

**Contract No. SPW 01/2025
Environmental Team for
Construction of Yuen Long
Effluent Polishing Plant
Stage 1**

Quarterly EM&A Report

(Oct 2025 – Dec 2025)

Drainage Services Department

2026-02-02

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Contract No. SPW 02/2025

**Independent Environmental Checker for
Construction of Yuen Long Effluent Polishing Plant
Stage 1 (2025-2026)**

Environmental Permit No. EP-565/2019/A

**Quarterly EM&A Summary Report for October 2025
to December 2025**

2 February 2026
By E-mail and By Hand

For the attention of: Mr. Simon H.M. YEUNG – CRE(C)

Dear Sir,

I refer to the captioned Quarterly EM&A Summary Report for October 2025 to December 2025 (Revision 1) which was produced by the Environmental Team (ET) Leader, received via e-mail on 2 February 2026 and duly certified by the ET Leader on 2 February 2026 (ref.: PL-202602003).

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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	Paul Y – CREC Joint Venture	Mr. Gabriel WONG – Environmental Specialist (by e-mail)
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Ref: PL-202602003

By Email

2 February 2026

Mott MacDonald
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Kwun Tong, Kowloon,
Hong Kong

Attn: Mr. Brandon Wong, IEC

Dear Sir,

Contract No. SPW 01/2025
Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1
Environmental Permit No. EP-565/2019/A
EP Condition 3.5 – Quarterly EM&A Report for October to December 2025

Pursuant to Clause 3.5 of Environmental Permit No. EP-565/2019/A for the captioned project, we are pleased to submit the certified Quarterly EM&A Report for October to December 2025 (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

A handwritten signature in black ink, appearing to be "Vincent M. J. Lu".

Vincent M. J. Lu
Environmental Team Leader

Encl.

cc. AECOM – Mr. Patrick Leung (patrick.leung@ylepp-ecom.com)
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EXECUTIVE SUMMARY

This Quarterly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract No. SPW 01/2025 "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 19th Quarterly EM&A Report for the construction phase which summaries findings of the EM&A programme during the reporting period from 1 Oct 2025 to 31 Dec 2025. As informed by Contractors, 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.

No Action / Limit exceedance for the ecological monitoring of birds in the reporting period.

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", "SAS Thickener House-2" and "Screening Press House" were submitted to EPD respectively on 1st November 2021, 23rd November 2021, 29th April 2022, 6th July 2022, 19th June 2023 and 29th October 2024. No contaminated soil and ground water was found within the Main Storeroom & Workshop, Mechanical Workshop, Waste Storage Area, SAS Thickener House-1, SAS Thickener House-2 and Screening Press House, 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 Under Contract DE/2020/01, this 54-month works contract commenced on 13 June 2022. Design and installation of E&M system, and the supply and installation of PV panels are in progress.
- 1.1.4 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. Variation of the Environmental Permit (EP) (EP No. EP-565/2019/A) was issued by EPD on 26 November 2024.
- 1.1.5 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.
- 1.1.6 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.
- 1.1.7 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.
- 1.1.8 This is the 19th Quarterly EM&A Summary Report to document the findings of site inspection activities and EM&A programme for this project from 1 October 2025 to 31

December 2025 (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	Mr. Ricky Li	2594 7572
Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Resident Engineer	Mr. Simon Yeung	9075 7172
	Senior Resident Engineer	Mr. Partick Leung	6124 8838
Independent Environmental Checker (Mott MacDonald Hong Kong Limited)	Independent Environmental Checker (IEC)	Mr. Brandon Wong	2828 5875
Contractor (DC/2019/10) (Paul Y. - CREC Joint Venture)	Environmental Specialist	Mr. Gabriel Wong	5269 5723
	Environmental Officer	Mr. Henry Lau	5490 5271
Contractor (DE/2020/01) (JEC)	Environmental Officer	Mr. Chirs Cheng	6389 2975
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

October 2025	November 2025	December 2025
<p>Contract DC/2019/10:</p> <ul style="list-style-type: none"> • Fixing GRC panel at CLP Substation • Pipe works and manhole installation at emergency bypass chamber • ABWF, E&M and sheet pile works at IW • ABWF, E&M and sheet pile works at PST • ELS work at SDB • External works at site-wide of predrilling at walkway and water meter cabinet • ELS work at AGS • RC structure at TTS • ABWF and E&M works at STB • Demolish Existing SDT 1-4 • RC work at Sludge Digester no. 1-3 • E&M work at Biogas Holder no. 1 • Zone SD Waterproofing and Backfill for Remove S2 • Disposal of construction waste as indicated in Appendix F. 	<p>Contract DC/2019/10:</p> <ul style="list-style-type: none"> • Fixing GRC panel at CLP Substation • ELS Works for Modification of Existing Inspection Chamber and Inlet Effluent Pipes from NSWSPS • T&C Works at IW • ELS works at IW (Remaining area) • ELS works at PST Stage 2 • ELS work at SDB • Demolition work of existing building at ADB • External works at site-wide include water meter cabinet • RC works at AGS • RC structure at TTS • ABWF and E&M works at STB • Demolish Existing SDT 1-4 • RC work at Sludge Digester no. 1-3 • T&C work at Biogas Holder no.1 • Disposal of construction waste as indicated in Appendix F. 	<p>Contract DC/2019/10:</p> <ul style="list-style-type: none"> • Fixing GRC panel at CLP Substation • ELS Works and Pipe works for Modification of Existing Inspection Chamber and Inlet Effluent Pipes from NSWSPS • T&C Works at IW • RC, ABWF and E&M works at IW (Remaining area) • RC, ABWF and E&M works at PST Stage 2 • ELS work and RC work at SDB • Predrill works and ELS work at ADB • External works at site-wide include water meter cabinet • RC structure at AGS • RC structure at TTS • ABWF and E&M work at STB • RC and E&M work at H2S • ELS work at UC3 • RC structure at Sludge Digester no. 1-3 with PP1 • ELS work at Sludge Digester no. 4-6 • RC work at Biogas Holder no. 2-3 foundation • Disposal of construction waste as indicated in Appendix F. <p>Contract DE/2020/01:</p> <ul style="list-style-type: none"> • Installation of PV panels • 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 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**.

2.3.10 Due to safety concern and weather condition was unstable, the water quality monitoring for mid-flood on 4 October 2025 has been cancelled by the Strong Wind Signal No.3.

2.3.11 Due to safety concern and weather condition was unstable, the water quality monitoring on 21 October 2025 has been cancelled due to the Strong Wind Signal No.3.

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

2.3.12 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.

2.3.13 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 October 2025 to December 2025. No Action / Limit Level exceedance at NMS1 and NMS2 was recorded during the reporting period.

2.3.14 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 Contractors 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 No landscape or visual site audit was carried out for Contract DE/2020/01 in the reporting period. As there is no landscape or visual impact for the indoor works under Contract DE/2020/01.
- 3.2.3 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 for Contract DC/2019/10. 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 (C_{sat}) 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.

- 4.1.6 Risk-Based Remediation Goals (RBRGs) for Industrial have been adopted for the “Screening Press House” and the laboratory results for the sampling works (conducted between 19 August 2024 to 20 August 2024) show that there are no exceedances of the adopted RBRGs for the “Screening Press House”. As no contaminated soil and groundwater was found within the “Screening Press House”, no remediation actions are required for contaminated soil and groundwater for the scheduled land use of the “Screening Press House”. Their findings are summarized in Contamination Assessment Report (CAR) and submitted to EPD on 29 October 2024.

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 for Contract DC/2019/10. 1 site inspection was carried for Contract DE/2020/01. 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
Contract DC/2019/10:

Parameters	Date	Observations and Recommendations	Follow-up
Air Quality	17 December 2025	Reminder 1: Watering should be increased for the haul road.	Watering was increased.
Noise		N/A	
Water Quality		N/A	
Chemical and Construction Waste Management	8 October 2025	Reminder 1: Domestic waste should be stored and removed timely.	Covered rubbish bin for domestic waste was provided and removed timely.
	14 October 2025	Reminder 1: Drip tray should be provided for the fuel drum in SD	Drip tray was provided.
Land Contamination		N/A	
Ecological Impact		N/A	
Landscape and Visual Impact		N/A	
Permit / Licenses	5 November 2025	Reminder 1: The color of NRMM label for the generator at SDB at SDB should be green.	A new NRMM label was provided.
Other		N/A	

Contract DE/2020/01:

Parameters	Date	Observations and Recommendations	Follow-up
Air Quality		N/A	
Noise		N/A	
Water Quality		N/A	
Chemical and Construction Waste Management		N/A	
Land Contamination		N/A	
Ecological Impact		N/A	
Landscape and Visual Impact		N/A	
Permit / Licenses		N/A	
Other		N/A	

5.2 Advice on the Solid and Liquid Waste Management Status

- 5.2.1 Contractors 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) (Before 6 November 2025) South East New Territories Landfill Extension (SENTX) (From 6 November 2025) ¹
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 and Contaminated Mud Pit of the Confined Marine Disposal Facilities to the East of Sha Chau

Note:

1: EPD issued a memo on 6 November 2025, indicating that for works projects with WENT or NENT Landfills as the designated disposal ground for non-inert construction and demolition materials, these designated disposal grounds will be temporarily replaced by South East New Territories Landfill Extension (SENTX) in Tseung Kwan O, with immediate effect until further notice.

- 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. Contractors shall ensure no spilling and overflowing of materials during loading / unloading / transportation is allowed.
- 5.2.5 Contractors were 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 No Action / Limit exceedance for the ecological monitoring of birds in the reporting period.
- 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

Contractors 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/A)	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.

EP Condition (EP-565/2019/A)	Submission Title	Submission Status
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.
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 2.14	Contamination Assessment Report for Screening Press House	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 December 2025)	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 September 2025)	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 December 2025	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.
- 8.1.4 No Action / Limit exceedance for the ecological monitoring of birds in the reporting period.
- 8.1.5 13 environmental site inspections and 13 landscape and visual site audits were carried out for Contract DC/2019/10 in in the reporting period. Recommendations on mitigation measures were given to the Contractor for remediating the deficiencies identified during the site inspections.
- 8.1.6 1 environmental site inspection was carried out for Contract DE/2020/01 in in the reporting period. Recommendation on mitigation measure was given to the Contractor for remediating the deficiencies identified during the site inspections.
- 8.1.7 No landscape or visual site audits were carried out for Contract DE/2020/01 in the reporting period as there is no landscape or visual impact for indoor works under Contract DE/2020/01.
- 8.1.8 No environmental complaints, notification of summons and successful prosecutions were recorded in the reporting period.
- 8.1.9 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:

Contract DC/2019/10:

Air Quality Impact

- Watering should be increased for the haul road.

Construction Noise Impact

- No specific observation was identified in the reporting period.

Water Quality Impact

- No specific observation was identified in the reporting period.

Chemical Waste and Construction Waste Management

- Domestic waste and waste should be stored in a covered rubbish bin and removed from the site timely.
- Drip tray should be provided for the fuel drum at SD.

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

- The color of NRMM label for the generator at SDB should be green.

Other

- No specific observation was identified in the reporting period.

Contract DE/2020/01:

Air Quality Impact

- No specific observation was identified in the reporting period.

Construction Noise Impact

- No specific observation was identified in the reporting period.

Water Quality Impact

- No specific observation was identified in the reporting period.

Chemical Waste and Construction Waste Management

- No specific observation was identified in the reporting period.

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

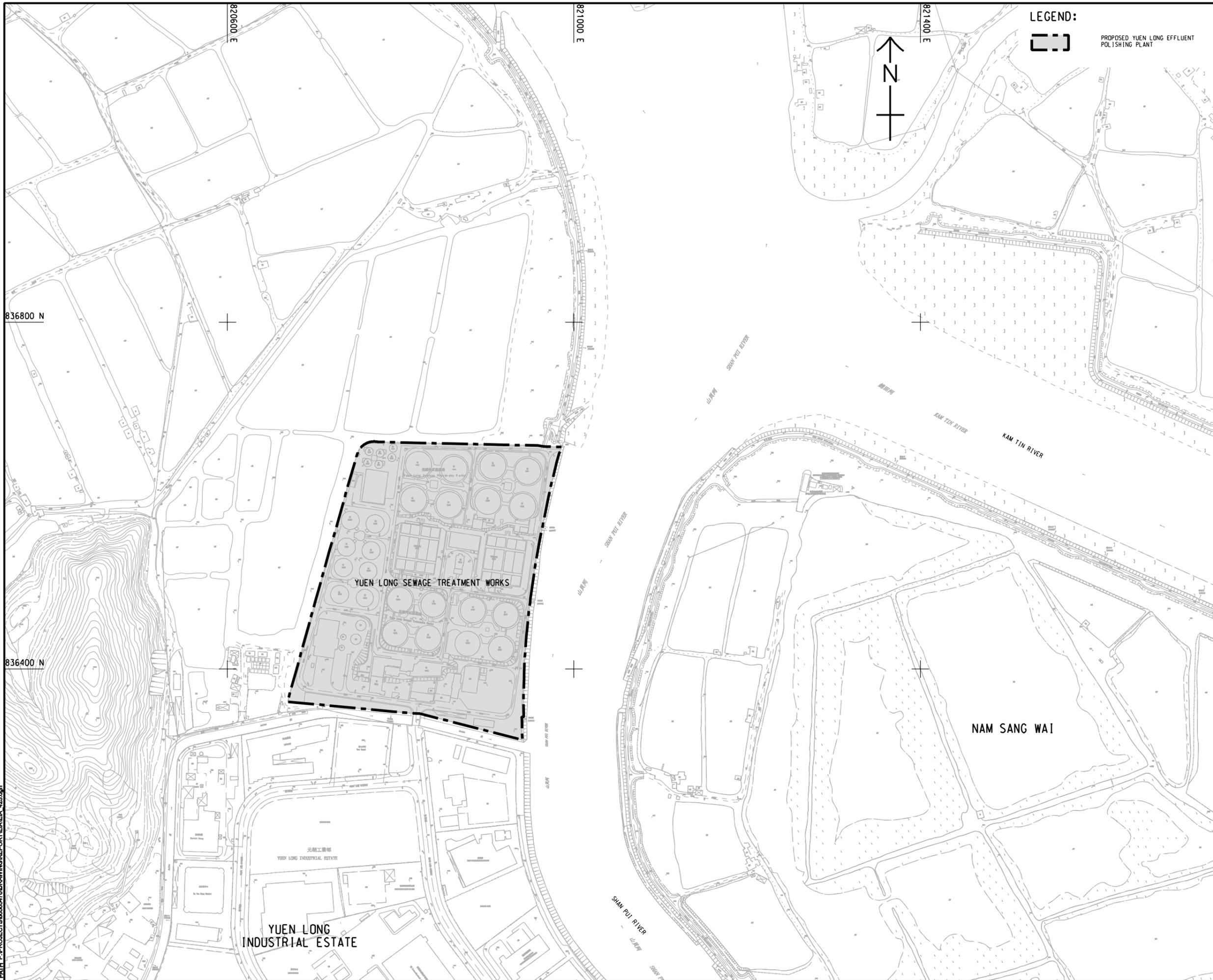
- No specific observation was identified in the reporting period.

