardeid night roosts (ANR 1 and ANR 2) during the pre-construction survey were still observed to be active from April 2024 to June 2024. No Action / Limit Level exceedance at NMS1 and NMS2 was recorded during the reporting period.

2.3.13 Results of the ecological bird monitoring recorded no exceedance in Action / Limit Level during the reporting period.

2.4 Action and Limit Levels

2.4.1 The Action and Limit Levels for air quality, noise, water quality and ecology monitoring have been set and are presented in **Appendix C**.

2.5 Event and Action Plans

2.5.1 The event and action plans for air quality, noise, water quality and ecology monitoring are presented in **Appendix E**.

2.6 Mitigation Measures

2.6.1 The Contractor had implemented environmental mitigation measures and requirements as stated in the EIA Report, the EP and EM&A Manual. The implementation status of the environmental mitigation measures during the reporting period is summarized in **Appendix G**.

3 LANDSCAPE AND VISUAL

3.1 Audit Requirements

3.1.1 According to the EM&A Manual, a Landscape Architect or related professional shall be employed to audit the implementation of landscape construction works particularly during site clearance operations when the proposed tree felling and transplanting will take place and subsequent maintenance operations. Site audits should be undertaken every week during the construction phase to check that the proposed landscape and visual mitigation measures are properly implemented and maintained as per their intended objectives. The mitigation measure recommended in the EIA Report as the audit requirements for landscape and visual, including: preservation of existing vegetation, transplanting of affected trees, compensatory tree planning, control of night-time lighting glare, erection of decorative screen hoarding and management of construction activities and facilities are summarized in **Appendix G**.

3.2 Results and Observations

3.2.1 According to the EM&A Manual, site audits should be undertaken every week during the construction phase to check that the proposed landscape and visual mitigation measures are properly implemented and maintained as per their intended objectives.

3.2.2 To monitor and audit the implementation of landscape and visual mitigation measures, 13 weekly landscape and visual site audits were carried out in the reporting period. No outstanding issues were reported during the reporting period. Observations and recommendations during site audits are summarized in **Table 6**.

4 LAND CONTAMINATION

4.1 Contamination Assessment Report

4.1.1 Risk-Based Remediation Goals (RBRGs) for Industrial have been adopted for the “Main Storeroom & Workshops” and the laboratory results for the sampling works (conducted between 30 June 2021 to 16 July 2021) show that there are no exceedances of the adopted RBRGs for the “Main Storeroom & Workshops”. As no contaminated soil and groundwater was found within the “Main Storeroom & Workshops”, no remediation actions are required for contaminated soil and groundwater for the scheduled land use of the “Main Storeroom & Workshops”. Their findings are summarized in Contamination Assessment Report (CAR) and submitted to EPD on 1 November 2021.

4.1.2 Risk-Based Remediation Goals (RBRGs) for Industrial have been adopted for the “Mechanical Workshop” and the laboratory results for the sampling works (conducted between 23 July 2021 to 4 August 2021) show that there are no exceedances of the adopted RBRGs for the “Mechanical Workshop”. As no contaminated soil and groundwater was found within the “Mechanical Workshop”, no remediation actions are required for contaminated soil and groundwater for the scheduled land use of the “Mechanical Workshop”. Their findings are summarized in Contamination Assessment Report (CAR) and submitted to EPD on 23 November 2021.

4.1.3 Risk-Based Remediation Goals (RBRGs) for Industrial have been adopted for the “Waste Storage Area” and the laboratory results for the sampling works (conducted between 24 November 2021 to 6 January 2022) show that there are no exceedances of the adopted RBRGs for the “Waste Storage Area”. As no contaminated soil and groundwater was found within the “Waste Storage Area”, no remediation actions are required for contaminated soil and groundwater for the scheduled land use of the “Waste Storage Area”. Their findings are summarized in Contamination Assessment Report (CAR) and submitted to EPD on 29 April 2022.

4.1.4 Risk-Based Remediation Goals (RBRGs) for Industrial have been adopted for the “SAS Thickener House-1” and the laboratory results for the sampling works (conducted between 13 April 2022 to 16 May 2022) show that there are no exceedances of the adopted RBRGs for the “SAS Thickener House-1”. As no contaminated soil and groundwater was found within the “SAS Thickener House-1”, no remediation actions are required for contaminated soil and groundwater for the scheduled land use of the “SAS Thickener House-1” . Their findings are summarized in Contamination Assessment Report (CAR) and submitted to EPD on 6 July 2022.

4.1.5 Risk-Based Remediation Goals (RBRGs) for Industrial have been adopted for the “SAS Thickener House-2” and the laboratory results for the sampling works (conducted between 15 February 2023 to 23 February 2023) show that there are no exceedances of the adopted RBRGs for the “SAS Thickener House-2”. The laboratory results are compared against the adopted RBRGs and soil saturation limit (Csat) for soil samples and the adopted RBRGs and the solubility limits for groundwater samples. No exceedance of RBRG are recorded for both soil samples and groundwater samples. Furthermore, no exceedance of the soil saturation limit are recorded for soil samples. However, the exceedances of solubility limits for PCRs (C9-C16) are recorded for groundwater samples collected at BH-18, BH-19, BH-20 and BH-21; and also PCRs (C17-C35) for BH-21. As no non-aqueous phase liquid (NAPL) was observed during sampling, no further sampling and remediation are required. As no contaminated soil and groundwater is found within the

“SAS Thickener House-2”, no remediation actions are required for contaminated soil and groundwater for the scheduled land use of the “SAS Thickener House-2”. Their findings are summarized in Contamination Assessment Report (CAR) which was certified by ET Leader and verified by IEC on 31 May 2023 and submitted to EPD on 19 June 2023.

5 SITE INSPECTION AND AUDIT

5.1 Site Inspection

5.1.1 Site audits were carried out by ET on weekly basis at least once per week to monitor the implementation of proper environmental management practices and mitigation measures in the Project site.

5.1.2 In the reporting period, 13 site inspections were carried out. No outstanding issues were reported during the reporting period. Details of observations recorded during the site inspections are presented in **Table 6**.

Table 6 Observations and Recommendations of Site Audit

Parameters	Date	Observations and Recommendations	Follow-up
Air Quality	20240417	Observation: Watering should be provided every two hours for the works area.	Watering was provided.
	20240430	Observation: Watering should be increased for the haul road.	Watering frequency was increased.
Noise	20240619	Observation 1: The silent up at northwest of the site should be enclosed.	The silent up are well enclosed.
Water Quality	20240529	Reminder: The contractor is reminded to increase watering for the haul road.	NA
Chemical and Waste Management	20240514	Reminder: The contractor was reminded to clear the construction waste regularly.	NA
	20240605	Observation 2: Domestic waste should be stored inside the enclosed rubbish bin.	The skip was cleaned.
Land Contamination		NA	
Ecological Impact		NA	
Landscape and Visual Impact		NA	
Permit / Licenses	20240409	Reminder: A new NRMM label should be provided for the Generator at STB.	NA
	20240425	Observation: The colour of NRMM label for the excavator at PST should be green.	NRMM label was replaced.
	20240514	Observation: The contractor was reminded to display NRMM label on the PME.	NRMM label was displayed.
	20240605	Observation 1: NRMM label for the crane at A Tank should be provided.	NRMM label was displayed.
	20240611	Reminder 1: The Contractor was reminded to provided NRMM label for the crane at A Tank.	NA

	20240626	Reminder 1: NRMM label for the excavator at SD should be provided.	NA
Others		NA	

5.2 Advice on the Solid and Liquid Waste Management Status

5.2.1 The Contractor registered as a chemical waste producer for the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.

5.2.2 The management of waste generated by the construction is presented in **Table 7**.

Table 7 Waste Generated by the Construction and Disposal Ground

Types of Waste	Disposal Ground
Inert C&D Waste (Excluding slurry and bentonite)	Tuen Mun Area 38
Inert C&D Waste (For slurry and bentonite)	Tseung Kwan O Area 137
Non-inert C&D Materials	North East New Territories Landfill (NENT)
Sludge	West New Territories Landfill (WENT)
Marine Sediment	Type 1 – Open Sea Disposal: South Cheung Chau Open Sea Sediment Disposal Area Type 1 – Open Sea Disposal (Dedicate Site) and Type 2 – Confined Marine Disposal: Contaminated Mud Pit Vb of the Confined Marine Disposal Facilities to the East of Sha Chau

5.2.3 The amount of wastes generated by the site activities in the reporting period is shown in **Appendix F**.

5.2.4 If off-site disposal is required, the excavated marine mud from the land-based works shall be disposed of at the designated disposal sites within Hong Kong as allocated by the Marine Fill Committee or other locations as agreed by the Director. The Contractor shall ensure no spilling and overflowing of materials during loading / unloading / transportation is allowed.

5.2.5 The Contractor was reminded that chemical waste should be properly handled temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packing, Labelling and Storage of Chemical Waste.

6 NON-COMPLIANCE, COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

6.1 Non-compliance (Exceedances of AL levels)

6.1.1 No Action and Limit Level exceedance was recorded for air quality monitoring and construction noise monitoring in the reporting period.

6.1.2 No Action and Limit Level exceedance was recorded was recorded for water quality in the reporting period.

6.1.3 No Action / Limit exceedance was recorded for noise levels at stations (NMS1 and NMS2) in close proximity to the active ardeid night roosts in the reporting period.

6.1.4 One exceedance in Action Level was recorded for the ecological monitoring of birds on 12 April 2024 (night-time) and 15 April 2024 (daytime). This includes decline in Abundance of Species of Conservation Importance in the point count method.

6.1.5 No corrective actions were required according to the Event and Action Plans.

6.2 Complaints, Notification of Summons and Successful Prosecutions

6.2.1 No environmental complaints, notification of summons and successful prosecutions was recorded in the reporting period.

6.2.2 Cumulative complaint log, summaries of complaints, notification of summons and successful prosecutions are presented in **Appendix H**.

6.2.3 No corrective actions were required.

7 IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURE

7.1 Implementation Status of Environmental Protection and Pollution Control / Mitigation Measures

The Contractor had implemented environmental protection and pollution control / mitigation measures as stated in the EIA Report, the EP and EM&A Manual. The implementation status of the recommended mitigation measures during the reporting period is summarized in **Appendix G**.

The status of required submissions under the EP as of the reporting period are summarized in **Table 8**.

Table 8 Status of submissions required under the EP

EP Condition (EP-565/2019)	Submission Title	Submission Status
Condition 2.9	Construction Phase Emergency Response Plan	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 2.11	Pre-construction Ardeid Night Roost Survey Report	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
EM&A Manual Sec. 7.3.3 & 7.3.4	Baseline Bird Survey Report	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 2.12	Noise Mitigation Measures Plan	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 2.13	Proposal for Minimization of Overspill Light to Ecological Sensitive Areas	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 2.14	Supplementary Contamination Assessment Plan	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 2.14	Contamination Assessment Report for Main Storeroom & Workshops	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 2.14	Contamination Assessment Report for Mechanical Workshop	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 2.14	Contamination Assessment Report for Waste Storage Area	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 2.14	Contamination Assessment Report for SAS Thickener House-1	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.

EP Condition (EP-565/2019)	Submission Title	Submission Status
Condition 2.14	Contamination Assessment Report for SAS Thickener House-2	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 2.15	Landscape and Visual Mitigation Plan	Submitted to EPD with ET certification and IEC verification, to be finalised and made available for public inspection via the dedicated website.
Condition 3.3	Baseline Monitoring Report	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 3.4	Monthly EM&A Report (from April 2021 to May 2024)	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 3.5	Quarterly EM&A Report (from April 2021 to March 2024)	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 4.2	Environmental Monitoring Data from April 2021 to May 2024	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.

8 CONCLUSION AND RECOMMENDATION

8.1 Conclusions

8.1.1 No Action and Limit Level exceedance was recorded for air quality monitoring and construction noise monitoring in the reporting period.

8.1.2 No Action and Limit Level exceedance was recorded for water quality in the reporting period.

8.1.3 No Action / Limit exceedance was recorded for noise levels at stations (NMS1 and NMS2) in close proximity to the active ardeid night roosts in the monitoring period.

6.1.6 One exceedance in Action Level was recorded for the ecological monitoring of birds on 12 April 2024 (night-time) and 15 April 2024 (daytime). This includes decline in Abundance of Species of Conservation Importance in the point count method.

8.1.4 13 environmental site inspections and 13 landscape and visual site audits were carried out in the reporting period. Recommendations on mitigation measures were given to the Contractor for remediating the deficiencies identified during the site inspections.

8.1.5 No environmental complaints, notification of summons and successful prosecutions were recorded in the reporting period.

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

8.2 Comment and Recommendations

8.2.1 The recommended environmental mitigation measures, as proposed in the EIA report and EM&A Manual shall be effectively implemented to minimize the potential environmental impacts from the Project. The EM&A programme would effectively monitor the environmental impacts generated from the construction activities and ensure the proper implementation of mitigation measures.

8.2.2 According to the environmental site inspections performed in the reporting period, the following recommendations were provided:

Air Quality Impact

- Watering should be provided every two hours for the works area.
- Watering should be increased for the haul road.

Construction Noise Impact

- The silent up at northwest of the site should be enclosed.

Water Quality Impact

- The contractor is reminded to increase watering for the haul road.

Chemical Waste and Construction Waste Management

- The contractor was reminded to clear the construction waste regularly.
- Domestic waste should be stored inside the enclosed rubbish bin.

Land Contamination

- No specific observation was identified in the reporting period.

Ecological Impact

- No specific observation was identified in the reporting period.

Landscape and Visual Impact

- No specific observation was identified in the reporting period.

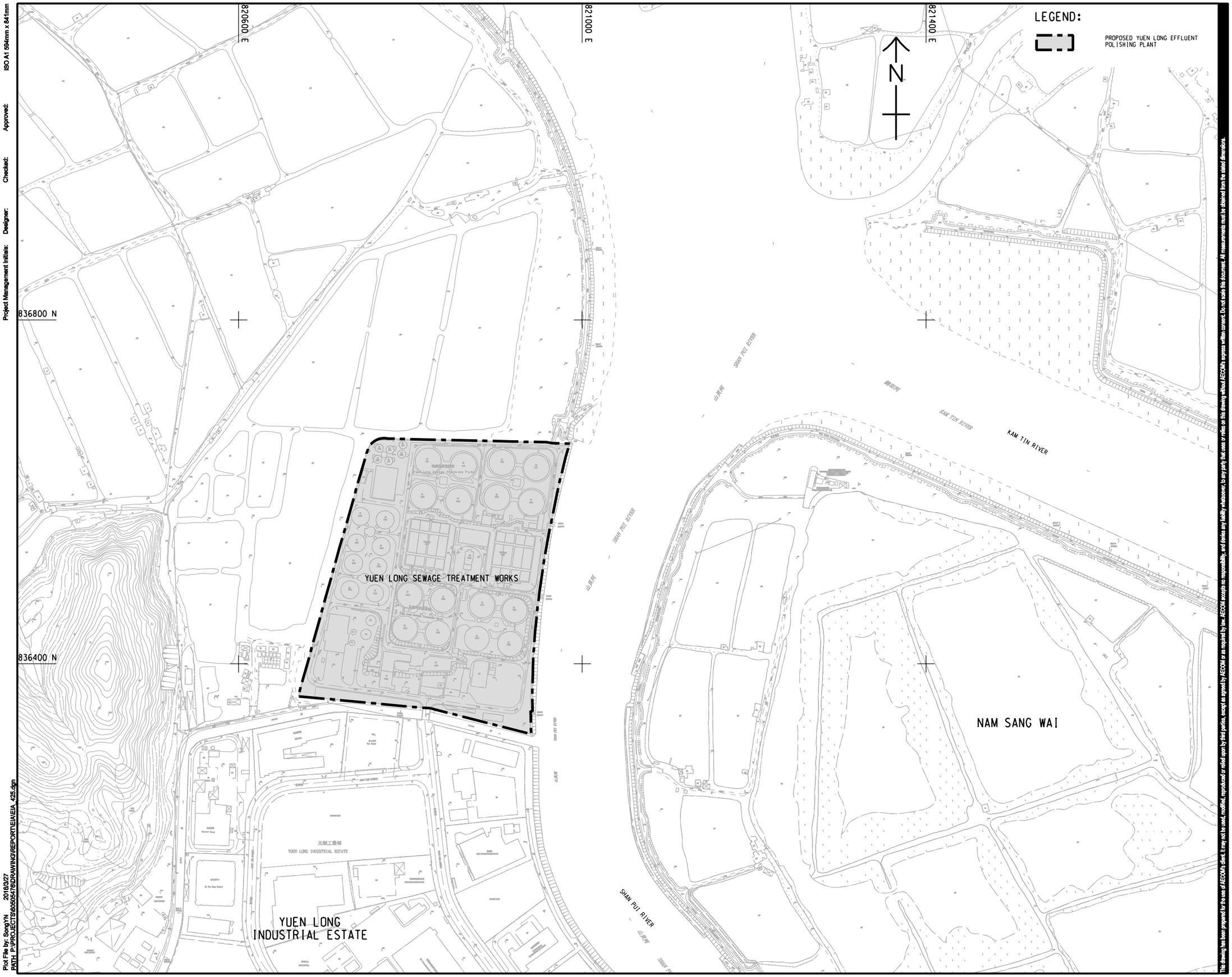
Hazard to Life

- No specific observation was identified in the reporting period.

Permit/ Licenses

- A new NRMM label should be provided for the Generator at STB.
- The colour of NRMM label for the excavator at PST should be green.
- The contractor was reminded to display NRMM label on the PME.
- NRMM label for the crane at A Tank should be provided.
- The Contractor was reminded to provided NRMM label for the crane at A Tank.
- NRMM label for the excavator at SD should be provided.

Figure 1 Location of Proposed Yuen Long Effluent Polishing Plant



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Plot File by: SongYN 2016/3/27
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AECOM

PROJECT 項目

YUEN LONG EFFLUENT POLISHING PLANT - INVESTIGATION, DESIGN AND CONSTRUCTION

CLIENT 業主

渠務署
Drainage Services Department

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd.
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ISSUE/REVISION 修訂

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

STATUS 階段

SCALE 比例
A1 1 : 2000

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖

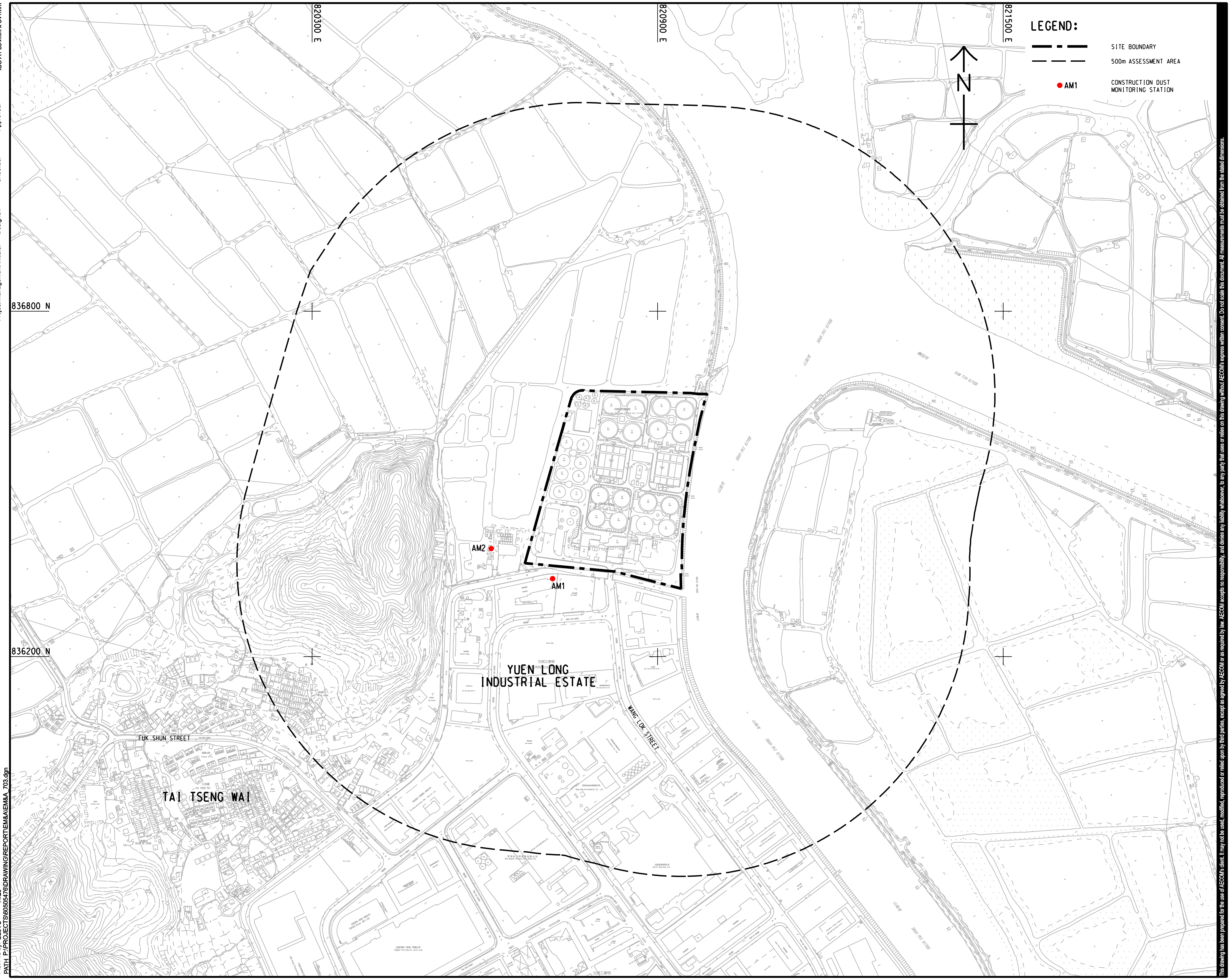
PROJECT NO. 項目編號
60505476

CONTRACT NO. 合約編號
CE 3/2015 (DS)

SHEET TITLE 圖紙名稱
LOCATION OF PROPOSED YUEN LONG EFFLUENT POLISHING PLANT

SHEET NUMBER 圖紙編號

Figure 2 Location of Construction Dust Monitoring Stations



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階段

SCALE 比例: A1 1 : 3000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN
索引圖

PROJECT NO. 項目編號: 60505476

CONTRACT NO. 合約編號: CE 3/2015 (DS)

SHEET TITLE
圖紙名稱

LOCATION OF CONSTRUCTION DUST MONITOING STATIONS

SHEET NUMBER
圖紙編號

ISO A1 594mm x 841mm

Approved:

Checked:

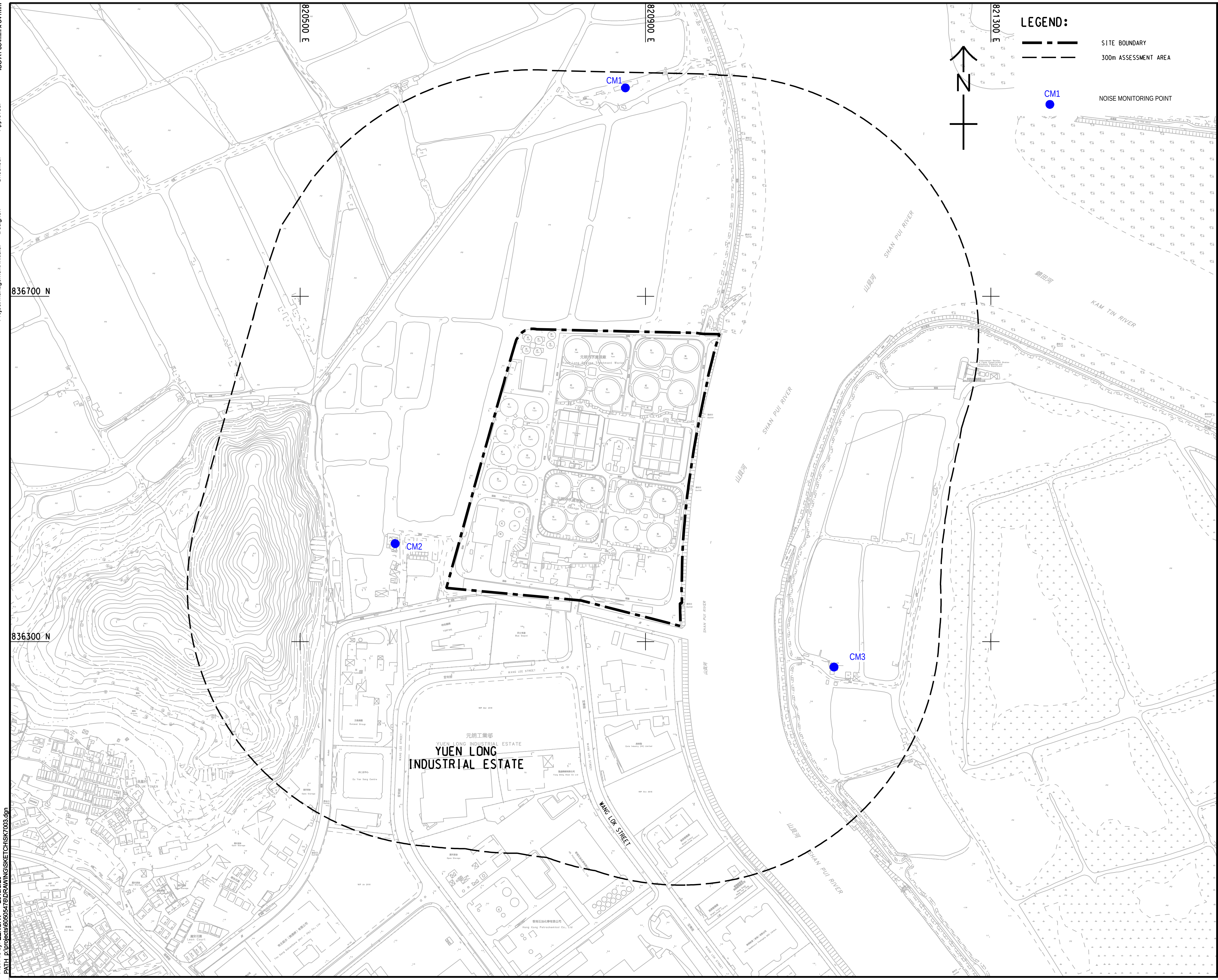
Designer:

Project Management Initials:

Plot File by: GaoYU 11/29

PATH P:\PROJECTS\60505476\DRAWING\REPORT\EM&A\EM&A_703.dgn

Figure 3 Noise Monitoring Locations



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YUEN LONG EFFLUENT POLISHING PLANT - INVESTIGATION, DESIGN AND CONSTRUCTION

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STATUS
階段

SCALE 比例: A1 1 : 2000

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN
索引圖

PROJECT NO. 項目編號: 60505476

CONTRACT NO. 合約編號: CE 3/2015 (DS)

SHEET TITLE
圖紙名稱

LOCATIONS OF NOISE MONITORING POINTS

SHEET NUMBER
圖紙編號

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

Plot File by: ZENGFX 2018/3/26
PATH: p:\projects\60505476\DRAWING\SKETCH\SK7003.dgn

Figure 4 Water Quality Monitoring Locations

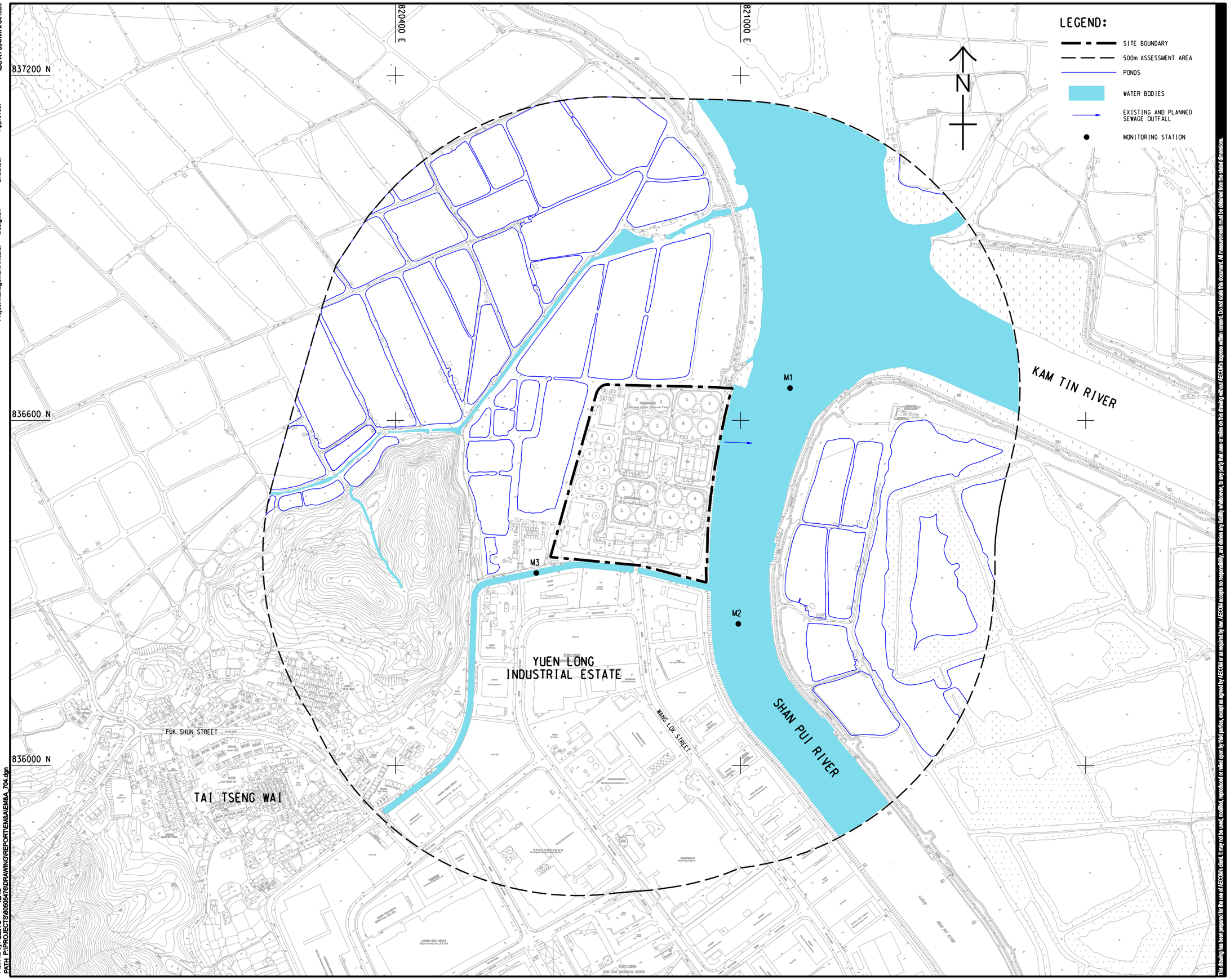
ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:



Plot File by: GaoYU 12/18
PATH: F:\PROJECTS\60505476\DRAWING\REPORT\EIA\EIA\EIA_704.dgn

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YUEN LONG EFFLUENT POLISHING PLANT - INVESTIGATION, DESIGN AND CONSTRUCTION

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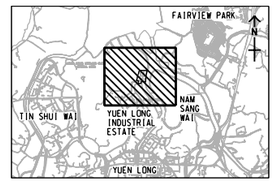
STATUS
狀況

SCALE 比例
A3 1 : 6000

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A3 1 : 180000



PROJECT NO. 項目編號
60505476

CONTRACT NO. 合約編號
CE 3/2015 (DS)