Other

- No specific observation was identified in the reporting period.

Figure 1 Location of Proposed Yuen Long
Effluent Polishing Plant

Plot File by: Song YN 2018/02/27
 PATH: P:\PROJECTS\8060547\DRAWING\REPORT\EA\EA_425.dgn
 Project Management Initials: Designer: Checked: Approved: ISO A1 594mm x 841mm



LEGEND:
 PROPOSED YUEN LONG EFFLUENT POLISHING PLANT

AECOM
 PROJECT
YUEN LONG EFFLUENT POLISHING PLANT - INVESTIGATION, DESIGN AND CONSTRUCTION

CLIENT
 渠務署
 Drainage Services Department

CONSULTANT
 AECOM Asia Company Ltd.
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IR	DATE	DESCRIPTION	CHK.
批註	日期	內容摘要	核對

STATUS
 階段

SCALE
 比例: A1 1 : 2000

DIMENSION UNIT
 尺寸單位: METRES

KEY PLAN
 索引圖

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 項目編號: 60505476

CONTRACT NO.
 合約編號: CE 3/2015 (DS)

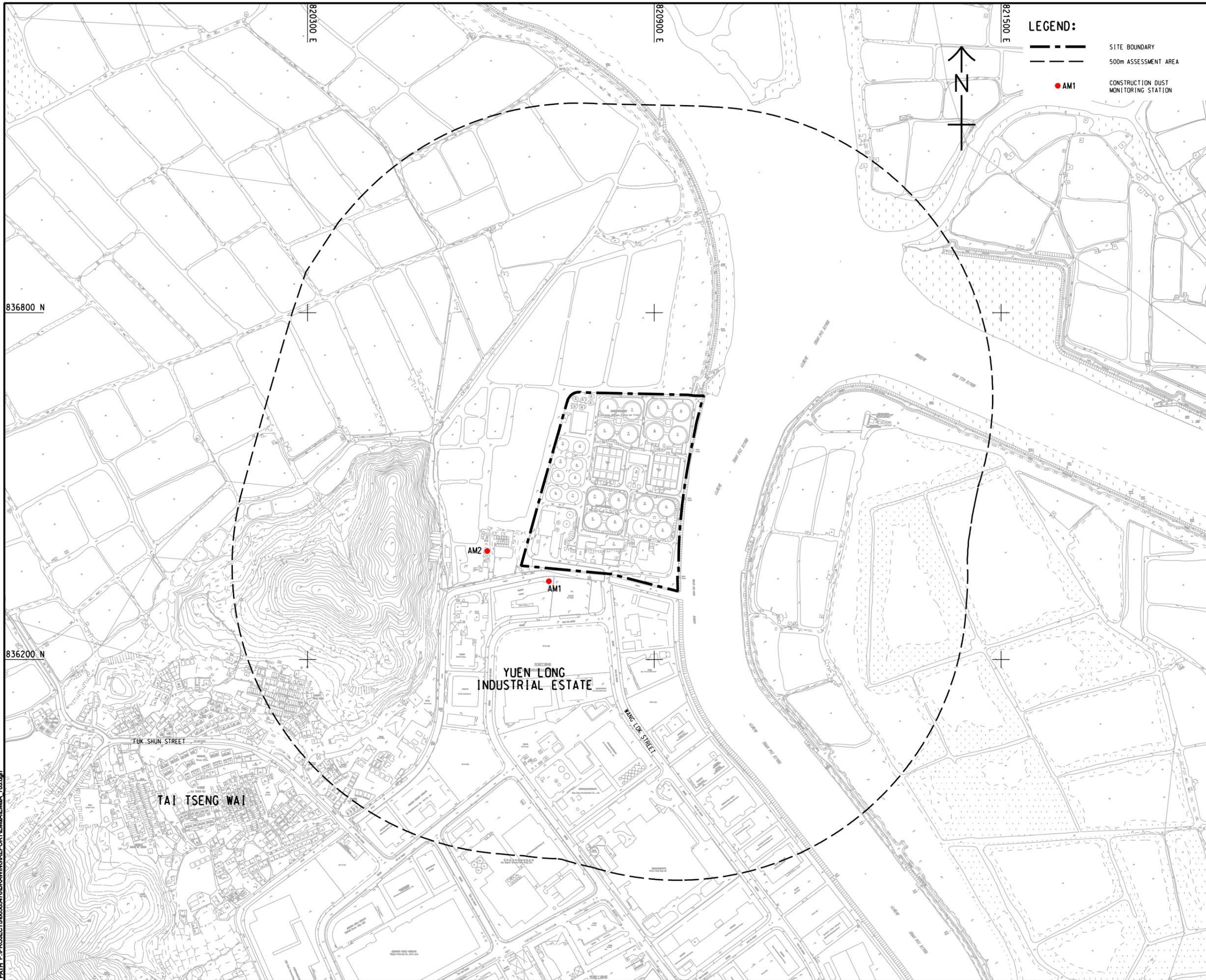
SHEET TITLE
 圖紙名稱: LOCATION OF PROPOSED YUEN LONG EFFLUENT POLISHING PLANT

SHEET NUMBER
 圖紙編號

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Figure 2 Location of Construction Dust Monitoring Stations

ISO A1 594mm x 841mm
 Approved:
 Checked:
 Designer:
 Project Management Initials:
 836800 N
 836200 N
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LEGEND:

- SITE BOUNDARY
- 500m ASSESSMENT AREA
- AM1 CONSTRUCTION DUST MONITORING STATION



PROJECT
 項目
YUEN LONG EFFLUENT POLISHING PLANT - INVESTIGATION, DESIGN AND CONSTRUCTION

CLIENT
 業主
渠務署
 Drainage Services Department

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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

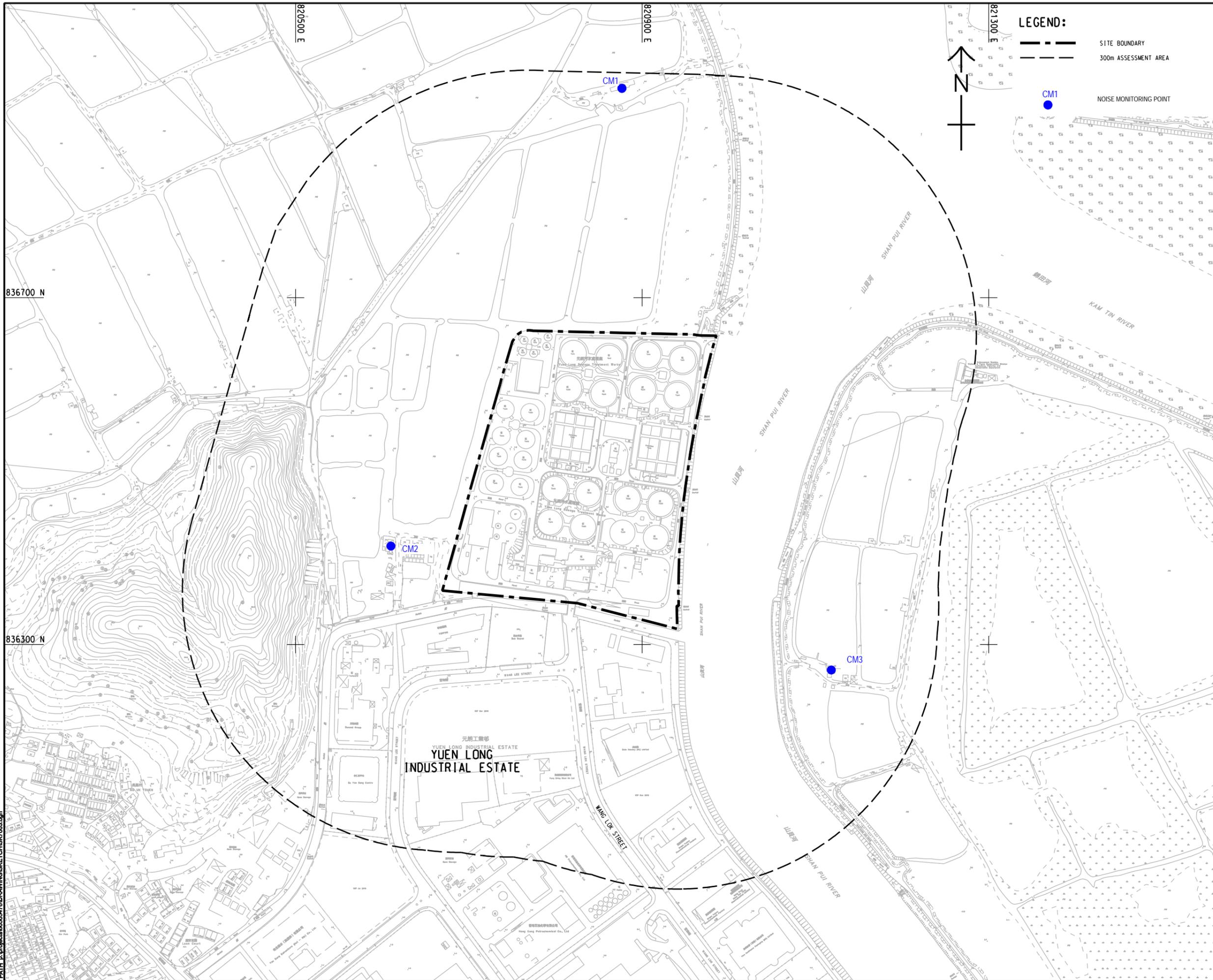
CONTRACT NO.
 合約編號
 CE 3/2015 (DS)

SHEET TITLE
 圖紙名稱
 LOCATION OF CONSTRUCTION DUST MONITORING STATIONS

SHEET NUMBER
 圖紙編號

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Figure 3 Noise Monitoring Locations



LEGEND:

-  SITE BOUNDARY
-  300m ASSESSMENT AREA
-  NOISE MONITORING POINT



PROJECT
項目

YUEN LONG EFFLUENT POLISHING PLANT - INVESTIGATION, DESIGN AND CONSTRUCTION

CLIENT
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圖版

SCALE
比例

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尺寸單位

METRES

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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

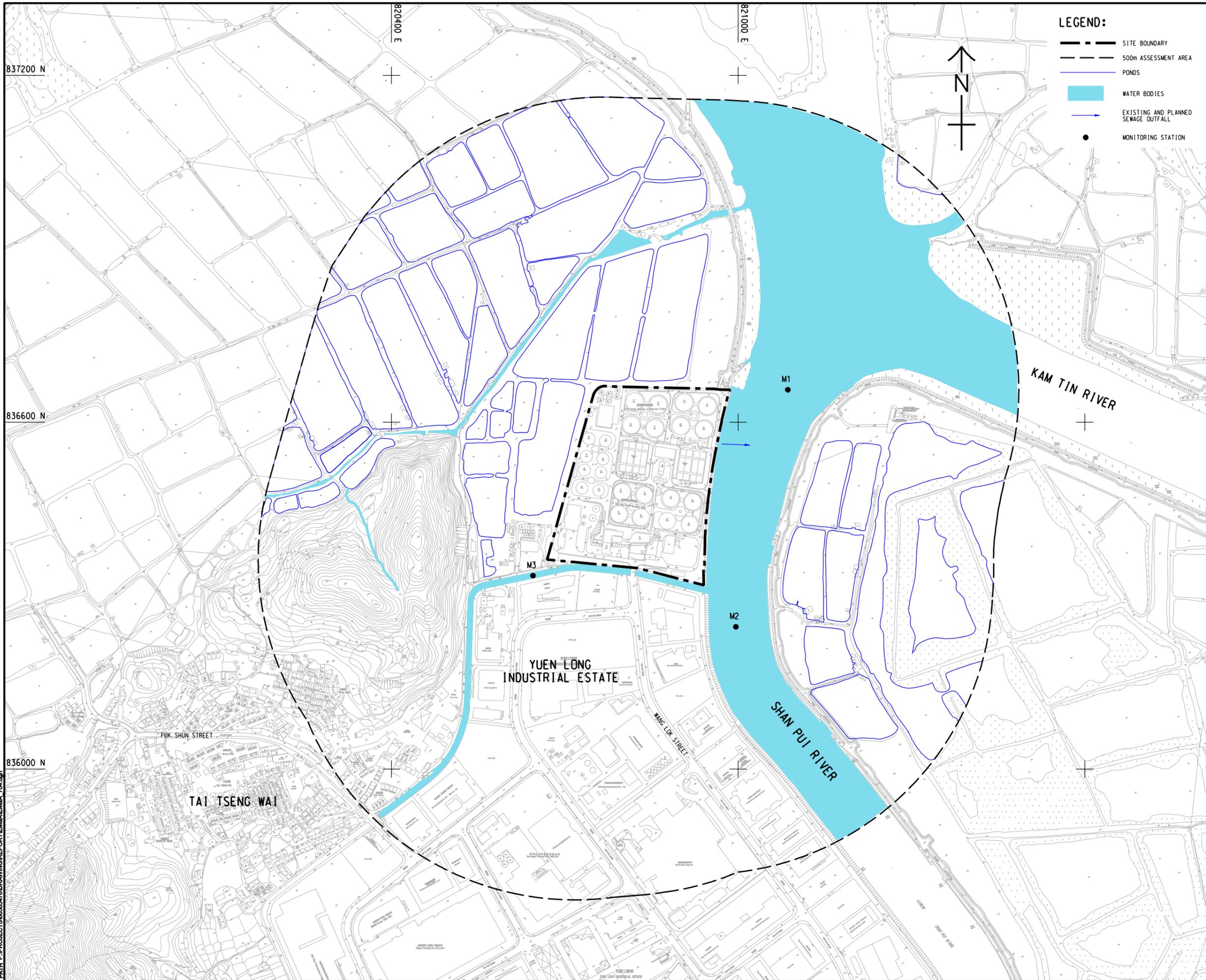
LOCATIONS OF NOISE MONITORING POINTS

SHEET NUMBER
圖紙編號

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Figure 4 Water Quality Monitoring Locations

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 Project Management Initials:
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LEGEND:

- SITE BOUNDARY
- 500m ASSESSMENT AREA
- PONDS
- WATER BODIES
- EXISTING AND PLANNED SEWAGE OUTFALL
- MONITORING STATION



AECOM

PROJECT
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YUEN LONG EFFLUENT POLISHING PLANT - INVESTIGATION, DESIGN AND CONSTRUCTION

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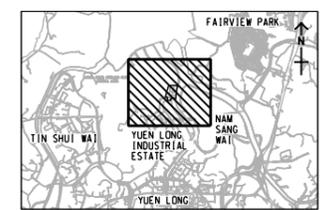
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METRES



PROJECT NO.
 項目編號

60505476

CONTRACT NO.
 合約編號

CE 3/2015 (DS)

SHEET TITLE
 圖名

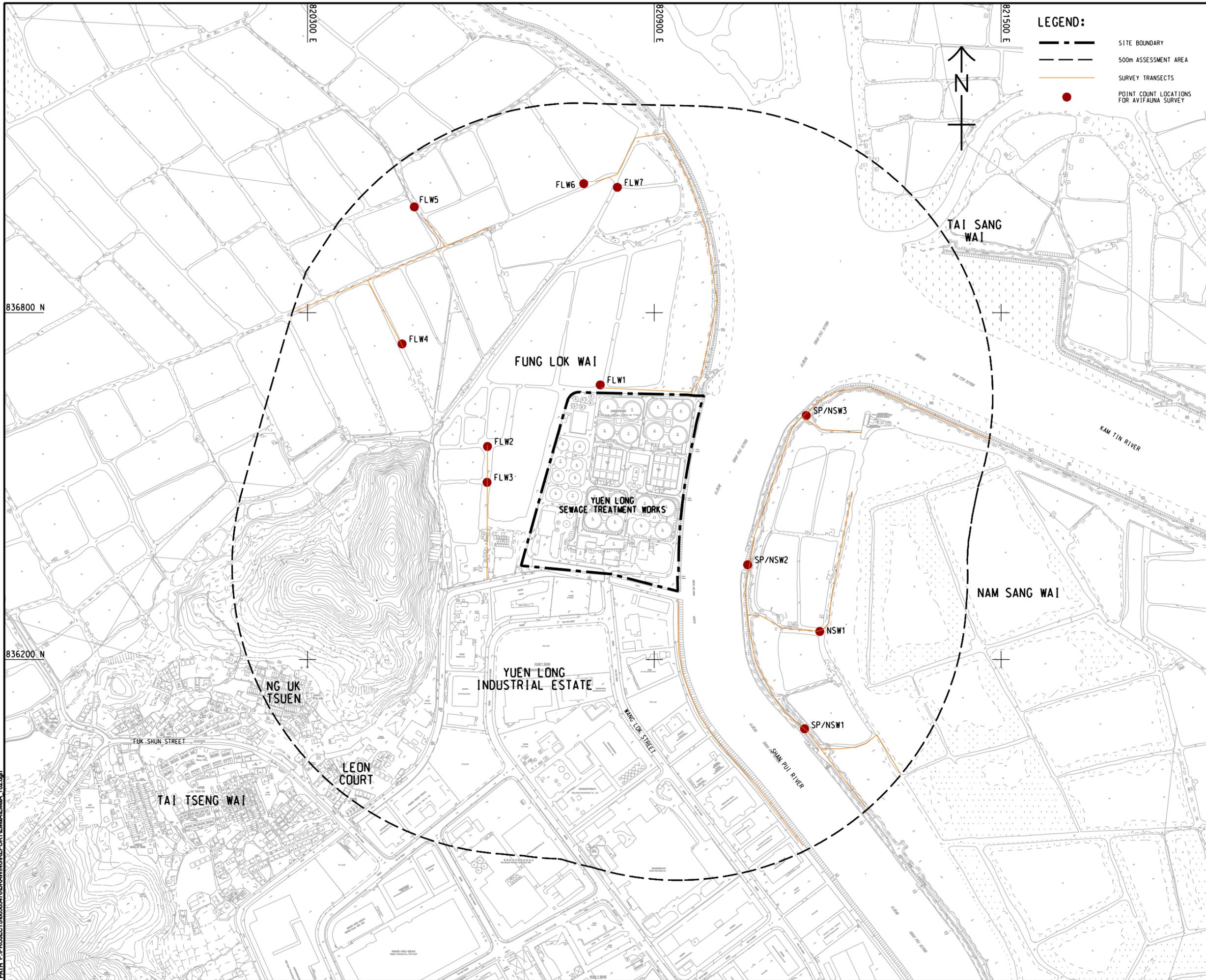
LOCATIONS OF WATER QUALITY MONITORING STATIONS FOR CONSTRUCTION PHASE

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 圖號

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Figure 5 Ecology Monitoring Locations

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 Designer:
 Project Management Initials:
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LEGEND:

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

AECOM

PROJECT
 項目
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SCALE
 比例
 A1 1 : 3000

DIMENSION UNIT
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 METRES

KEY PLAN
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 60505476

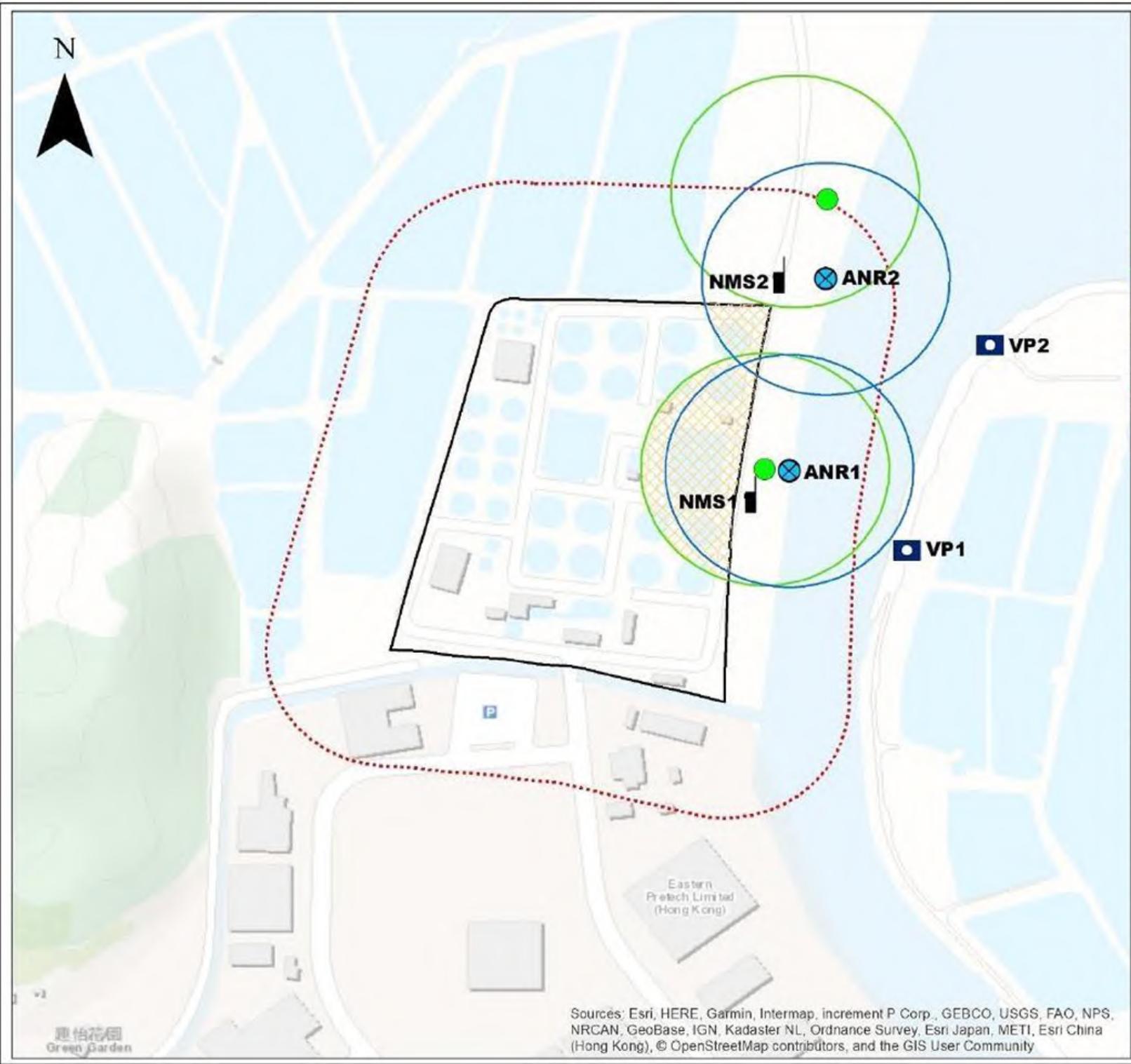
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SHEET TITLE
 圖紙名稱
 ECOLOGICAL MONITORING LOCATIONS

SHEET NUMBER
 圖紙編號

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Figure 6 Active Night Roost Monitoring Area and Vantage Points; And Noise Monitoring Stations



Legend

- Pre-identified Ardeid Night Roost Area (EIA Report)
- Active Ardeid Night Roost Area (ANR)
- Vantage Point
- Noise Monitoring Station (NMS)
- 100 m Buffer Zone for Pre-identified Ardeid Night Roost Area (EIA Report)
- 100 m Buffer Zone for Active Ardeid Night Roost Area
- Suggested Buffer Zone
- Project Site
- Survey Area

Key Plan



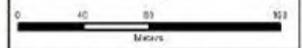
Drainage Services Department
The Government of the Hong Kong Special Administrative Region

aurecon

Project Title:
Contract No. SPW 07/2020 Environmental team for Construction of Yuen Long Effluent Polishing Plant Stage 1.

Figure Title:
Location of Active Night Roosts within the 100 m Study Area

Figure No.:	1	Rev.:	2
Prepared by:	SMR	Checked:	FMN



Date:	13/03/2021	Status:	Draft
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Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), © OpenStreetMap contributors, and the GIS User Community

Appendix A

Construction Programme

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	October					November					December					January					February					March					April				
						60					61					62					63					64					65					66				
						28	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11	18	25	01	08	15	22	01	08	15	22	29	05							
DDA-730	Civil & Structural for Steel Working Platform	100	02-Sep-22 A	31-Dec-25	516	Civil & Structural for Steel Working Platform																																		
DDA-1560	Street Fire Hydrant System	120	22-Dec-23 A	31-Oct-25	48	Street Fire Hydrant System																																		
DDA-660	Pipeworks System for Sludge Thickening Building (STB)	120	15-Oct-24 A	31-Oct-25	1090	Pipeworks System for Sludge Thickening Building (STB)																																		
DDA-685	Pipeworks System for Sludge Digesters (SD)	120	02-Dec-24 A	31-Oct-25	26	Pipeworks System for Sludge Digesters (SD)																																		
DDA-1550	Rainwater Drainage Systems	120	31-Oct-25	27-Feb-26	452	Rainwater Drainage Systems																																		
DDA-690	Pipeworks System for Sludge Dewatering Building (SDB)	120	01-Nov-25	28-Feb-26	107	Pipeworks System for Sludge Dewatering Building (SDB)																																		
DDA-700	Pipeworks System for Utility Corridor&Pipe Portal (UC/PP)	120	01-Nov-25	28-Feb-26	481	Pipeworks System for Utility Corridor&Pipe Portal (UC/PP)																																		
DDA-1570	BS at Education Corridor	120	01-Nov-25	28-Feb-26	407	BS at Education Corridor																																		
DDA-1580	Lift Installation at TTS & ADB	120	01-Nov-25	28-Feb-26	407	Lift Installation at TTS & ADB																																		
DDA-1590	Motor-Driven Entrance Gate	120	01-Nov-25	28-Feb-26	48	Motor-Driven Entrance Gate																																		
Technical Submission																																								
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	60	15-Dec-23 A	31-Oct-25	-309	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft																																		
SUBM-1200	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - rev	60	01-Nov-25	30-Dec-25	-309	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - revised draft																																		
Sludge Thickening System																																								
SUBM-1250	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st	60	31-Oct-25	29-Dec-25	163	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft																																		
SUBM-1260	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - rev	60	30-Dec-25	27-Feb-26	163	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - revised draft																																		
Sludge Disgestion System																																								
SUBM-1310	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st	60	31-Dec-25	28-Feb-26	109	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft																																		
Biogas H2S Removal System																																								
SUBM-1280	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st	60	31-Dec-25	28-Feb-26	419	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft																																		
Deodorization System																																								
SUBM-1340	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st	60	31-Oct-25	29-Dec-25	-279	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft																																		
SUBM-1350	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - rev	60	30-Dec-25	27-Feb-26	-279	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - revised draft																																		
Plant Service Water System																																								
SUBM-1370	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st	60	31-Oct-25	29-Dec-25	480	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft																																		
SUBM-1380	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - rev	60	30-Dec-25	27-Feb-26	480	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - revised draft																																		
Commissioning Plan and Procedures (PS34.20(10))																																								
SUBM-1020	Submit/review/approval Commissioning Plan and Procedures - AGS	120	31-Oct-25	27-Feb-26	-60	Submit/review/approval Commissioning Plan and Procedures - AGS																																		
SUBM-1030	Submit/review/approval Commissioning Plan and Procedures - TTS	120	31-Oct-25	27-Feb-26	-60	Submit/review/approval Commissioning Plan and Procedures - TTS																																		
SUBM-1040	Submit/review/approval Commissioning Plan and Procedures - STB	120	31-Oct-25	27-Feb-26	223	Submit/review/approval Commissioning Plan and Procedures - STB																																		
SUBM-1060	Submit/review/approval Commissioning Plan and Procedures - BH	120	31-Oct-25	27-Feb-26	110	Submit/review/approval Commissioning Plan and Procedures - BH																																		
Material Submission, Procurement, Manufacturing and Delivery																																								
Biogas Holder																																								
PRE-410	Submit/Procure/Manufacture/Deliver Waste Gas Burner	300	19-Aug-21 A	30-Nov-26	193	Submit/Procure/Manufacture/Deliver Waste Gas Burner																																		
PRE-430	Submit/Procure/Manufacture/Deliver Biogas Booster and Transfer Pumps	457	28-Jun-24 A	30-Nov-26	133	Submit/Procure/Manufacture/Deliver Biogas Booster and Transfer Pumps																																		
Mainstream Bio-Reactor																																								
PRE-230	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - AGS system	480	09-Sep-22 A	28-Feb-26	-237	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - AGS system																																		
PRE-530	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - Penstocks and stoplogs	345	31-Oct-22 A	28-Feb-26	-159	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - Penstocks and stoplogs																																		
PRE-550	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - Sludge pre-thickening	510	31-Oct-22 A	28-Feb-26	-178	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - Sludge pre-thickening																																		
PRE-540	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - Chemical storage and dosing system	270	18-Nov-22 A	31-Dec-25	-178	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - Chemical storage and dosing system																																		
PRE-570	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - Instrumentation	481	03-Apr-24 A	31-May-26	-250	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - Instrumentation																																		
PRE-560	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - LALG	349	16-Jul-24 A	31-Mar-26	-268	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - LALG																																		
PRE-580	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - MVAC	138	16-Dec-24 A	31-Mar-26	-268	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - MVAC																																		
Tertiary Treatment System																																								
PRE-590	Submit/Procure/Manufacture/Deliver TTS Equip. - Chemical cleaning system	480	18-Nov-22 A	31-Dec-25	-119	Submit/Procure/Manufacture/Deliver TTS Equip. - Chemical cleaning system																																		
PRE-630	Submit/Procure/Manufacture/Deliver TTS Equip. - Penstocks and stoplogs	435	30-Nov-22 A	31-Dec-25	-118	Submit/Procure/Manufacture/Deliver TTS Equip. - Penstocks and stoplogs																																		
PRE-620	Submit/Procure/Manufacture/Deliver TTS Equip. - LALG	150	27-Mar-23 A	31-Dec-25	-119	Submit/Procure/Manufacture/Deliver TTS Equip. - LALG																																		
PRE-690	Submit/Procure/Manufacture/Deliver TTS Equip. - DOU-02	500	07-Sep-23 A	31-Dec-25	-119	Submit/Procure/Manufacture/Deliver TTS Equip. - DOU-02																																		
Statutory Submission & Approval																																								
WSD Submission & Approval																																								
WSD-1030	WSD - Form WWO46 Part 1 and 2 PM&WSD review and approval	60	30-Sep-25 A	31-Oct-25	-304	WSD - Form WWO46 Part 1 and 2 PM&WSD review and approval																																		
WSD-1040	WSD - Submit Form WWO46 Part 4 (Fresh/Flush/FS)	0		24-Dec-25	-277	WSD - Submit Form WWO46 Part 4 (Fresh/Flush/FS)																																		
WSD-1050	WSD - WSD inspection	14	25-Dec-25	07-Jan-26	-277	WSD - WSD inspection																																		
WSD-1060	WSD - Water supply connection	7	08-Jan-26	14-Jan-26	-277	WSD - Water supply connection																																		
WSD-1070	WSD - Submit as-built dwg, material info, water sampling test result, CCTV survey/swabbing record,	7	15-Jan-26	21-Jan-26	-277	WSD - Submit as-built dwg, material info, water sampling test result, CCTV survey/swabbing record,																																		
WSD-1080	WSD - WSD Obtain of WWO46 Part 5	0		21-Jan-26	-277	WSD - WSD Obtain of WWO46 Part 5																																		
EMSD Submission & Approval																																								
Biogas System (ATAL)																																								
Phase 1																																								
ATAL-FS-0020	Form 105 for Biogas Holder Tank 1 (Submission and Approval Period)	184	03-Jun-24 A	29-Apr-27	-381	Form 105 for Biogas Holder Tank 1 (Submission and Approval Period)																																		
Phase 2																																								
ATAL-FS-0030	Form104 for Biogas Holder Tank 2~4 (Submission and Approval Period)	90	15-Jul-25 A	30-Nov-25	613	Form104 for Biogas Holder Tank 2~4 (Submission and Approval Period)																																		
ATAL-FS-0050	Form104 for Biogas related works(HS2 Rmvl,Waste Gas Burner,Permanent Undrmd Biogas Pipew	90	15-Jul-25 A	30-Nov-25	613	Form104 for Biogas related works(HS2 Rmvl,Waste Gas Burner,Permanent Undrmd Biogas Pipework&Valve(Submission & Approval)																																		
Zone 1 Construction																																								
CLP Substations No. 1 & 2																																								
CLP Substation No. 1 & 2 & DSD 11kV Switchgear - GRC Cladding																																								
CLP-1600	CLP Substation No.1 & 2 & DSD11KV Switchgear - GRC cladding - installation	75	18-Sep-24 A	31-Dec-25	532	CLP Substation No.1 & 2 & DSD11KV Switchgear - GRC cladding - installation																																		
Modification of Existing Emergency Bypass Chamber																																								
Emergency Bypass Chamber - Structural Works																																								
IW-3150	IW - Modification of Existing Emergency Bypass Chamber - Plug off existing 1800mm dia. pipe	1	31-Oct-25	31-Oct-25	-132	IW - Modification of Existing Emergency Bypass Chamber - Plug off existing 1800mm dia. pipe																																		
Emergency Bypass Chamber - Structural modification at Existing EBC																																								
IW-3140	IW - Modification of Existing Emergency Bypass Chamber - Watertightness Test + EP403	9	15-Sep-25 A	18-Sep-25		Modification of Existing Emergency Bypass Chamber - Watertightness Test + EP403																																		
IW-1290	IW - Modification of Existing Emergency Bypass Chamber - Install bulkhead & Demolish existing wall	4	18-Sep-25 A	22-Sep-25		Modification of Existing Emergency Bypass Chamber - Install bulkhead & Demolish existing wall and remove bulkhead																																		
Modification of Existing Inspection Chamber & Inlet Effluent Pipes from NSWSPS																																								
IW-1310	Modification of Existing Inspection Chamber - Sheet Piles Installation (1,020m2, 60m2/day/rig, 1 rig)	18	20-Oct-25 A	22-Nov-25	-266	Modification of Existing Inspection Chamber - Sheet Piles Installation (1,020m2, 60m2/day/rig, 1 rig)																																		