SHEET TITLE
圖紙名稱

LOCATIONS OF WATER QUALITY MONITORING STATIONS FOR CONSTRUCTION PHASE

SHEET NUMBER
圖紙編號

Figure 5 Ecology Monitoring Locations

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

820300 E

820900 E

821500 E

836800 N

836200 N

LEGEND:

- SITE BOUNDARY
- 500m ASSESSMENT AREA
- SURVEY TRANSECTS
- POINT COUNT LOCATIONS FOR AVIFAUNA SURVEY

N

FLW1
FLW2
FLW3
FLW4
FLW5
FLW6
FLW7
SP/NSW1
SP/NSW2
SP/NSW3
NSW1

FUNG LOK WAI
TAI SANG WAI
NAM SANG WAI
YUEN LONG SEWAGE TREATMENT WORKS
YUEN LONG INDUSTRIAL ESTATE
NG UK TSUEN
LEON COURT
TAI TSENG WAI
FUK SHUN STREET
WANG LOK STREET
SHAN PUI RIVER
KAM TIN RIVER

Plot File by: ZENGFX 2018/8/30
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STATUS
狀況

SCALE
比例
A1 1 : 3000

DIMENSION UNIT
尺寸單位
METRES

KEY PLAN
索引圖

PROJECT NO.
項目編號
60505476

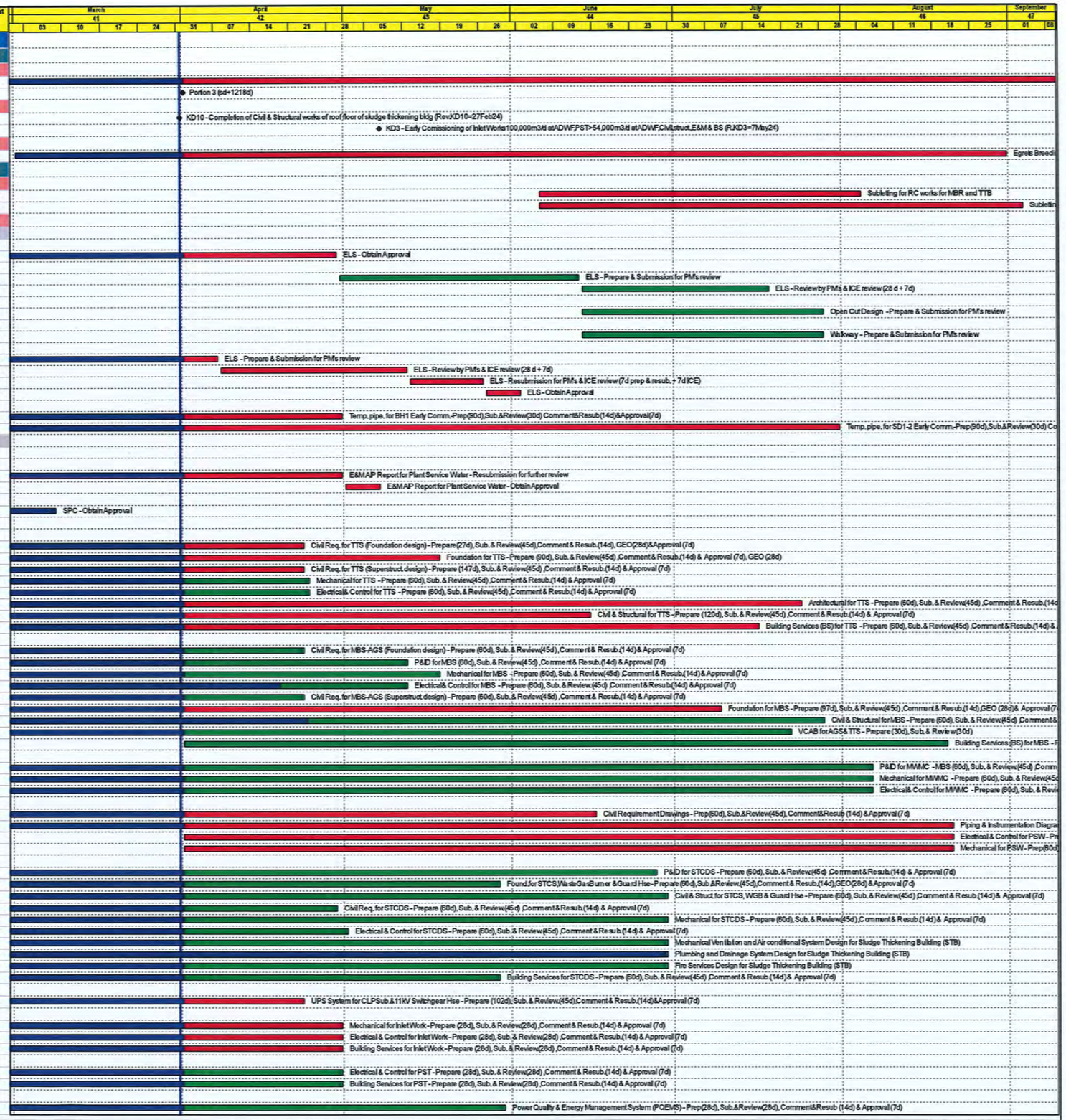
CONTRACT NO.
合約編號
CE 3/2015 (DS)

SHEET TITLE
圖紙名稱
ECOLOGICAL MONITORING LOCATIONS

SHEET NUMBER
圖紙編號

Appendix A
Construction Programme

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float
YL Effluent Polishing Plant - Main Works Stage 1 - Detailed Works Programme DPv36_240416					
Contract Data Part 1					
Access Dates					
ADWA2	WorkArea WA2 (sd) (newsite possession) validity for 12 months and subject to renewal	757	05-Mar-21 A	22-Feb-25*	0
ADP3	Portion 3 (sd+1218d)	0	01-Apr-24*		-21
Contract Key Dates					
CKD10	KD10 - Completion of Civil & Structural works of roof floor of sludge thickening bldg (RevKD10=27Feb24)	0		31-Mar-24*	-33
CKD3	KD3 - Early Comissioning of Inlet Works100,000m3/d atADWF,PST>54,000m3/d atADWF,Civil,struct,E&M & BS (R,KD	0		07-May-24*	0
Environmental Constraints					
EBS-2175	Egrets Breeding Season 2024	184	01-Mar-24 A	31-Aug-24	0
Preliminary and Preparation Works					
Subletting					
SUB-300	Subletting for RC works for MBR and TTB	60	06-Jun-24	04-Aug-24	-196
SUB-340	Subletting for Drainage, Sewage & waterworks	90	06-Jun-24	03-Sep-24	-196
Design Submission					
Temporary Works Design					
Sludge Digester 1-3 & Utilities Corridor					
TWD-370	ELS - Obtain Approval	7	21-Dec-22 A	29-Apr-24	-252
Sludge Dewatering and Underpass					
TWD-260	ELS - Prepare & Submission for PM's review	45	30-Apr-24	13-Jun-24	6
TWD-270	ELS - Review by PMs & ICE review (28 d + 7d)	35	14-Jun-24	18-Jul-24	6
Administration Building					
TWD-300	Open Cut Design - Prepare & Submission for PM's review	45	14-Jun-24	28-Jul-24	99
Walkway Across Tai Tseng Wai Nullah					
TWD-600	Walkway - Prepare & Submission for PM's review	45	14-Jun-24	28-Jul-24	584
Modification of Existing Inspection Chamber & Inlet Effluent Pipes from NSWSPS					
TWD-700	ELS - Prepare & Submission for PM's review	45	26-Oct-22 A	07-Apr-24	-243
TWD-710	ELS - Review by PMs & ICE review (28 d + 7d)	35	08-Apr-24	12-May-24	-243
TWD-720	ELS - Resubmission for PM's & ICE review (7d prep & resub. + 7d ICE)	14	13-May-24	26-May-24	-243
TWD-730	ELS - Obtain Approval	7	27-May-24	02-Jun-24	-243
Temporary diversion scheme for Early commissioning of SD, BH1, H2S and STB					
TWD-970	Temp.pipe. for BH1 Early Comm.-Prep(90d),Sub.&Review(30d) Comment&Resub(14d)&Approval(7d)	141	30-Jun-23 A	30-Apr-24	-131
TWD-1010	Temp.pipe. for SD1-2 Early Comm.-Prep(90d),Sub.&Review(30d) Comment&Resub(14d)&Approval(7d)	141	29-Dec-23 A	31-Jul-24	-131
Contractor 's Permanent Works Design (include ATAL)					
AIP					
Package 3A - Plant Service Water					
AIP-520	E&MAP Report for Plant Service Water - Resubmission for further review	45	20-Dec-21 A	30-Apr-24	-53
AIP-530	E&MAP Report for Plant Service Water - Obtain Approval	7	01-May-24	07-May-24	-53
Package 23A - Security, Public Address and Communication System					
AIP-980	SPC - Obtain Approval	13	29-Feb-24 A	08-Mar-24 A	
DDA					
Package 2 - Tertiary Treatment System					
DDA-170	Civil Req. for TTS (Foundation design) - Prepare(27d), Sub. & Review(45d),Comment & Resub.(14d), GEO(28d)&App	121	13-Jun-21 A	23-Apr-24	-200
DDA-150	Foundation for TTS - Prepare (90d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d), GEO (28d)	213	08-Oct-21 A	18-May-24	-184
DDA-180	Civil Req. for TTS (Superstruct.design) - Prepare (147d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7	213	11-Oct-21 A	23-Apr-24	-20
DDA-200	Mechanical for TTS - Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	213	31-Dec-21 A	24-Apr-24	64
DDA-210	Electical& Control for TTS - Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	213	31-Dec-21 A	24-Apr-24	64
DDA-140	Architectural for TTS - Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	126	17-Nov-22 A	24-Jul-24	-130
DDA-160	Civil & Structural for TTS - Prepare (120d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	177	17-Nov-22 A	15-Jun-24	-253
DDA-220	Building Services (BS) for TTS - Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	199	30-Oct-23 A	16-Jul-24	-20
Package 3 - Mainstream Bio-Reactor System					
DDA-260	Civil Req. for MBS-AGS (Foundation design) - Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approv	126	09-Jun-21 A	23-Apr-24	46
DDA-280	P&ID for MBS (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	126	08-Oct-21 A	12-May-24	144
DDA-290	Mechanical for MBS - Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	126	08-Oct-21 A	18-May-24	144
DDA-300	Electical& Control for MBS - Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	405	08-Oct-21 A	12-May-24	150
DDA-270	Civil Req. for MBS-AGS (Superstruct.design) - Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approv	126	01-Mar-22 A	23-Apr-24	1268
DDA-240	Foundation for MBS - Prepare (97d), Sub. & Review(45d) ,Comment & Resub.(14d) ,GEO (28d)& Approval (7d)	230	18-Mar-22 A	09-Jul-24	-196
DDA-250	Civil & Structural for MBS - Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	170	20-Jan-23 A	28-Jul-24	1268
DDA-1530	VCAB for AGS & TTS - Prepare (30d), Sub. & Review(30d)	204	16-Jun-23 A	22-Jul-24	46
DDA-310	Building Services (BS) for MBS - Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	142	01-Apr-24	20-Aug-24	50
Package 5A - Master Water Meter Room					
DDA-390	P&ID for MWMC - MBS (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	64	26-Jun-23 A	06-Aug-24	44
DDA-400	Mechanical for MWMC - Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	220	30-Oct-23 A	06-Aug-24	761
DDA-410	Electical& Control for MWMC - Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	220	30-Oct-23 A	06-Aug-24	761
Package 5B - Plant Service Water (PSW)					
DDA-1050	Civil Requirement Drawings - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval (7d)	126	12-Jun-21 A	16-Jun-24	-33
DDA-1040	Piping & Instrumentation Diagram (P&ID) - Prep(30d), Sub.&Review(28d), Comment&Resub (14d) & Approval (7d)	220	26-Jun-23 A	21-Aug-24	-56
DDA-1060	Electrical & Control for PSW - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval (7d)	143	01-Apr-24	21-Aug-24	-56
DDA-1070	Mechanical for PSW - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval (7d)	143	01-Apr-24	21-Aug-24	-56
Package 6 - Sludge Thickening Chemical and Dosing System					
DDA-1120	P&ID for STCDS - Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	335	14-Aug-21 A	27-Jun-24	189
DDA-430	Found.for STCS,WasteGasBurner &Guard Hse - Prepare (60d),Sub.&Review(45d),Comment & Resub.(14d),GEO(28	96	09-Nov-21 A	29-May-24	596
DDA-440	Civil & Struct.for STCS, WGB & Guard Hse - Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approva	250	09-Nov-21 A	29-Jun-24	565
DDA-440B	Civil Req. for STCDS - Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	300	15-Nov-21 A	29-Apr-24	248
DDA-1130	Mechanical for STCDS - Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	340	16-Nov-21 A	29-Jun-24	597
DDA-1140	Electical & Control for STCDS - Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	315	30-Nov-21 A	01-May-24	665
DDA-1520	Mechanical Ventilation and Air conditional System Design for Sludge Thickening Building (STB)	320	16-Jun-22 A	29-Jun-24	227
DDA-1510	Plumbing and Drainage System Design for Sludge Thickening Building (STB)	320	07-Jul-22 A	29-Jun-24	227
DDA-1500	Fire Services Design for Sludge Thickening Building (STB)	320	08-Jul-22 A	29-Jun-24	227
DDA-1150	Building Services for STCDS - Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	126	24-Oct-22 A	29-May-24	596
Package 7 - CLP Substation and 11kV Switchgear House					
DDA-480	UPS System for CLPSub.&11kV Switchgear Hse - Prepare (102d), Sub. & Review(45d),Comment & Resub.(14d)&Ap	168	03-Jun-21 A	23-Apr-24	-125
Package 9 - Inlet Work (IW)					
DDA-1190	Mechanical for Inlet Work - Prepare (28d), Sub. & Review(28d) ,Comment & Resub.(14d) & Approval (7d)	120	09-Aug-21 A	30-Apr-24	-195
DDA-1200	Electical & Control for Inlet Work - Prepare (28d), Sub. & Review(28d) ,Comment & Resub.(14d) & Approval (7d)	120	30-Oct-21 A	30-Apr-24	-215
DDA-1210	Building Services for Inlet Work - Prepare (28d), Sub. & Review(28d) ,Comment & Resub.(14d) & Approval (7d)	76	30-Mar-22 A	30-Apr-24	-215
Package 10 - Primary Sedimentation Tank (PST)					
DDA-1250	Electical & Control for PST - Prepare (28d), Sub. & Review(28d) ,Comment & Resub.(14d) & Approval (7d)	48	31-Aug-21 A	30-Apr-24	424
DDA-1260	Building Services for PST - Prepare (28d), Sub. & Review(28d) ,Comment & Resub.(14d) & Approval (7d)	90	01-Oct-21 A	30-Apr-24	424
Package 11 - Control and Monitoring System					
DDA-580	Power Quality & Energy Management System (PQEMS) - Prep(28d), Sub.&Review(28d), Comment&Resub (14d) & A	130	02-Oct-21 A	30-May-24	31



保華-中國中鐵聯營體
PAUL Y.-CREC JOINT VENTURE

Remaining Level of Ef...
Actual Work
Remaining Work
Critical Remaining Work
Milestone

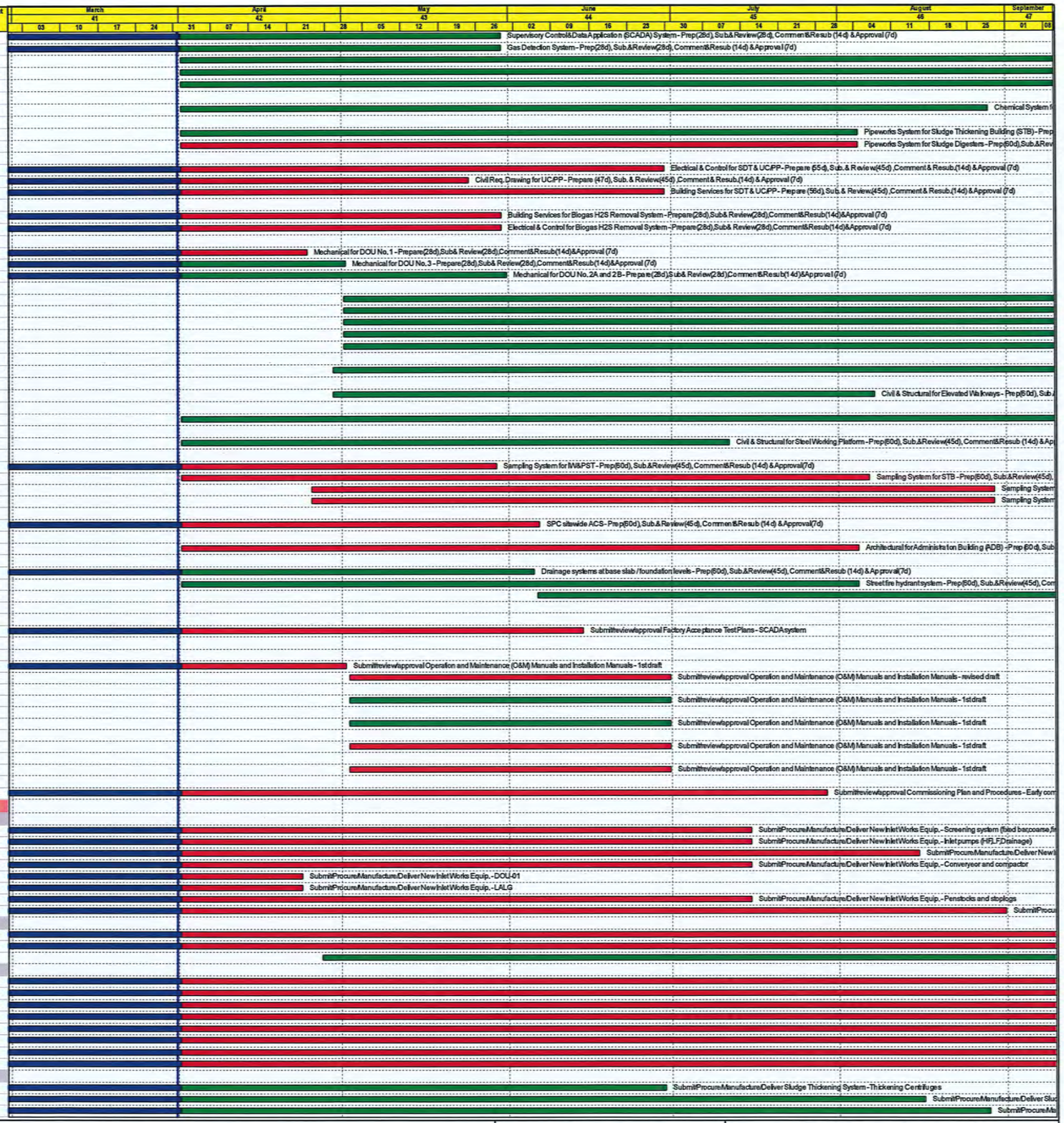
Contract DC/2019/10 - YLEPP - Main Works for Stage 1
Monthly Progress Report No. 41- 3MRP (Mar 24)

Project ID : DWPr36_240416
Layout : DC201910 MPR41-3MRP

Monthly Progress Report - 3MRP

Date	Revision	Checked	Approved
31-Mar-24	Rev. 0		

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float
DDA-550	Supervisory Control&Data Application (SCADA) System - Prep(28d),Sub.&Review(28d),Commen&Resub (14d) &A	238	24-Apr-23 A	30-May-24	31
DDA-1270	Gas Detection System - Prep(28d),Sub.&Review(28d), Comment&Resub (14d) &Approval (7d)	91	08-May-23 A	30-May-24	31
DDA-560	Computerised Mainatenance Mangement System (CMMS) - Prep(28d),Sub.&Review(28d),Comment&Resub (14d)	275	01-Apr-24	31-Dec-24	31
DDA-570	Information and Document mangement System (DMS) - Prep(28d),Sub.&Review(28d),Comment&Resub (14d) &Ap	275	01-Apr-24	31-Dec-24	31
DDA-1280	Data Collection, Management, Analysis & Model System - Prep(28d),Sub.&Review(28d),Commen&Resub (14d) &A	275	01-Apr-24	31-Dec-24	31
Package 12 - Chemical System for STB					
DDA-650	Chemical System for Sludge Thickening Building (STB) - Prep(60d),Sub.&Review(45d),Comment&Resub (14d) &Ap	150	01-Apr-24	28-Aug-24	127
Package 13 - Pipework System					
DDA-660	Pipeworks System for Sludge Thickening Building (STB) - Prep(60d),Sub.&Review(45d),Comment&Resub (14d) &A	126	01-Apr-24	04-Aug-24	185
DDA-1030	Pipeworks System for Sludge Digesters - Prep(60d),Sub.&Review(45d),Comment&Resub (14d) &Approval (7d)	126	01-Apr-24	04-Aug-24	-112
Package 14 - Sludge Anaerobic Digestion System (SDT)					
DDA-1320	Electrical & Control for SDT & UC/PP - Prepare (55d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	460	02-Jul-21 A	29-Jun-24	-76
DDA-1340	Civil Req. Drawing for UC/PP - Prepare (47d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	580	10-Jul-21 A	24-May-24	-76
DDA-1330	Building Services for SDT & UC/PP - Prepare (56d),Sub. & Review(45d) ,Comment & Resub.(14d) &Approval (7d)	181	02-May-23 A	29-Jun-24	-76
Package 15 - Biogas H2S Removal, Storage and Delivery System					
DDA-1390	Building Services for Biogas H2S Removal System - Prepare(28d),Sub& Review(28d),Comment&Resub(14d)&Appe	137	31-May-23 A	30-May-24	-124
DDA-1380	Electrical & Control for Biogas H2S Removal System - Prepare(28d),Sub& Review(28d),Comment&Resub(14d)&App	105	25-Sep-23 A	30-May-24	-124
Package 16 - Deodorization Unit System					
DDA-1420	Mechanical for DOU No. 1 - Prepare(28d),Sub& Review(28d),Comment&Resub(14d)&Approval (7d)	78	04-Mar-22 A	24-Apr-24	-131
DDA-1440	Mechanical for DOU No. 3 - Prepare(28d),Sub& Review(28d),Comment&Resub(14d)&Approval (7d)	300	17-Jul-22 A	01-May-24	275
DDA-1430	Mechanical for DOU No. 2A and 2B - Prepare(28d),Sub& Review(28d),Comment&Resub(14d)&Approval (7d)	122	13-Oct-23 A	31-May-24	245
Package 17 - Sludge Dewatering Building (SDB)					
DDA-910	Roof Rainwater Collection System for (SDB) - Prep(60d), Sub.&Review(45d), Comment&Resub (21d) & Approval (7d)	242	01-May-24	28-Dec-24	73
DDA-920	Fire Services System for SDB - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval (7d)	242	01-May-24	28-Dec-24	73
DDA-930	Mechanical for Sludge Dewatering Building (SDB) - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approv	242	01-May-24	28-Dec-24	519
DDA-940	Plumbing System for Sludge Dewatering Bldg (SDB) - Prep(60d), Sub.&Review(45d), Comment&Resub(14d) & Appr	242	01-May-24	28-Dec-24	519
DDA-950	BS for Sludge Dewatering Building (SDB) - Prep(118d), Sub.&Review(45d), Comment&Resub (14d) & Approval (7d)	242	01-May-24	28-Dec-24	73
Package 18 - Miscellaneous					
DDA-540	Civil & Structural for Misc, Manholes, Draw Pits, Fence/Wall - Prep (60d), Sub.&Review(45d), Comment&Resub(14d) &Ap	255	29-Apr-24	08-Jan-25	44
Package 19 - Elevated Walkways					
DDA-710	Civil & Structural for Elevated Walkways - Prep(60d), Sub.&Review(45d),Comment&Resub (14d) & Approval(7d), GEC	101	29-Apr-24	07-Aug-24	668
Package 20 - Trellis					
DDA-720	Civil & Structural for Trellis - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval(7d)	207	01-Apr-24	24-Oct-24	502
Package 21 - Steel Working Platform					
DDA-730	Civil & Structural for Steel Working Platform - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) &Approval(7d)	102	01-Apr-24	11-Jul-24	607
Package 22 - Sampling System of YLEPP					
DDA-740	Sampling System for IM&PST - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) &Approval(7d)	62	07-Jul-23 A	29-May-24	-201
DDA-1630	Sampling System for STB - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) &Approval(7d)	128	01-Apr-24	06-Aug-24	-137
DDA-1610	Sampling System for AGS&TTB - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) &Approval(7d)	127	25-Apr-24	29-Aug-24	-137
DDA-1620	Sampling System for SDT - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) &Approval(7d)	127	25-Apr-24	29-Aug-24	-137
Package 23 - Security, Public Address and Communication System					
DDA-750	SPC sitewide ACS - Prep(60d),Sub.&Review(45d),Commen&Resub (14d) &Approval(7d)	98	21-Jun-23 A	06-Jun-24	-209
Package 24 - Administration Building (ADB)					
DDA-0960	Architectural for Administration Building (ADB) - Prep (60d), Sub.&Review(45d), Comment&Resub (14d) &Approval (7	126	01-Apr-24	04-Aug-24	-108
Design out of ATAL's Scope					
DDA-1540	Drainage systems at base slab / foundation levels - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) &Approva	126	24-Aug-22 A	05-Jun-24	261
DDA-1560	Street fire hydrant system - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) &Approval(7d)	126	01-Apr-24	04-Aug-24	164
DDA-1550	Rainwater drainage systems - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) &Approval(7d)	126	06-Jun-24	09-Oct-24	539
Technical Submission					
Factory Acceptance Test Plans					
SUBM-1130	Submit/review/approval Factory Acceptance Test Plans - SCADA system	120	01-Dec-23 A	14-Jun-24	-53
Operation and Maintenance (O&M) Manuals and Installation Manuals (PS 34.20(11)(12)(13))					
Inlet Works and Primary Sedimentation Tank					
SUBM-1070	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft	60	05-Jan-23 A	01-May-24	-264
SUBM-1200	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - revised draft	60	02-May-24	30-Jun-24	-235
AGS and TTS system					
SUBM-1220	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft	60	02-May-24	30-Jun-24	12
Sludge Thickening System					
SUBM-1250	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft	60	02-May-24	30-Jun-24	454
Sludge Digestion System					
SUBM-1310	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft	60	02-May-24	30-Jun-24	-264
Biogas H2S Removal System					
SUBM-1280	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft	60	02-May-24	30-Jun-24	-264
Commissioning Plan and Procedures (PS34.20(10))					
SUBM-1000	Submit/review/approval Commissioning Plan and Procedures - Early commissioning of IM&PST (KD3)	120	21-Feb-24 A	29-Jul-24	-173
Material Submission, Procurement, Manufacturing and Delivery					
Inlet Works					
PRE-210	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - Screening system (fixed barcoarse,fine)	300	16-Mar-21 A	15-Jul-24	-270
PRE-700	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - Inlet pumps (HFL,FD,drainage)	330	05-Jan-22 A	15-Jul-24	-245
PRE-290	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - GritTrap and classifier	270	18-Feb-22 A	15-Aug-24	-252
PRE-280	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - Converyeor and compactor	270	12-Apr-22 A	15-Jul-24	-210
PRE-330	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - DOU-01	330	28-May-22 A	23-Apr-24	-124
PRE-300	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - LALG	270	28-Jul-22 A	23-Apr-24	-180
PRE-310	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - Penstocks and stoplogs	270	13-Sep-22 A	15-Jul-24	-271
PRE-320	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - MVAC-Ventilation Fan	211	10-Jan-23 A	31-Aug-24	-282
Biogas Holder					
PRE-410	Submit/Procure/Manufacture/Deliver Waster Gas Burner	300	19-Aug-21 A	03-Dec-26	-124
PRE-420	Submit/Procure/Manufacture/Deliver H2S Removal System	510	25-Feb-22 A	31-Oct-25	-65
PRE-430	Submit/Procure/Manufacture/Deliver Biogas booster and transfer pumps	522	27-Apr-24*	30-Sep-25	63
Sludge Digestor Tank					
PRE-750	Submit/Procure/Manufacture/Deliver Sludge Digester Tank - Flame Arresters	100	31-Oct-22 A	30-Nov-24	-230
PRE-780	Submit/Procure/Manufacture/Deliver Sludge Digester Tank - Mixing System and Heat Exchanger for Sludge Anaerobic	420	22-Dec-22 A	30-Nov-24	-230
PRE-720	Submit/Procure/Manufacture/Deliver Sludge Digester Tank - Inspection Windows for Sludge Anaerobic System	365	18-Jan-23 A	30-Nov-24	-230
PRE-730	Submit/Procure/Manufacture/Deliver Sludge Digester Tank - Gas Take Off Dome for Sludge Anaerobic Digestion Syste	365	18-Jan-23 A	30-Nov-24	-230
PRE-710	Submit/Procure/Manufacture/Deliver Sludge Digester Tank - Pressure and Vacuum Relief Valves	300	01-Mar-23 A	30-Nov-24	-230
PRE-740	Submit/Procure/Manufacture/Deliver Sludge Digester Tank - Telescopic Valve for Sludge Anaerobic Digestion System	179	10-Jul-23 A	30-Nov-24	-230
PRE-760	Submit/Procure/Manufacture/Deliver Sludge Digester Tank - Ferric Chloride Dosing Pump	148	29-Aug-23 A	30-Nov-24	-230
PRE-770	Submit/Procure/Manufacture/Deliver Sludge Digester Tank - Ferric Chloride Trasnfer Pump	148	29-Aug-23 A	30-Nov-24	-230
Sludge Thickening Building					
PRE-250	Submit/Procure/Manufacture/Deliver Sludge Thickening System - Thickening Centrifuges	360	12-Nov-21 A	29-Jun-24	221
PRE-500	Submit/Procure/Manufacture/Deliver Sludge Thickening System - Pump and jet mixer	300	07-Jan-22 A	16-Aug-24	10
PRE-510	Submit/Procure/Manufacture/Deliver Sludge Thickening System - LALG	256	28-Mar-23 A	28-Aug-24	102



保華-中國中鐵聯營體
PAUL Y.-CREC JOINT VENTURE

Remaining Level of Ef...
Actual Work
Remaining Work
Critical Remaining Work
Milestone