■ Remaining Level of Effort
■ Actual Work
■ Remaining Work
■ Critical Remaining Work
◆ Milestone

Contract DC/2019/10 - YLEPP - Main Works for Stage 1 Monthly Progress Report No. 60- 3MRP (Oct 25)

Project ID : DWP:55_251109
 Layout : DC201910 MPR60-3MRP
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Monthly Progress Report - 3MRP			
Date	Revision	Checked	Approved
31-Oct-25			

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	October					November					December					January					February					March					April	
						60					61					62					63					64					65					66	
						28	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11	18	25	01	08	15	22	01	08	15	22	29	05				
PST-3185	PST Stage 1 - ABWF Works and Floor Access Cover (render:spray, screeding, plastering) at Tank	18	09-Jul-25 A	20-Nov-25	-149	PST Stage 1 - ABWF Works and Floor Access Cover (render:spray, screeding, plastering) at Tank no.1																															
PST Stage 1 - E&M Installation Works																																					
Phase 1 (GL A-H, PST 1-3, Outlet Channel)																																					
PST Stage 1 - E&M Installation Works at Setting Zone (PST 1-3)																																					
PST 1																																					
PST 1 - Inclined Plate Settling System																																					
PST-3435	PST Stage 1 - PST1 - Multi Part Cover	23	03-Dec-25	01-Jan-26	-207	PST Stage 1 - PST1 - Multi Part Cover																															
PST-3320	PST Stage 1 - PST1 - Sewage Emptied and Tank Cleansing	12	05-Dec-25	18-Dec-25	-236	PST Stage 1 - PST1 - Sewage Emptied and Tank Cleansing																															
PST-3425	PST Stage 1 - PST1 - ABWF Works & Handrails	18	19-Dec-25	12-Jan-26	-236	PST Stage 1 - PST1 - ABWF Works & Handrails																															
ATALPST-5410	PST Stage 1 - PST1 - O&M Platform, BS Work, Aeration Pipe, Air Scouring, Water Spray System Ir	35	29-Dec-25	07-Feb-26	-239	PST Stage 1 - PST1 - O&M Platform, BS Work, Aeration Pipe, Air																															
PST-3325	PST Stage 1 - PST1 - Installation of removable walkway at +9.2mPD	18	29-Dec-25	19-Jan-26	-236	PST Stage 1 - PST1 - Installation of removable walkway at +9.2mPD																															
PST 2																																					
PST 2 - Inclined Plate Settling System																																					
PST-3475	PST Stage 1 - PST2 - Sewage Emptied and Tank Cleansing	12	21-Oct-25 A	26-Oct-25 A		PST Stage 1 - PST2 - Sewage Emptied and Tank Cleansing																															
PST-3340	PST Stage 1 - PST2 - Installation of removable walkway at +9.2mPD	18	25-Oct-25 A	27-Nov-25	861	PST Stage 1 - PST2 - Installation of removable walkway at +9.2mPD																															
PST-3415	PST Stage 1 - PST2 - ABWF Works & Handrails	18	29-Oct-25 A	20-Nov-25	861	PST Stage 1 - PST2 - ABWF Works & Handrails																															
ATALPST-6830	PST Stage 1 - PST2 - O&M Platform, BS Work, Aeration Pipe, Air Scouring, Water Spray System Ir	36	30-Oct-25 A	04-Dec-25	-252	PST Stage 1 - PST2 - O&M Platform, BS Work, Aeration Pipe, Air Scouring, Water Spray System Installation & Test																															
PST-3350	PST Stage 1 - PST2 - Multi Part Cover	24	05-Nov-25	02-Dec-25	-250	PST Stage 1 - PST2 - Multi Part Cover																															
PST 2 - Compressors, Air Blowers c/w associated fittings																																					
ATALPST-6850	PST Stage 1 - PST2 - All other process pipes above 11.8 mPD including DOU and MVAC System	21	05-Dec-25	31-Dec-25	-253	PST Stage 1 - PST2 - All other process pipes above 11.8 mPD including DOU and MVAC System																															
PST 3																																					
PST 3 - Inclined Plate Settling System																																					
PST-3465	PST Stage 1 - PST3 - Multi Part Cover	26	17-Oct-25 A	04-Nov-25	-249	PST Stage 1 - PST3 - Multi Part Cover																															
PST 3 - Compressors, Air Blowers c/w associated fittings																																					
ATALPST-6740	PST Stage 1 - PST3 - All other process pipes above 11.8 mPD including DOU and MVAC System	24	04-Oct-25 A	27-Nov-25	-227	PST Stage 1 - PST3 - All other process pipes above 11.8 mPD including DOU and MVAC System																															
Phase 2 (GL H-I, Inlet Channel, Pump Room) Handover for PST early commissioning *																																					
PST Stage 1 - Electrical Works (PST 1-3, Inlet/Outlet Channel & Pump Room)																																					
ATALPST-5670	PST Stage 1 - Electrical Works - Local Control Panel Installation	26	22-Sep-25 A	22-Nov-25	-223	PST Stage 1 - Electrical Works - Local Control Panel Installation																															
ATALPST-5680	PST Stage 1 - Electrical Works - Cabling Works	26	22-Sep-25 A	22-Nov-25	-223	PST Stage 1 - Electrical Works - Cabling Works																															
ATALPST-5690	PST Stage 1 - Electrical Works - Termination Works	26	22-Sep-25 A	22-Nov-25	-223	PST Stage 1 - Electrical Works - Termination Works																															
PST Stage 1 - Instrumentation & SCADA Works (PST 1-3, Inlet/Outlet Channel & Pump Room)																																					
ATALPST-5700	PST Stage 1 - SCADA - Instrument Installation & Inspection	38	22-Sep-25 A	29-Nov-25	-181	PST Stage 1 - SCADA - Instrument Installation & Inspection																															
ATALPST-5730	PST Stage 1 - SCADA - Cabling Works	38	22-Sep-25 A	29-Nov-25	-235	PST Stage 1 - SCADA - Cabling Works																															
ATALPST-5740	PST Stage 1 - SCADA - Termination Works	38	22-Sep-25 A	29-Nov-25	-235	PST Stage 1 - SCADA - Termination Works																															
PST Stage 1 - BS Works (PST 1-3, Inlet/Outlet Channel & Pump Room)																																					
ATALPST-5750	PST Stage 1 - MVAC Works	46	31-Oct-25	23-Dec-25	-249	PST Stage 1 - MVAC Works																															
ATALPST-5760	PST Stage 1 - ELV Works	46	31-Oct-25	23-Dec-25	-249	PST Stage 1 - ELV Works																															
ATALPST-5780	PST Stage 1 - EL Works	46	31-Oct-25	23-Dec-25	-249	PST Stage 1 - EL Works																															
ATALPST-5770	PST Stage 1 - P&D Works	46	01-Nov-25	24-Dec-25	-250	PST Stage 1 - P&D Works																															
ATALPST-5790	PST Stage 1 - FS. Works	46	01-Nov-25	24-Dec-25	-250	PST Stage 1 - FS. Works																															
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-5820	PST Stage 1 - SCADA - I/O Point Test (not required for interim scheme T&C)	50	31-Oct-25	30-Dec-25	-253	PST Stage 1 - SCADA - I/O Point Test (not required for interim scheme T&C)																															
ATALPST-5810	PST Stage 1 - Electrical - Megger Test	7	15-Nov-25	22-Nov-25	-223	PST Stage 1 - Electrical - Megger Test																															
Phase 4 - PST 1-3 System Reliability & Performance Test c/w IW (Sewage)																																					
ATALPST-6000	PST Stage 1 - System Reliability & Performance Test c/w IW (Sewage)	60	31-Dec-25	28-Feb-26	-310	PST Stage 1 - System Reliability & Perform																															
External Works - IW & PST																																					
IWPST External Works - Zone A (Transformer House No.1)																																					
Stage 2 (KD3 - Zone A to C)																																					
IWPST External Works - Zone C (NSWSPS rising main) - Common Trench 1																																					
EW-1720	IW/PST Perimeter - Zone C - ELS for UU Works	5	08-Jan-26	13-Jan-26	-266	IW/PST Perimeter - Zone C - ELS for UU Works																															
EW-1730	IW/PST Perimeter - Zone C - Drainage/Sewer/Watermain/Utility Installation	8	14-Jan-26	22-Jan-26	-266	IW/PST Perimeter - Zone C - Drainage/Sewer/Watermain/Utility Installation																															
EW-1740	IW/PST Perimeter - Zone C - Backfill	5	23-Jan-26	28-Jan-26	-266	IW/PST Perimeter - Zone C - Backfill																															
IWPST External Works - Zone B (CLP substation) - Common Trench 2																																					
EW-1890	IW/PST Perimeter - Zone B - ELS for UU Works	5	23-Jan-26	28-Jan-26	-266	IW/PST Perimeter - Zone B - ELS for UU Works																															
EW-1900	IW/PST Perimeter - Zone B - Remove existing 2x900 pipe	3	29-Jan-26	31-Jan-26	-266	IW/PST Perimeter - Zone B - Remove existing 2x900 pipe																															
Sludge Dewatering Building (SDB)																																					
SDB Foundation & ELS																																					
SDB Foundation - PST 1-4 Footprint																																					
SDB Foundation - ELS																																					
SDB Foundation - ELS																																					
SDB Foundation - ELS Zone A & B (S1 to S3)																																					
SDB-1790	SDB - ELS Stage 1 - Pumping Test	7	30-Jul-25 A	04-Nov-25	-86	SDB - ELS Stage 1 - Pumping Test																															
SDB-6010	SDB - ELS Stage 1 - Preloading Strut S2	3	31-Oct-25 A	04-Nov-25	-71	SDB - ELS Stage 1 - Preloading Strut S2																															
SDB-1340	SDB - ELS Stage 1 - Excavation (+3.3 to +0.8mPD) (10,200m3, 700m3/d) *MD	15	05-Nov-25	21-Nov-25	-71	SDB - ELS Stage 1 - Excavation (+3.3 to +0.8mPD) (10,200m3, 700m3/d) *MD																															
SDB-2290	SDB - ELS Stage 1 - Strut Installation S3 (+1.3mPD)	14	11-Nov-25	26-Nov-25	-71	SDB - ELS Stage 1 - Strut Installation S3 (+1.3mPD)																															
SDB-6020	SDB - ELS Stage 1 - Preloading Strut S3	3	27-Nov-25	29-Nov-25	-71	SDB - ELS Stage 1 - Preloading Strut S3																															
SDB-6120	SDB - ELS Stage 1 - Excavation (+0.8 to -1.625mPD) (9,500m3, 600m3/d) *MD	12	01-Dec-25	13-Dec-25	-71	SDB - ELS Stage 1 - Excavation (+0.8 to -1.625mPD) (9,500m3, 600m3/d) *MD																															
SDB Foundation - ELS Zone A & B (Base Slab and S4)																																					
SDB Foundation - ELS (Base Slab and S4) - Zone A																																					
SDB-6300	SDB - ELS Stage 1 - Capping plate, blinding and waterproofing @ Zone A1	10	13-Dec-25	24-Dec-25	-71	SDB - ELS Stage 1 - Capping plate, blinding and waterproofing @ Zone A1																															
SDB-6050	SDB - ELS Stage 1 - Structure (-1.625 to -0.05mPD) partial base slab @ Zone A1 (Step1)	10	27-Dec-25	08-Jan-26	-71	SDB - ELS Stage 1 - Structure (-1.625 to -0.05mPD) partial base slab @ Zone A1 (Step1)																															
SDB-6310	SDB - ELS Stage 1 - Capping plate, blinding and waterproofing @ Zone A2	10	27-Dec-25	08-Jan-26	-64	SDB - ELS Stage 1 - Capping plate, blinding and waterproofing @ Zone A2																															
SDB-6100	SDB - ELS Stage 1 - Structure (-1.625 to -0.05mPD) partial base slab @ Zone A2 (Step3)	10	09-Jan-26	20-Jan-26	-64	SDB - ELS Stage 1 - Structure (-1.625 to -0.05mPD) partial base slab @ Zone A2 (Step3)																															
SDB-6320	SDB - ELS Stage 1 - Capping plate, blinding and waterproofing @ Zone A3	10	09-Jan-26	20-Jan-26	-64	SDB - ELS Stage 1 - Capping plate, blinding and waterproofing @ Zone A3																															
SDB-6055	SDB - ELS Stage 1 - Backfill the Gap (-1.625 to -0.05mPD) @ Zone A1	5	09-Jan-26	14-Jan-26	-37	SDB - ELS Stage 1 - Backfill the Gap (-1.625 to -0.05mPD) @ Zone A1																															
SDB-6240	SDB - ELS Stage 1 - Structure (-1.625 to -0.05mPD) partial base slab @ Zone A3	10	21-Jan-26	31-Jan-26	-64	SDB - ELS Stage 1 - Structure (-1.625 to -0.05mPD) partial base slab @ Z																															



- Remaining Level of Effort
- Actual Work
- Remaining Work
- Critical Remaining Work
- ◆ Milestone

Contract DC/2019/10 - YLEPP - Main Works for Stage 1
Monthly Progress Report No. 60- 3MRP (Oct 25)

Project ID : DWP:55_251109
 Layout : DC201910 MPR60-3MRP
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Monthly Progress Report - 3MRP

Date	Revision	Checked	Approved
31-Oct-25			

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	October					November					December					January					February					March					April	
						28	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11	18	25	01	08	15	22	01	08	15	22	29	05				
SDB-6105	SDB - ELS Stage 1 - Backfill the Gap (-1.625 to -0.05mPD) @ Zone A2	5	21-Jan-26	26-Jan-26	-47																																
SDB Foundation - ELS (Base Slab and S4) - Zone B																																					
SDB-1400	SDB - ELS Stage 1 - Excavation (Zone B2, -1.625 to -2.625mPD) *MD	4	13-Dec-25	17-Dec-25	-71																																
SDB-6340	SDB - ELS Stage 1 - Capping plate, blinding and waterproofing @ Zone B2	6	18-Dec-25	24-Dec-25	-71																																
SDB-6060	SDB - ELS Stage 1 - Structure (-2.625 to -1.05mPD) partial base slab @ Zone B2 (Step1)	10	27-Dec-25	08-Jan-26	-71																																
SDB-6030	SDB - ELS Stage 1 - Strut Installation S4 (-0.8mPD) @ Zone B1 (Step2)	9	09-Jan-26	19-Jan-26	-71																																
SDB-6250	SDB - ELS Stage 1 - Strut Installation S4 (-0.8mPD) @ Zone B3+B4 (Step2)	9	09-Jan-26	19-Jan-26	-60																																
SDB-6070	SDB - ELS Stage 1 - Excavation (Zone B1, -1.625 to -3.825mPD) *MD (Step4)	3	20-Jan-26	22-Jan-26	-71																																
SDB-6140	SDB - ELS Stage 1 - Excavation (Zone B3, -1.625 to -2.625mPD) *MD (Step4)	3	20-Jan-26	22-Jan-26	-60																																
SDB-6330	SDB - ELS Stage 1 - Capping plate, blinding and waterproofing @ Zone B1	8	23-Jan-26	31-Jan-26	-71																																
SDB-6350	SDB - ELS Stage 1 - Capping plate, blinding and waterproofing @ Zone B3	8	23-Jan-26	31-Jan-26	-60																																
SDB Structure																																					
SDB Structure Zone A and B																																					
SDB Structure Zone 3A and 4A																																					
SDB-1530	SDB - Structure Zone A - Structure to Ground Floor (-0.05 to +3.0mPD) @Zone 4A+3A	12	27-Jan-26	09-Feb-26	-47																																
SDB Structure Zone C1 (Ramp)																																					
SDB-2340	SDB - Zone C1 Ramp - Install capping plate, blinding and waterproofing	12	07-Jan-26	20-Jan-26	-54																																
Administration Building (ADB)																																					
ADB Demolition																																					
ADB-1080	Demolition of Central Control Room (14)	35	08-Oct-25 A	18-Nov-25	-152																																
ADB-1530	Decommission & Demolition of Temporary pumping facilities for PST interim scheme and Detritor	30	08-Oct-25 A	18-Nov-25	-152																																
ADB-1070	Decommission & Demolition of Screw pump PS/Bar Screen Chamber/Screen. Press Hse	90	08-Oct-25 A	29-Nov-25	-104																																
ADB Foundation Works																																					
ADB Predrilling and Piling after Demolition																																					
ADB Predrilling																																					
ADB-1420	ADB - Predrill (AB-PD4) (within existing building footprint)	8	01-Dec-25	09-Dec-25	-104																																
ADB-1440	ADB - Predrill (AB-PD6) (within existing building footprint)	8	10-Dec-25	18-Dec-25	-104																																
ADB-1430	ADB - Predrill (AB-PD5) (within existing building footprint)	8	19-Dec-25	30-Dec-25	-104																																
ADB Excavation																																					
ADB-1110	ADB - Open Cut Excavation (+7.8 to +5.3mPD)	22	19-Nov-25	13-Dec-25	-152																																
ADB-1115	ADB - Installation of Sheetpile for Drainage, UU Works and Lift Opening between SDB/ADB	30	15-Dec-25	21-Jan-26	-152																																
ADB-1125	ADB - Installation of Centrate Pipe between SDB/ADB	30	22-Jan-26	28-Feb-26	-152																																
Underpass																																					
UDP Foundation and ELS Works																																					
UDP-1090	UDP - Driven H-piles mobilization	6	11-Oct-25 A	16-Oct-25 A																																	
UDP-1100	UDP - Driven H-piles (8nos., 370m @ 48m/d/riq, 1riq)	16	17-Oct-25 A	27-Oct-25 A																																	
UDP-1110	UDP - Driven H-piles mobilization	3	28-Oct-25 A	31-Oct-25 A																																	
UDP-1000	UDP - Sheet Pile Wall (384m2, 1riq) and mobilization	15	19-Nov-25	05-Dec-25	42																																
UDP-1040	UDP - Excavation (+5.5 to +3.3mPD)	5	06-Dec-25	11-Dec-25	42																																
UDP-1200	UDP - Strut Installation S2 + Water Connection (+4.8mPD)	14	12-Dec-25	30-Dec-25	42																																
UDP-1210	UDP - Excavation (+3.3 to +0.8mPD)	5	31-Dec-25	06-Jan-26	42																																
UDP-1050	UDP - Strut Installation S3 (+1.3mPD)	10	07-Jan-26	17-Jan-26	42																																
UDP-1060	UDP - Excavation (+0.8 to -1.625mPD)	5	19-Jan-26	23-Jan-26	42																																
UDP Structure																																					
UDP-1180	UDP - Install capping plate, blinding and waterproofing	5	24-Jan-26	29-Jan-26	42																																
UDP-1170	UDP - Structure (-1.25mPD to -0.05mPD) base slab @ -0.05mPD	10	30-Jan-26	10-Feb-26	42																																
External Works - Other Areas																																					
Water Meter Cabinet																																					
Water Meter Cabinet - Structure																																					
CLP-1360	Master Meter Cabinet - ABWF Works	10	11-Sep-25 A	01-Nov-25	-211																																
CLP-1370	Master Meter Cabinet - E&M	20	03-Nov-25	25-Nov-25	-211																																
CLP-1365	Master Meter Cabinet - BS Work	10	26-Nov-25	06-Dec-25	-211																																
Zone 2 Construction																																					
Mainstream Bio-Reactor & Auxiliary Facility (MBR and AF)																																					
MBR and AF Structure																																					
MBR - ELS Excavation & Demolition stage 2																																					
MBR - ELS of Central Corridor (Zone D)																																					
MBR - ELS of Central Corridor (North) - D1 and D3																																					
MBRAF-3760	MBR - Zone D1&3 - Construct partial base slab (-13.55 to -11.6mPD)	17	18-Sep-25 A	08-Oct-25 A																																	
MBRAF-3790	MBR - Zone D1&3 - Remove S6L, S6M, S6H, S6I, S6J & S6K	5	17-Oct-25 A	05-Nov-25	880																																
MBRAF-3765	MBR - Zone D1&3 - Construct upstem wall (-11.6 to -9.0mPD)	7	21-Oct-25 A	18-Nov-25	-328																																
MBR - ELS of Central Corridor (South) - D4																																					
MBRAF-3850	MBR - Zone D4 - Backfill slope, waterproofing and blinding (Batch 15/18)	4	06-Sep-25 A	15-Sep-25																																	
MBRAF-3840	MBR - Zone D4 - Remove S6N, S6O, S6Q	4	16-Oct-25 A	28-Oct-25 A																																	
MBRAF-3845	MBR - Zone D4 - Construct upstem wall (-11.6 to -9.0mPD)	8	25-Oct-25 A	03-Nov-25	-315																																
MBR Structure																																					
MBR Substructure																																					
MBR Substructure Zone C																																					

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	October					November					December					January					February					March					April				
						60					61					62					63					64					65					66				
						28	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11	18	25	01	08	15	22	01	08	15	22	29	05							
MBRAF-4000	MBR - Erection of tower crane AGS-TC1	6	31-Oct-25	06-Nov-25	-210																																			
MBRAF-3810	MBR - Zone A - Remove S5 (-7.8mPD), Waterproofing, Mass Fill S4	7	19-Nov-25	26-Nov-25	-235																																			
MBRAF-4480	MBR - Zone A - Construct Mass Concrete Zone A1+A2 (-6.975 to -5.6mPD)	7	21-Nov-25	28-Nov-25	-297																																			
MBR Substructure Zone B																																								
MBRAF-4420	MBR - Zone B - Construct Mass Concrete Zone B4 (-6.975 to -5.6mPD)	7	12-Sep-25 A	10-Nov-25	-317																																			
MBRAF-4310	MBR - Zone B - Construct Base Slab Zone B1+B3 (-8.295 to -6.975mPD)	14	17-Sep-25 A	29-Sep-25																																				
MBRAF-3870	MBR - Zone B - Remove S5 (-7.8mPD), Waterproofing, Mass Fill S4	7	04-Nov-25	11-Nov-25	-311																																			
MBRAF-4430	MBR - Zone B - Construct Mass Concrete Zone B2 (-6.975 to -5.6mPD)	7	11-Nov-25	18-Nov-25	-317																																			
MBRAF-4440	MBR - Zone B - Construct Mass Concrete Zone B1+B3 (-6.975 to -5.6mPD)	8	19-Nov-25	27-Nov-25	-317																																			
MBR Substructure Zone D																																								
MBRAF-4210	MBR - Zone D - Construct Transfer Plate Zone SD2 (Zone 7)@-5.6mPD	14	19-Nov-25	04-Dec-25	-328																																			
MBRAF-4330	MBR - Zone D - Construct Transfer Plate Zone SD1 (Zone 8)@-5.6mPD	14	26-Nov-25	11-Dec-25	-328																																			
MBRAF-5520	MBR - Zone D - S4 ELS removal @-3.6mPD (Zone 7 > Zone 8)	12	12-Dec-25	27-Dec-25	-328																																			
Central Corridor (Zone 7 & 8)																																								
MBRAF-5400	MBR - Zone D - Construct Wal / Slab Zone SD2@+0.5mPD	18	29-Dec-25	19-Jan-26	-328																																			
MBRAF-5410	MBR - Zone D - Construct Wal / Slab Zone SD1@+0.5mPD	18	17-Jan-26	06-Feb-26	-328																																			
MBR Structure Zone C (Tank 2, Tank 4 and Air Blower Rm)																																								
Tank 2 (Zone 2)																																								
MBRAF-4500	MBR - Remove S4 + Steel Platform C Bottom Bracing	8	27-Nov-25	05-Dec-25	-299																																			
MBRAF-4530	MBR - Construct Beam / Wal (-5.6 to +0.5mPD)	24	06-Dec-25	06-Jan-26	-299																																			
Tank 4 (Zone 4) + Air Blower Rm																																								
MBRAF-4600	MBR - Remove S4 + Steel Platform C Bottom Bracing	8	27-Nov-25	05-Dec-25	-275																																			
MBRAF-4630	MBR - Construct Beam / Wal (-5.6 to +0.5mPD)	24	07-Jan-26	03-Feb-26	-299																																			
MBR Structure Zone A (Tank 5 and Tank 6)																																								
Tank 5 (Zone 5)																																								
MBRAF-2520	MBR - Remove S4 + Steel Platform A Bottom Bracing	8	27-Nov-25	05-Dec-25	-211																																			
MBRAF-2550	MBR - Construct Beam / Wal (-5.6 to +0.5mPD)	24	13-Jan-26	09-Feb-26	-240																																			
Tank 6 (Zone 6)																																								
MBRAF-4700	MBR - Remove S4 + Steel Platform A Bottom Bracing	8	27-Nov-25	05-Dec-25	-235																																			
MBRAF-4730	MBR - Construct Beam / Wal (-5.6 to +0.5mPD)	24	12-Dec-25	12-Jan-26	-240																																			
MBR Structure Zone B (Tank 1 and Tank 3)																																								
Tank 1 (Zone 1)																																								
MBRAF-2660	MBR - Remove S4 + Steel Platform B Bottom Bracing	8	12-Nov-25	20-Nov-25	-311																																			
MBRAF-2690	MBR - Construct Beam / Wal (-5.6 to +0.5mPD)	24	05-Dec-25	05-Jan-26	-323																																			
MBRAF-2710	MBR - Construct Beam / Wal (+0.5 to +5.15mPD)	20	30-Jan-26	25-Feb-26	-323																																			
Tank 3 (Zone 3)																																								
MBRAF-4800	MBR - Remove S4, + Steel Platform B Bottom Bracing	8	12-Nov-25	20-Nov-25	-290																																			
MBRAF-4830	MBR - Construct Beam / Wal (-5.6 to +0.5mPD)	24	02-Jan-26	29-Jan-26	-323																																			
Tertiary Treatment System (TTS)																																								
TTS Structure																																								
TTS Substructure																																								
Substructure																																								
TTS-2320-1	TTS - Removal of West Steel Deck/ Platform (Zone SF)	12	04-Oct-25 A	13-Oct-25 A																																				
TTS-2320-2	TTS - Modification of Platform Struts (Zone SE)	12	08-Oct-25 A	16-Oct-25 A																																				
TTS-1460-1	TTS - Remove South West Corner Struts at SF & SD (+1.65mPD)	12	15-Oct-25 A	17-Oct-25 A																																				
TTS-1460-2	TTS - Remove North West & North East & South East Corner Struts at SA & SC & SB (+1.65mPD)	14	28-Oct-25 A	17-Nov-25	-321																																			
TTS-2320-3	TTS - Removal of East Steel Deck/ Platform (Zone SE)	12	13-Dec-25	29-Dec-25	-318																																			
Zone SD																																								
TTS-1360-1	TTS - Zone SD Wal to S1 (+1.1mPD to +2.183mPD) (LG/F - LG3)	8	18-Oct-25 A	06-Nov-25	-313																																			
TTS-1515	TTS - Zone SD Install Backprop, Waterproofing and Backfill for Remove S1	12	07-Nov-25	20-Nov-25	-300																																			
TTS-1515-1	TTS - Zone SD Remove Corner Strut at +3.65mPD (LG3)	9	21-Nov-25	01-Dec-25	-300																																			
TTS-2330-1	TTS - Zone SD Wal (+2.183mPD to +5.95mPD) and Slab to +5.95mPD (G/F - G3)	16	02-Dec-25	19-Dec-25	-300																																			
TTS-2340	TTS - Zone SD Waterproofing and Backfill	5	20-Dec-25	27-Dec-25	-264																																			
Zone SA																																								
TTS-1465	TTS - Zone SA Waterproofing and Backfill for Remove S2 (below -0.050mPD)	24	03-Oct-25 A	28-Oct-25 A																																				
TTS-1490-1	TTS - Zone SA Wal to S1 (+1.1mPD to +2.183mPD) (LG/F - LG4)	8	18-Nov-25	26-Nov-25	-315								</																											