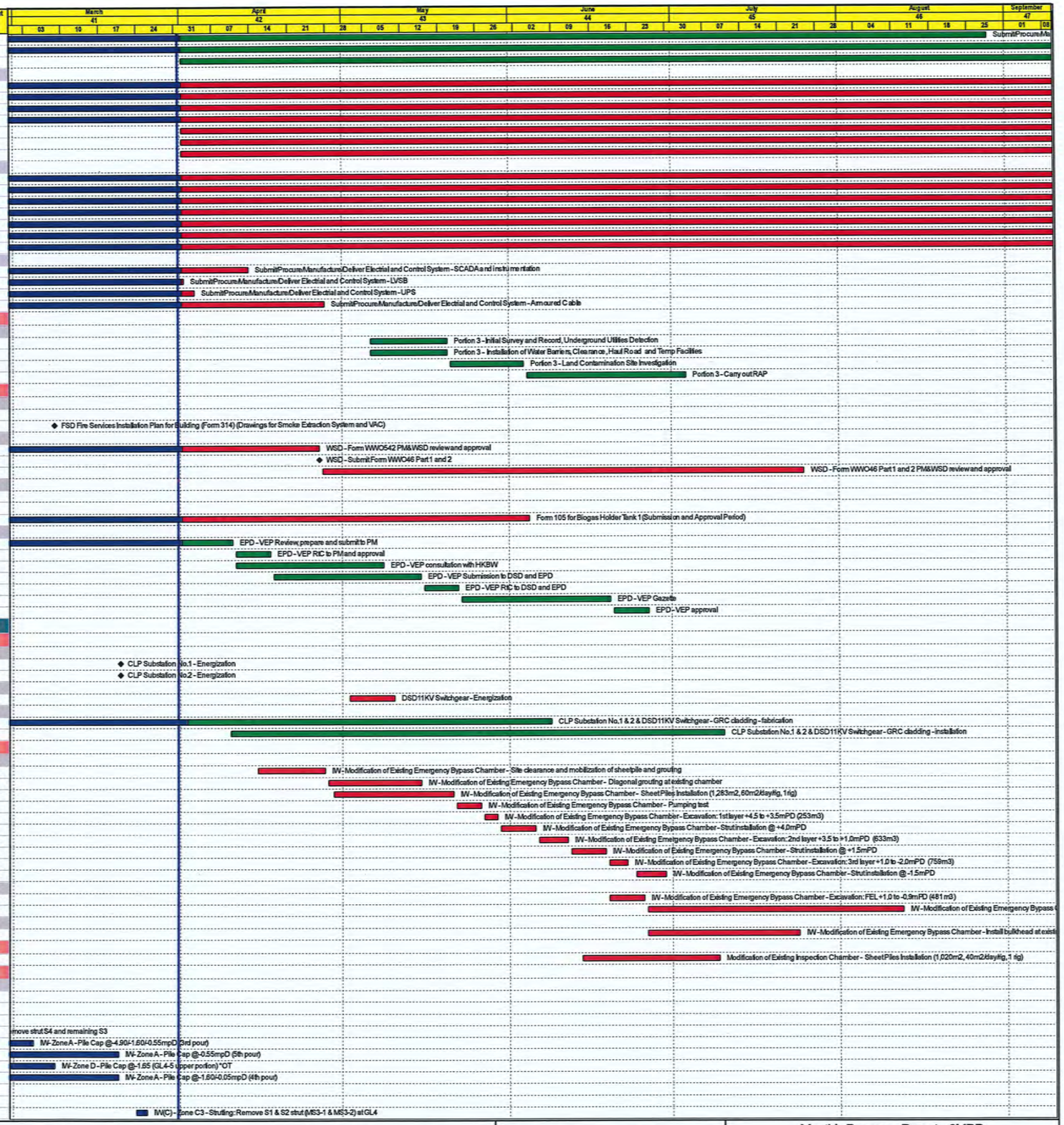
Contract DC/2019/10 - YLEPP - Main Works for Stage 1
Monthly Progress Report No. 41- 3MRP (Mar 24)

Project ID : DWPr36_240416
Layout : DC201910 MPR41-3MRP

Monthly Progress Report - 3MRP

Date	Revision	Checked	Approved
31-Mar-24	Rev. 0		

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float
PRE-480	Submit/Procure/Manufacture/Deliver Sludge Thickening System - Polymer preparation system	388	12-Apr-23 A	28-Aug-24	127
PRE-490	Submit/Procure/Manufacture/Deliver Sludge Thickening System - DOU-03	264	07-Jul-23 A	26-Oct-24	102
PRE-520	Submit/Procure/Manufacture/Deliver Sludge Thickening System - MVAC	212	01-Apr-24	29-Oct-24	99
Mainstream Bio-Reactor					
PRE-230	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - AGS system	480	09-Sep-22 A	03-May-25	-207
PRE-530	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - Penstocks and stoplogs	345	31-Oct-22 A	25-Jul-25	-207
PRE-550	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - Sludge pre-thickening system	510	31-Oct-22 A	09-Mar-25	-129
PRE-540	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - Chemical storage and dosing system	270	18-Nov-22 A	09-Mar-25	-152
PRE-560	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - LALG	398	01-Apr-24*	03-May-25	-207
PRE-570	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - Instrumentation	481	01-Apr-24	25-Jul-25	-207
PRE-580	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - MVAC	241	01-Apr-24	27-Nov-24	-50
Tertiary Treatment System					
PRE-610	Submit/Procure/Manufacture/Deliver TTS Equip. - Pumping system	495	19-Jul-22 A	09-Mar-25	-119
PRE-600	Submit/Procure/Manufacture/Deliver TTS Equip. - UV disinfection system	510	08-Sep-22 A	09-Mar-25	-119
PRE-240	Submit/Procure/Manufacture/Deliver TTS Equip. - Disc Filter	600	27-Sep-22 A	09-Mar-25	-119
PRE-590	Submit/Procure/Manufacture/Deliver TTS Equip. - Chemical cleaning system	480	18-Nov-22 A	09-Mar-25	-119
PRE-630	Submit/Procure/Manufacture/Deliver TTS Equip. - Penstocks and stoplogs	435	30-Nov-22 A	09-Mar-25	-119
PRE-620	Submit/Procure/Manufacture/Deliver TTS Equip. - LALG	151	27-Mar-23 A	09-Mar-25	-119
PRE-690	Submit/Procure/Manufacture/Deliver TTS Equip. - DOU-02	506	07-Sep-23 A	20-May-25	-191
Electrical and Control System					
PRE-680	Submit/Procure/Manufacture/Deliver Electrial and Control System - SCADA and instrumentation	420	30-Apr-22 A	13-Apr-24	-53
PRE-650	Submit/Procure/Manufacture/Deliver Electrial and Control System - LVSB	300	21-Dec-22 A	01-Apr-24	-189
PRE-660	Submit/Procure/Manufacture/Deliver Electrial and Control System - UPS	300	21-Dec-22 A	03-Apr-24	-161
PRE-670	Submit/Procure/Manufacture/Deliver Electrial and Control System - Armoured Cable	203	21-Dec-22 A	27-Apr-24	-113
Site Establishment Works					
Portion 3 - PST, SDB, Admin. Bldg					
P3-100	Portion 3 - Initial Survey and Record, Underground Utilities Detection	12	06-May-24	20-May-24	1
P3-110	Portion 3 - Installation of Water Barriers, Clearance, Haul Road and Temp Facilities	12	06-May-24	20-May-24	1
P3-120	Portion 3 - Land Contamination Site Investigation	12	21-May-24	03-Jun-24	23
P3-140	Portion 3 - Carry out RAP	24	04-Jun-24	03-Jul-24	23
Statutory Submission & Approval					
FSI, FSD and OP Requirements					
FSI Submission & Approval					
FSD-1050	FSD Fire Services Installation Plan for Building (Form 314) (Drawings for Smoke Extraction System and VAC)	0		08-Mar-24 A	
WSD Submission & Approval					
WSD-1010	WSD - Form WWO542 PM&WSD review and approval	90	10-Mar-22 A	26-Apr-24	-215
WSD-1020	WSD - Submit Form WWO46 Part 1 and 2	0		26-Apr-24	-215
WSD-1030	WSD - Form WWO46 Part 1 and 2 PM&WSD review and approval	90	27-Apr-24	25-Jul-24	-215
EMSD Submission & Approval					
Biogas System (ATAL)					
Phase 1					
ATAL-FS-0020	Form 105 for Biogas Holder Tank 1 (Submission and Approval Period)	184	08-Nov-22 A	04-Jun-24	-47
EPD Submission & Approval for VEP					
EPD-1000	EPD - VEP Review, prepare and submit to PM	60	24-May-23 A	10-Apr-24	55
EPD-1010	EPD - VEP RtC to PM and approval	7	11-Apr-24	17-Apr-24	55
EPD-1050	EPD - VEP consultation with HKBW	28	11-Apr-24	08-May-24	69
EPD-1020	EPD - VEP Submission to DSD and EPD	28	18-Apr-24	15-May-24	55
EPD-1030	EPD - VEP RtC to DSD and EPD	7	16-May-24	22-May-24	55
EPD-1060	EPD - VEP Gazette	28	23-May-24	19-Jun-24	55
EPD-1070	EPD - VEP approval	7	20-Jun-24	26-Jun-24	55
Zone 1 Construction					
CLP Substations No. 1 & 2					
CLP Substation No. 1 & 2 Handover Inspection and Installation					
CLP-1090	CLP Substation No.1 - Energization	0		21-Mar-24 A	
CLP-1100	CLP Substation No.2 - Energization	0		21-Mar-24 A	
DSD 11 kV Switchgear					
CLP-1220	DSD 11KV Switchgear - Energization	8	02-May-24	10-May-24	-123
CLP Substation No. 1 & 2 & DSD 11kV Switchgear - GRC Cladding					
CLP-1590	CLP Substation No.1 & 2 & DSD 11KV Switchgear - GRC cladding - fabrication	60	21-Feb-24 A	08-Jun-24	513
CLP-1600	CLP Substation No.1 & 2 & DSD 11KV Switchgear - GRC cladding - installation	75	10-Apr-24	10-Jul-24	513
Modification of Existing Emergency Bypass Chamber					
Emergency Bypass Chamber - Foundation and ELS					
IW-3200	IW - Modification of Existing Emergency Bypass Chamber - Site clearance and mobilization of sheetpile and grouting	12	15-Apr-24*	27-Apr-24	-186
IW-3470	IW - Modification of Existing Emergency Bypass Chamber - Diagonal grouting at existing chamber	18	28-Apr-24	15-May-24	-229
IW-1260	IW - Modification of Existing Emergency Bypass Chamber - Sheet Piles Installation (1,283m2, 60m2/day/rig, 1rig)	18	29-Apr-24	21-May-24	-186
IW-3190	IW - Modification of Existing Emergency Bypass Chamber - Pumping test	5	22-May-24	28-May-24	-235
IW-1270	IW - Modification of Existing Emergency Bypass Chamber - Excavation: 1st layer +4.5 to +3.5mPD (253m3)	3	27-May-24	29-May-24	-188
IW-3070	IW - Modification of Existing Emergency Bypass Chamber - Strut installation @ +4.0mPD	6	30-May-24	05-Jun-24	-188
IW-3080	IW - Modification of Existing Emergency Bypass Chamber - Excavation: 2nd layer +3.5 to +1.0mPD (633m3)	4	06-Jun-24	11-Jun-24	-188
IW-3090	IW - Modification of Existing Emergency Bypass Chamber - Strut installation @ +1.5mPD	6	12-Jun-24	18-Jun-24	-188
IW-3340	IW - Modification of Existing Emergency Bypass Chamber - Excavation: 3rd layer +1.0 to -2.0mPD (759m3)	4	19-Jun-24	22-Jun-24	-188
IW-3350	IW - Modification of Existing Emergency Bypass Chamber - Strut installation @ -1.5mPD	6	24-Jun-24	29-Jun-24	-188
Emergency Bypass Chamber - Pipe laying					
IW-3100	IW - Modification of Existing Emergency Bypass Chamber - Excavation: FEL +1.0 to -0.9mPD (481 m3)	6	19-Jun-24	25-Jun-24	-156
IW-1280	IW - Modification of Existing Emergency Bypass Chamber - 1200mm Pipe Laying, connect to IW & Backfilling	40	26-Jun-24	12-Aug-24	-156
Emergency Bypass Chamber - Structural Modification					
IW-3140	IW - Modification of Existing Emergency Bypass Chamber - Install bulkhead at existing chamber	24	26-Jun-24	24-Jul-24	-140
Modification of Existing Inspection Chamber & Inlet Effluent Pipes from NSWSPS					
IW-1310	Modification of Existing Inspection Chamber - Sheet Piles Installation (1,020m2, 40m2/day/rig, 1 rig)	21	14-Jun-24	09-Jul-24	-228
Inlet Works (IW)					
IW Foundation & ELS Works					
IW Basement					
IW Excavation Works & ELS					
IW Base Slab					
Z1-IW-6660	IW-Zone A - Remove strut S4 and remaining S3	6	31-Jan-24 A	19-Feb-24 A	
Z1-IW-6350	IW-Zone A - Pile Cap @-4.90/-1.60/-0.55mpD (3rd pour)	8	20-Feb-24 A	04-Mar-24 A	
Z1-IW-6820	IW-Zone A - Pile Cap @-0.55mpD (5th pour)	10	27-Feb-24 A	20-Mar-24 A	
Z1-IW-6620	IW-Zone D - Pile Cap @-1.65 (GL4-5 upper portion) *OT	6	27-Feb-24 A	08-Mar-24 A	
Z1-IW-6360	IW-Zone A - Pile Cap @-1.60/-0.05mpD (4th pour)	10	28-Feb-24 A	20-Mar-24 A	
IW Basement RC Works					
IW Zone C					
Z1-IW-6720	IW(C) - Zone C3 - Strutting: Remove S1 & S2 strut (MS3-1 & MS3-2) at GL4	3	24-Mar-24 A	26-Mar-24 A	



Remaining Level of Ef...
Actual Work
Remaining Work
Critical Remaining Work
Milestone

保華-中國中鐵聯營體
PAUL Y.-CREC JOINT VENTURE

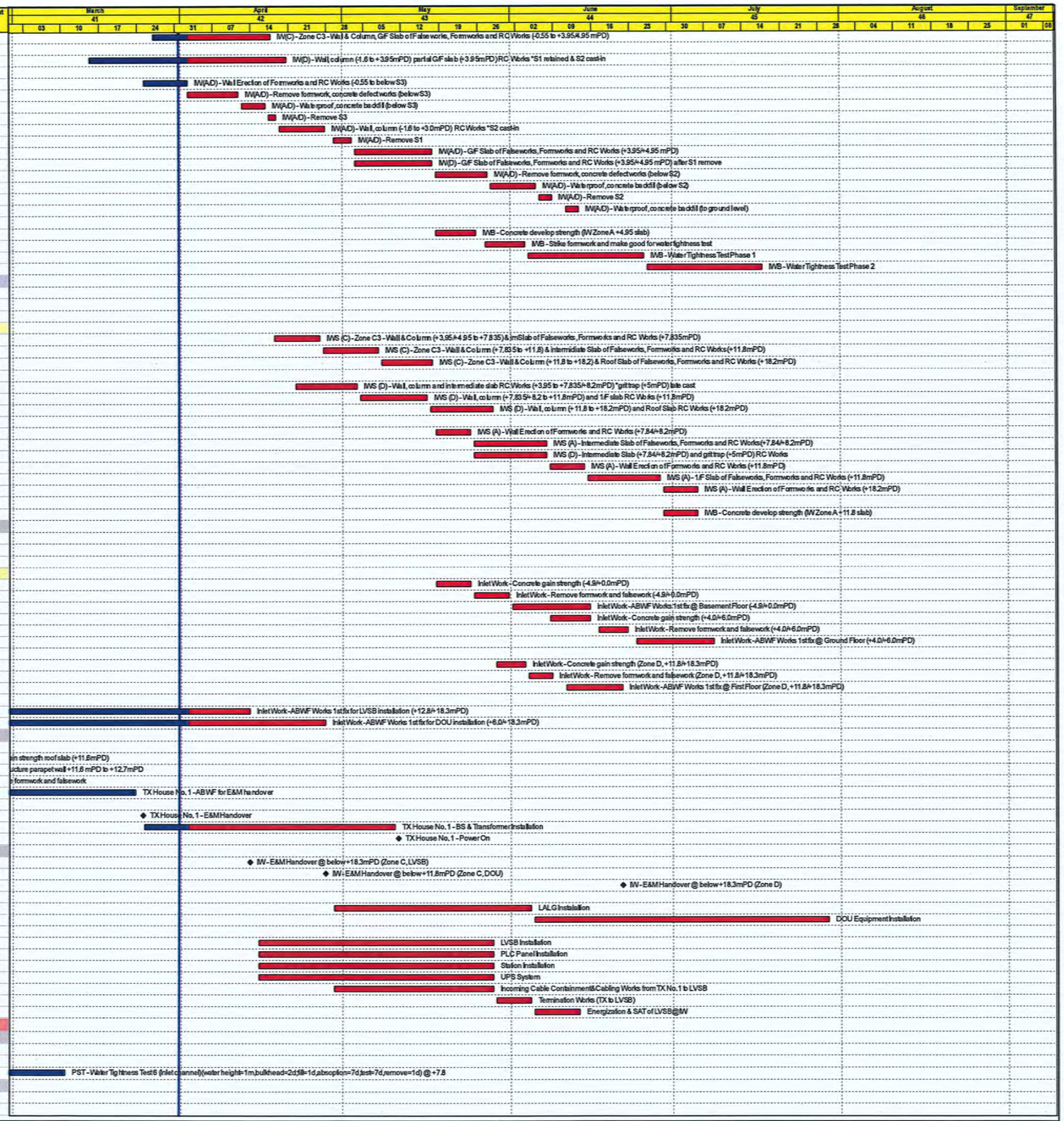
Contract DC/2019/10 - YLEPP - Main Works for Stage 1
Monthly Progress Report No. 41- 3MRP (Mar 24)

Project ID : DWPr36_240416
Layout : DC201910 MPR41-3MRP

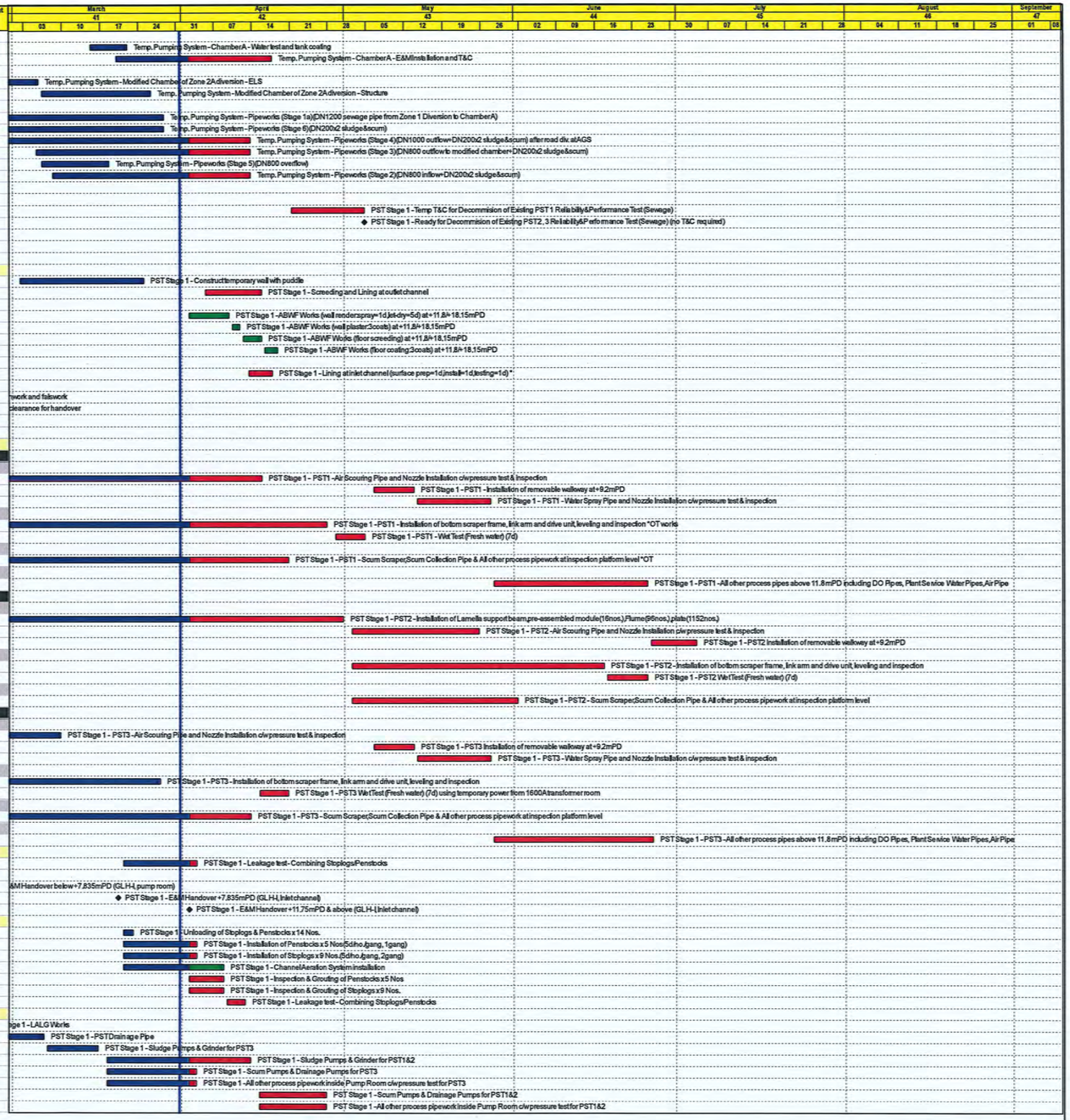
Monthly Progress Report - 3MRP

Date	Revision	Checked	Approved
31-Mar-24	Rev. 0		

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float
Z1-IW-6730	IW(C) - Zone C3 - Wall & Column, G/F Slab of Falseworks, Formworks and RC Works (-0.55 to +3.95/4.95 mPD)	9	27-Mar-24 A	17-Apr-24	-160
IW Zone D early for PST early commissioning*					
Z1-IW-6450	IW(D) - Wall, column (-1.6 to +3.95mPD) partial G/F slab (+3.95mPD) RC Works *S1 retained & S2 cast-in	6	15-Mar-24 A	20-Apr-24	-215
IW Zone A/D					
Z1-IW-6230	IW(A/D) - Wall Erection of Formworks and RC Works (-0.55 to below S3)	10	25-Mar-24 A	02-Apr-24	-232
Z1-IW-6850	IW(A/D) - Remove formwork, concrete defectworks (below S3)	8	02-Apr-24	11-Apr-24	-232
Z1-IW-6860	IW(A/D) - Waterproof, concrete backfill (below S3)	4	12-Apr-24	16-Apr-24	-232
Z1-IW-6870	IW(A/D) - Remove S3	2	17-Apr-24	18-Apr-24	-232
Z1-IW-6880	IW(A/D) - Wall, column (-1.6 to +3.0mPD) RC Works *S2 cast-in	8	19-Apr-24	27-Apr-24	-232
Z1-IW-6890	IW(A/D) - Remove S1	3	29-Apr-24	02-May-24	-232
Z1-IW-6250	IW(A/D) - G/F Slab of Falseworks, Formworks and RC Works (+3.95/+4.95 mPD)	12	03-May-24	17-May-24	-232
Z1-IW-6460	IW(D) - G/F Slab of Falseworks, Formworks and RC Works (+3.95/+4.95 mPD) after S1 remove	12	03-May-24	17-May-24	-232
Z1-IW-6770	IW(A/D) - Remove formwork, concrete defectworks (below S2)	8	18-May-24	27-May-24	-228
Z1-IW-6780	IW(A/D) - Waterproof, concrete backfill (below S2)	8	28-May-24	05-Jun-24	-228
Z1-IW-6900	IW(A/D) - Remove S2	3	06-Jun-24	08-Jun-24	-228
Z1-IW-6910	IW(A/D) - Waterproof, concrete backfill (to ground level)	3	11-Jun-24	13-Jun-24	-228
Water Tightness Test for IW Basement					
Z1-IW-6550	IW/B - Concrete develop strength (IW Zone A +4.95 slab)	7	18-May-24	25-May-24	-229
Z1-IW-6560	IW/B - Strike formwork and make good for water tightness test	7	27-May-24	03-Jun-24	-229
Z1-IW-4100	IW/B - Water Tightness Test Phase 1	18	04-Jun-24	25-Jun-24	-229
Z1-IW-4110	IW/B - Water Tightness Test Phase 2	18	26-Jun-24	17-Jul-24	-229
IW Civil and Structural Works					
IW Superstructure					
RC Works					
Zone C					
Zone C3					
Z1-IW-6740	IW/S (C) - Zone C3 - Wall & Column (+3.95/+4.95 to +7.835) & Im Slab of Falseworks, Formworks and RC Works (+7.83	8	18-Apr-24	26-Apr-24	-160
Z1-IW-6840	IW/S (C) - Zone C3 - Wall & Column (+7.835 to +11.8) & Intermidiate Slab of Falseworks, Formworks and RC Works (+1	8	27-Apr-24	07-May-24	-160
Z1-IW-6750	IW/S (C) - Zone C3 - Wall & Column (+11.8 to +18.2) & Roof Slab of Falseworks, Formworks and RC Works (+18.2mPD	8	08-May-24	17-May-24	-160
Zone D					
Z1-IW-6520	IW/S (D) - Wall, column and intermediate slab RC Works (+3.95 to +7.835/+8.2mPD) *grit trap (+5mPD) late cast	10	22-Apr-24	03-May-24	-215
Z1-IW-6500	IW/S (D) - Wall, column (+7.835/+ 8.2 to +11.8mPD) and 1/F slab RC Works (+11.8mPD)	10	04-May-24	16-May-24	-189
Z1-IW-6540	IW/S (D) - Wall, column (+11.8 to +18.2mPD) and Roof Slab RC Works (+18.2mPD)	10	17-May-24	28-May-24	-189
Zone A					
Z1-IW-4145	IW/S (A) - Wall Erection of Formworks and RC Works (+7.84/+8.2mPD)	6	18-May-24	24-May-24	-232
Z1-IW-4090	IW/S (A) - Intermediate Slab of Falseworks, Formworks and RC Works(+7.84/+8.2mPD)	12	25-May-24	07-Jun-24	-232
Z1-IW-6490	IW/S (D) - Intermediate Slab (+7.84/+8.2mPD) and grit trap (+5mPD) RC Works	12	25-May-24	07-Jun-24	-232
Z1-IW-4160	IW/S (A) - Wall Erection of Formworks and RC Works (+11.8mPD)	5	08-Jun-24	14-Jun-24	-232
Z1-IW-4195	IW/S (A) - 1/F Slab of Falseworks, Formworks and RC Works (+11.8mPD)	12	15-Jun-24	28-Jun-24	-232
Z1-IW-4200	IW/S (A) - Wall Erection of Formworks and RC Works (+18.2mPD)	5	29-Jun-24	05-Jul-24	-231
Water Tightness Test for IW Superstructure					
Z1-IW-6570	IW/B - Concrete develop strength (IW Zone A +11.8 slab)	7	29-Jun-24	05-Jul-24	-289
IW ABWF Works					
IW ABWF Works 1st fix for E&M handover					
IW ABWF Works - Zone A/D					
Below +11.8mPD					
Dry Area					
IW-3300	Inlet Work - Concrete gain strength (-4.9/+0.0mPD)	6	18-May-24	24-May-24	-196
IW-3270	Inlet Work - Remove formwork and falsework (-4.9/+0.0mPD)	6	25-May-24	31-May-24	-196
IW-3020	Inlet Work - ABWF Works 1st fix @ Basement Floor (-4.9/+0.0mPD)	12	01-Jun-24	15-Jun-24	-196
IW-3310	Inlet Work - Concrete gain strength (+4.0/+6.0mPD)	6	08-Jun-24	15-Jun-24	-214
IW-3280	Inlet Work - Remove formwork and falsework (+4.0/+6.0mPD)	6	17-Jun-24	22-Jun-24	-214
IW-2780	Inlet Work - ABWF Works 1st fix @ Ground Floor (+4.0/+6.0mPD)	12	24-Jun-24	08-Jul-24	-214
Above +11.8mPD					
IW-3480	Inlet Work - Concrete gain strength (Zone D, +11.8/+18.3mPD)	5	29-May-24	03-Jun-24	-189
IW-3490	Inlet Work - Remove formwork and falsework (Zone D, +11.8/+18.3mPD)	5	04-Jun-24	08-Jun-24	-189
IW-3500	Inlet Work - ABWF Works 1st fix @ First Floor (Zone D, +11.8/+18.3mPD)	10	11-Jun-24	21-Jun-24	-189
IW ABWF Works - Zone C					
IW-3220	Inlet Work - ABWF Works 1st fix for LVSB installation (+12.8/+18.3mPD)	7	22-Jan-24 A	13-Apr-24	-160
IW-3210	Inlet Work - ABWF Works 1st fix for DOU installation (+6.0/+18.3mPD)	7	27-Jan-24 A	27-Apr-24	-150
IW Transformer House No. 1					
IW Tx1 Civil & Structural Works					
IW-3400	TX House No.1 - Concrete gain strength roof slab (+11.8mPD)	5	06-Feb-24 A	11-Feb-24 A	
IW-3420	TX House No.1 - Structure parapet wall +11.8 mPD to +12.7mPD	6	12-Feb-24 A	16-Feb-24 A	
IW-3410	TX House No.1 - Strike formwork and falsework	3	14-Feb-24 A	15-Feb-24 A	
IW-2830	TX House No.1 - ABWF for E&M handover	6	16-Feb-24 A	23-Mar-24 A	
IW Tx1 E&M Works					
IW-2831	TX House No.1 - E&M Handover	0	25-Mar-24 A		
IW-2840	TX House No.1 - BS & Transformer Installation	32	25-Mar-24 A	10-May-24	-123
IW-3330	TX House No.1 - Power On	0	11-May-24		-134
IW E&M Works					
ATAL-1750	IW - E&M Handover @ below +18.3mPD (Zone C, LVSB)	0		13-Apr-24	-160
ATAL-1760	IW - E&M Handover @ below +11.8mPD (Zone C, DOU)	0		27-Apr-24	-150
ATAL-1780	IW - E&M Handover @ below +18.3mPD (Zone D)	0		21-Jun-24	-189
DOU-01 System - 01 *					
ATAL-1170	LALG Installation	30	29-Apr-24	04-Jun-24	-150
ATAL-1250	DOU Equipment Installation	45	05-Jun-24	29-Jul-24	-150
LV Switch Room (IW + PST)*					
ATAL-1270	LVSB Installation	36	15-Apr-24	28-May-24	-160
ATAL-1300	PLC Panel Installation	36	15-Apr-24	28-May-24	-143
ATAL-1310	Station Installation	36	15-Apr-24	28-May-24	-160
ATAL-1320	UPS System	36	15-Apr-24	28-May-24	-137
ATAL-1280	Incoming Cable Containment&Cabling Works from TX No.1 to LVSB	24	29-Apr-24	28-May-24	-160
ATAL-1290	Termination Works (TX to LVSB)	6	29-May-24	04-Jun-24	-143
ATAL-1330	Energization & SAT of LVSB@IW	7	05-Jun-24	13-Jun-24	-143
Primary Sedimentation Tank (PST)					
PST Superstructure					
Stage 1					
Water Tightness Test for PST					
Z1-PST-4862	PST - Water Tightness Test 6 (Inlet channel) (water height=1m,bulkhead=2d,fill=1d,absoption=7d,test=7d,remove=1d) (	8	29-Feb-24 A	10-Mar-24 A	
PST ABWF, E&M & T&C					
External Pipeworks for Temp Pumping System					
Temporary Pumping Facilities for Conveying Sewage to New PST - Structure					



Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float
Chamber A					
Z2D-4480	Temp.Pumping System - ChamberA - Water test and tank coating	5	15-Mar-24 A	22-Mar-24 A	
Z2D-4370	Temp.Pumping System - ChamberA - E&MInstallation and T&C	6	20-Mar-24 A	17-Apr-24	-48
Modified Chamber of Zone 2A diversion					
Z2D-4470	Temp.Pumping System - Modified Chamber of Zone 2A diversion - ELS	5	23-Feb-24 A	05-Mar-24 A	
Z2D-4460	Temp.Pumping System - Modified Chamber of Zone 2A diversion - Structure	12	06-Mar-24 A	26-Mar-24 A	
Temporary Pumping Facilities for Conveying Sewage to New PST - Pipeworks					
Z2D-4450	Temp.Pumping System - Pipeworks (Stage 1a)(DN1200 sewage pipe from Zone 1 Diversion to ChamberA)	14	01-Feb-24 A	28-Mar-24 A	
Z2D-4440	Temp.Pumping System - Pipeworks (Stage 6)(DN200x2 sludge&scum)	14	21-Feb-24 A	28-Mar-24 A	
Z2D-4390	Temp.Pumping System - Pipeworks (Stage 4)(DN1000 outflow+DN200x2 sludge&scum) after road div. at AGS	20	28-Feb-24 A	13-Apr-24	-45
Z2D-4430	Temp.Pumping System - Pipeworks (Stage 3)(DN800 outflow to modified chamber+DN200x2 sludge&scum)	9	05-Mar-24 A	13-Apr-24	-45
Z2D-4340	Temp.Pumping System - Pipeworks (Stage 5)(DN800 overflow)	8	06-Mar-24 A	18-Mar-24 A	
Z2D-4420	Temp.Pumping System - Pipeworks (Stage 2)(DN800 inflow+DN200x2 sludge&scum)	8	08-Mar-24 A	13-Apr-24	-45
PST Stage 1 - Early T&C					
Temp Pumping System T&C *					
ATALPST-6900	PST Stage 1 - Temp T&C for Decommision of Existing PST 1 Reliability&Performance Test (Sewage)	14	21-Apr-24	04-May-24	-64
ATALPST-6510	PST Stage 1 - Ready for Decommision of Existing PST2, 3 Reliability&Performance Test (Sewage) (no T&C required)	0		04-May-24	-64
PST Stage 1					
PST Stage 1 - ABWF Works					
PST1-3, Outlet channel					
Outlet					
PST-3405	PST Stage 1 - Construct temporary wall with puddle	14	02-Mar-24 A	25-Mar-24 A	
PST-3345	PST Stage 1 - Screeding and Lining at outlet channel	9	05-Apr-24	15-Apr-24	-46
GLA-H above +11.8mPD					
PST-3135	PST Stage 1 - ABWF Works (wall renderspray=1d,jet-dry=5d) at +11.8/+18.15mPD	6	02-Apr-24	09-Apr-24	15
PST-3165	PST Stage 1 - ABWF Works (wall plaster3coats) at +11.8/+18.15mPD	2	10-Apr-24	11-Apr-24	15
PST-3175	PST Stage 1 - ABWF Works (floor screeding) at +11.8/+18.15mPD	3	12-Apr-24	15-Apr-24	15
PST-3185	PST Stage 1 - ABWF Works (floor coating3coats) at +11.8/+18.15mPD	3	16-Apr-24	18-Apr-24	15
Inlet channel*					
PST-3145	PST Stage 1 - Lining at inlet channel (surface prep=1d,install=1d,testing=1d) *	4	13-Apr-24	17-Apr-24	-48
Pump room *					
PST-3375	PST Stage 1 - Stike formwork and falswork	6	01-Feb-24 A	14-Feb-24 A	
PST-3385	PST Stage 1 - Site clearance for handover	2	15-Feb-24 A	17-Feb-24 A	
PST Stage 1 - E&M Installation Works					
Phase 1 (GLA-H, PST1-3, Outlet Channel)					
PST Stage 1 - E&M Installation Works at Setting Zone (PST 1-3)					
PST 1					
PST 1 - Inclined Plate Settling System					
ATALPST-4	PST Stage 1 - PST1 - Air Scouring Pipe and Nozzle Installation c/w pressure test & inspection	21	28-Feb-24 A	15-Apr-24	-108
PST-3325	PST Stage 1 - PST1 - Installation of removable walkway at +9.2mPD	7	06-May-24	13-May-24	-118
ATALPST-4	PST Stage 1 - PST1 - Water Spray Pipe and Nozzle Installation c/w pressure test & inspection	11	14-May-24	27-May-24	-119
PST 1 - Bottom Scraper System					
ATALPST-4	PST Stage 1 - PST1 - Installation of bottom scraper frame, link arm and drive unit, leveling and inspection *OT works	20	28-Feb-24 A	27-Apr-24	-119
ATALPST-4	PST Stage 1 - PST1 - Wet Test (Fresh water) (7d)	6	29-Apr-24	04-May-24	-150
PST 1 - Scum Collection System					
ATALPST-4	PST Stage 1 - PST1 - Scum Scraper,Scum Collection Pipe & All other process pipework at inspection platform level *OT	20	28-Feb-24 A	20-Apr-24	-113
PST 1 - Compressors ,Air blowers c/w ass ociated fittings					
ATALPST-4	PST Stage 1 - PST1 - All other process pipes above 11.8mPD including DO Pipes, Plant Sevice Water Pipes, Air Pipe	24	28-May-24	25-Jun-24	-119
PST 2					
PST 2 - Inclined Plate Settling System					
ATALPST-4	PST Stage 1 - PST2 - Installation of Lamella support beam,pre-assembled module(16nos.),Flume(96nos.),plate(1152r	42	16-Jan-24 A	30-Apr-24	-170
ATALPST-4	PST Stage 1 - PST2 - Air Scouring Pipe and Nozzle Installation c/w pressure test & inspection	20	02-May-24	25-May-24	-151
PST-3355	PST Stage 1 - PST2 Installation of removable walkway at +9.2mPD	7	26-Jun-24	04-Jul-24	-169
PST 2 - Bottom Scraper System					
ATALPST-4	PST Stage 1 - PST2 - Installation of bottom scraper frame, link arm and drive unit, leveling and inspection	38	02-May-24	17-Jun-24	-169
ATALPST-4	PST Stage 1 - PST2 Wet Test (Fresh water) (7d)	7	18-Jun-24	25-Jun-24	-169
PST 2 - Scum Collection System					
ATALPST-4	PST Stage 1 - PST2 - Scum Scraper,Scum Collection Pipe & All other process pipework at inspection platform level	26	02-May-24	01-Jun-24	-157
PST 3					
PST 3 - Inclined Plate Settling System					
ATALPST-4	PST Stage 1 - PST3 - Air Scouring Pipe and Nozzle Installation c/w pressure test & inspection	18	02-Feb-24 A	09-Mar-24 A	
PST-3335	PST Stage 1 - PST3 Installation of removable walkway at +9.2mPD	7	06-May-24	13-May-24	-118
ATALPST-4	PST Stage 1 - PST3 - Water Spray Pipe and Nozzle Installation c/w pressure test & inspection	11	14-May-24	27-May-24	-119
PST 3 - Bottom Scraper System					
ATALPST-4	PST Stage 1 - PST3 - Installation of bottom scraper frame, link arm and drive unit, leveling and inspection	17	16-Feb-24 A	28-Mar-24 A	
ATALPST-4	PST Stage 1 - PST3 Wet Test (Fresh water) (7d) using temporary power from 1600A transformer room	6	15-Apr-24	20-Apr-24	-136
PST 3 - Scum Collection System					
ATALPST-4	PST Stage 1 - PST3 - Scum Scraper,Scum Collection Pipe & All other process pipework at inspection platform level	17	16-Feb-24 A	13-Apr-24	-107
PST 3 - Compressors ,Air blowers c/w ass ociated fittings					
ATALPST-4	PST Stage 1 - PST3 - All other process pipes above 11.8mPD including DO Pipes, Plant Sevice Water Pipes, Air Pipe	25	28-May-24	26-Jun-24	-119
PST Stage 1 - Outlet Channel					
ATALPST-59	PST Stage 1 - Leakage test - Combining Stoplogs Penstocks	7	21-Mar-24 A	03-Apr-24	-46
Phase 2 (GLH-I, Inlet Channel, Pump Room) Handover for PST early commissioning *					
ATALPST-655	PST Stage 1 - E&M Handover below +7.835mPD (GLH-I, pump room)	0	19-Feb-24 A		
ATALPST-656	PST Stage 1 - E&M Handover +7.835mPD (GLH-I, Inlet channel)	0	20-Mar-24 A		
ATALPST-667	PST Stage 1 - E&M Handover +11.75mPD & above (GLH-I, Inlet channel)	0	02-Apr-24		-74
PST Stage 1 - Inlet Channel*					
ATALPST-54	PST Stage 1 - Unloading of Stoplogs & Penstocks x14 Nos.	5	21-Mar-24 A	23-Mar-24 A	
ATALPST-54	PST Stage 1 - Installation of Penstocks x5 Nos(5dho./gang, 1gang)	24	21-Mar-24 A	03-Apr-24	-47
ATALPST-55	PST Stage 1 - Installation of Stoplogs x9 Nos.(5dho./gang, 2gang)	24	21-Mar-24 A	03-Apr-24	-47
ATALPST-55	PST Stage 1 - Channel Aeration System installation	32	21-Mar-24 A	08-Apr-24	1122
ATALPST-55	PST Stage 1 - Inspection & Grouting of Penstocks x5 Nos	5	02-Apr-24	08-Apr-24	-48
ATALPST-55	PST Stage 1 - Inspection & Grouting of Stoplogs x9 Nos.	5	02-Apr-24	08-Apr-24	-48
ATALPST-55	PST Stage 1 - Leakage test - Combining Stoplogs Penstocks	4	09-Apr-24	12-Apr-24	-48
PST Stage 1 - Pump Room*					
ATALPST-56	PST Stage 1 - LALG Works	14	19-Feb-24 A	24-Feb-24 A	
ATALPST-56	PST Stage 1 - PST Drainage Pipe	25	26-Feb-24 A	06-Mar-24 A	
ATALPST-70	PST Stage 1 - Sludge Pumps & Grinder for PST3	6	07-Mar-24 A	16-Mar-24 A	
ATALPST-56	PST Stage 1 - Sludge Pumps & Grinder for PST1&2	12	18-Mar-24 A	13-Apr-24	-48
ATALPST-70	PST Stage 1 - Scum Pumps & Drainage Pumps for PST3	6	18-Mar-24 A	03-Apr-24	-37
ATALPST-70	PST Stage 1 - All other process pipework inside Pump Room c/w pressure test for PST3	6	18-Mar-24 A	03-Apr-24	-37
ATALPST-56	PST Stage 1 - Scum Pumps & Drainage Pumps for PST1&2	12	15-Apr-24	27-Apr-24	-51
ATALPST-56	PST Stage 1 - All other process pipework inside Pump Room c/w pressure test for PST1&2	12	15-Apr-24	27-Apr-24	-51



Remaining Level of Ef...
Actual Work
Remaining Work
Critical Remaining Work
Milestone

保華-中國中鐵聯營體
PAUL Y.-CREC JOINT VENTURE

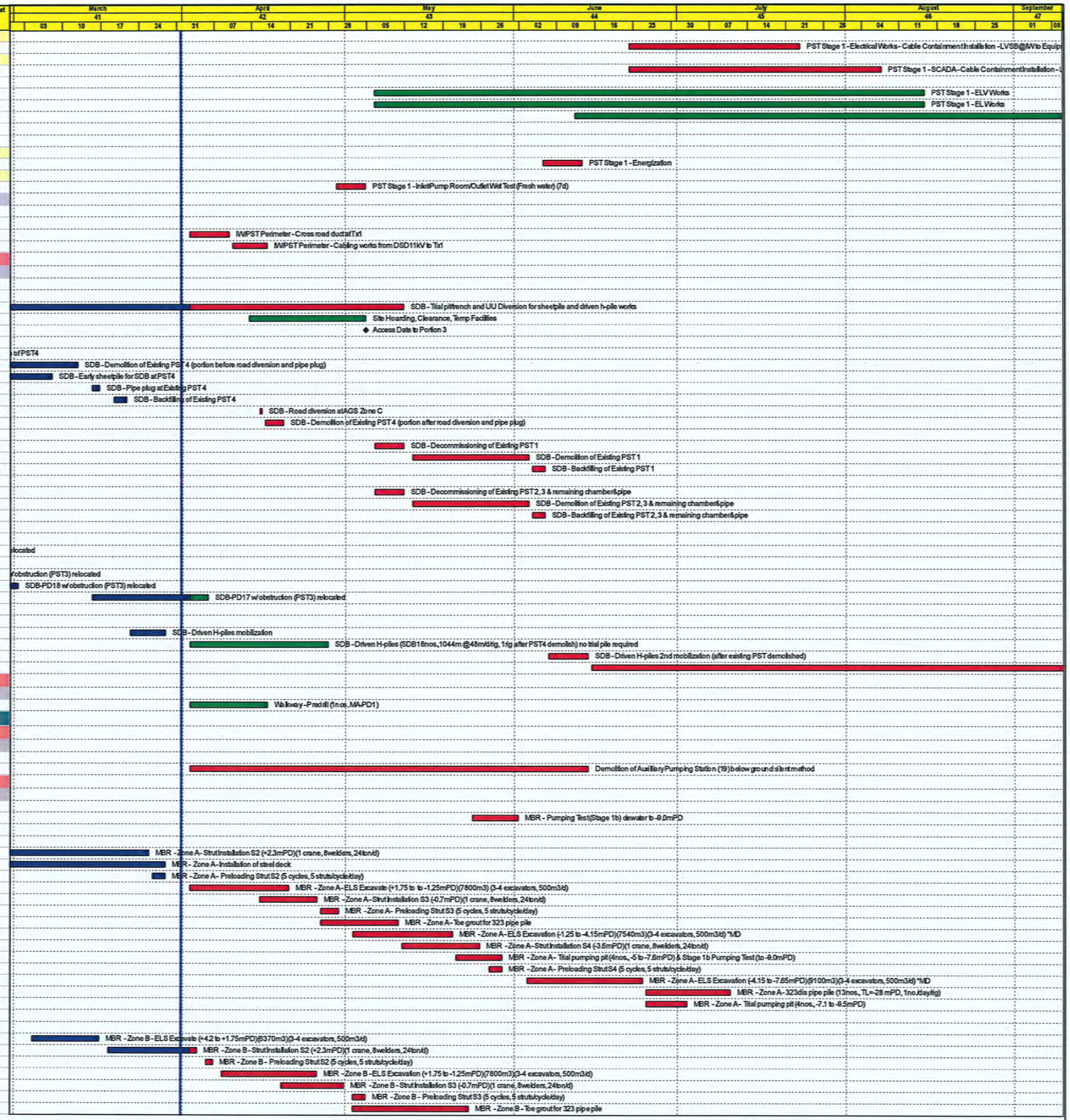
Contract DC/2019/10 - YLEPP - Main Works for Stage 1
Monthly Progress Report No. 41- 3MRP (Mar 24)

Project ID : DWPr36_240416
Layout : DC201910 MPR41-3MRP

Monthly Progress Report - 3MRP

Date	Revision	Checked	Approved
31-Mar-24	Rev. 0		

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float
	PST Stage 1 - Electrical Works (PST 1-3, Inlet/Outlet Channel & Pump Room)				
ATALPST-56	PST Stage 1 - Electrical Works - Cable Containment Installation - LVSB@MWto Equipment	25	22-Jun-24	23-Jul-24	-160
	PST Stage 1 - Instrumentation & SCADA Works (PST 1-3, Inlet/Outlet Channel & Pump Room)				
ATALPST-57	PST Stage 1 - SCADA - Cable Containment Installation - LVSB@MWto Equipment	39	22-Jun-24	07-Aug-24	-188
	PST Stage 1 - BS Works (PST 1-3, Inlet/Outlet Channel & Pump Room)				
ATALPST-576	PST Stage 1 - ELV Works	85	06-May-24	15-Aug-24	430
ATALPST-578	PST Stage 1 - EL Works	85	06-May-24	15-Aug-24	341
ATALPST-579	PST Stage 1 - FS. Works	86	12-Jun-24	21-Sep-24	399
	PST Stage 1 - T&C Works				
	PST Stage 1 - T&C Works (PST 1-3, Inlet / Outlet Channel & Pump Room)				
	Phase 1 - PST 1-3 Sub-System Physical Dry Check				
ATALPST-58	PST Stage 1 - Energization	6	06-Jun-24	13-Jun-24	-100
	Phase 3 - PST 1-3 Sub-System Wet Test (On load Performance, Endurance Test) (Fresh Water)				
ATALPST-69	PST Stage 1 - Inlet/Pump Room/Outlet Wet Test (Fresh water) (7d)	6	29-Apr-24	04-May-24	-64
	External Works - Inlet Work and Primary Sedimentation Tank Perimeter				
	IMPST External Works - Zone A (Transformer House No.1)				
	Stage 1 (KD3)				
EW-1980	IMPST Perimeter - Cross road duct at Tx1	6	02-Apr-24*	09-Apr-24	-103
EW-1710	IMPST Perimeter - Cabling works from DSD11kV to Tx1	6	10-Apr-24	16-Apr-24	-103
	Sludge Dewatering Building (SDB)				
	SDB Foundation & ELS - Stage 1				
	SDB Preliminaries for Foundation Works				
	Demolition of Existing PST1, 2, 3, 4				
SDB-1880	SDB - Trial pitrench and UU Diversion for sheetpile and driven h-pile works	96	04-Dec-23 A	11-May-24	-23
SDB-1000	Site Hoarding, Clearance, Temp Facilities	18	13-Apr-24	04-May-24	629
SDB-1310	Access Date to Portion 3	0		04-May-24	775
	Demolition of Existing PST4				
SDB-2040	SDB - Site clearance for demolition of PST4	3	08-Feb-24 A	09-Feb-24 A	
SDB-2050	SDB - Demolition of Existing PST 4 (portion before road diversion and pipe plug)	16	21-Feb-24 A	12-Mar-24 A	
SDB-2030	SDB - Early sheetpile for SDB at PST4	4	29-Feb-24 A	08-Mar-24 A	
SDB-1320	SDB - Pipe plug at Existing PST 4	2	15-Mar-24 A	16-Mar-24 A	
SDB-1800	SDB - Backfilling of Existing PST 4	2	19-Mar-24 A	21-Mar-24 A	
SDB-2010	SDB - Road diversion at AGS Zone C	1	15-Apr-24	15-Apr-24	-5
SDB-1100	SDB - Demolition of Existing PST 4 (portion after road diversion and pipe plug)	4	16-Apr-24	19-Apr-24	-5
	Demolition of Existing PST1				
SDB-1960	SDB - Decommissioning of Existing PST 1	6	06-May-24	11-May-24	-50
SDB-1970	SDB - Demolition of Existing PST 1	18	13-May-24	03-Jun-24	-50
SDB-1980	SDB - Backfilling of Existing PST 1	3	04-Jun-24	06-Jun-24	-50
	Demolition of Existing PST2&3				
SDB-1810	SDB - Decommissioning of Existing PST 2, 3 & remaining chamber&pipe	6	06-May-24	11-May-24	-50
SDB-1820	SDB - Demolition of Existing PST 2, 3 & remaining chamber&pipe	18	13-May-24	03-Jun-24	-50
SDB-1830	SDB - Backfilling of Existing PST 2, 3 & remaining chamber&pipe	3	04-Jun-24	06-Jun-24	-50
	SDB GI - Pre-drilling Works				
	SDB At PST4 and Existing Road				
SDB-1030	SDB-PD22 relocated	12	01-Feb-24 A	20-Feb-24 A	
	SDB At PST 1,2,3 Footprint				
SDB-1130	SDB-PD14 w/obstruction (PST3) relocated	12	31-Jan-24 A	20-Feb-24 A	
SDB-1160	SDB-PD18 w/obstruction (PST3) relocated	12	08-Feb-24 A	01-Mar-24 A	
SDB-1150	SDB-PD17 w/obstruction (PST3) relocated	12	15-Mar-24 A	05-Apr-24	7
	SDB Foundation - PST 1-4 Footprint				
	SDB Foundation - Driven H-Pile				
SDB-1920	SDB - Driven H-piles mobilization	6	22-Mar-24 A	28-Mar-24 A	
SDB-1940	SDB - Driven H-piles (SDB18nos.,1044m @48m/dtlg, 1rig after PST4 demolish) no trial pile required	22	02-Apr-24	27-Apr-24	153
SDB-2080	SDB - Driven H-piles 2nd mobilization (after existing PST demolished)	6	07-Jun-24	14-Jun-24	-50
SDB-1170	SDB - Driven H-piles (SDB315nos.,18270m @48m/dtlg, 4rigs after PST1,2,3&remaining chamber&pipe demolish)	96	15-Jun-24	08-Oct-24	-50
	External Works				
	Walkway Across Tai Tseng Wai Nullah				
CLP-1570	Walkway - Predrill (1nos.,MA-PD1)	12	02-Apr-24*	16-Apr-24	603
	Zone 2 Construction				
	Demolition Works				
	Other Existing Pumping Stations				
	Auxiliary Pumping Stations				
Z2T-150 B20	Demolition of Auxiliary Pumping Station (19) below ground silent method	60	02-Apr-24	14-Jun-24	-193
	Mainstream Bio-Reactor & Auxiliary Facility (MBR and AF)				
	MBR and AF Structure				
	MBR - ELS Excavation & Demolition stage 2				
MBRAF-4010	MBR - Pumping Test(Stage 1b) dewater to -9.0mPD	8	24-May-24	01-Jun-24	-210
	MBR - ELS Zone A				
	Excavation and Demolition				
MBRAF-1640	MBR - Zone A - Strut Installation S2 (+2.3mPD)(1 crane, 8welders, 24tonld)	18	16-Feb-24 A	25-Mar-24 A	
MBRAF-2490	MBR - Zone A - Installation of steel deck	14	16-Feb-24 A	28-Mar-24 A	
MBRAF-3480	MBR - Zone A - Preloading Strut S2 (5 cycles, 5 struts/cycle/day)	3	26-Mar-24 A	28-Mar-24 A	
MBRAF-3280	MBR - Zone A - ELS Excavate (+1.75 to to -1.25mPD)(7800m3) (3-4 excavators, 500m3/d)	16	02-Apr-24	20-Apr-24	-206
MBRAF-1660	MBR - Zone A - Strut Installation S3 (-0.7mPD)(1 crane, 8welders, 24tonld)	10	15-Apr-24	25-Apr-24	-206
MBRAF-3490	MBR - Zone A - Preloading Strut S3 (5 cycles, 5 struts/cycle/day)	3	26-Apr-24	29-Apr-24	-206
MBRAF-3710	MBR - Zone A - Toe grout for 323 pipe pile	12	26-Apr-24	10-May-24	-137
MBRAF-1670	MBR - Zone A - ELS Excavation (-1.25 to -4.15mPD)(7540m3)(3-4 excavators, 500m3/d) *MD	15	02-May-24	20-May-24	-207
MBRAF-1680	MBR - Zone A - Strut Installation S4 (-3.6mPD)(1 crane, 8welders, 24tonld)	12	11-May-24	25-May-24	-198
MBRAF-3930	MBR - Zone A - Trial pumping pit (4nos., -5 to -7.8mPD) & Stage 1b Pumping Test (to -9.0mPD)	8	21-May-24	29-May-24	-198
MBRAF-3500	MBR - Zone A - Preloading Strut S4 (5 cycles, 5 struts/cycle/day)	3	27-May-24	29-May-24	-198
MBRAF-1690	MBR - Zone A - ELS Excavation (-4.15 to -7.65mPD)(9100m3)(3-4 excavators, 500m3/d) *MD	18	03-Jun-24	24-Jun-24	-201
MBRAF-3650	MBR - Zone A - 323dia pipe pile (13nos., TL=-28 mPD, 1no./day/rig)	13	25-Jun-24	10-Jul-24	-201
MBRAF-3940	MBR - Zone A - Trial pumping pit (4nos., -7.1 to -9.5mPD)	6	25-Jun-24	02-Jul-24	-186
	MBR - ELS Zone B				
	Excavation				
MBRAF-3540	MBR - Zone B - ELS Excavate (+4.2 to +1.75mPD)(6370m3)(3-4 excavators, 500m3/d)	13	04-Mar-24 A	16-Mar-24 A	
MBRAF-3050	MBR - Zone B - Strut Installation S2 (+2.3mPD)(1 crane, 8welders, 24tonld)	10	18-Mar-24 A	03-Apr-24	-212
MBRAF-3570	MBR - Zone B - Preloading Strut S2 (5 cycles, 5 struts/cycle/day)	2	05-Apr-24	06-Apr-24	-212
MBRAF-3060	MBR - Zone B - ELS Excavation (+1.75 to -1.25mPD)(7800m3)(3-4 excavators, 500m3/d)	16	08-Apr-24	25-Apr-24	-212
MBRAF-3070	MBR - Zone B - Strut Installation S3 (-0.7mPD)(1 crane, 8welders, 24tonld)	10	19-Apr-24	30-Apr-24	-212
MBRAF-3580	MBR - Zone B - Preloading Strut S3 (5 cycles, 5 struts/cycle/day)	3	02-May-24	04-May-24	-212
MBRAF-3700	MBR - Zone B - Toe grout for 323 pipe pile	18	02-May-24	23-May-24	-147



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Remaining Level of Ef...
Actual Work
Remaining Work
Critical Remaining Work
Milestone

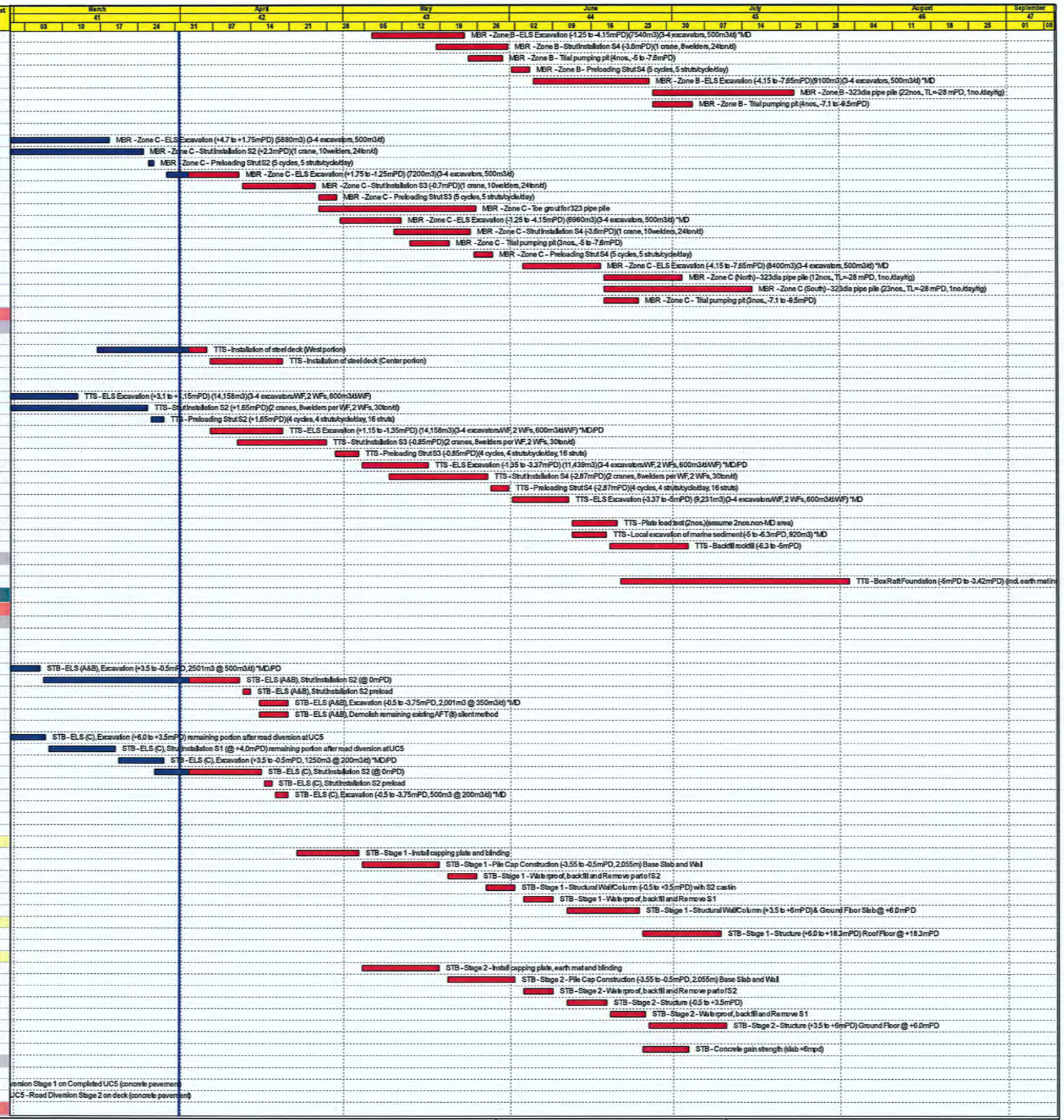
Contract DC/2019/10 - YLEPP - Main Works for Stage 1
Monthly Progress Report No. 41- 3MRP (Mar 24)