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	October					November					December					January					February					March					April	
						28	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11	18	25	01	08	15	22	01	08	15	22	29	05				
Z3S3-4330	STB - Incoming Cable Containment&Cabling Works from TX No.5 to LVSB	12	03-Nov-25	15-Nov-25	13																																
Z3S3-4320	STB - PLC Panel Installation	6	17-Nov-25	22-Nov-25	13																																
Z3S3-4360	STB - Station Installation	26	24-Nov-25	23-Dec-25	10																																
Z3S3-4340	STB - UPS System	21	24-Dec-25	20-Jan-26	13																																
Z3S3-3720	STB - Energization & SAT of LVSB	11	21-Jan-26	31-Jan-26	16																																
Z3S3-4350	STB - Termination Works (TX to LVSB)	6	26-Jan-26	31-Jan-26	13																																
STB E&M : DOU3 @+13.5mPD																																					
Z3S3-2800	STB - DOU Equipment Installation	41	01-Nov-25	18-Dec-25	10																																
Z3S3-4280	STB - GRP Main Duct Installation	26	19-Nov-25	18-Dec-25	15																																
Z3S3-4290	STB - Leakage Test	58	19-Dec-25	14-Feb-26	21																																
Z3S3-4295	STB - Seeding for Bio-Tricking Filter of DOU3	58	01-Jan-26	27-Feb-26	22																																
STB E&M : Installation and Set-Up for SCADA System																																					
Z3S3-2815	STB - Installation of SCADA System (calibration,cabling,termination)	76	01-Nov-25	31-Jan-26	13																																
STB E&M : Electrical works (Cable wiring, termination)																																					
Z3S3-2850	STB - Electrical works (Cable containment, cabling, LCP, termination)	25	19-Dec-25	20-Jan-26	13																																
STB External Pipeworks																																					
Z3S7-2100	STB - Temporary system and associated pipeworks for Location E to STB	90	08-Nov-25	27-Feb-26	49																																
Z3S7-2120	STB - Temporary routing of power source for STB LVSB energization *for KD4	24	08-Nov-25	05-Dec-25	49																																
Zone 3 Middle Portion (Z3M)																																					
Demolition																																					
Existing SDT 1-4																																					
Z3S7-2160	Tanker-away scheme - Road Diversion on H2S/SD6 for Sheepiling of SD4-6	12	19-Dec-25	05-Jan-26	-196																																
Sludge Digester No. 4-6 (SD4-6)																																					
SD4-6 : Foundation and ELS																																					
SD4-6 : Sheetpiling																																					
Z3S8SD-2035	Sludge Digester No. 4-6 - Plant Mobilization and Trial for Sheet Pile Installation	10	31-Oct-25	11-Nov-25	-296																																
Z3S8SD-2040	Sludge Digester No. 4-6 - Sheet Piles Install (Zone A, 1292 m2,@40m2/d/rig, 1 rig) UC East Side	32	12-Nov-25	18-Dec-25	-296																																
Z3S8SD-2330	Sludge Digester No. 4-6 - Sheet Piles Install (Zone B, 1,638 m2,@30m2/d/rig, 1 rigs) common wall	56	28-Nov-25	04-Feb-26	-296																																
Z3S8SD-2480	Sludge Digester No. 4-6 - Sheet Piles Install (Zone C, 1,690 m2,@30m2/d/rig, 1 rigs) West Side	56	22-Dec-25	03-Mar-26	-296																																
Biogas Holder No. 2-4 (BH2-4)																																					
Biogas Holder No. 2-3 (BH2-3)																																					
BH2-3 : Foundation																																					
Z3BH-1028	Biogas Holder No. 2-4 - H-Pile Testing + De-Mobilization	14	12-Sep-25	03-Oct-25																																	
Z3BH-1035	Biogas Holder No. 2-4 - Sheetpile (TL-11mPD, 1050m2 @ 90m2/d/rig, 1 rig)	18	06-Oct-25	20-Oct-25																																	
Z3BH-1038	Biogas Holder No. 2-4 - Excavation to Formation for Base Slab Construction + Capping Plate + Water	24	18-Oct-25	27-Nov-25	54																																
Z3BH-1045	Biogas Holder No. 2-3 - 800 Thick Base Slab and retaining wall to +6mPD	30	28-Nov-25	05-Jan-26	54																																
BH2 - E&M Installation																																					
ATALZ3BH-2259	BH No. 2 - E&M Handover	0	06-Jan-26		54																																
ATALZ3BH-2525	BH No. 2 - Material delivery and base preparation (plinth leveling and bitumen coating, drainage)	6	06-Jan-26	12-Jan-26	54																																
ATALZ3BH-2535	BH No. 2 - Tank base plate installation and welding	22	13-Jan-26	06-Feb-26	50																																
BH3 - E&M Installation																																					
ATALZ3BH-2725	BH No. 3 - E&M Handover	0	06-Jan-26		54																																
ATALZ3BH-2735	BH No. 3 - Material delivery and base preparation (plinth leveling and bitumen coating, drainage)	6	06-Jan-26	12-Jan-26	54																																
ATALZ3BH-2745	BH No. 3 - Tank base plate installation and welding	22	13-Jan-26	06-Feb-26	50																																
H2S Removal System (H2S) - Stage 1 (3 nos)																																					
H2S : Civil and Structural Works																																					
H2S-170	H2S1 Removal System - Structure Base Slab	30	21-Nov-25	27-Dec-25	-33																																
Utility Corridor and Pipe Portal (UC/PP)																																					
Utility Corridor No. 2 (UC2)																																					
UC2 : Foundation and ELS																																					
Z3S2-4060	UC2 - Monitoring Installation	7	16-Jan-26	23-Jan-26	171																																
Z3S2-4090	UC2 - Pumping test	7	24-Jan-26	30-Jan-26	213																																
Utility Corridor No. 3 (UC3)																																					
UC3 : Foundation and ELS																																					
Z3S2-2150	UC3 - Sheetpile Installation (450m2 @60m2/d)	21	19-Dec-25	15-Jan-26	20																																
Z3S2-3060	UC3 - Monitoring Installation	7	16-Jan-26	23-Jan-26	20																																
Z3S2-3560	UC3 - Pumping test	7	24-Jan-26	30-Jan-26	27																																
Zone 3 South Portion (Z3S)																																					
Sludge Digester No. 1-3 (SD1-3)																																					
SD1-3 : Civil and Structural Works																																					
SD1 : Structure																																					
Z3S3-2440	Sludge Digester No. 1 - Structure (pour 4) (+8.2 to +14.75mPD)	18	09-Sep-25	03-Oct-25																																	
Z3S3-3650	Sludge Digester No. 1 - Structure roof slab (+14.75 to +18.3mPD)	30	09-Oct-25	13-Nov-25	-288																																
SD2 : Structure																																					
Z3S3-6510	Sludge Digester No. 2 - Structure (pour 3) (+1.65 to +8.2mPD)	18	01-Sep-25	22-Sep-25																																	
Z3S3-6520	Sludge Digester No. 2 - Structure (pour 4) (+8.2 to +14.75mPD)	18	23-Sep-25	20-Oct-25																																	
Z3S3-6530	Sludge Digester No. 2 - Structure roof slab (+14.75 to +18.3mPD)	30	24-Oct-25	29-Nov-25	-257																																
SD3 : Structure																																					
Z3S3-5300	Sludge Digester No. 3 - Structure (pour 4) (+8																																				

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	October					November					December					January					February					March					April	
						60					61					62					63					64					65					66	
						28	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11	18	25	01	08	15	22	01	08	15	22	29	05				
SD1-3 : E&M Installation																																					
SD1 : E&M Installation																																					
Z3S3-2669	SDT No.1 - E&M 1st Handover	0	25-Nov-25		-288																																
Z3S3-2675	SDT No.1 - External Draft Tube - Lower	18	25-Nov-25	15-Dec-25	-288																																
Z3S3-2680	SDT No.1 - External Draft Tube and Heat Exchanger Installation - Upper	19	16-Dec-25	09-Jan-26	-287																																
SD2 : E&M Installation																																					
Z3S3-6540	SDT No.2 - E&M 1st Handover	0	11-Dec-25		-257																																
Z3S3-6550	SDT No.2 - External Draft Tube - Lower	16	11-Dec-25	31-Dec-25	-257																																
Z3S3-6560	SDT No.2 - External Draft Tube and Heat Exchanger Installation - Upper	23	02-Jan-26	28-Jan-26	-257																																
SD3 : E&M Installation																																					
Z3S3-5550	SDT No.3 - E&M 1st Handover	0	07-Dec-25		-337																																
Z3S3-4590	SDT No.3 - External Draft Tube - Lower	16	08-Dec-25	27-Dec-25	-273																																
Z3S3-4595	SDT No.3 - External Draft Tube and Heat Exchanger Installation - Upper	22	29-Dec-25	23-Jan-26	-275																																
Biogas Holder No. 1 (BH1)																																					
BH1 : E&M Installation																																					
ATALZ3BH-2505	BH No. 1 - Installation of tank accessories (telescopic guide, staircase, safety valve, sensors) and touch-up paint	15	04-Sep-25	10-Nov-25	97																																
ATALZ3BH-2515	BH No. 1 - Specialist inspection on structure and membrane	4	11-Nov-25	14-Nov-25	97																																
BH1 : Testing & Commissioning																																					
ATALZ3BH-2070	BH No. 1 - T&C - E&M SAT of Biogas Holder No.1 (using Air to test membrane only)	16	15-Nov-25	03-Dec-25	97																																
ATALZ3BH-2090	BH No. 1 - T&C - E&M SAT of whole Biogas Holder No.1 and associated valve and pipework (N2 Purging)	21	15-Nov-25	09-Dec-25	96																																
ATALZ3BH-2100	BH No. 1 - T&C - E&M SAT of Biogas Booster Pump No.1	21	15-Nov-25	09-Dec-25	96																																
ATALZ3BH-1050	BH No. 1 - Early System Commissioning without H2S Removal System	30	10-Dec-25	08-Jan-26	124																																
BH1 : Diversion Works																																					
Z3S7-2070	BH No. 1 - Temporary system and associated pipeworks for early commissioning of BH1	30	05-Nov-25	09-Dec-25	96																																



■ Remaining Level of Effort
■ Actual Work
■ Remaining Work
■ Critical Remaining Work
◆ Milestone

Contract DC/2019/10 - YLEPP - Main Works for Stage 1
Monthly Progress Report No. 60- 3MRP (Oct 25)

Project ID : DWP:55_251109
 Layout : DC201910 MPR60-3MRP
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Monthly Progress Report - 3MRP			
Date	Revision	Checked	Approved
31-Oct-25			