Project ID : DWPr36_240416
Layout : DC201910 MPR41-3MRP

Monthly Progress Report - 3MRP

Date	Revision	Checked	Approved
31-Mar-24	Rev. 0		

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float
MBRAF-3290	MBR - Zone B - ELS Excavation (-1.25 to -4.15mPD)(7540m3)(3-4 excavators, 500m3/d) *MD	15	06-May-24	23-May-24	-212
MBRAF-3300	MBR - Zone B - Strut Installation S4 (-3.6mPD)(1 crane, 8welders, 24bnt/d)	12	18-May-24	31-May-24	-212
MBRAF-3910	MBR - Zone B - Trial pumping pit (4nos., -5 to -7.6mPD)	6	24-May-24	30-May-24	-208
MBRAF-3590	MBR - Zone B - Preloading Strut S4 (5 cycles, 5 struts/cycle/day)	3	01-Jun-24	04-Jun-24	-212
MBRAF-3310	MBR - Zone B - ELS Excavation (-4.15 to -7.65mPD)(9100m3)(3-4 excavators, 500m3/d) *MD	18	05-Jun-24	26-Jun-24	-212
MBRAF-3660	MBR - Zone B - 323dia pipe pile (22nos., TL=-28 mPD, 1no./day/rig)	22	27-Jun-24	23-Jul-24	-212
MBRAF-3920	MBR - Zone B - Trial pumping pit (4nos., -7.1 to -9.5mPD)	6	27-Jun-24	04-Jul-24	-188
MBR - ELS Zone C					
Excavation					
MBRAF-3150	MBR - Zone C - ELS Excavation (+4.7 to +1.75mPD) (5880m3) (3-4 excavators, 500m3/d)	12	15-Feb-24 A	18-Mar-24 A	
MBRAF-3160	MBR - Zone C - Strut Installation S2 (+2.3mPD)(1 crane, 10welders, 24bnt/d)	14	28-Feb-24 A	25-Mar-24 A	
MBRAF-3610	MBR - Zone C - Preloading Strut S2 (5 cycles, 5 struts/cycle/day)	3	26-Mar-24 A	27-Mar-24 A	
MBRAF-3170	MBR - Zone C - ELS Excavation (+1.75 to -1.25mPD) (7200m3)(3-4 excavators, 500m3/d)	15	29-Mar-24 A	11-Apr-24	-201
MBRAF-3180	MBR - Zone C - Strut Installation S3 (-0.7mPD)(1 crane, 10welders, 24bnt/d)	12	12-Apr-24	25-Apr-24	-201
MBRAF-3620	MBR - Zone C - Preloading Strut S3 (5 cycles, 5 struts/cycle/day)	3	26-Apr-24	29-Apr-24	-201
MBRAF-3690	MBR - Zone C - Toe grout for 323 pipe pile	24	26-Apr-24	25-May-24	-149
MBRAF-3190	MBR - Zone C - ELS Excavation (-1.25 to -4.15mPD) (6960m3)(3-4 excavators, 500m3/d) *MD	10	30-Apr-24	11-May-24	-201
MBRAF-3200	MBR - Zone C - Strut Installation S4 (-3.6mPD)(1 crane, 10welders, 24bnt/d)	12	10-May-24	24-May-24	-201
MBRAF-3890	MBR - Zone C - Trial pumping pit (3nos., -5 to -7.6mPD)	6	13-May-24	20-May-24	-194
MBRAF-3630	MBR - Zone C - Preloading Strut S4 (5 cycles, 5 struts/cycle/day)	3	25-May-24	28-May-24	-201
MBRAF-3210	MBR - Zone C - ELS Excavation (-4.15 to -7.65mPD) (8400m3)(3-4 excavators, 500m3/d) *MD	12	03-Jun-24	17-Jun-24	-205
MBRAF-3670	MBR - Zone C (North) - 323dia pipe pile (12nos., TL=-28 mPD, 1no./day/rig)	12	18-Jun-24	02-Jul-24	-194
MBRAF-3680	MBR - Zone C (South) - 323dia pipe pile (23nos., TL=-28 mPD, 1no./day/rig)	23	18-Jun-24	15-Jul-24	-205
MBRAF-3900	MBR - Zone C - Trial pumping pit (3nos., -7.1 to -9.5mPD)	6	18-Jun-24	24-Jun-24	-180
Tertriary Treatment System (TTS)					
TTS Foundation and ELS					
Kingpost and Working Platform					
TTS-2150	TTS - Installation of steel deck (West portion)	15	16-Mar-24 A	05-Apr-24	-207
TTS-2180	TTS - Installation of steel deck (Center portion)	12	06-Apr-24	19-Apr-24	-200
TTS Foundation and ELS Stage 2					
TTS ELS					
TTS-1040	TTS - ELS Excavation (+3.1 to +1.15mPD) (14,158m3)(3-4 excavators/WF, 2 WFs, 600m3/d/WF)	12	06-Feb-24 A	12-Mar-24 A	
TTS-1050	TTS - Strut Installation S2 (+1.65mPD)(2 cranes, 8welders per WF, 2 WFs, 30bnt/d)	15	19-Feb-24 A	25-Mar-24 A	
TTS-2050	TTS - Preloading Strut S2 (+1.65mPD)(4 cycles, 4 struts/cycle/day, 16 struts)	4	26-Mar-24 A	28-Mar-24 A	
TTS-1060	TTS - ELS Excavation (+1.15 to -1.35mPD) (14,158m3)(3-4 excavators/WF, 2 WFs, 600m3/d/WF) *MD/PD	12	06-Apr-24	19-Apr-24	-207
TTS-1270	TTS - Strut Installation S3 (-0.85mPD)(2 cranes, 8welders per WF, 2 WFs, 30bnt/d)	15	11-Apr-24	27-Apr-24	-207
TTS-2060	TTS - Preloading Strut S3 (-0.85mPD)(4 cycles, 4 struts/cycle/day, 16 struts)	4	29-Apr-24	03-May-24	-207
TTS-1280	TTS - ELS Excavation (-1.35 to -3.37mPD) (11,439m3)(3-4 excavators/WF, 2 WFs, 600m3/d/WF) *MD/PD	10	04-May-24	16-May-24	-207
TTS-1290	TTS - Strut Installation S4 (-2.87mPD)(2 cranes, 8welders per WF, 2 WFs, 30bnt/d)	15	09-May-24	27-May-24	-207
TTS-2070	TTS - Preloading Strut S4 (-2.87mPD)(4 cycles, 4 struts/cycle/day, 16 struts)	4	28-May-24	31-May-24	-207
TTS-1300	TTS - ELS Excavation (-3.37 to -5mPD) (9,231m3)(3-4 excavators/WF, 2 WFs, 600m3/d/WF) *MD	8	01-Jun-24	11-Jun-24	-207
TTS Formation Level					
TTS-1260	TTS - Plate load test (2nos.)(assume 2nos.non-MD area)	8	12-Jun-24	20-Jun-24	-207
TTS-1810	TTS - Local excavation of marine sediment (-5 to -6.3mPD, 920m3) *MD	6	12-Jun-24	18-Jun-24	-189
TTS-2080	TTS - Backfill rockfill (-6.3 to -5mPD)	12	19-Jun-24	03-Jul-24	-189
TTS Structure					
TTS Substructure					
TTS-1380	TTS - Box Raft Foundation (-5mPD to -3.42mPD) (incl. earth mat installation)	36	21-Jun-24	02-Aug-24	-207
Zone 3 Construction					
Zone 3 North Portion (Z3N)					
New Sludge Thickening Building (STB)					
STB : Foundation and ELS					
STB : Excavation and Lateral Support					
STB : ELS Zone A and B					
Z3S3-2360	STB - ELS (A&B), Excavation (+3.5 to -0.5mPD, 2501m3 @ 500m3/d) *MD/PD	5	21-Feb-24 A	05-Mar-24 A	
Z3S3-2420	STB - ELS (A&B), Strut Installation S2 (@ 0mPD)	10	06-Mar-24 A	11-Apr-24	-112
Z3S3-5230	STB - ELS (A&B), Strut Installation S2 preload	2	12-Apr-24	13-Apr-24	-112
Z3S3-2450	STB - ELS (A&B), Excavation (-0.5 to -3.75mPD, 2,001m3 @ 350m3/d) *MD	6	15-Apr-24	20-Apr-24	-112
Z3S3-5800	STB - ELS (A&B), Demolish remaining existing AFT(B) silent method	6	15-Apr-24	20-Apr-24	-112
STB : ELS Zone C					
Z3S3-5110	STB - ELS (C), Excavation (+6.0 to +3.5mPD) remaining portion after road diversion at UC5	2	29-Feb-24 A	06-Mar-24 A	
Z3S3-5120	STB - ELS (C), Strut Installation S1 (@ +4.0mPD) remaining portion after road diversion at UC5	6	07-Mar-24 A	19-Mar-24 A	
Z3S3-5940	STB - ELS (C), Excavation (+3.5 to -0.5mPD, 1250m3 @ 200m3/d) *MD/PD	5	20-Mar-24 A	28-Mar-24 A	
Z3S3-5950	STB - ELS (C), Strut Installation S2 (@ 0mPD)	8	27-Mar-24 A	15-Apr-24	-112
Z3S3-5960	STB - ELS (C), Strut Installation S2 preload	2	16-Apr-24	17-Apr-24	-112
Z3S3-5970	STB - ELS (C), Excavation (-0.5 to -3.75mPD, 500m3 @ 200m3/d) *MD	3	18-Apr-24	20-Apr-24	-112
STB : Civil and Structural Works					
STB : Structure					
STB : Structure Stage 1 (KD10)					
STB : Substructure					
Z3S3-6140	STB - Stage 1 - Install capping plate and blinding	10	22-Apr-24	03-May-24	-112
Z3S3-2500	STB - Stage 1 - Pile Cap Construction (-3.55 to -0.5mPD, 2,055m) Base Slab and Wall	12	04-May-24	18-May-24	-112
Z3S3-3670	STB - Stage 1 - Waterproof, backfill and Remove part of S2	6	20-May-24	25-May-24	-112
Z3S3-2600	STB - Stage 1 - Structural Wall/Column (-0.5 to +3.5mPD) with S2 castin	6	27-May-24	01-Jun-24	-112
Z3S3-3660	STB - Stage 1 - Waterproof, backfill and Remove S1	6	03-Jun-24	08-Jun-24	-112
Z3S3-2630	STB - Stage 1 - Structural Wall/Column (+3.5 to +6mPD) & Ground Floor Slab @ +6.0mPD	12	11-Jun-24	24-Jun-24	-112
STB : Superstructure					
Z3S3-2740	STB - Stage 1 - Structure (+6.0 to +18.3mPD) Roof Floor @ +18.3mPD	12	25-Jun-24	09-Jul-24	-112
STB : Structure Stage 2 (Remaining)					
STB : Substructure					
Z3S3-6170	STB - Stage 2 - Install capping plate, earth mat and blinding	12	04-May-24	18-May-24	-10
Z3S3-6040	STB - Stage 2 - Pile Cap Construction (-3.55 to -0.5mPD, 2,055m) Base Slab and Wall	12	20-May-24	01-Jun-24	-10
Z3S3-6110	STB - Stage 2 - Waterproof, backfill and Remove part of S2	6	03-Jun-24	08-Jun-24	-10
Z3S3-6050	STB - Stage 2 - Structure (-0.5 to +3.5mPD)	7	11-Jun-24	18-Jun-24	-10
Z3S3-6100	STB - Stage 2 - Waterproof, backfill and Remove S1	6	19-Jun-24	25-Jun-24	-10
Z3S3-6060	STB - Stage 2 - Structure (+3.5 to +6mPD) Ground Floor @ +6.0mPD	12	26-Jun-24	10-Jul-24	-10
STB : Water Tightness Test					
Z3S3-5990	STB - Concrete gain strength (slab +6mpd)	7	25-Jun-24	03-Jul-24	-7
Utility Corridor (UC5) (Connect to STB)					
UC5 : Civil and Structural Works					
Z3S2-3480	UC5 - Road Diversion Stage 1 on Completed UC5 (concrete pavement)	1	05-Feb-24 A	19-Feb-24 A	
Z3S2-3740	UC5 - Road Diversion Stage 2 on deck (concrete pavement)	1	28-Feb-24 A	28-Feb-24 A	
Zone 3 South Portion (Z3S)					



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Remaining Level of Ef...
Actual Work
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Milestone

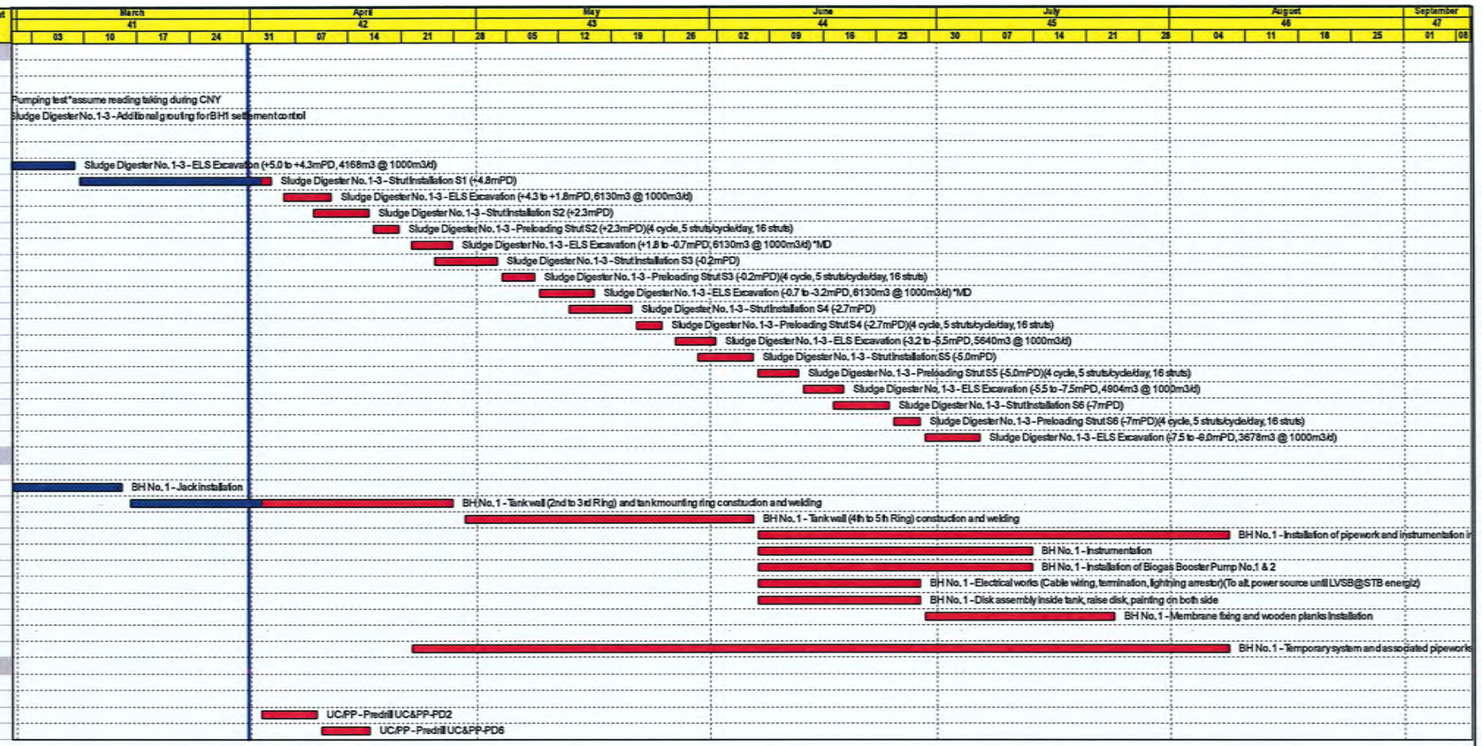
Contract DC/2019/10 - YLEPP - Main Works for Stage 1
Monthly Progress Report No. 41- 3MRP (Mar 24)

Project ID : DWPr36_240416
Layout : DC201910 MPR41-3MRP

Monthly Progress Report - 3MRP

Date	Revision	Checked	Approved
31-Mar-24	Rev. 0		

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float
Sludge Digestor No. 1-3 (SD1-3)					
SD1-3 : Foundation and ELS					
SD1-3 : Sheetpiling, Kingpost, Monitoring and pumping					
Z3S3-5100	Sludge Digester No. 1-3 - Pumping test*assume reading taking during CNY	7	06-Feb-24 A	13-Feb-24 A	
Z3S3-6160	Sludge Digester No. 1-3 - Additional grouting for BH1 settlement control	14	19-Feb-24 A	27-Feb-24 A	
SD1-3 : Excavation and Strut Installation					
SD1-3 : ELS					
Z3S3-2110	Sludge Digester No. 1-3 - ELS Excavation (+5.0 to +4.3mPD, 4168m3 @ 1000m3/d)	5	20-Feb-24 A	08-Mar-24 A	
Z3S3-2140	Sludge Digester No. 1-3 - Strut Installation S1 (+4.8mPD)	7	09-Mar-24 A	03-Apr-24	-205
Z3S3-2150	Sludge Digester No. 1-3 - ELS Excavation (+4.3 to +1.8mPD, 6130m3 @ 1000m3/d)	6	05-Apr-24	11-Apr-24	-205
Z3S3-2190	Sludge Digester No. 1-3 - Strut Installation S2 (+2.3mPD)	7	09-Apr-24	16-Apr-24	-205
Z3S3-5730	Sludge Digester No. 1-3 - Preloading Strut S2 (+2.3mPD)(4 cycle, 5 struts/cycle/day, 16 struts)	4	17-Apr-24	20-Apr-24	-205
Z3S3-2200	Sludge Digester No. 1-3 - ELS Excavation (+1.8 to -0.7mPD, 6130m3 @ 1000m3/d) *MD	6	22-Apr-24	27-Apr-24	-205
Z3S3-2210	Sludge Digester No. 1-3 - Strut Installation S3 (-0.2mPD)	7	25-Apr-24	03-May-24	-205
Z3S3-5740	Sludge Digester No. 1-3 - Preloading Strut S3 (-0.2mPD)(4 cycle, 5 struts/cycle/day, 16 struts)	4	04-May-24	08-May-24	-205
Z3S3-2220	Sludge Digester No. 1-3 - ELS Excavation (-0.7 to -3.2mPD, 6130m3 @ 1000m3/d) *MD	6	09-May-24	16-May-24	-205
Z3S3-2230	Sludge Digester No. 1-3 - Strut Installation S4 (-2.7mPD)	7	13-May-24	21-May-24	-205
Z3S3-5750	Sludge Digester No. 1-3 - Preloading Strut S4 (-2.7mPD)(4 cycle, 5 struts/cycle/day, 16 struts)	4	22-May-24	25-May-24	-205
Z3S3-2240	Sludge Digester No. 1-3 - ELS Excavation (-3.2 to -5.5mPD, 5640m3 @ 1000m3/d)	6	27-May-24	01-Jun-24	-205
Z3S3-3600	Sludge Digester No. 1-3 - Strut Installation S5 (-5.0mPD)	7	30-May-24	06-Jun-24	-205
Z3S3-5760	Sludge Digester No. 1-3 - Preloading Strut S5 (-5.0mPD)(4 cycle, 5 struts/cycle/day, 16 struts)	4	07-Jun-24	12-Jun-24	-205
Z3S3-3610	Sludge Digester No. 1-3 - ELS Excavation (-5.5 to -7.5mPD, 4904m3 @ 1000m3/d)	5	13-Jun-24	18-Jun-24	-205
Z3S3-3620	Sludge Digester No. 1-3 - Strut Installation S6 (-7mPD)	7	17-Jun-24	24-Jun-24	-205
Z3S3-5770	Sludge Digester No. 1-3 - Preloading Strut S6 (-7mPD)(4 cycle, 5 struts/cycle/day, 16 struts)	4	25-Jun-24	28-Jun-24	-205
Z3S3-3630	Sludge Digester No. 1-3 - ELS Excavation (-7.5 to -9.0mPD, 3678m3 @ 1000m3/d)	6	29-Jun-24	06-Jul-24	-205
Biogas Holder No. 1 (BH1)					
BH1 : E&M Installation					
ATALZ3BH-2455	BH No.1 - Jack installation	14	29-Feb-24 A	15-Mar-24 A	
ATALZ3BH-2465	BH No.1 - Tank wall (2nd to 3rd Ring) and tank mounting ring constuction and welding	32	16-Mar-24 A	27-Apr-24	-88
ATALZ3BH-2475	BH No.1 - Tank wall (4th to 5th Ring) constuction and welding	32	29-Apr-24	06-Jun-24	-88
ATALZ3BH-1010	BH No.1 - Installation of pipework and instrumentation in Biogas Holder Valve Chamber No.4	52	07-Jun-24	08-Aug-24	-82
ATALZ3BH-1020	BH No.1 - Instrumentation	30	07-Jun-24	13-Jul-24	-70
ATALZ3BH-1030	BH No.1 - Installation of Biogas Booster Pump No.1 & 2	30	07-Jun-24	13-Jul-24	-70
ATALZ3BH-1040	BH No.1 - Electrical works (Cable wiring, termination, lightning arrestor)(To alt. power source until LVSB@STB energiz)	18	07-Jun-24	28-Jun-24	-58
ATALZ3BH-2485	BH No.1 - Disk assembly inside tank, raise disk, painting on both side	18	07-Jun-24	28-Jun-24	-88
ATALZ3BH-2495	BH No.1 - Membrane fixing and wooden planks Installation	21	29-Jun-24	24-Jul-24	-88
BH1 : Diversion Works					
Z3S7-2060	BH No.1 - Temporary system and associated pipeworks for switchover to new BH1 for decomission of GH2	90	22-Apr-24	08-Aug-24	-82
Utility Corridor and Pipe Portal (UC/PP)					
Utility Corridor No.1 (UC1)					
UC1 : Predrilling Works					
Z3SSUC1-2180	UC/PP - Predrill UC&PP-PD2	6	02-Apr-24	09-Apr-24	-86
Z3SSUC1-2200	UC/PP - Predrill UC&PP-PD6	6	10-Apr-24	16-Apr-24	-86



Remaining Level of Ef...
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PAUL Y.-CREC JOINT VENTURE

Contract DC/2019/10 - YLEPP - Main Works for Stage 1
Monthly Progress Report No. 41- 3MRP (Mar 24)

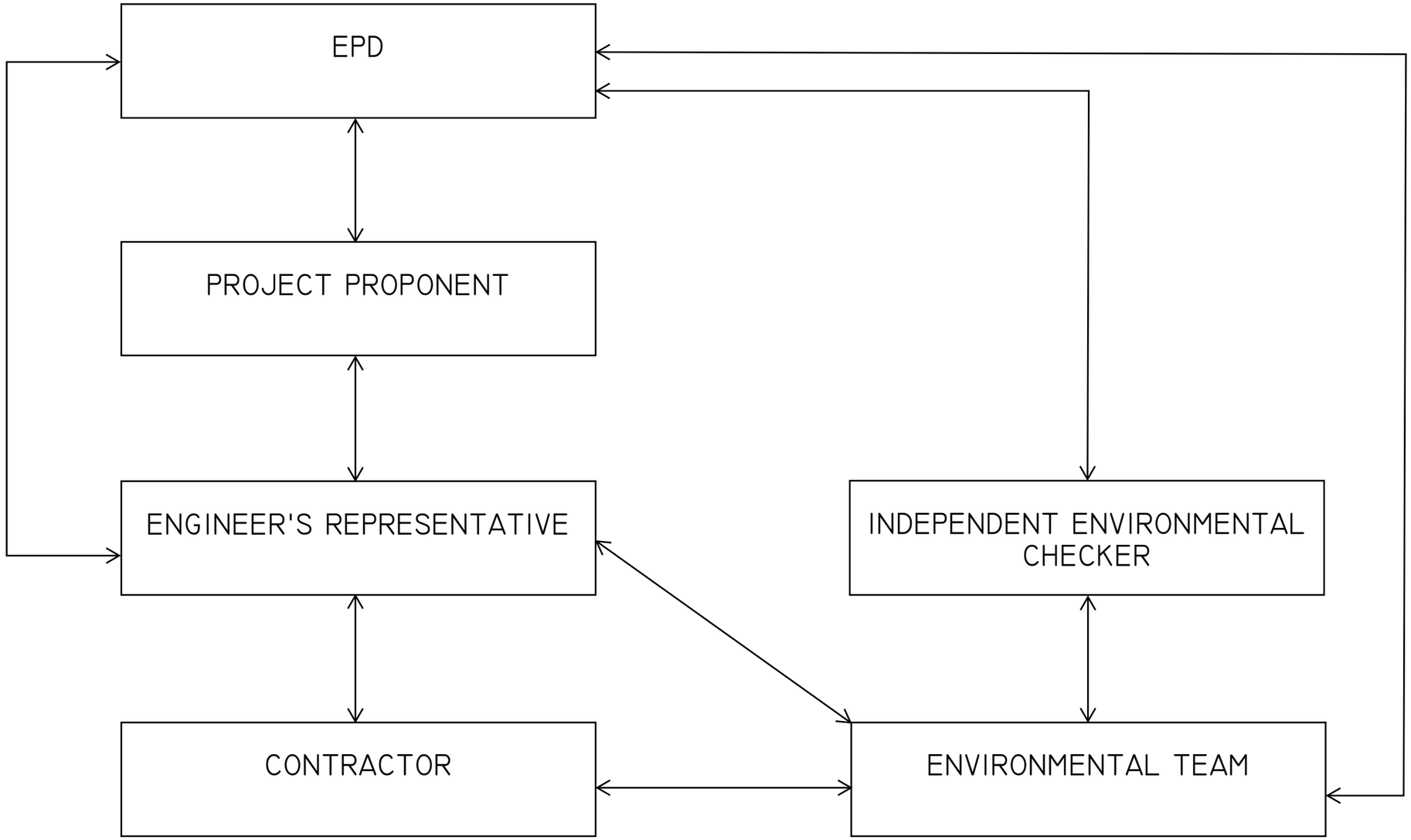
Project ID : DWPr36_240416
Layout : DC201910 MPR41-3MRP

Monthly Progress Report - 3MRP			
Date	Revision	Checked	Approved
31-Mar-24	Rev. 0		

Appendix B
Project Organization Chart

LEGEND:

LINE OF COMMUNICATION



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

Plot File by: Chanws 5/28/2018
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AECOM

PROJECT
項目

YUEN LONG EFFLUENT POLISHING PLANT - INVESTIGATION, DESIGN AND CONSTRUCTION

CLIENT
業主

渠務署
Drainage Services Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

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

STATUS
階段

SCALE
比例

A3 1 : 40000

DIMENSION UNIT
尺寸單位

METRES

KEY PLAN
索引圖

PROJECT NO.
項目編號

60505476

CONTRACT NO.
合約編號

CE 3/2015 (DS)

SHEET TITLE
圖紙名稱

PROJECT ORGANISATION

SHEET NUMBER
圖紙編號

Appendix C
Action and Limit Levels

Action and Limit Levels for Air Quality

Parameters	Action Level	Limit Level
1-hour TSP Level in µg/m^3	[1]For baseline level ⩽ 384 µg/m^3, Action level = (baseline level * 1.3 + Limit level)/2; For baseline level > 384 µg/m^3, Action level = Limit level	500 µg/m^3

Notes:
1. The Action Level for 1-hour TSP Level:
a) AM1 = (63*1.3 + 500) / 2 = 291 µg/m^3;
b) AM2 = (70*1.3 + 500) / 2 = 296 µg/m^3.

Action and Limit Levels for Construction Noise

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

Notes:
1. If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.
2. Correction of +3 dB(A) shall be made to the free field measurements.

Action and Limit Levels for Water Quality

Parameters	Action Levels	Limit Levels
Construction Phase Water Quality Monitoring		
DO in mg/L (Surface, Middle & Bottom) [2]	Surface & Middle 5%-ile of baseline data for surface and middle layer. Bottom 5%-ile of baseline data for bottom layer.	Surface & Middle 4 mg/L or 1%-ile of baseline data for surface and middle layer. Bottom 2 mg/L or 1%-ile of baseline data for bottom layer.
SS in mg/L (depth-averaged [1]) [3]	95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day	99%-ile of baseline data or 130% of upstream control station's SS recorded on the same day
Turbidity in NTU (depth-averaged [1]) [3]	95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day	99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day

Notes:
1. "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths;
2. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits;
3. For SS and turbidity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits

Action and Limit Levels for Ecology

Active Ardeid Night Roost Survey

As there are no specific guidelines on noise thresholds for roosting ardeids, the Action and Limit levels specified in below table were based on study conducted on exploring behavioural responses of shorebirds to impulsive noise (Wright et al. 2010).

Time Period	Action Level	Limit Level
after 17:30 during dry season after 18:00 during wet season	65.5 dB(A)[1]	72.2 dB(A)[2]

Notes:
1. Behavioural response of some kind more likely to occur
2. Flight with abandonment of the site becomes the most likely outcome of the disturbance

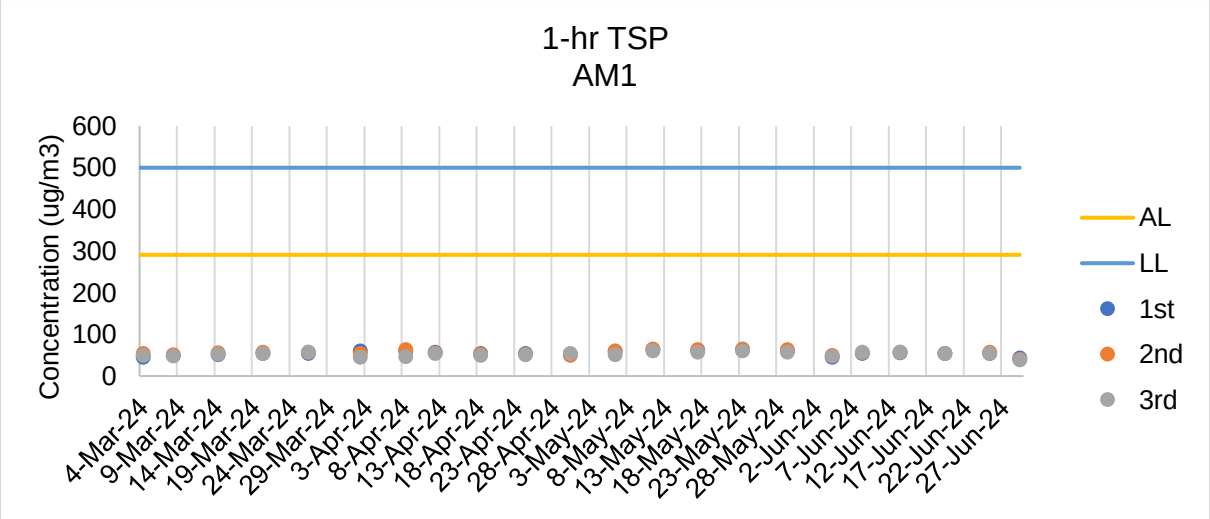
Ecological Monitoring of Birds

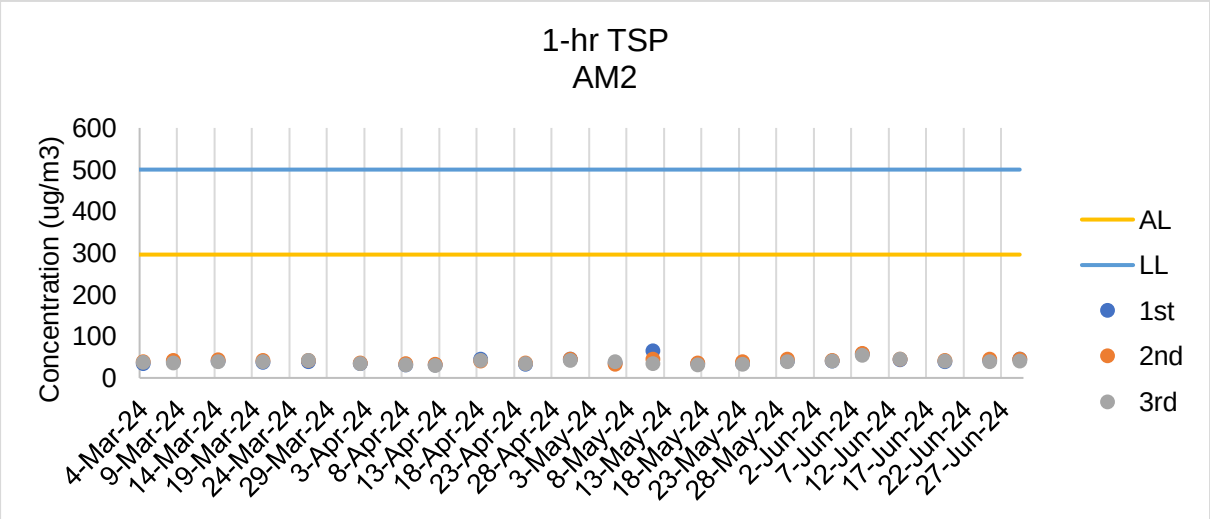
Method	Parameters	Action Level[3]	Limit Level[3]
Transect	Abundance of all avifauna species (including but not only limited to overwintering waterbirds) in the community	Significant decline[1,2] in any of these parameters during the current monitoring month relative to the corresponding month during the baseline survey.	Significant decline in any of these parameters for three consecutive months.
	Species diversity of all avifauna species (including but not only limited to overwintering waterbirds) in the community		
	Abundance of species with conservation importance only		
	Species diversity of species with conservation importance only		
Point Count	Abundance of all avifauna species (including but not only limited to overwintering waterbirds) in the community		
	Species diversity of all avifauna species (including but not only limited to overwintering waterbirds) in the community		
	Abundance of species with conservation importance only		
	Species diversity of species with conservation importance only		

Notes:
1. Significant decline in abundance will be determined using two-tailed t-test, $\alpha = 0.05$.
2. Significant decline in species diversity will be determined using the Hutcheson t-test, two tailed.
3. Response will be triggered if any of the above level is reached for each parameter

Appendix D
Graphical Presentation of Monitoring Data

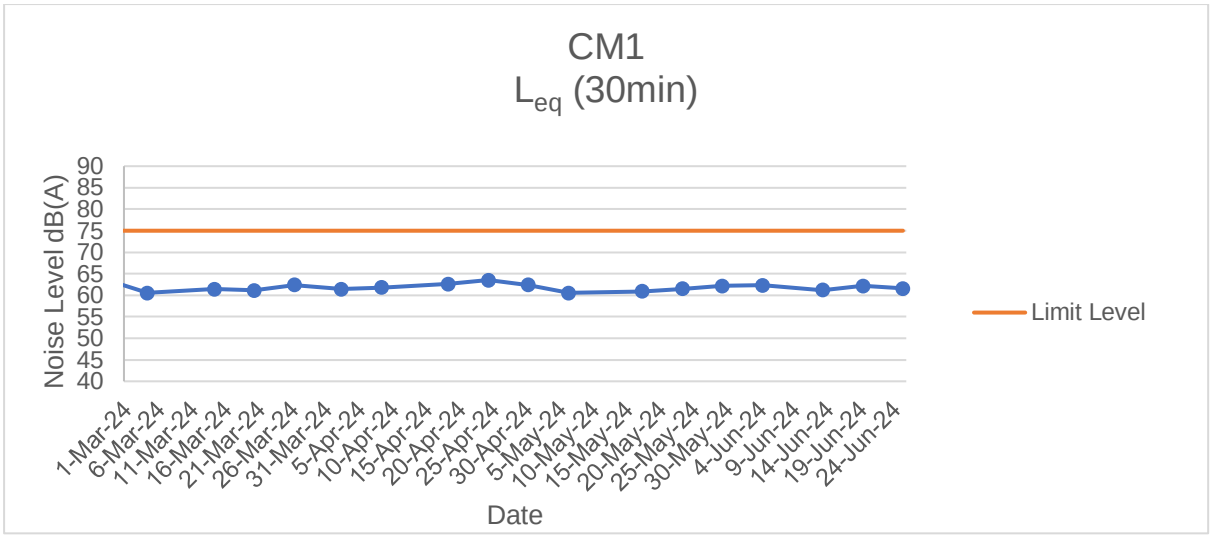
Air Quality Monitoring Results

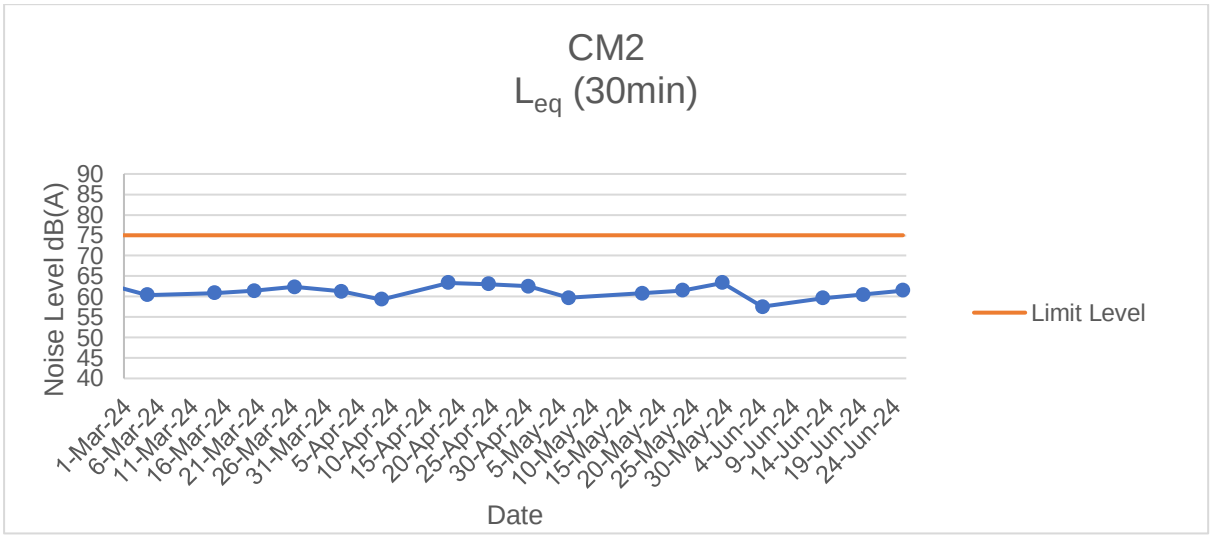


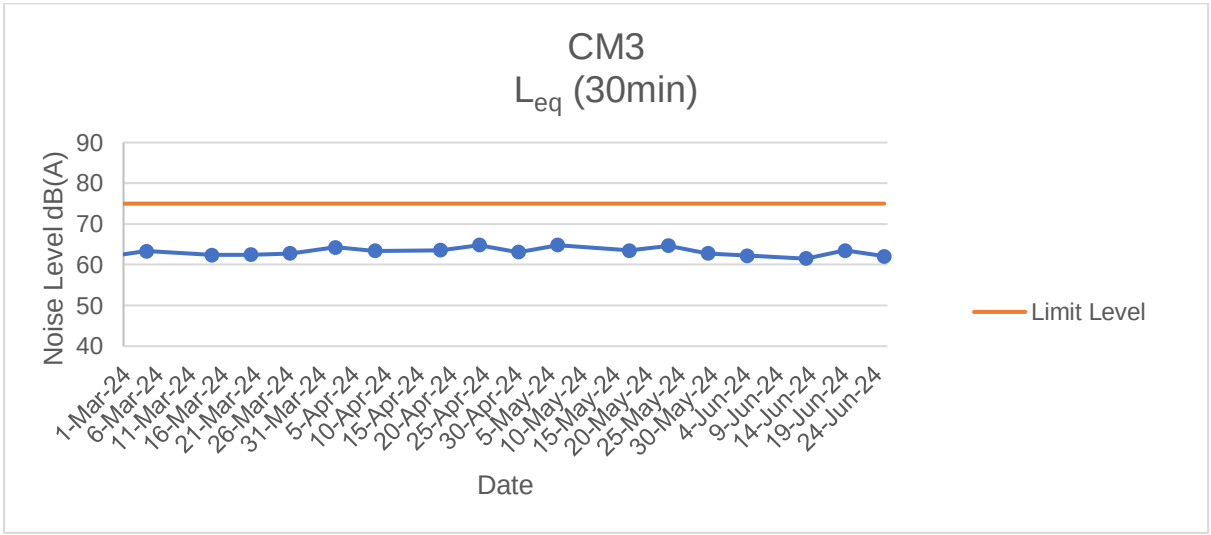


Air Quality Monitoring Results

Noise Monitoring Results

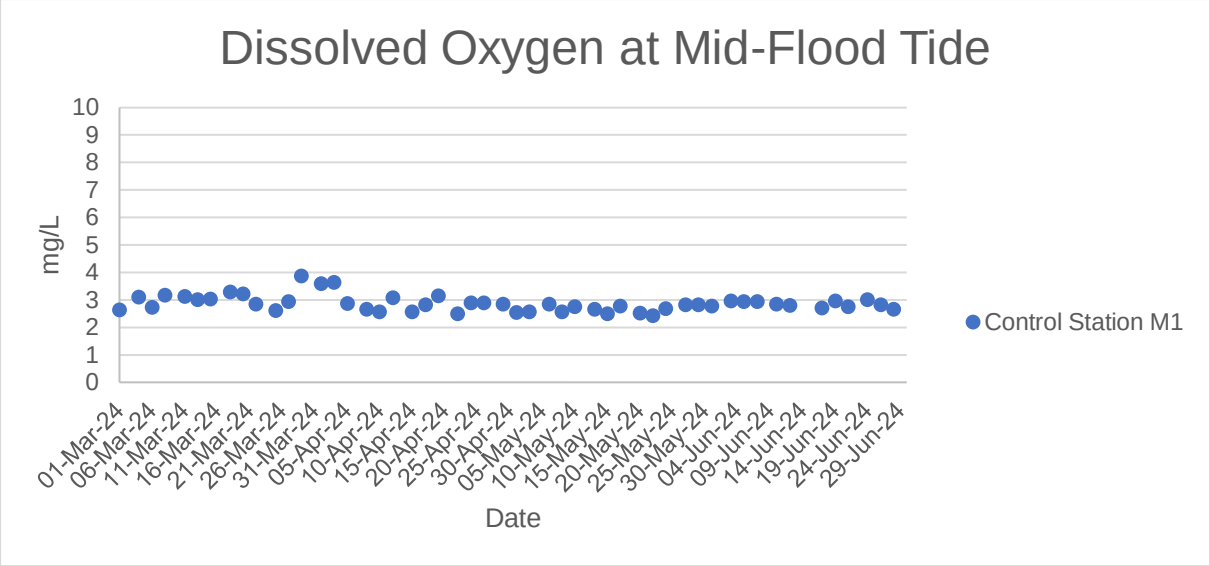


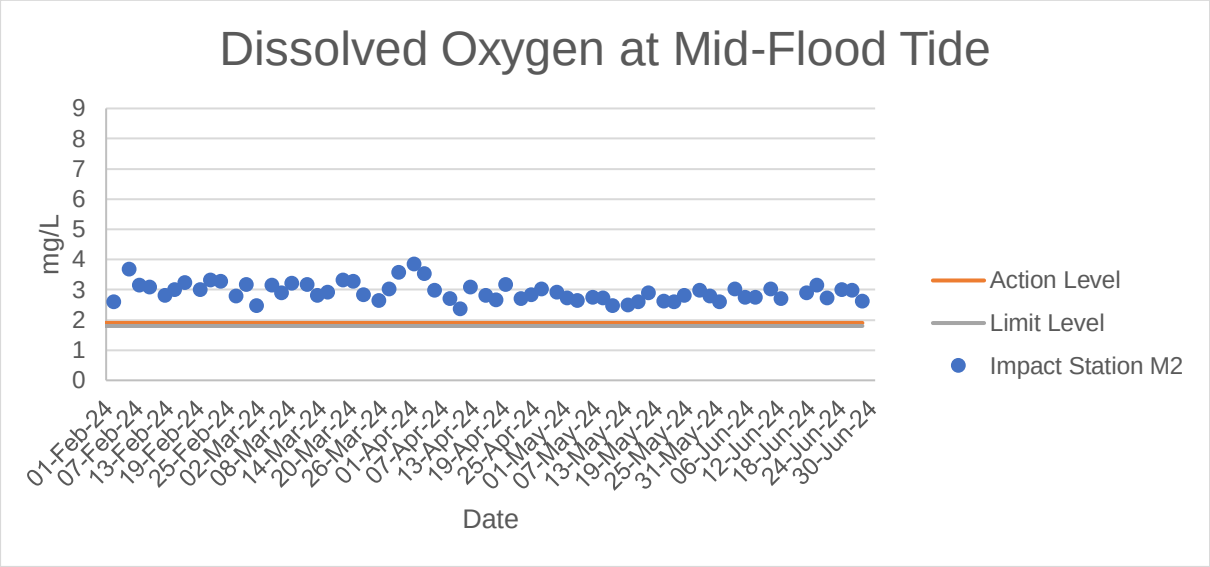


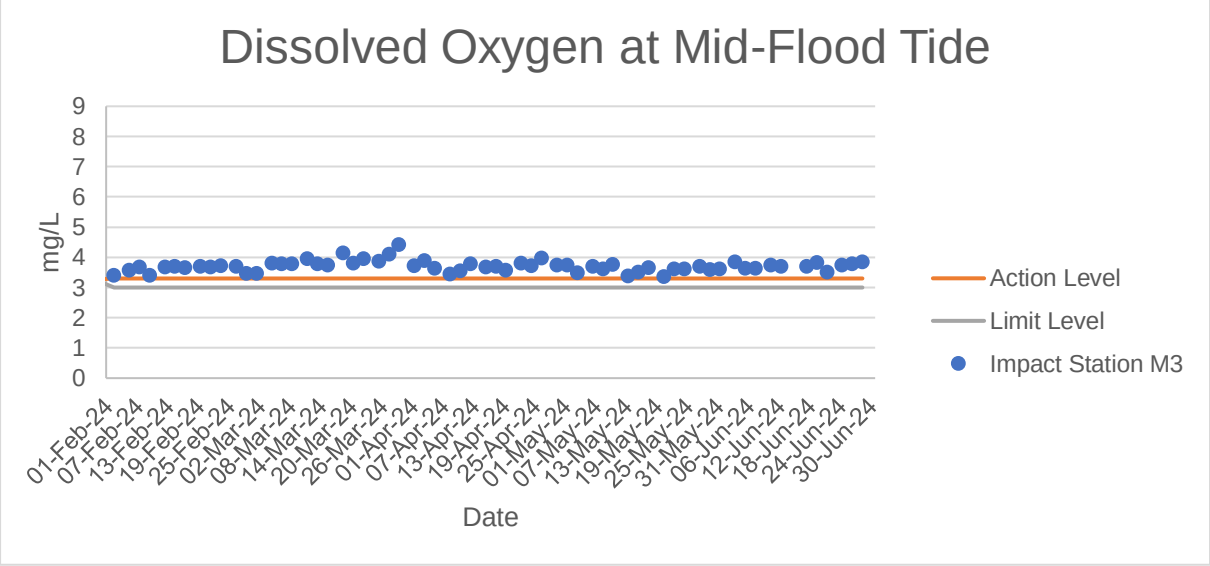


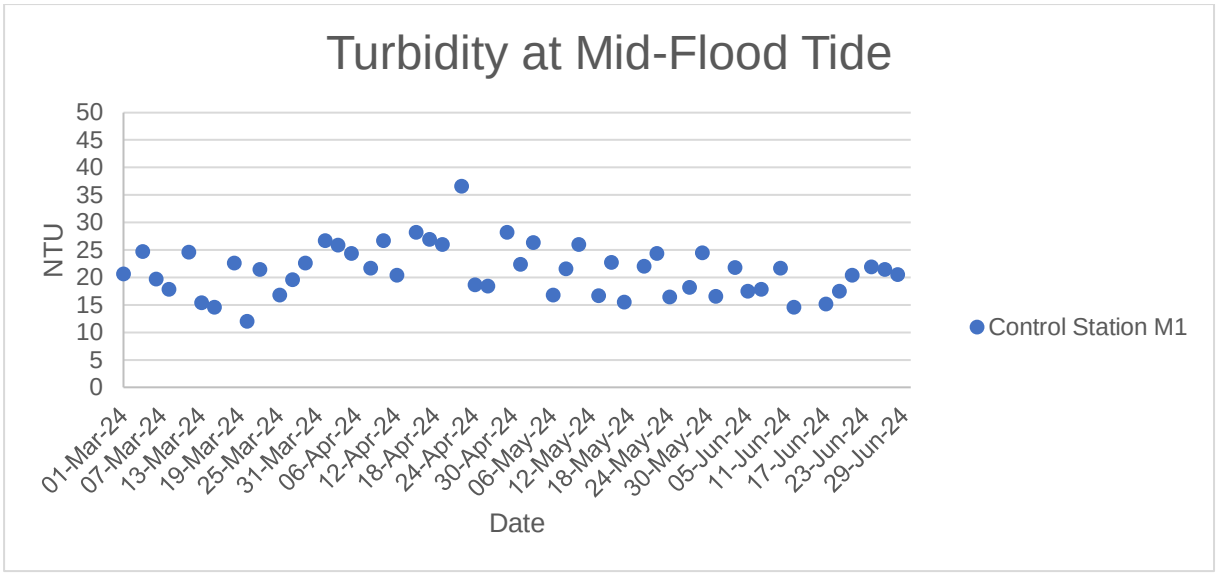
Noise Monitoring Results

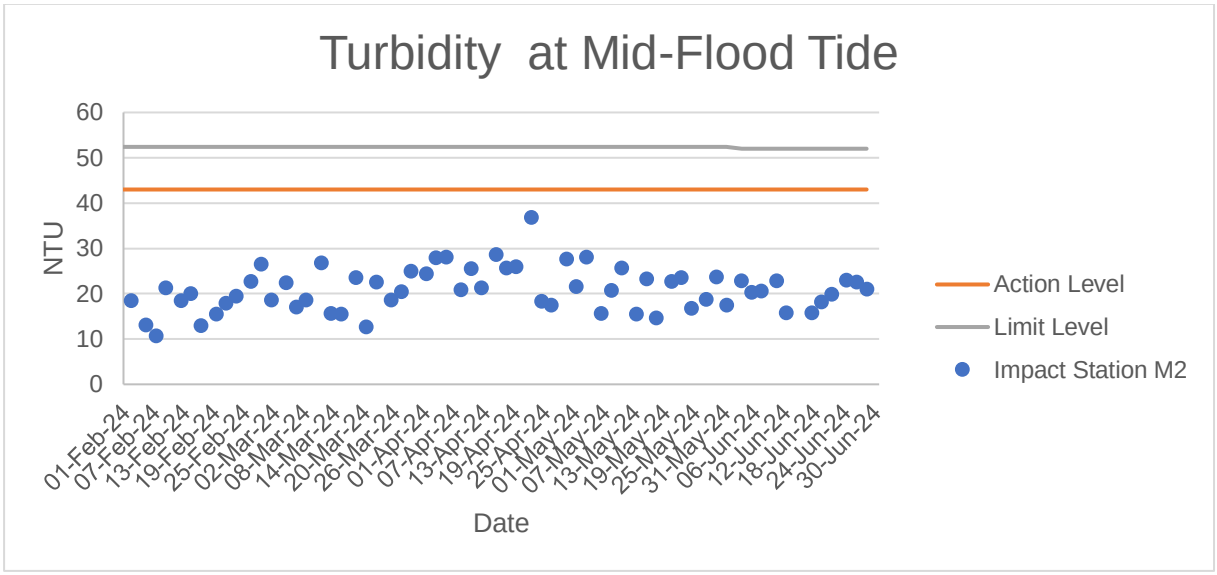
Water Quality Monitoring Results

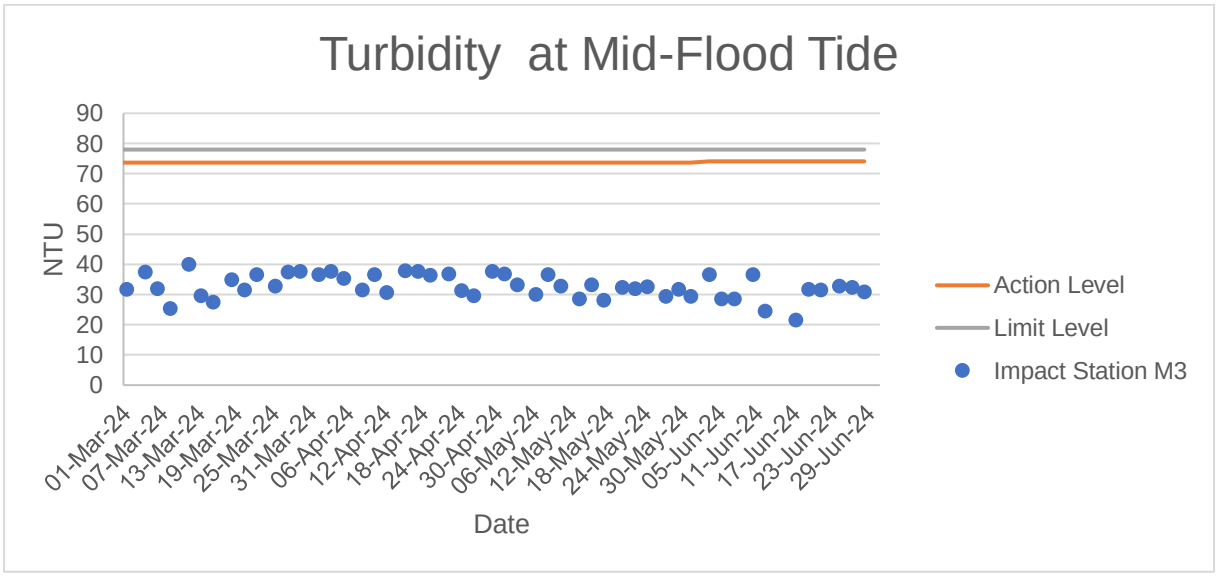

Dissolved Oxygen at Mid-Flood Tide
mg/L
Date
Control Station M1

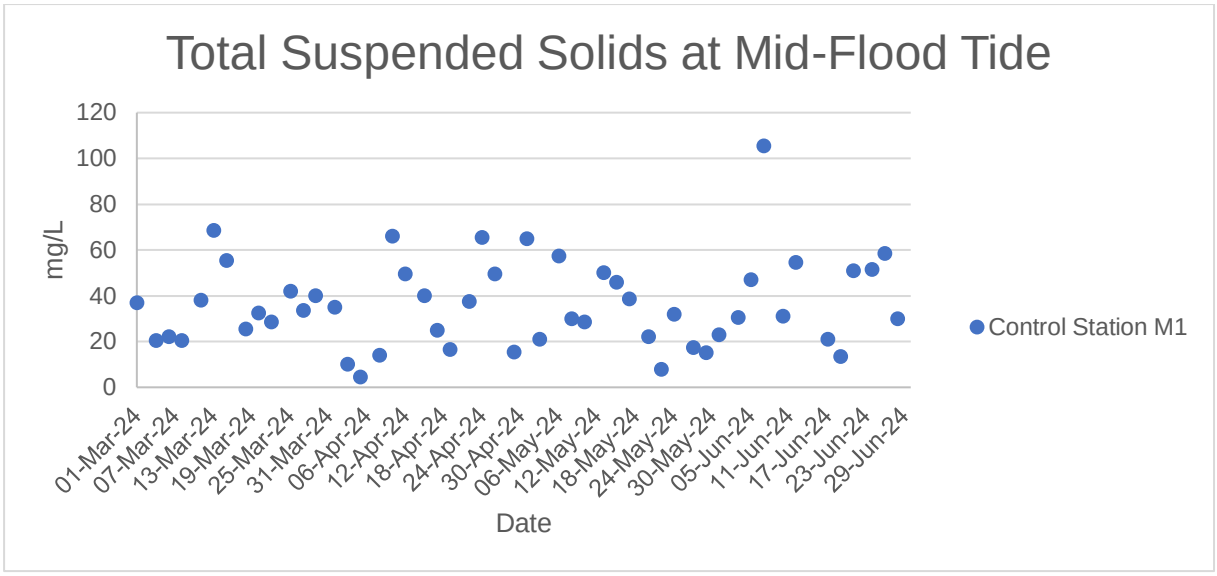

Dissolved Oxygen at Mid-Flood Tide
mg/L
Date
Action Level
Limit Level
Impact Station M2


Dissolved Oxygen at Mid-Flood Tide
mg/L
Date
Action Level
Limit Level
Impact Station M3


Turbidity at Mid-Flood Tide
NTU
Date
Control Station M1


Turbidity at Mid-Flood Tide
NTU
Date
Action Level
Limit Level
Impact Station M2


Turbidity at Mid-Flood Tide
NTU
Date
Action Level
Limit Level
Impact Station M3


Total Suspended Solids at Mid-Flood Tide
mg/L
120
100
80
60
40
20
0
01-Mar-24
07-Mar-24
13-Mar-24
19-Mar-24
25-Mar-24
31-Mar-24
06-Apr-24
12-Apr-24
18-Apr-24
24-Apr-24
30-Apr-24
06-May-24
12-May-24
18-May-24
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05-Jun-24
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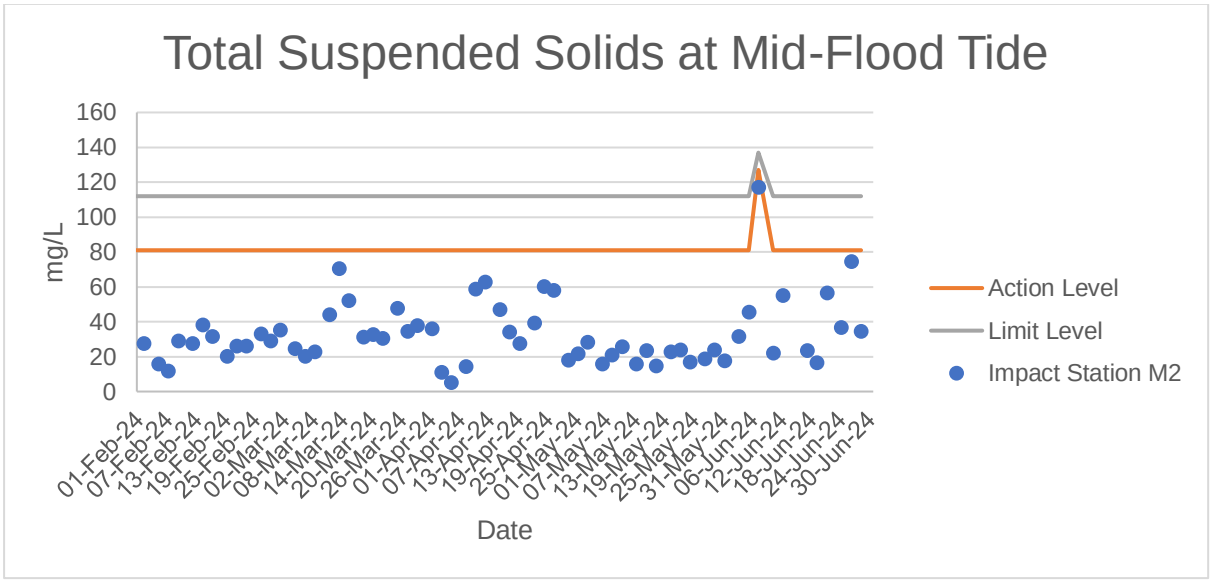
17-Jun-24
23-Jun-24
29-Jun-24
Date
Control Station M1


Total Suspended Solids at Mid-Flood Tide
mg/L
160
140
120
100
80
60
40
20
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07-Feb-24
13-Feb-24
19-Feb-24
25-Feb-24
02-Mar-24
08-Mar-24
14-Mar-24
20-Mar-24
26-Mar-24
01-Apr-24
07-Apr-24
13-Apr-24
19-Apr-24
25-Apr-24
01-May-24
07-May-24
13-May-24
19-May-24
25-May-24
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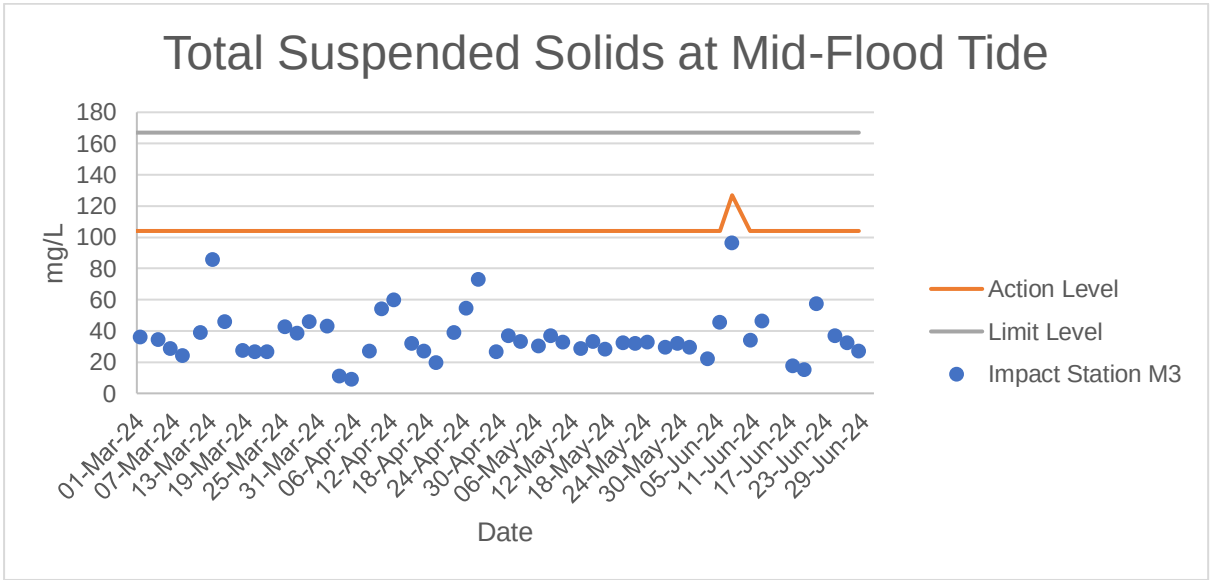
30-Jun-24
Date
Action Level
Limit Level
Impact Station M2