Activity ID	Activity Name	Remaining Duration	BL Start (DE/2020/01 RP R33)	BL Finish (DE/2020/01 RP R33)	Start	Finish	Total Float	Activity % Complete	2025				2026						
									Nov	Dec	Jan	Feb	Mar						
YLEPP - E&M Works for SDB, ADB & Renewable Energy Facilities for Stage1_3MRP										43	44	45	46	47					
Contract Data																			
Starting Date & Completion Date																			
CD-1020	Whole Contract Period (1650 days after starting date)	384	14-Jun-22	19-Dec-26	14-Jun-22 A	19-Dec-26	0	76.73%											
Access Date																			
CD-AD1010	Early Access Date for Portion 1	0	01-Aug-25		01-Dec-25		837	0%											
CD-AD1020	Late Access to Portion 1 - Sludge Thickening Building (1578 calendar days from starting date)	311	13-Jun-22	07-Oct-26	13-Jun-22 A	07-Oct-26	526	80.29%											
CD-AD1090	Early Access Date for Portion 3	0	17-Aug-25		01-Dec-25		837	0%											
CD-AD1100	Late Access to Portion 3 - Sludge Dewatering Building (Within 1231 calendar days from starting date)	1	13-Jun-22	25-Oct-25	13-Jun-22 A	01-Dec-25	836	99.92%											
CD-AD1110	Late Access Date for Portion 3	0	25-Oct-25		01-Dec-25		837	0%											
CD-AD1120	Early Access to Portion 4 - Administration Building (Within 1283 calendar days from starting date)	16	13-Jun-22	16-Dec-25	13-Jun-22 A	16-Dec-25	821	98.75%											
CD-AD1130	Early Access Date for Portion 4	0	16-Dec-25		16-Dec-25		822	0%											
CD-AD1140	Late Access to Portion 4 - Administration Building (Within 1370 calendar days from starting date)	103	13-Jun-22	13-Mar-26	13-Jun-22 A	13-Mar-26	734	92.48%											
CD-AD1160	Early Access to Portion 5 - Mainstream Bio-Reactor Building (Within 1346 calendar days from starting date)	79	13-Jun-22	17-Feb-26	13-Jun-22 A	17-Feb-26	758	94.13%											
CD-AD1170	Early Access Date for Portion 5	0	17-Feb-26		17-Feb-26		759	0%											
CD-AD1180	Late Access to Portion 5 - Mainstream Bio-Reactor Building (Within 1451 calendar days from starting date)	184	13-Jun-22	02-Jun-26	13-Jun-22 A	02-Jun-26	653	87.32%											
CD-AD1200	Early Access to Portion 6 - Primary Sedimentation Tanks (Within 1374 calendar days from starting date)	107	13-Jun-22	17-Mar-26	13-Jun-22 A	17-Mar-26	730	92.21%											
CD-AD1220	Late Access to Portion 6 - Primary Sedimentation Tanks (Within 1520 calendar days from starting date)	253	13-Jun-22	10-Aug-26	13-Jun-22 A	10-Aug-26	584	83.36%											
Planned Date																			
Planned Access Date																			
PD-AD1000	Planned Early Access Date for Portion 1 - Sludge Thickening Building	0	31-Aug-25		01-Dec-25		313	0%											
PD-AD1040	Planned Early Access Date for Portion 3 - Sludge Dewatering Building	0	17-Aug-25		01-Dec-25		-142	0%											
PD-AD1050	Planned Late Access Date for Portion 3 - Sludge Dewatering Building	0	25-Oct-25		01-Dec-25		-142	0%											
PD-AD1060	Planned Early Access Date for Portion 4 - Administration Building	0	13-Jun-26		16-Dec-25		90	0%											
PD-AD1080	Planned Early Access Date for Portion 5 - Mainstream Bio-Reactor Building	0	17-Feb-26		17-Feb-26		105	0%											
PD-AD1120	Planned Early Access Date for CLPSS / 11kV Switchroom	0	31-Aug-25		01-Dec-25		262	0%											
PD-AD1130	Planned Late Access Date for CLPSS / 11kV Switchroom	0	01-Aug-25		01-Dec-25		262	0%											
Preliminaries																			
BEAM Plus																			
P-1190	Application to BEAM Society & provide Provisional Assessment (PA) report	235	01-May-25	29-Jul-25	15-Apr-25 A	23-Jul-26	-366	49.57%											
Section 1 - Comprises design, supply, delivery, installation, T&C of PV System of YLEPP																			
Technical Submission & Approval																			
DDA Submission																			
PV System (DDA001A)																			
S1-DDA-1030	Review & Approval of DDA Design of PV system	15	31-Aug-25	25-Sep-25	29-Jul-25 A	15-Dec-25	-259	89.29%											
PV System for canopy area (DDA001B)																			
S1-DDA-1040	Prepare & Submission of DDA Design of PV system for Canopy Area	15			17-Sep-25 A	15-Dec-25	-87	83.33%											
S1-DDA-1070	Review & Approval of DDA Design of PV system for Canopy Area	46			16-Dec-25	30-Jan-26	-87	0%											
Ramp and Shelter for PV System (DDA001C)																			
S1-DDA-1080	Prepare & Submission of DDA Design of Ramp and Shelter for PV System	15			17-Sep-25 A	15-Dec-25	-87	83.33%											
S1-DDA-1110	Review & Approval of DDA Design of Ramp and Shelter for PV System	46			16-Dec-25	30-Jan-26	-87	0%											
Lighting Layout for Roof Floor in IW, PST, AGS, TTB, STB (DDA001D)																			
S1-DDA-1120	Prepare & Submission of DDA Design of Lighting Layout for Roof Floor in IW, PST, AGS, TTB, STB	46			01-Nov-25 A	15-Jan-26	-162	39.47%											
S1-DDA-1130	Review & Comment on DDA Design of Lighting Layout for Roof Floor in IW, PST, AGS, TTB, STB	21			16-Jan-26	05-Feb-26	-162	0%											
S1-DDA-1140	Re-submission of DDA Design of Lighting Layout for Roof Floor in IW, PST, AGS, TTB, STB	48			06-Feb-26	25-Mar-26	-162	0%											



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Based on DE/2020/01 Revised Programme Rev.33			
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31-Aug-25	Rev.37	IM	JM
30-Sep-25	Rev.38	IM	JM
31-Oct-25	Rev.39	IM	JM
30-Nov-25	Rev.40	IM	JM

Activity ID	Activity Name	Remaining Duration	BL Start (DE/2020/01 RP R33)	BL Finish (DE/2020/01 RP R33)	Start	Finish	Total Float	Activity % Complete	2025					2026				
									Nov	Dec	Jan	Feb	Mar	43	44	45	46	47
Plant & Material Submission																		
Smart Sun Tracking and Automatic Collapse and Expand Solar PV System (EL002)																		
S1-PMS-1150	Review & Approval of Smart Sun Tracking & Automatic Collapse & Expand Solar PV System	61			11-Oct-25 A	30-Jan-26	31	45.54%	[Gantt bar: 11-Oct-25 to 30-Jan-26]									
Support Frame/ System of PV panel (EL003)																		
S1-PMS-1110	Review & Approval of Support Frame/ System of PV panel	15	09-Dec-25	26-Feb-26	11-Oct-25 A	15-Dec-25	-169	77.27%	[Gantt bar: 11-Oct-25 to 15-Dec-25]									
Method Statement																		
S1-MS-1000	Prepare & Submission of method statement of installation of PV System	60	26-Sep-25	24-Nov-25	01-Dec-25	29-Jan-26	-304	0%	[Gantt bar: 01-Dec-25 to 29-Jan-26]									
S1-MS-1010	Review & Comment on method statement of installation of PV System	30	25-Nov-25	24-Dec-25	30-Jan-26	28-Feb-26	-304	0%	[Gantt bar: 30-Jan-26 to 28-Feb-26]									
Manufacture, FAT & Delivery of Major Equipment (Inc. PV Panel, Power Optimizer, Switchgear, etc...)																		
Portion 2 - Inlet Works																		
S1-IW-MD-1000	Manufacture with FAT (5 months) & Delivery(1 month) of PV Panel - IW	70	20-Sep-25	20-Mar-26	11-Aug-25 A	08-Feb-26	-116	61.54%	[Gantt bar: 11-Aug-25 to 08-Feb-26]									
S1-IW-MD-1010	Pre-fabrication Test for Solar PV system - IW	20	21-Mar-26	09-Apr-26	09-Feb-26	28-Feb-26	-116	0%	[Gantt bar: 09-Feb-26 to 28-Feb-26]									
S1-IW-MD-1020	Manufacture with FAT (5 months) & Delivery(1 month) of Support Framework - IW	0	21-Dec-25	20-Mar-26	05-May-25 A	31-Oct-25 A		100%	[Gantt bar: 05-May-25 to 31-Oct-25]									
Portion 5 - Mainstream Bio-Reactor Building																		
S1-MBR-MD-1020	Manufacture with FAT (5 months) & Delivery(1 month) of Support Framework - Admin Building	181	21-Dec-25	20-Mar-26	25-Dec-25*	23-Jun-26	-22	0%	[Gantt bar: 25-Dec-25 to 23-Jun-26]									
Interfacing Works																		
S1-IFW-1010	Design Submission with interface works for LV switchboard interfacing arrangement for Renewable Energy	90	26-Sep-25	24-Dec-25	16-Dec-25	15-Mar-26	-259	0%	[Gantt bar: 16-Dec-25 to 15-Mar-26]									
S1-IFW-1040	Cleansing point for PV panel cleansing at roof floor (STB, IW, PST, MBR, SDB & CLP)	90	26-Sep-25	24-Dec-25	16-Dec-25	15-Mar-26	-259	0%	[Gantt bar: 16-Dec-25 to 15-Mar-26]									
Section 2 - Comprises design, supply, delivery, installation, T&C of BS works of Admin. Building																		
Technical Submission & Approval																		
Subletting																		
Fire Services System																		
S2-ADB-SUB-1000	Tendering of FS System subcontractor	20	01-Dec-23	08-Oct-25	23-Nov-23 A	20-Dec-25	-107	97.36%	[Gantt bar: 23-Nov-23 to 20-Dec-25]									
S2-ADB-SUB-1010	Engagement of FS System subcontractor	31	02-Sep-25	01-Oct-25	21-Dec-25	20-Jan-26	-107	0%	[Gantt bar: 21-Dec-25 to 20-Jan-26]									
MVAC System																		
S2-ADB-SUB-1020	Tendering of MV System subcontracting	20	01-Jun-24	09-Dec-25	24-May-24 A	20-Dec-25	-165	96.53%	[Gantt bar: 24-May-24 to 20-Dec-25]									
S2-ADB-SUB-1030	Engagement of MV System subcontracting	31	02-Dec-25	31-Dec-25	21-Dec-25	20-Jan-26	-165	0%	[Gantt bar: 21-Dec-25 to 20-Jan-26]									
S2-ADB-SUB-1200	Tendering of AC System subcontracting	20			13-Aug-25 A	20-Dec-25	-112	84.62%	[Gantt bar: 13-Aug-25 to 20-Dec-25]									
S2-ADB-SUB-1210	Engagement of AC System subcontracting	31			21-Dec-25	20-Jan-26	-112	0%	[Gantt bar: 21-Dec-25 to 20-Jan-26]									
LVSB																		
S2-ADB-SUB-1060	Tendering of LVSB	28	04-Jul-24	15-May-25	04-Jun-24 A	28-Dec-25	56	95.11%	[Gantt bar: 04-Jun-24 to 28-Dec-25]									
S2-ADB-SUB-1070	Engagement of LVSB	31	16-May-25	30-Oct-25	29-Dec-25	28-Jan-26	56	0%	[Gantt bar: 29-Dec-25 to 28-Jan-26]									
Electrical System																		
S2-ADB-SUB-1080	Tendering of Electrical System (BS)	91	04-Jul-24	30-Oct-25	04-Jun-24 A	01-Mar-26	-178	84.23%	[Gantt bar: 04-Jun-24 to 01-Mar-26]									
P&D System																		
S2-ADB-SUB-1120	Tendering of P&D System	100	01-Oct-24	30-Dec-25	01-Sep-24 A	10-Mar-26	-65	79.88%	[Gantt bar: 01-Sep-24 to 10-Mar-26]									
CCTV, ACS and Security System																		
S2-ADB-SUB-1140	Tendering of CCTV, ACS & Security system	72	01-Oct-24	09-Apr-26	01-Sep-24 A	10-Feb-26	-211	86.36%	[Gantt bar: 01-Sep-24 to 10-Feb-26]									
S2-ADB-SUB-1150	Engagement of CCTV, ACS & Security system	28	11-Mar-26	09-Apr-26	11-Feb-26	10-Mar-26	-211	0%	[Gantt bar: 11-Feb-26 to 10-Mar-26]									
Radio Communication, Telephone & PA System																		
S2-ADB-SUB-1160	Tendering of Radio Communication, Telephone & PA System	72	01-Oct-24	09-Apr-26	01-Sep-24 A	10-Feb-26	-48	86.36%	[Gantt bar: 01-Sep-24 to 10-Feb-26]									
S2-ADB-SUB-1170	Engagement of Radio Communication, Telephone & PA System	28	11-Mar-26	09-Apr-26	11-Feb-26	10-Mar-26	-48	0%	[Gantt bar: 11-Feb-26 to 10-Mar-26]									
PLC and SCADA System & Network integration																		
S2-ADB-SUB-1180	Tendering of PLC, SCADA System, & Network Integration	110	21-Sep-24	29-Oct-25	21-Sep-24 A	20-Mar-26	-335	80.9%	[Gantt bar: 21-Sep-24 to 20-Mar-26]									
AIP Submission																		
For remaining																		
P&D System (AIP025)																		
S2-ADB-AIP-1230	Approval of AIP Design of P&D System	0	01-Oct-24	21-Nov-25	10-Sep-24 A	30-Oct-25 A		100%	[Gantt bar: 10-Sep-24 to 30-Oct-25]									
DDA Submission																		
Civil Requirement (DDA037)																		
S2-ADB-CR-1080	Prepare & Submission of civil requirement & general arrangement drawing of Administration Building	61	01-May-25	15-Dec-25	01-Apr-25 A	30-Jan-26	-321	79.73%	[Gantt bar: 01-Apr-25 to 30-Jan-26]									