Total Suspended Solids at Mid-Flood Tide
mg/L
180
160
140
120
100
80
60
40
20
0
01-Mar-24
07-Mar-24
13-Mar-24
19-Mar-24
25-Mar-24
31-Mar-24
06-Apr-24
12-Apr-24
18-Apr-24
24-Apr-24
30-Apr-24
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12-May-24
18-May-24
24-May-24
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11-Jun-24
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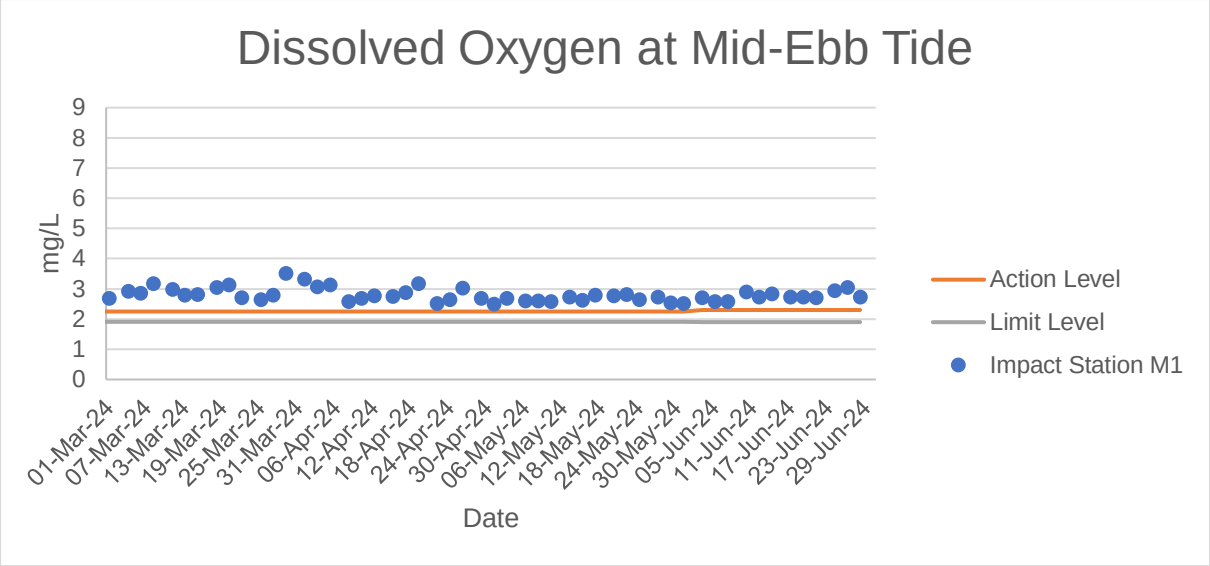
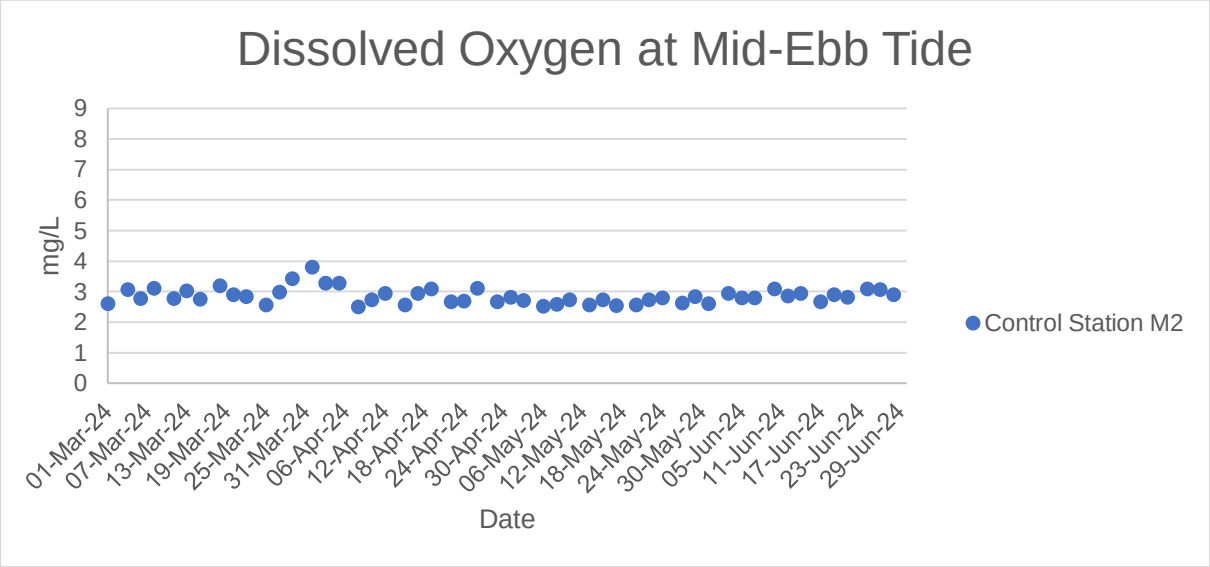
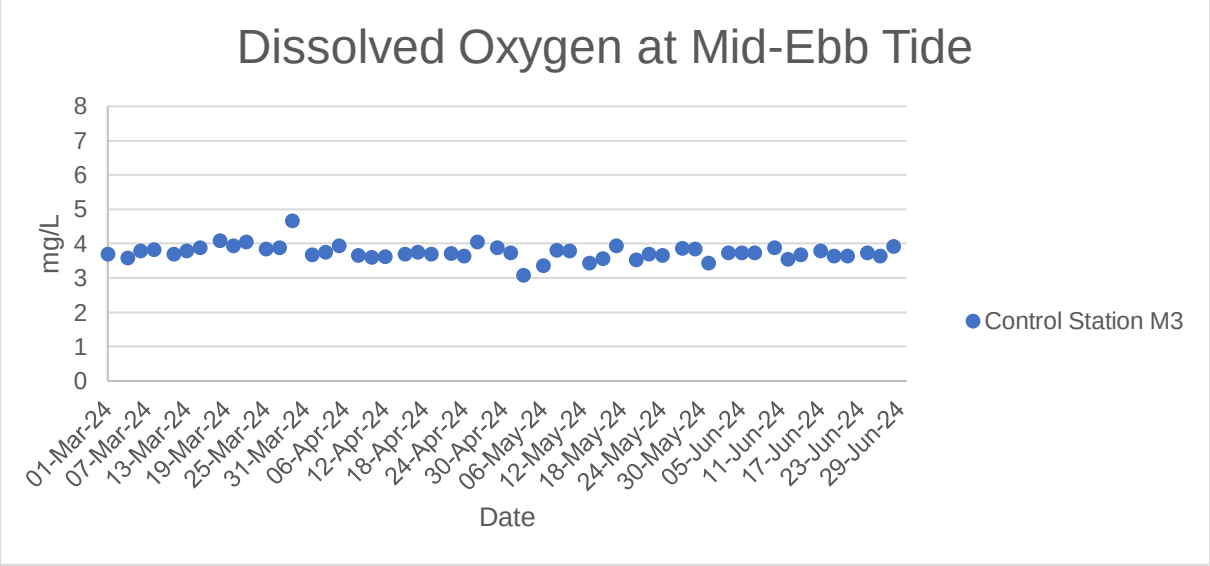
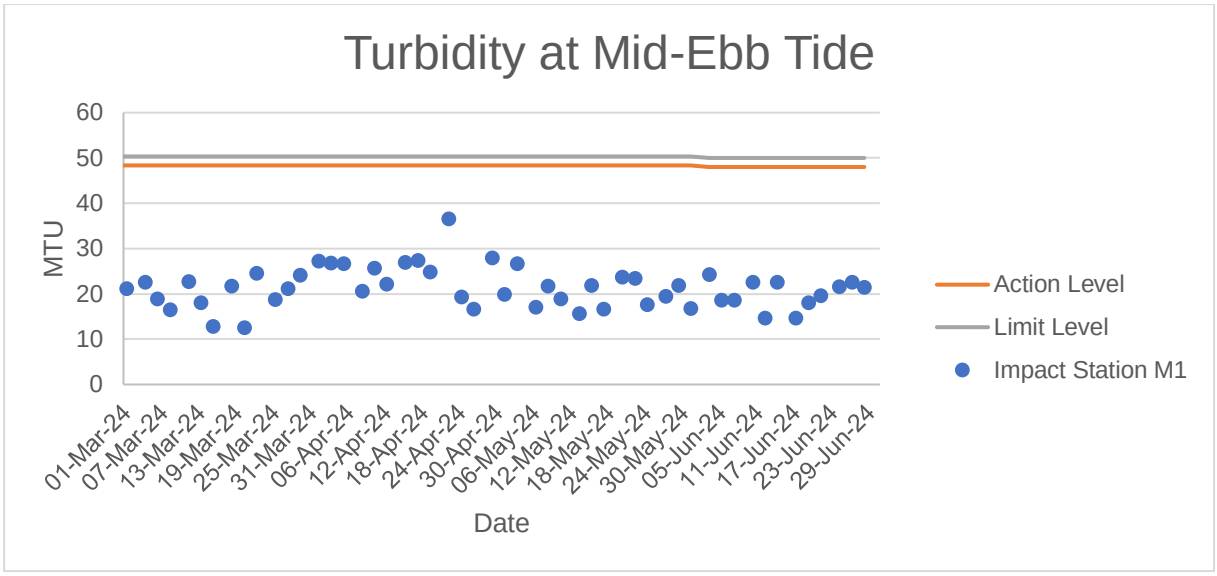
23-Jun-24
29-Jun-24
Date
Action Level
Limit Level
Impact Station M3

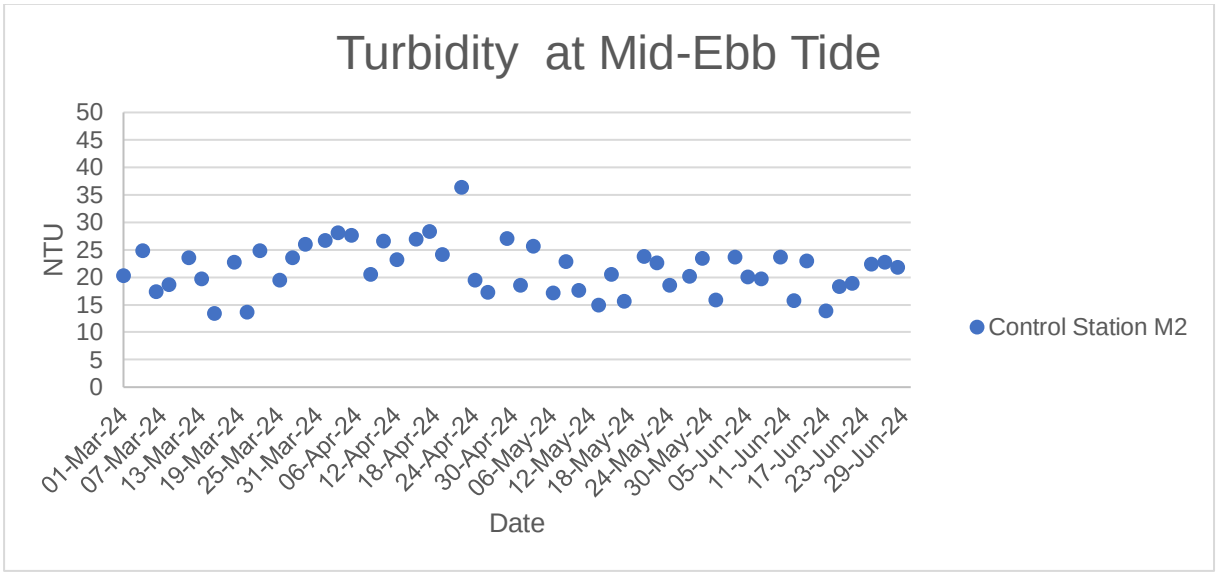


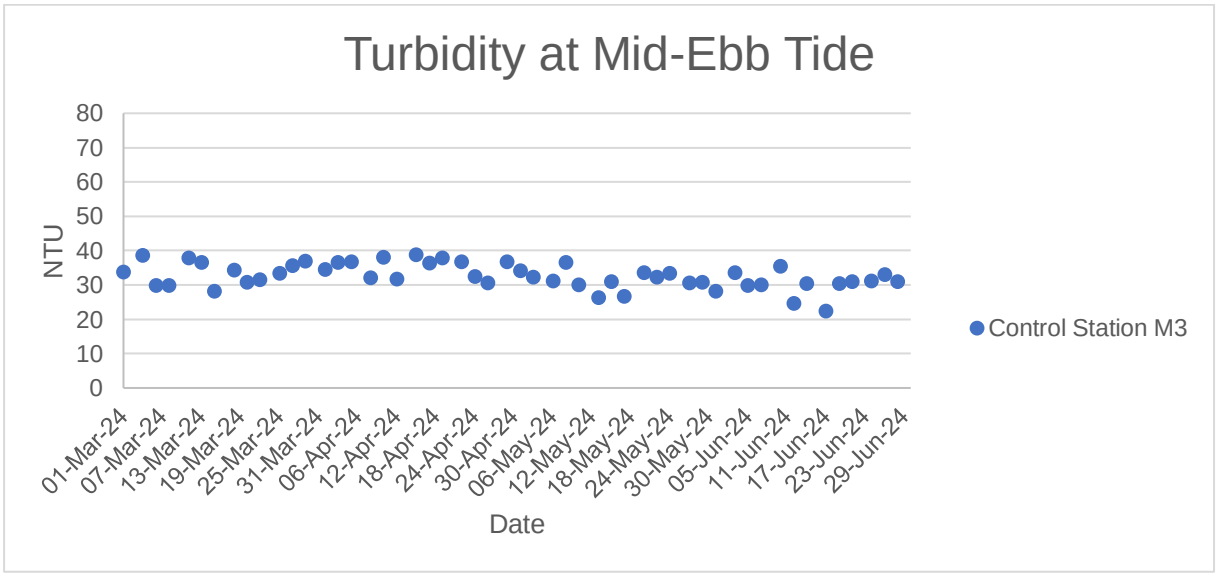




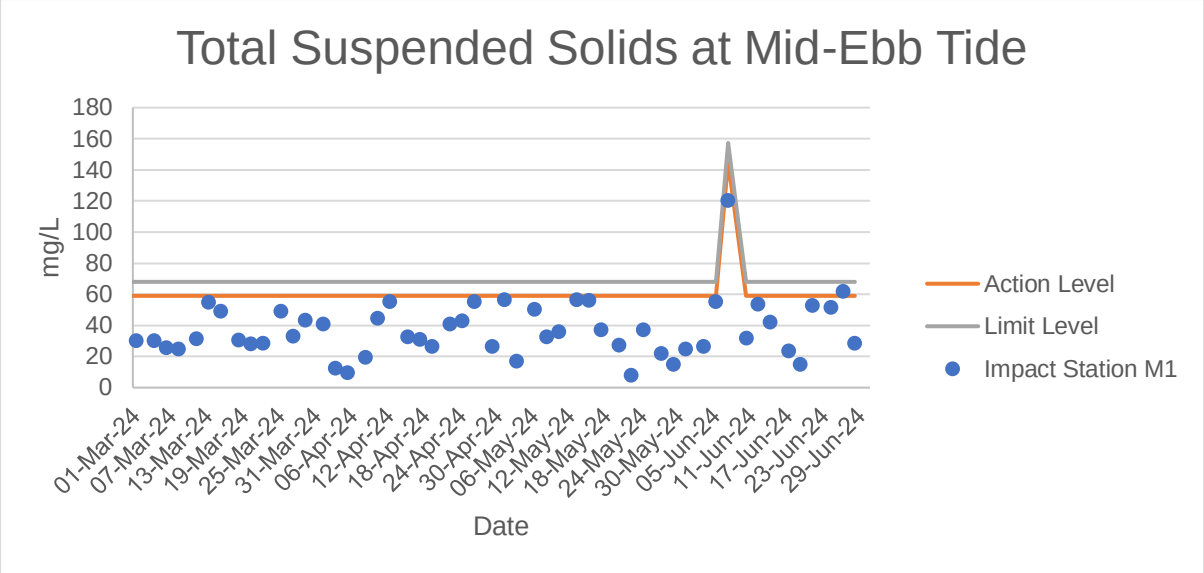
Water Quality Monitoring Results







Water Quality Monitoring Results


Total Suspended Solids at Mid-Ebb Tide
mg/L
180
160
140
120
100
80
60
40
20
0
01-Mar-24
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13-Mar-24
19-Mar-24
25-Mar-24
31-Mar-24
06-Apr-24
12-Apr-24
18-Apr-24
24-Apr-24
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06-May-24
12-May-24
18-May-24
24-May-24
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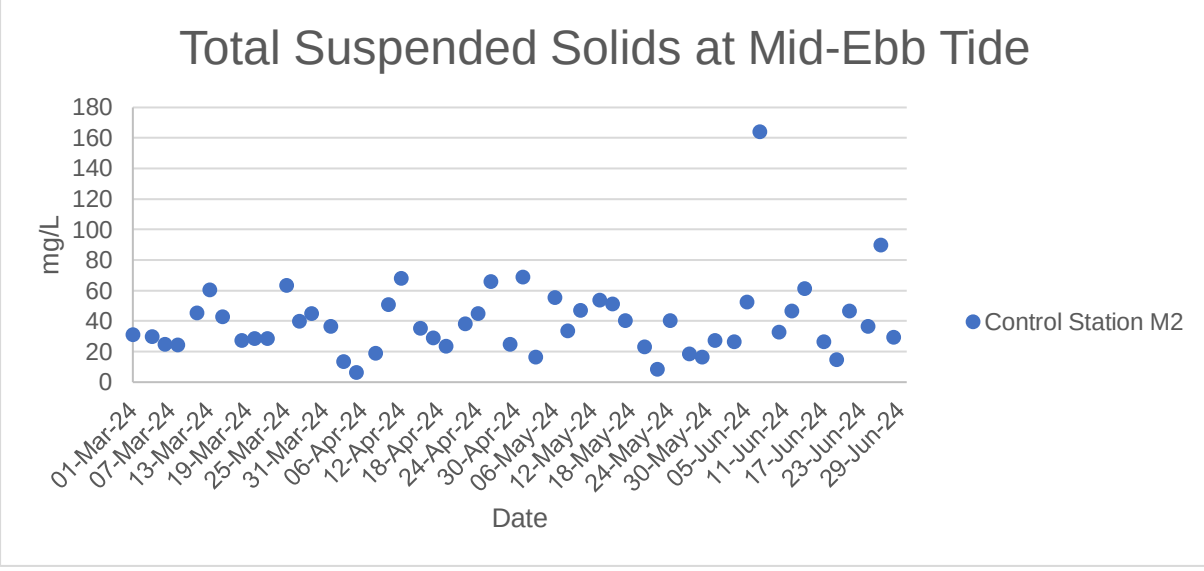
23-Jun-24
29-Jun-24
Date
Action Level
Limit Level
Impact Station M1


Total Suspended Solids at Mid-Ebb Tide
mg/L
180
160
140
120
100
80
60
40
20
0
01-Mar-24
07-Mar-24
13-Mar-24
19-Mar-24
25-Mar-24
31-Mar-24
06-Apr-24
12-Apr-24
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24-Apr-24
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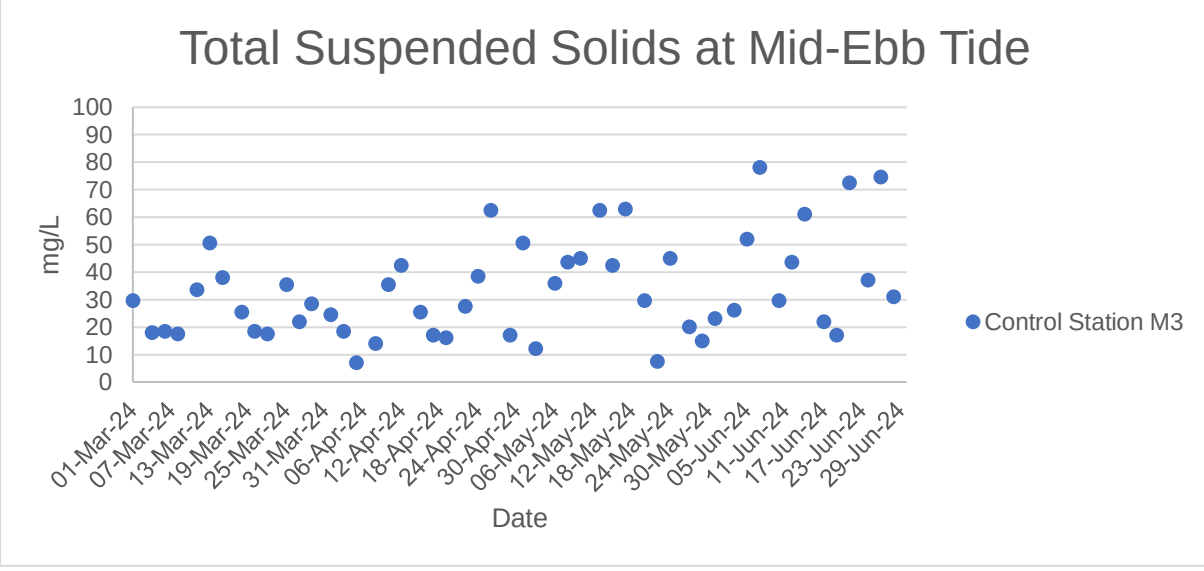
17-Jun-24
23-Jun-24
29-Jun-24
Date
Control Station M2


Total Suspended Solids at Mid-Ebb Tide
mg/L
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90
80
70
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50
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30
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01-Mar-24
07-Mar-24
13-Mar-24
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18-May-24
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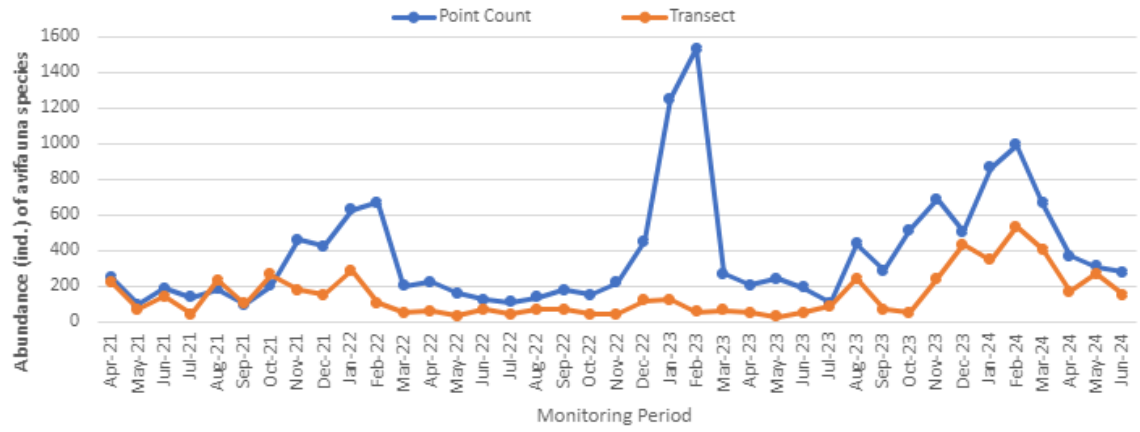
30-May-24
05-Jun-24
11-Jun-24
17-Jun-24
23-Jun-24
29-Jun-24
Date
Control Station M3

Ecology Monitoring Results for

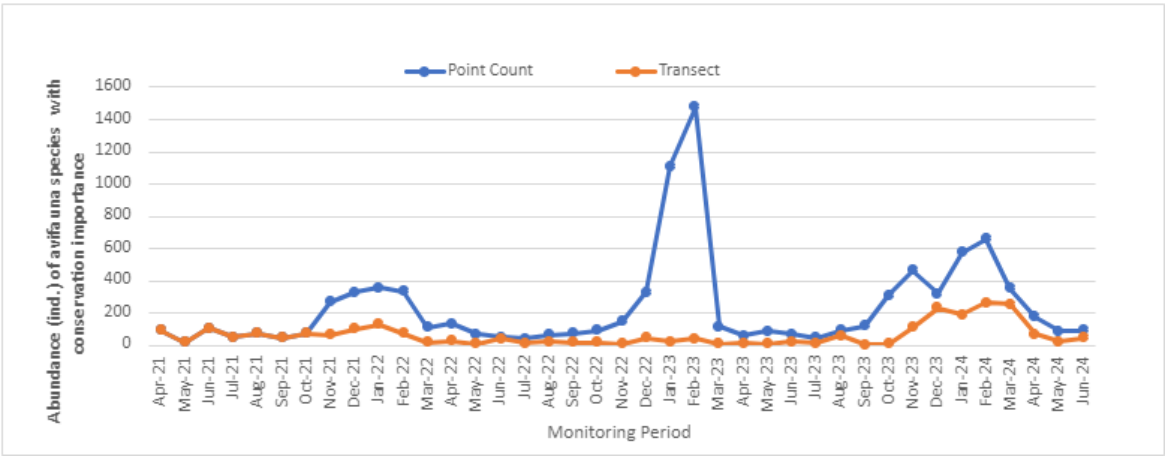
Contract No. SPW 02/2023

Environmental Team for Construction of Yuen long Effluent Polishing Plant Stage 1

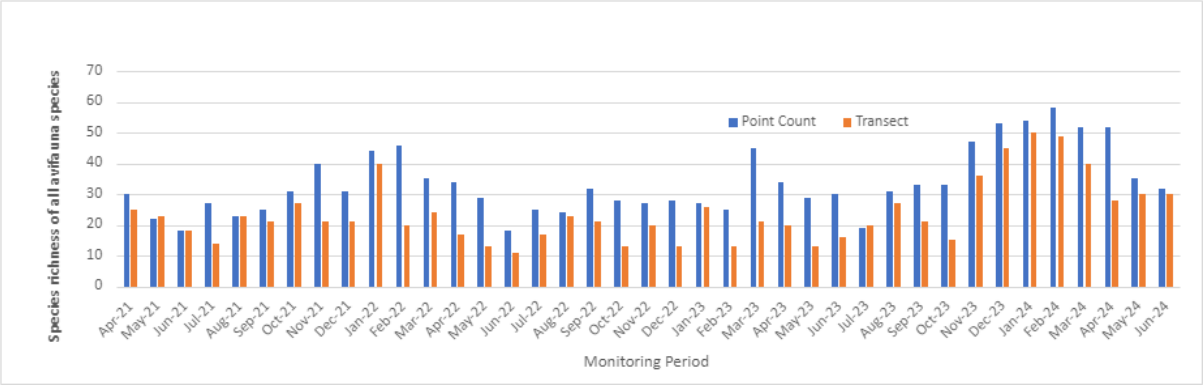
Abundance of all avifauna species throughout the monitoring period



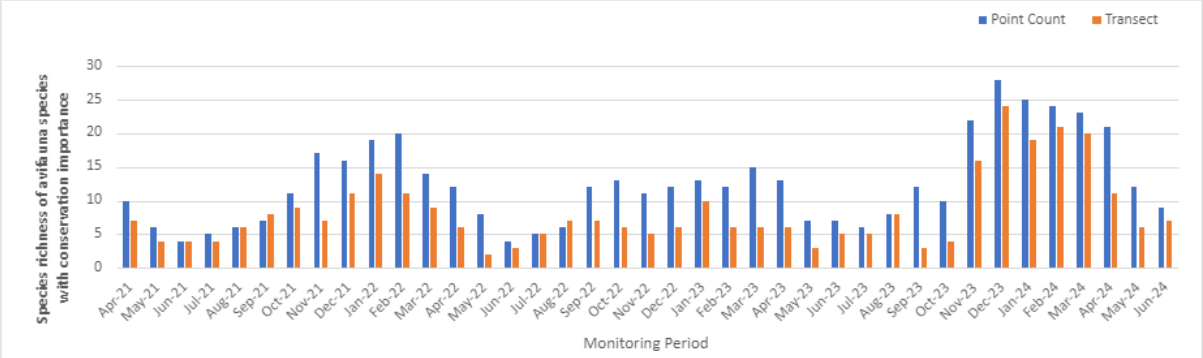
Abundance of avifauna species with conservation importance throughout the monitoring period



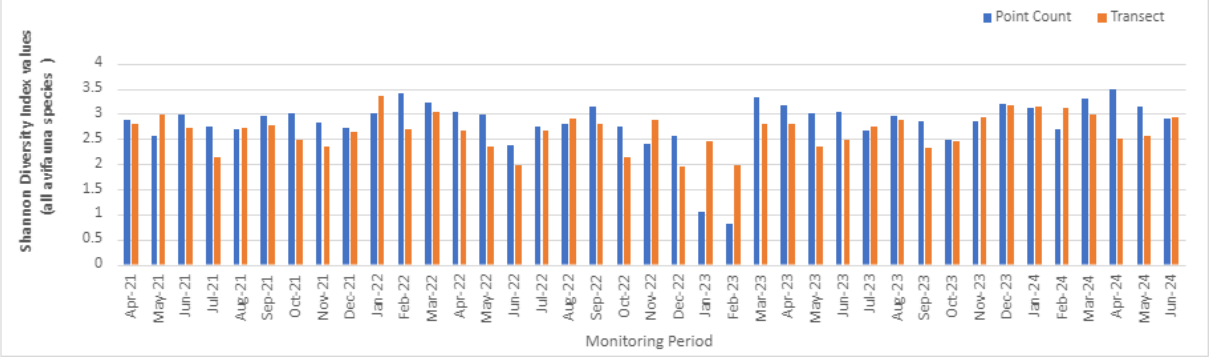
Species richness of all avifauna species throughout the monitoring period



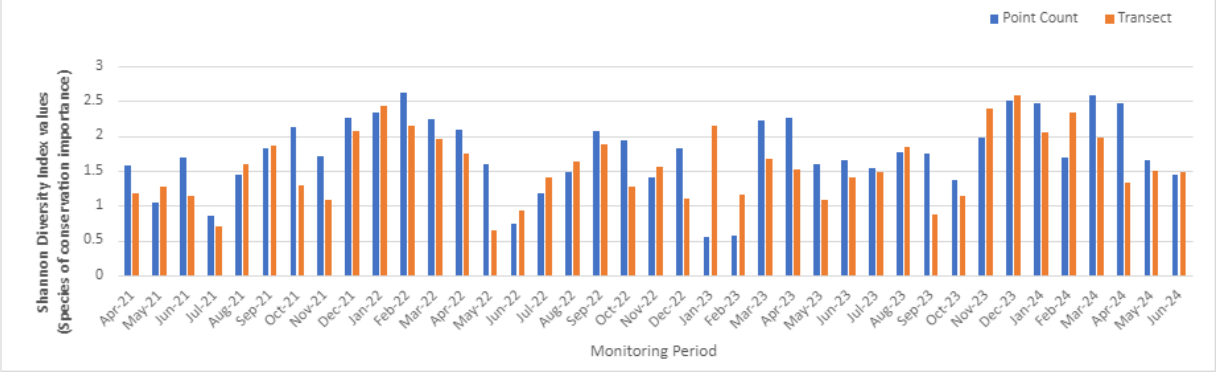
Species richness of avifauna species with conservation importance throughout the monitoring period



Shannon Diversity Index values of all avifauna species throughout the monitoring period



Shannon Diversity Index values of avifauna species with conservation importance throughout the monitoring period



Appendix E
Event and Action Plans

Event and Action Plan for Air Quality (Construction Dust)

Event	Action			
	ET	IEC	ER	Contractor
Action level being exceeded by	1. Identify source, investigate the causes of complaint and propose remedial measures; 2. Inform Contractor, IEC and ER; 3. Repeat measurement to confirm finding; and 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; and 3. Review and advise the ET and ER on the effectiveness of the proposed remedial measures.	1. Notify Contractor.	1. Identify source(s), investigate the causes of exceedance and propose remedial measures; 2. Implement remedial measures; and 3. Amend working methods agreed with the ER as appropriate.
Action level being exceeded by two or more consecutive sampling	1. Identify source; 2. Inform Contractor, IEC and ER; 3. Advise the Contractor and ER on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with Contractor, IEC and ER; and 8. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET, ER and Contractor on possible remedial measures; 4. Advise the ET and ER on the effectiveness of the proposed remedial measures; and 5. Supervise Implementation of remedial measures.	1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Identify source and investigate the causes of exceedance; 2. Submit proposals for remedial measures to the ER with a copy to ET and IEC within three working days of notification; 3. Implement the agreed proposals; and 4. Amend proposal as appropriate.
Limit level being exceeded by one sampling	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform Contractor, IEC, ER, and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; and 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; and 5. Supervise implementation of remedial measures.	1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Identify source(s) and investigate the causes of exceedance; 2. Take immediate action to avoid further exceedance; 3. Submit proposals for remedial measures to ER with a copy to ET and IEC within three working days of notification; 4. Implement the agreed proposals; and 5. Amend proposal if appropriate.
Limit level being exceeded by two or more consecutive sampling	1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; and 8. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by the ET; 2. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 3. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; and 4. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of exceedance in writing; 2. In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented; 3. Supervise the implementation of remedial measures; and 4. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1. Identify source(s) and investigate the causes of exceedance; 2. Take immediate action to avoid further exceedance; 3. Submit proposals for remedial measures to the ER with a copy to the IEC and ET within three working days of notification; 4. Implement the agreed proposals; 5. Revise and resubmit proposals if problem still not under control; and 6. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Event and Action Plan for Noise (Construction)

Event	Action			
	ET	**IEC**	**ER**	**Contractor**
Action Level	1. Notify IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, ER and Contractor; 4. Discuss with the Contractor and formulate remedial measures; and 5. Increase monitoring frequency to check mitigation effectiveness.	1. Review the analyzed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; and 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analyzed noise problem; and 4. Ensure remedial measures are properly implemented.	1. Submit noise mitigation proposals to IEC; and 2. Implement noise mitigation proposals.
Limit Level	1. Identify source; 2. Inform IEC, ER, EPD and Contractor; 3. Repeat measurements to confirm findings; 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IEC, ER and EPD the causes and actions taken for the exceedances; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; and 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; and 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analyzed noise problem; 4. Ensure remedial measures properly implemented; and 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; and 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Event and Action Plan for Water Quality Monitoring

Event	Action			
	ET	IEC	ER	Contractor
Action level being exceeded by one sampling	1. Repeat in situ measurement on the next day of exceedance to confirm findings; 2. Check monitoring data, plant, equipment and Contractor(s)'s working methods; 3. Identify source(s) of impact and record in notification of exceedance; 4. Inform IEC, Contractor(s) and ER	1. Check monitoring data submitted by ET and Contractor(s)'s working methods; 2. Inform EPD and AFCD.	1. Confirm receipt of notification of exceedance in writing	1. Confirm receipt of notification of exceedance in writing; 2. Check plant and equipment and rectify unacceptable practice
Action level being exceeded by two or more consecutive sampling	1. Repeat in situ measurement on the next day of exceedance to confirm findings; 2. Check monitoring data, plant, equipment and Contractor(s)'s working methods; 3. Identify source(s) of impact and record in notification of exceedance; 4. Inform IEC, Contractor(s) and ER; 5. Discuss with IEC and Contractor(s) on additional mitigation measures and ensure that they are implemented.	1. Check monitoring data submitted by ET and Contractor(s)'s working methods; 2. Inform EPD and AFCD; 3. Discuss with ET and Contractor(s) on additional mitigation measures and advise ER accordingly; 4. Assess the effectiveness of the implemented mitigation measures.	1. Confirm receipt of notification of exceedance in writing; 2. Discuss with the IEC on the proposed additional mitigation measures and agree on the mitigation measures to be implemented. 3. Ensure additional mitigation measures are properly implemented.	1. Confirm receipt of notification of exceedance in writing; 2. Check plant and equipment and rectify unacceptable practice; 3. Consider changes of working methods; 4. Discuss with ET and IEC on additional mitigation measures and propose them to ER within 3 working days; 5. Implement the agreed mitigation measures.
Limit level being exceeded by one sampling	1. Repeat in situ measurement on the next day of exceedance to confirm findings; 2. Check monitoring data, plant, equipment and Contractor(s)'s working methods; 3. Identify source(s) of impact and record in notification of exceedance; 4. Inform IEC, Contractor(s) and ER; 5. Discuss with IEC and Contractor(s) on additional mitigation measures and ensure that they are implemented.	1. Check monitoring data submitted by ET and Contractor(s)'s working methods; 2. Inform EPD and AFCD; 3. Discuss with ET and Contractor(s) on additional mitigation measures and advise ER accordingly; 4. Assess the effectiveness of the implemented mitigation measures.	1. Confirm receipt of notification of exceedance in writing; 2. Discuss with the IEC on the proposed additional mitigation measures and agree on the mitigation measures to be implemented. 3. Ensure additional mitigation measures are properly implemented. 4. Request Contractor(s) to critically review the working methods.	1. Confirm receipt of notification of exceedance in writing; 2. Check plant and equipment and rectify unacceptable practice; 3. Critically review the need to change working methods; 4. Discuss with ET and IEC on additional mitigation measures and propose them to ER within 3 working days; 5. Implement the agreed mitigation measures.
Limit level being exceeded by two or more consecutive sampling	1. Repeat in situ measurement on the next day of exceedance to confirm findings; 2. Check monitoring data, plant, equipment and Contractor(s)'s working methods; 3. Identify source(s) of impact and record in notification of exceedance; 4. Inform IEC, Contractor(s) and ER; 5. Discuss with IEC and Contractor(s) on additional mitigation measures and ensure that they are implemented.	1. Check monitoring data submitted by ET and Contractor(s)'s working methods; 2. Inform EPD and AFCD; 3. Discuss with ET and Contractor(s) on additional mitigation measures and advise ER accordingly; 4. Assess the effectiveness of the implemented mitigation measures.	1. Confirm receipt of notification of exceedance in writing; 2. Discuss with the IEC on the proposed additional mitigation measures and agree on the mitigation measures to be implemented. 3. Ensure additional mitigation measures are properly implemented. 4. Request Contractor(s) to critically review the working methods.	1. Confirm receipt of notification of exceedance in writing; 2. Check plant and equipment and rectify unacceptable practice; 3. Critically review the need to change working methods; 4. Discuss with ET and IEC on additional mitigation measures and propose them to ER within 3 working days; 5. Implement the agreed mitigation measures.

Event and Action Plan for Ecology Monitoring

Event	Action			
	ET	IEC	ER	Contractor
Action Level	1. Notify IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, ER and Contractor; 4. Discuss with the Contractor and formulate remedial measures; and 5. Increase monitoring frequency to check mitigation effectiveness.	1. Review the analyzed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; and 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analyzed noise problem; and 4. Ensure remedial measures are properly implemented.	1. Submit noise mitigation proposals to IEC; and 2. Implement noise mitigation proposals.
Limit Level	1. Identify source; 2. Inform IEC, ER, EPD and Contractor; 3. Repeat measurements to confirm findings; 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IEC, ER and EPD the causes and actions taken for the exceedances; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; and 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; and 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented; and 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; and 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Appendix F
Waste Flow Table

Waste Flow Table for Year 2024

Monthly Ending	Total Quantity Generated	Actual Quantities of Inert C&D Materials Generated Monthly					Actual Quantities of Non-inert C&D Wastes Generated Monthly				
		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 tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
2024 Jan	11180.54	Nil	Nil	Nil	11103.51	Nil	Nil	0.17	Nil	Nil	76.86
2024 Feb	39622.50	Nil	Nil	Nil	39511.96	Nil	10.78	0.01	Nil	Nil	99.74
2024 Mar	28642.82	Nil	Nil	Nil	28422.00	Nil	94.04	0.01	Nil	Nil	126.76
2024 Apr	36811.58	Nil	Nil	Nil	36608.65	Nil	75.49	0.10	Nil	Nil	127.33
2024 May	3275.68	Nil	Nil	Nil	3161.67	Nil	Nil	0.15	Nil	Nil	113.86
2024 June	2326.25	Nil	Nil	Nil	2241.60	Nil	Nil	0.11	Nil	Nil	84.54
Total	121859.37	Nil	Nil	Nil	121049.39	Nil	180.31	0.55	Nil	Nil	629.09

Note:
1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at theSite.

2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packagingmaterials.

Sources/ reference of the waste flow data; From the Contractor

Appendix G
Implementation Status of Environmental Mitigation Measures

EIA Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Status
	Air Quality Impact (Construction Phase)		
3.6.1.6	Watering once per every two hours on active works areas to reduce dust emission.	All active works areas during construction phase	Implemented
3.8.1.1	Dust suppression measures stipulated in the Air Pollution Control (Construction Dust) Regulation and good site practices listed below shall be carried out to further minimize construction dust impact:		
	• Use of regular watering to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather.	Construction Sites	Implemented
	• Use of frequent watering for particularly dusty construction areas and areas close to ASRs.		Implemented
	• Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines.		Implemented
	• Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs.		Implemented
	• Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.		Implemented
	• Establishment and use of vehicle wheel and body washing facilities at the exit points of the site.		Implemented
	• Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading area of barging point, and use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry seasons/ periods.		N/A
	• Provision of not less than 2.4m high hoarding from ground level along site boundary where adjoins a road, streets or other accessible to the public except for a site entrance or exit.		Implemented
	• Imposition of speed controls for vehicles on site haul roads.		Implemented
	• Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs.		Implemented
	• Instigation of an environmental monitoring and auditing program to monitor the construction process in order to enforce controls and modify method of work if dusty conditions arise.		Implemented

EIA Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Status
	Noise Impact (Construction Phase)		
4.8.1	Movable noise barriers are recommended for hydraulic breakers mounted on excavators to be adopted during construction.	Construction Sites	N/A
	Good site practices listed below and the noise control requirements stated in EPD's "Recommended Pollution Control Clauses for Construction Contracts" should be included in the Contract Specification for the Contractors to follow and should be implemented to further minimize the potential noise impacts during the construction phase of the Project.		Implemented
	• Quiet PME, such that those listed in EPD's Quality Powered Mechanical Equipment, should be considered for construction works to further minimize the potential construction noise impact.		Implemented
	• Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme.		Implemented
	• Silencers or mufflers on construction equipment should be utilised and should be properly maintained during the construction programme.		Implemented
	• Mobile plant, if any, should be sited as far away from noise sensitive receivers (NSRs) as possible.		N/A
	• Machines and plant (such as trucks) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.		Implemented
	• 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		N/A
	• Material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from on-site construction activities.		N/A
	Water Quality Impact (Construction Phase)		
5.8.1.2	Water used in ground boring and drilling for site investigation or rock / soil anchoring should as far as practicable be re-circulated after sedimentation. When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities	Construction Sites / Construction Phase	Implemented
5.8.1.3	All vehicles and plant should be cleaned before they leave a construction site to minimise the deposition of earth, mud, debris on roads. A wheel washing bay should be provided at every site exit if practicable and wash-water should have sand and silt settled out or removed before discharging into storm drains. The section of construction road between the wheel washing bay and the public road should be paved with backfill to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.	Construction Sites / Construction Phase	Implemented
5.8.1.4	Good site practices should be adopted to remove rubbish and litter from construction sites so as to prevent the rubbish and litter from spreading from the site area. It is recommended to clean the construction sites on a regular basis.	Construction Sites / Construction Phase	Implemented
5.8.1.5 - 5.8.1.6	The site practices outlined in ProPECC PN 1/94 "Construction Site Drainage" should be followed where applicable to minimise surface run-off and the chance of erosion. Surface run-off from construction sites should be discharged into storm drains via adequately designed sand / silt removal facilities such as sand traps, silt traps and sedimentation basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Perimeter channels at site boundaries should be provided as necessary to intercept storm run-off from outside the site so that it will not wash across the site. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks.	Construction Sites / Construction Phase	Implemented

EIA Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Status
5.8.1.7	Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly (as well as at the onset of and after each rainstorm) to prevent overflows and localised flooding.	Construction Sites / Construction Phase	Implemented
5.8.1.8	Construction works should be programmed to minimise soil excavation in the wet season (i.e. April to September). If soil excavation cannot be avoided in these months or at any time of year when rainstorms are likely, temporarily exposed slope surfaces should be covered e.g. by tarpaulin, and temporary access roads should be protected by crushed stone or gravel, as excavation proceeds. Intercepting channels should be provided (e.g. along the crest / edge of excavation) to prevent storm run-off from washing across exposed soil surfaces.	Construction Sites / Construction Phase	Implemented
5.8.1.9	Earthworks final surfaces should be well compacted and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary	Construction Sites / Construction Phase	Implemented
5.8.1.10	Measures should be taken to minimise the ingress of rainwater into trenches. If excavation of trenches in the wet season is necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	Construction Sites / Construction Phase	Implemented
5.8.1.11	Construction materials (e.g. aggregates, sand and fill material) on sites should be covered with tarpaulin or similar fabric during rainstorms	Construction Sites / Construction Phase	Implemented
5.8.1.12	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	Construction Sites / Construction Phase	Implemented
5.8.1.13	The practices outlined in Environment, Transport and Works Bureau (ETWB) TC (Works) No. 5/2005 Protection of natural streams/rivers from adverse impacts arising from construction works" should also be adopted where applicable to minimise the water quality impacts upon any natural streams or surface water systems.	Construction Sites / Construction Phase	Implemented
5.8.1.14	Sufficient chemical toilets should be provided in the works areas. A licensed waste collector should be deployed to clean the chemical toilets on a regular basis.	Construction Sites / Construction Phase	Implemented
5.8.1.15	Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the surrounding environment.	Construction Sites / Construction Phase	Implemented
5.8.1.16	Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The WDO (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation, should be observed and complied with for control of chemical wastes.	Construction Sites / Construction Phase	Implemented
5.8.1.17	Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges.	Construction Sites /Construction Phase	N/A
5.8.1.18	Disposal of chemical wastes should be carried out in compliance with the WDO. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the WDO should be followed to avoid leakage or spillage of chemicals.	Construction Sites / Construction Phase	Implemented
5.8.1.19	All the runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the Technical Memorandum on Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters (TM-DSS).	Construction Sites / Construction Phase	Implemented
5.8.2.11	Chemical should be stored on site at bunded area and separate drainage system as appropriate should be provided to avoid any spilled chemicals from entering the storm drain in case of accidental spillage. Also, adequate tools for cleanup of spilled chemicals should be stored on site and appropriate training shall be provided to staffs to further prevent potential adverse water quality impacts from happening.	Project site / Design and Operation Phase	Implemented

EIA Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Status
Waste Management Implication (Construction Phase)			
6.6.1.3	Good Site Practices Recommendations for good site practices during the construction phase include:		
	• Nomination of approved personnel, such as a site manager, to be responsible for good site practices, and making arrangements for collection of all wastes generated at the site and effective disposal to an appropriate facility;	Construction Sites	Implemented
	• Training of site personnel in proper waste management and chemical waste handling procedures;		Implemented
	• Provision of sufficient waste reception/ disposal points, of a suitable vermin-proof design that minimises windblown litter;		N/A
	• Arrangement for regular collection of waste for transport off-site and final disposal;		Implemented
	• Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers;		Implemented
	• Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors;		Implemented
	• A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be proposed; and		Implemented
	• A WMP should be prepared and should be submitted to the Engineer for approval. One may make reference to ETWB TCW No. 19/2005 for details.		Implemented
6.6.1.5	Waste Reduction Measures Recommendations to achieve waste reduction include:		
	• Segregate and store different types of construction related waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal;	Construction Sites	Implemented
	• Provide separate labelled bins to segregate recyclable waste such as aluminium cans from other general refuse generated by the work force, and to encourage collection by individual collectors;		Implemented
	• Any unused chemicals or those with remaining functional capacity shall be recycled;		N/A
	• Maximising the use of reusable steel formwork to reduce the amount of C&D material;		Implemented
	• Prior to disposal of C&D waste, it is recommended that wood, steel and other metals shall be separated for re-use and / or recycling to minimise the quantity of waste to be disposed of to landfill;		Implemented
	• Adopt proper storage and site practices to minimise the potential for damage to, or contamination of, construction materials;		Implemented
	• Plan the delivery and stock of construction materials carefully to minimise the amount of surplus waste generated;		N/A
	• Adopt pre-cast construction method instead of cast-in-situ method for construction of concrete structures as much as possible; and		N/A
	• Minimise over ordering of concrete, mortars and cement grout by doing careful check before ordering.		N/A

EIA Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Status
6.6.1.7	Storage of Waste Recommendations to minimise the impacts include:		
	• Waste, such as soil, should be handled and stored well to ensure secure containment, thus minimising the potential of pollution;	Construction Sites	Implemented
	• Maintain and clean storage areas routinely;		Implemented
	• Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; and		Implemented
	• Different locations should be designated to stockpile each material to enhance reuse.		Implemented
6.6.1.8	Collection of Waste Licensed waste haulers should be employed for the collection and transportation of waste generated. The following measures should be enforced to minimise the potential adverse impacts:		
	• Remove waste in timely manner;	Construction Sites	Implemented
	• Waste collectors should only collect wastes prescribed by their permits;		Implemented
	• Impacts during transportation, such as dust and odour, should be mitigated by the use of covered trucks or in enclosed containers;		Implemented
	• Obtain relevant waste disposal permits from the appropriate authorities, in accordance with the WDO (Cap. 354), Waste Disposal (Charges for Disposal of Construction Waste) Regulation (Cap. 345) and the Land (Miscellaneous Provisions) Ordinance (Cap. 28);		Implemented
	• Waste should be disposed of at licensed waste disposal facilities; and		Implemented
	• Maintain records of quantities of waste generated, recycled and disposed.		Implemented
6.6.1.10	Transportation of Waste In order to monitor the disposal of C&D materials at PFRFs and landfills and to control fly-tipping, a trip-ticket system should be established in accordance with DEVB TCW No. 6/2010. A recording system for the amount of waste generated, recycled and disposed, including the disposal sites, should also be set up. Warning signs should be put up to remind the designated disposal sites. CCTV should be installed at the vehicular entrance and exit of the site as additional measures to prevent fly-tipping.	Transportation Route of Waste / Construction Phase	Implemented
6.6.1.12	Construction and Demolition Material Careful design, planning together with good site management can reduce over-ordering and generation of C&D materials such as concrete, mortar and cement grouts. Formwork should be designed to maximize the use of standard wooden panels, so that high reuse levels can be achieved. Alternatives such as steel formwork or plastic facing should be considered to increase the potential for reuse	Construction Sites	N/A
6.6.1.13	The excavated material arising from site formation and foundation works should be reused on-site as backfilling material and for landscaping works as far as practicable. Other mitigation requirements are listed below:		
	• A WMP, which becomes part of the EMP, should be prepared in accordance with ETWB TCW No.19/2005;	Construction Sites	Implemented
	• A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be adopted for easy tracking; and		Implemented
	• In order to monitor the disposal of C&D materials at public filling facilities and landfills and to control fly-tipping, a trip-ticket system should be adopted (refer to DEVB TCW 06/2010).		Implemented

EIA Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Status
6.6.1.14	It is recommended that specific areas should be provided by the Contractors for sorting and to provide temporary storage areas (if required) for the sorted materials. Control measures for temporary stockpiles on-site should be taken in order to minimise the noise, generation of dust and pollution of water. These measures include:		
	• Surface of stockpiled soil should be regularly wetted with water especially during dry season;	Construction Sites	Implemented
	• Disturbance of stockpile soil should be minimised;		Implemented
	• Stockpiled soil should be properly covered with tarpaulin especially when heavy storms are predicted; and		Implemented
	• Stockpiling areas should be enclosed where space is available.		Implemented
6.6.1.15	The Contactor should prepare and implement an EMP in accordance with ETWB TCW No.19/2005, which describes the arrangements for avoidance, reuse, recovery, recycling, storage, collection, treatment and disposal of different categories of waste to be generated from construction activities. Such a management plan should incorporate site-specific factors, such as the designation of areas for segregation and temporary storage of reusable and recyclable materials. The EMP should be submitted to the Engineer for approval. The Contractor should implement waste management practices in the EMP throughout the construction stage of the Project. The EMP should be reviewed regularly and updated by the Contractor, preferably on a monthly basis.	Construction Sites	Implemented
6.6.1.16	The Contractor would be responsible for devising a system to work for on-site sorting of C&D materials and promptly removing all sorted and process materials arising from the construction activities to minimise temporary stockpiling on-site. The system should be included in the EMP identifying the source of generation, estimated quantity, arrangement for on-site sorting, collection, temporary storage areas and frequency of collection by recycling Contractors or frequency of removal off-site.	Construction Sites	Implemented
6.6.1.17 – 6.6.1.18	The sediment should be excavated, handled, transported and disposed of in a manner that would minimise adverse environmental impacts. To minimise sediment disposal, it is proposed to reuse the Type 1 sediment generated (e.g. as backfilling materials) as far as possible. Requirements of the Air Pollution Control (Construction Dust) Regulation, where relevant, shall be adhered to during excavation, transportation and disposal of the sediment.	Construction Sites	N/A
6.6.1.19	Workers shall, if necessary, wear appropriate personal protective equipments (PPE) when handling contaminated sediments. Adequate washing and cleaning facilities shall also be provided on site.	Construction Sites	Implemented
6.6.1.20	For off-site disposal, the basic requirements and procedures specified under ETWB TC(W) No. 34/2002 shall be followed.	Transportation Route of Waste / Construction Phase	Implemented
6.6.1.24	Stockpiling of contaminated sediments should be avoided as far as possible. If temporary stockpiling of contaminated sediments is necessary, the excavated sediment should be covered by tarpaulin and the area should be placed within earth bunds or sand bags to prevent leachate from entering the ground, nearby drains and surrounding water bodies. The stockpiles should be completely paved or covered by linings in order to avoid contamination to underlying soil or groundwater. Separate and clearly defined areas should be provided for stockpiling of contaminated and uncontaminated materials. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO).	Construction Sites	Implemented
6.6.1.25	In order to minimise the potential odour / dust emissions during excavation and transportation of the sediment, the excavated sediments shall be wetted during excavation / material handling and shall be properly covered when placed on trucks or barges. Loading of the excavated sediment to the barge shall be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water.	Construction sites & transportation route of waste / Construction phase	N/A
6.6.1.26	The barge transporting the sediments to the designated disposal sites shall be equipped with tight fitting seals to prevent leakage and shall not be filled to a level that would cause overflow of materials or laden water during loading or transportation. In addition, monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the DEP.	Transportation route of waste / Construction phase	N/A

EIA Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Status
6.6.1.27	Suitable containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall employ a licensed collector to transport and dispose of the chemical wastes, to the licensed CWTC, or other licensed facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Construction and Operation Phases	Implemented
6.6.1.28	It is recommended to place clearly labelled recycling bins at designated locations with convenient access. Other general refuse should be separated from chemical and industrial waste by providing separated bins or skips for storage to maximise the recyclable volume. A reputable licensed waste collector should be employed to remove general refuse on a daily basis to minimise odour, pest and litter impacts.	Construction and Operation Phases	Implemented
6.6.1.29	Should buildings be found with potential ACM, sufficient and reasonable lead time shall be allowed for preparation, vetting and implementation of Asbestos Investigation Report and Asbestos Abatement Plan in accordance with Air Pollution Control Ordinance before commencement of any demolition or site clearance work.	Demolition	N/A
Land Contamination			
7.8.1.2 - 7.8.1.3;7.8.2.1	Prior to the commencement of the SI works, a review of the Contamination Assessment Plan (CAP) should be conducted to confirm whether the proposed SI works (e.g. sampling locations, testing parameters etc.) are still valid. Supplementary CAP(s), presenting findings of the review, the latest site conditions and updated sampling strategy and testing protocol, should be submitted to EPD for endorsement. The SI works should be carried out according to EPD's agreed supplementary CAP(s).SI works should be carried out according to the supplementary CAP endorsed by EPD. Following completion of SI works and receipt of laboratory test results, Contamination Assessment Report(s) ((CAR)(s)) should be prepared to present the findings of the SI works and to discuss the presence, nature and extent of contamination. If contamination is identified, Remedial Action Plan(s) ((RAP)(s)) which provides details of the remedial actions for the identified contaminated soil and / or groundwater should be endorsed by EPD. The possible remediation methods are detailed in Section 5.2 of the CAP provided in Appendix 7.1 of the EIA Report, Remediation action, if necessary, will be carried out according to EPD endorsed RAP(s) and Remediation Report(s) (RR(s)) will be submitted after completion of the remediation action. The RR(s) should be endorsed by EPD prior to the commencement of construction works at the respective identified contaminated areas (if any).	Existing YLSTW /Construction Phase (after decommissioning of the concerned facilities / areas but prior to the construction works at the concerned facilities / areas)	Implemented
7.8.3.1	The mitigation measures will be recommended in the RAP and would typically include the following:		
	• Excavation profiles must be properly designed and executed with attention to the relevant requirements for environment, health and safety;	Project Site / Construction Phase	Implemented
	• Excavation shall be carried out during dry season as far as possible to minimise contaminated runoff from contaminated soils; Supply of suitable clean backfill material (or treated soil) after excavation;		N/A
	• Stockpiling site(s) shall be lined with impermeable sheeting and bunded. Stockpiles shall be fully covered by impermeable sheeting to reduce dust emission. If this is not practicable due to frequent usage, regular watering shall be applied. However, watering shall be avoided on stockpiles of contaminated soil to minimise contaminated runoff.		Implemented
	• Vehicles containing any excavated materials shall be suitably covered to limit potential dust emissions or contaminated wastewater run-off, and truck bodies and tailgates shall be sealed to prevent any discharge during transport or during wet conditions;		Implemented
	• Speed control for the trucks carrying contaminated materials shall be enforced;		Implemented
	• Vehicle wheel and body washing facilities at the site's exist points shall be established and used; and		Implemented
	• Pollution control measures for air emissions (e.g. from biopile blower and handling of cement), noise emissions (e.g. from blower or earthmoving equipment), and water discharges (e.g. runoff control from treatment facility) shall be implemented and complied with relevant regulations and guidelines.		Implemented

EIA Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Status
Ecological Impact (Terrestrial and Aquatic) (Construction Phase)			
8.10.2.1	Avoidance of Recognised Site of Conservation Importance Construction works are designed to be confined to the boundary of the existing YLSTW that direct impacts on all other sites of conservation importance within the assessment area, including the Ramsar Site, Priority Site, WCA, WBA, SSSI and CA would be avoided.	Project site / Construction Phase	Implemented
8.10.2.3 – 8.10.2.4	Avoidance of Demolition Works Using Breakers Mounted on Excavators and Percussive Piling during Dry Season In order to minimise the construction noise disturbance on overwintering waterbirds, the noisy construction works, i.e. all percussive piling works and demolition using breakers mounted on excavators, would therefore be scheduled outside the dry season (i.e. November to March, which is the peak overwintering period of waterbirds).	Construction sites /Construction Phase	Implemented
8.10.2.5	Restriction of Construction Hours No construction activities with the use of PME should be conducted within 100m from any night roost confirmed by the pre-construction survey after 18:00 during wet season and 17:30 during dry season to avoid disturbance to the nearby ardeids night roosts.	Construction sites / Construction Phase	Implemented
8.10.3.2 – 8.10.3.3	Minimising Construction Noise Disturbance Impacts through Consideration of Alternative Construction Methods Demolition using concrete crusher is quieter than demolition using breaker that its construction noise level is comparable to other general construction activities and concrete crusher would be used for demolition works to be undertaken during dry season months. The quieter foundation methods, including bored piling, raft foundation and shallow foundation, would be adopted as far as possible.	Construction sites / Construction Phase	Implemented
8.10.3.4 – 8.10.3.5	Minimising Construction Noise Disturbance Impacts Through Careful Phasing of Construction Activities Percussive piling works and demolition using breakers mounted on excavators would typically be completed over two wet seasons and not be undertaken in the same construction zone at the same time to localise the construction disturbance and to reduce the duration of high level of disturbances on sensitive wetland habitats and associated waterbirds nearby each construction zone. Facilities in the eastern side of the Project site (i.e. Phase 1A and Phase 1B) are scheduled to be developed first that the new structures could screen the works in the middle and western parts of the site in later stage of the construction phase after the structures in Phase 1A and Phase 1B are completed, hence minimising the construction noise and human disturbance on sensitive wetland habitats adjacent to the Project site in Shan Pui River, including the confluence of Shan Pui River and Kam Tin River and ardeid night roost to the immediate east of the Project site.	Project site / Construction Phase	Implemented
8.10.3.6 – 8.10.3.8	Minimising Construction Noise Disturbance Impacts through Use of Noise Barriers Noise barriers with absorptive materials of about 4m high will be erected along the northern, eastern and western sides of the site, throughout the construction phase to screen the construction noise and human disturbance to the waterbirds foraging in ponds in Fung Lok Wai and Shan Pui River during construction phase. Adequate noise barriers should also be provided for demolition works using breakers mounted on excavators and percussive piling works, to further minimise the construction noise disturbance from these construction activities. Movable noise barriers should be provided to breaker mounted on excavator used for demolition works as discussed in Section 4.8 and acoustic mat should be provided to the piling plants around the rig. The contractor should provide enclosure for construction equipment, especially static plants, as appropriate to minimise the noise disturbance as far as practicable.	Construction sites / Construction Phase	Implemented
8.10.3.9	Use of Quality Powered Mechanical Equipment The contractor should source QPMEs for construction as far as practicable to further minimise the overall construction noise and other disturbance to the nearby wetland habitats and associated waterbirds to the maximum practical extent.	Construction sites / Construction Phase	Implemented
Ecology & Fisheries Impact			
8.12.1.4, 9.7	Groundwater observation wells and recharge wells will be provided at the northern and western side of the site. Groundwater table will be closely monitored at the observation well. In case of any unlikely events of abnormal drawdown of groundwater table near the excavation area, groundwater dewatering will stop and water will be pumped into the recharge wells to recover the normal groundwater table as necessary.	Construction Phase	N/A

EIA Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Status
	Fisheries Impact		
9.7	The implementation of good site practices during construction could minimise the potential water quality impacts from the land-based construction works. Mitigation measures recommended in the Water Quality Impact Assessment (Section 5) for controlling water quality impact would also serve to protect fisheries resources and activities from indirect impacts.	Construction and Operation Phase	N/A
	Landscape and Visual Impact		
Table 10.11	<u>Preservation of Existing Vegetation (CM1)</u> All the existing Trees to be retained and not to be affected by the Project shall be carefully protected during construction accordance with DEVB TCW No. 7/2015 - Tree Preservation and the latest Guidelines on Tree Preservation during Development issued by GLTM Section of DevB. Any existing vegetation in landscaped areas and natural terrain not to be affected by the Project shall be carefully preserved.	Project site / Construction Phase	Implemented
	<u>Transplanting of Affected Trees (CM2)</u> Trees unavoidably affected by the works shall be transplanted as far as possible in accordance with DEVB TCW No. 7/2015 - Tree Preservation and the latest Guidelines on Tree Transplanting issued by GLTM Section of DevB.	Project site / Construction Phase	Implemented
	<u>Compensatory Tree Planting (CM3)</u> Any trees to be felled under the Project shall be compensated in accordance with DEVB TCW No. 7/2015 - Tree Preservation. For trees to be compensated on slopes, the guidelines for tree planting stipulated in GEO Publication No. 1/2011 will be followed.	Project site / Construction Phase	N/A
	<u>Control of Night-time Lighting Glare (CM4)</u> All the night time lighting shall be avoided except for safety purpose. No light glare shall illuminate directly outside the site.	Project site / Construction Phase	Implemented
	<u>Erection of Decorative Screen Hoarding (CM5)</u> Site hoardings, if any, shall be painted in dull green colour	Project site / Construction Phase	Implemented
	<u>Management of Construction Activities and Facilities (CM6)</u> Construction activities shall be well scheduled and avoid powered mechanical equipment's operating simultaneously. All stockpiling areas and idled area shall be covered by tarpaulin sheet or hydroseeded as far as possible.	Project site / Construction Phase	Implemented
	Hazard to Life (Construction Phase)		
11.5.6.9-11.5.6.12	• Implementation of those major construction works and movement of plants and vehicles would be stringently controlled to have a setback of at least 15m clear distance, or physical barrier with an empty digester / gas holder from the digesters / gas holders in operation;	Project site / Construction Phase	N/A
	• For those construction works to be carried out in close proximity to the 15m zone from digesters / gas holders in operation, the height of plants for those major construction shall be limited to 15m such that the plants would not damage digesters /gas holders in such incident as plant collapse or overturning;		N/A
	• Whenever practicable, the construction sequence shall be arranged with empty unit(s) for separating the major construction works from these digesters / gas holders in use; and		N/A
	• Physical barriers such as concrete blocks shall be set up at the 15m zone in order to avoid those construction plants or vehicles from colliding to the digester / gas holder units in use.		N/A

EIA Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Status
11.5.8	• Method statements and risk assessments shall be prepared and safety control measures shall be in place before commencement of work	Project site / Construction Phase	Implemented
	• All work procedures shall be complied with the operating plant procedures or guidelines and regulatory requirements;		Implemented
	• Work permit system, on-site pre-work risk assessment and emergency response procedure shall be in place before commencement of work;		Implemented
	• All construction workers shall equip with appropriate personal protective equipment (PPE) when working at the Project Site;		Implemented
	• Safety training and briefings shall be provided to all construction workers;		Implemented
	• Regular site safety inspections shall be conducted during the construction phase of the Project;		Implemented
11.9.1.2	• Ensure speed limit enforcement is specified in the contractor's method statement to limit the speed of construction vehicles onsite;	Project site / Construction Phase	Implemented
	• Conduct speed checks to ensure enforcement of speed limits and to ensure adequate site access control;		N/A
	• A lifting plan, with detailed risk assessment, should be prepared and endorsed for heavy lifting of large equipment;		Implemented
	• Vehicle crash barriers should be provided between the construction site and the operating biogas facilities;		N/A
	• Ensure that a hazardous are classification study is conducted and hazardous area maps are updated before the start of the construction activities to ensure ignition sources are controlled during both construction and operation phases;		Implemented
	• Ensure work permit system for hot work activities within the Project Site is specified in the contractor's method statement to minimize and control the ignition sources during the construction phase;		Implemented
	• Ensure effective communication system / protocol is in place between the contractors and the operation staff;		Implemented
	• Ensure the Project Construction Emergency Response Plan is integrated with the Emergency Response Plan for the YLEPP during construction phase. The plan should address stop work instructions to be promptly communicated to all construction workers performing hot works in case a confirmed biogas detection at the Project Site;		Implemented
	• Ensure that the construction activities do not impede the functions of fire and gas detection system, fire protection system, muster areas, fire-fighting vehicle access and escape routes;		Implemented
	• Ensure a Job Safety Analysis is conducted for construction activities of the Project during the construction phase, to identify and analyze hazards associated with the construction activities (e.g. lifting operations by cranes) onto the operating biogas facilities.		Implemented
	• Potential risks of the construction activities shall be assessed, and risk precautionary measures shall be implemented in Contractor's works procedures.		Implemented

Note:

Implementation status: Implemented / Partially Implemented / Not Implemented / Not Applicable (N/A)

Sources / reference of the Implementation Status: Appendix B of EIA Report, AEIAR-220/2019

Appendix H
Cumulative statistics on Environmental Complaints, Notifications of Summons and Successful Prosecutions

Environmental Complaints Log

Reference	Date of Complaint	Received From	Received By	Nature of Complaint	Date of Investigation	Outcome	Date of Reply

Cumulative Statistics on Complaints

Environmental Parameters	Cumulative No. Brought Forward	No. of Complaints This Month	Cumulative Project-to-Date
Air	0	0	0
Noise	0	0	0
Water	0	0	0
Waste	0	0	0
Total	0	0	0

Cumulative Statistics on Notification of Summons and Successful Prosecutions

Environmental Parameters	Cumulative No. Brought Forward	No. of Notification of Summons and Prosecutions This Month	Cumulative Project-to-Date
Air	0	0	0
Noise	0	0	0
Water	0	0	0
Waste	0	0	0
Total	0	0	0

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