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30-Nov-25	Rev.40	IM	JM

Activity ID	Activity Name	Remaining Duration	BL Start (DE/2020/01 RP R33)	BL Finish (DE/2020/01 RP R33)	Start	Finish	Total Float	Activity % Complete	2025					2026					
									Nov	Dec	Jan	Feb	Mar	43	44	45	46	47	
S2-ADB-CR-1090	Review & comment on civil requirement & general arrangement drawing of Administration Building	21	16-Nov-25	06-Dec-25	31-Jan-26	20-Feb-26	-321	0%											
S2-ADB-CR-1100	Re-submission of civil requirement & general arrangement drawing of Administration Building	323	07-Dec-25	05-Jan-26	21-Feb-26	09-Jan-27	-321	0%											
Fire Services System (DDA018)																			
S2-ADB-DDA-1020	Re-submission of DDA Design of FS System	0	17-Aug-25	19-Nov-25	27-May-25 A	31-Oct-25 A		100%											
S2-ADB-DDA-1030	Approval of DDA Design of FS System	151	20-Nov-25	19-Dec-25	01-Nov-25 A	30-Apr-26	-127	16.57%											
MVAC System (with effluent cooling system) (DDA019)																			
MV System (in SDB and ADB) (DDA019a)																			
S2-ADB-DDA-1070	Approval of DDA Design of MV System	151	13-Dec-25	02-Jan-26	30-Aug-25 A	30-Apr-26	-122	38.11%											
AC system (AC system in SDB and with Effluent Cooling System in ADB) (DDA019b)																			
S2-ADB-DDA-1560	Prepare & Submission of DDA Design of AC System (with effluent cooling system)	20	15-Oct-25	12-Jan-26	22-Oct-25 A	20-Dec-25	-232	66.67%											
S2-ADB-DDA-1570	Review & comment on DDA Design of AC System (with effluent cooling system)	21	13-Jan-26	02-Feb-26	21-Dec-25	10-Jan-26	-122	0%											
S2-ADB-DDA-1580	Re-submission of DDA Design of AC System (with effluent cooling system)	60	03-Feb-26	03-Apr-26	11-Jan-26	11-Mar-26	-122	0%											
Electrical System																			
Electrical System - Single Line Diagram of Electrical System (DDA021A)																			
S2-ADB-DDA-1150	Approval of DDA Design of Single Line Diagram	90	21-Aug-25	25-Sep-25	19-Aug-25 A	28-Feb-26	-144	53.61%											
Electrical System - LV Power Distribution System (DDA021B)																			
S2-ADB-DDA-1320	Prepare & Submission of DDA Design of LV Power Distribution System	53	01-Apr-25	10-Jan-26	10-Dec-24 A	22-Jan-26	-144	87.04%											
S2-ADB-DDA-1350	Approval of DDA Design of LV Power Distribution System	37	01-Dec-25	21-Dec-25	23-Jan-26	28-Feb-26	-144	0%											
Electrical System - Control Wiring Diagram for LV Switchboard (DDA021C)																			
S2-ADB-DDA-1360	Prepare & Submission of DDA Design of Control Wiring Diagram for LV Switchboard	53	01-Jan-25	12-Oct-25	10-Dec-24 A	22-Jan-26	-144	87.04%											
S2-ADB-DDA-1390	Approval of DDA Design of Control Wiring Diagram for LV Switchboard	37	01-Dec-25	21-Dec-25	23-Jan-26	28-Feb-26	-144	0%											
Building Services Electrical System																			
Building Services Electrical System - Lighting System of SDB & ADB (DDA024A)																			
S2-ADB-DDA-1190	Approval of DDA Design of Lighting system	151	21-Dec-25	10-Jan-26	29-Jul-25 A	30-Apr-26	-17	45.29%											
Building Services Electrical System - Small Power System of SDB & ADB (DDA024B)																			
S2-ADB-DDA-1470	Approval of DDA Design of Small Power System	151	05-Nov-25	25-Nov-25	13-Aug-25 A	30-Apr-26	-17	42.15%											
Building Services Electrical System - Cable Containment (DDA024C)																			
S2-ADB-DDA-1500	Re-submission of DDA Design of Cable Containment	5	01-Sep-25	04-Nov-25	09-Aug-25 A	05-Dec-25	4	95.8%											
S2-ADB-DDA-1510	Approval of DDA Design of Cable Containment	125	05-Nov-25	25-Nov-25	06-Dec-25	09-Apr-26	4	0%											
Building Services Electrical System - Lighting Control System (DDA024D)																			
S2-ADB-DDA-1540	Re-submission of DDA Design of Lighting Control System	51	23-Aug-25	04-Nov-25	05-Jul-25 A	20-Jan-26	-47	74.5%											
S2-ADB-DDA-1550	Approval of DDA Design of Lighting Control System	130	17-Sep-25	25-Nov-25	21-Jan-26	30-May-26	-47	0%											
Building Services Electrical System - Master Electrical Installation Details (DDA024E)																			
S2-ADB-DDA-1600	Prepare & Submission of DDA Design of Master Electrical Installation Details	46			18-Oct-25 A	15-Jan-26	-36	48.89%											
S2-ADB-DDA-1610	Review & comment on DDA Design of Master Electrical Installation Details	21			16-Jan-26	05-Feb-26	-36	0%											
S2-ADB-DDA-1620	Re-submission of DDA Design of Master Electrical Installation Details	53			06-Feb-26	30-Mar-26	-36	0%											
P&D System (DDA025)																			
S2-ADB-DDA-1200	Prepare & Submission of DDA Design of P&D System	72	01-Oct-25	14-Dec-25	01-Nov-25 A	10-Feb-26	-187	29.41%											
S2-ADB-DDA-1210	Review & comment on DDA Design of P&D System	21	15-Dec-25	04-Jan-26	11-Feb-26	03-Mar-26	-113	0%											
CCTV, ACS & Security system (DDA026)																			
S2-ADB-DDA-1260	Re-submission of DDA Design of CCTV, ACS & Security system	72	03-Apr-26	22-May-26	22-Oct-25 A	10-Feb-26	-262	0%											
S2-ADB-DDA-1270	Approval of DDA Design of CCTV, ACS & Security system	79	23-May-26	12-Jun-26	11-Feb-26	30-Apr-26	-262	0%											
Radio Communication System, Telephone System & PA System (DDA027)																			
S2-ADB-DDA-1280	Prepare & Submission of DDA Design of Radio Communication, Telephone & PA System	72	01-May-25	19-Mar-26	27-Mar-25 A	10-Feb-26	-78	77.71%											
S2-ADB-DDA-1290	Review & comment on DDA Design of Radio Communication, Telephone & PA System	21	13-Feb-26	05-Mar-26	11-Feb-26	03-Mar-26	-78	0%											
Plant & Material Submission																			
MVAC System																			
Dehumidifier (BS001)																			
S2-ADB-PMS-1000	Prepare & Submission of Dehumidifier	66	01-Feb-25	01-Jan-26	01-Oct-25 A	04-Feb-26	-224	0%											
S2-ADB-PMS-1010	Review & Approval of Dehumidifier	75	23-Oct-25	12-Nov-25	05-Feb-26	20-Apr-26	-224	0%											
Prefilter and After filter (BS002)																			
S2-ADB-PMS-1320	Prepare & Submission of Prefilter and After Filter	66			01-Oct-25 A	04-Feb-26	-224	0%											



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Activity ID	Activity Name	Remaining Duration	BL Start (DE/2020/01 RP R33)	BL Finish (DE/2020/01 RP R33)	Start	Finish	Total Float	Activity % Complete	2025					2026		
									Nov	Dec	Jan	Feb	Mar	Jan	Feb	Mar
S2-ADB-PMS-1330	Review & Approval of Prefilter and After Filter	75			05-Feb-26	20-Apr-26	-224	0%	43	44	45	46	47			
Axial/Propeller/Centrifugal/ Jet Fan (BS003)																
S2-ADB-PMS-1360	Prepare & Submission of Axial/Propeller/Centrifugal/ Jet Fan	0			01-Oct-25 A	28-Nov-25 A		100%								
S2-ADB-PMS-1390	Review & Approval of Axial/Propeller/Centrifugal/ Jet Fan	141			29-Nov-25 A	20-Apr-26	-224	1.4%								
Volume Control/Fire Damper, Louver, Griller and Air Ductwork (BS004)																
S2-ADB-PMS-1400	Prepare & Submission of Volume Control/Fire Damper, Louver, Griller and Air Ductwork	0			01-Oct-25 A	28-Nov-25 A		100%								
S2-ADB-PMS-1430	Review & Approval of Volume Control/Fire Damper, Louver, Griller and Air Ductwork	141			29-Nov-25 A	20-Apr-26	-224	1.4%								
Acoustic Silencer (BS005)																
S2-ADB-PMS-1440	Prepare & Submission of Acoustic Silencer	0			25-Oct-25 A	24-Nov-25 A		100%								
S2-ADB-PMS-1450	Review & comment on Acoustic Silencer	21			25-Nov-25 A	21-Dec-25	-201	0%								
S2-ADB-PMS-1460	Re-submission of Acoustic Silencer	99			22-Dec-25	30-Mar-26	-201	0%								
Absorption Chiller (BS006)																
S2-ADB-PMS-1480	Prepare & Submission of Absorption Chiller	66			25-Oct-25 A	04-Feb-26	-201	0%								
S2-ADB-PMS-1490	Review & comment on Absorption Chiller	21			05-Feb-26	25-Feb-26	-201	0%								
S2-ADB-PMS-1500	Re-submission of Absorption Chiller	33			26-Feb-26	30-Mar-26	-201	0%								
Outdoor and Indoor Unit (BS007)																
S2-ADB-PMS-1520	Prepare & Submission of Outdoor and indoor Unit	39			25-Oct-25 A	04-Feb-26	-201	15.22%								
S2-ADB-PMS-1530	Review & comment on Outdoor and indoor Unit	21			05-Feb-26	25-Feb-26	-201	0%								
S2-ADB-PMS-1540	Re-submission of Outdoor and indoor Unit	33			26-Feb-26	30-Mar-26	-201	0%								
P&D System																
FRP Water Tank (BS008)																
S2-ADB-PMS-2860	Prepare & Submission of FRP Water Tank	70			18-Dec-25*	25-Feb-26	-102	0%								
S2-ADB-PMS-2870	Review & comment on FRP Water Tank	21			26-Feb-26	18-Mar-26	-102	0%								
Plumbing system Pump Set (BS009A)																
S2-ADB-PMS-2910	Review & comment on Plumbing system Pump Set	20			18-Oct-25 A	20-Dec-25	-102	68.75%								
S2-ADB-PMS-2920	Re-submission of Plumbing system Pump Set	120			21-Dec-25	19-Apr-26	-102	0%								
Plumbing system Pump Set (EL-Panel) (BS009B)																
S2-ADB-PMS-3180	Prepare & Submission of Plumbing system Pump Set (EL-panel)	70			18-Dec-25	25-Feb-26	-102	0%								
S2-ADB-PMS-3190	Review & comment on Plumbing system Pump Set (EL-panel)	21			26-Feb-26	18-Mar-26	-102	0%								
Plumbing System (Pressure Vessel) (BS011)																
S2-ADB-PMS-2980	Prepare & Submission of Pneumatic Tank / Pressure Vessel	0			01-Nov-25 A	24-Nov-25 A		100%								
S2-ADB-PMS-2990	Review & comment on Pneumatic Tank / Pressure Vessel	15			25-Nov-25 A	15-Dec-25	-102	28.57%								
S2-ADB-PMS-3000	Re-submission of Pneumatic Tank / Pressure Vessel	125			16-Dec-25	19-Apr-26	-102	0%								
Pipe, Fittings and Valve for P&D system (BS013)																
S2-ADB-PMS-3060	Prepare & Submission of Pipes, Fittings, Valves for Plumbing and Drainage System	87			01-Dec-25	25-Feb-26	-102	0%								
S2-ADB-PMS-3070	Review & comment on Pipes, Fittings, Valves for Plumbing and Drainage System	21			26-Feb-26	18-Mar-26	-102	0%								
Sanitary Fitment for Plumbing System (BS014)																
S2-ADB-PMS-3130	Review & Approval of Sanitary Fitment for Plumbing System	0			21-Aug-25 A	06-Nov-25 A		100%								
Drainage system Pump Set (Submersible Sewage pump) (BS015)																
S2-ADB-PMS-3140	Prepare & Submission of Drainage system Pump Set (Submersible Sewage pump)	0			01-Nov-25 A	21-Nov-25 A		100%								
S2-ADB-PMS-3150	Review & comment on Drainage system Pump Set (Submersible Sewage pump)	12			22-Nov-25 A	12-Dec-25	-187	42.86%								
S2-ADB-PMS-3160	Re-submission of Drainage system Pump Set (Submersible Sewage pump)	128			13-Dec-25	19-Apr-26	-187	0%								
FS System - Fire Service Pump Set (BS016A)																
S2-ADB-PMS-1080	Prepare & Submission of FS System - Fire Service Pump Set	0	01-May-25	06-Oct-25	10-Apr-25 A	31-Oct-25 A		100%								
S2-ADB-PMS-1090	Review & comment on FS System - Fire Service Pump Set	0	16-Sep-25	06-Oct-25	01-Nov-25 A	19-Nov-25 A		100%								
S2-ADB-PMS-1100	Re-submission of FS System - Fire Service Pump Set	41	07-Oct-25	14-Dec-25	20-Nov-25 A	10-Jan-26	-194	21.15%								
S2-ADB-PMS-1110	Review & Approval of FS System - Fire Service Pump Set	100	15-Dec-25	04-Jan-26	11-Jan-26	20-Apr-26	-194	0%								
Radio Communication, Telephone System and Public Address System (BS024)																
S2-ADB-PMS-1200	Prepare & Submission of Radio Communication, Telephone System and Public Address System	87	01-May-25	28-Nov-25	27-Mar-25 A	25-Feb-26	70	74.11%								
S2-ADB-PMS-1230	Review & Approval of Radio Communication, Telephone System and Public Address System	44	03-Feb-26	23-Feb-26	26-Feb-26	10-Apr-26	70	0%								
CCTV, ACS & Security System (BS025)																
S2-ADB-PMS-1310	Review & Approval of CCTV, ACS & Security System	131	06-Oct-25	26-Oct-25	22-Oct-25 A	10-Apr-26	-171	23.39%								

Interfacing Works

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Date	Revision	Checked	Approved
31-Aug-25	Rev.37	IM	JM
30-Sep-25	Rev.38	IM	JM
31-Oct-25	Rev.39	IM	JM
30-Nov-25	Rev.40	IM	JM

Activity ID	Activity Name	Remaining Duration	BL Start (DE/2020/01 RP R33)	BL Finish (DE/2020/01 RP R33)	Start	Finish	Total Float	Activity % Complete	2025					2026					
									Nov	Dec	Jan	Feb	Mar	43	44	45	46	47	
S2-ADB-IFW-1020	Design Submission with Interface Works on Provision in LV Switchroom in ADB	90	01-Aug-25	29-Oct-25	01-Dec-25	28-Feb-26	-144	0%											
S2-ADB-IFW-1030	Design Submission with Interface Works on Effluent Supply for Effluent Cooling System	65	01-May-25	04-Oct-25	19-Apr-25 A	03-Feb-26	66	67.5%											
S2-ADB-IFW-1040	Design Submission with Interface Works on Street Fire Hydrant Water Main & Pumping System	90	17-Aug-25	14-Nov-25	01-Dec-25	28-Feb-26	22	0%											
S2-ADB-IFW-1050	Design Submission with Interface Works on Plumbing & Drainage	161	01-Dec-25	10-Jan-27	15-Feb-25 A	10-May-26	-102	65.38%											
Section 3 - Design, supply, delivery, installation, T&C of Sludge Dewatering and Drying System																			
Technical Submission & Approval																			
Subletting																			
Combined Heat and Power (CHP) System																			
S3-SDB-SUB-1040	Tendering of CHP System	0	01-Aug-25	28-Oct-27	14-Jun-23 A	31-Oct-25 A		100%											
S3-SDB-SUB-1050	Engagement of CHP System	59	11-Sep-25	10-Oct-25	01-Nov-25 A	28-Jan-26	-207	33.71%											
Mechanical Installation																			
S3-SDB-SUB-1000	Tendering of Mechanical installation subcontractor	31	01-Jun-25	31-Jan-26	01-May-25 A	31-Dec-25	-66	87.35%											
S3-SDB-SUB-1010	Engagement of Mechanical installation subcontractor	30	01-Mar-26	30-Mar-26	01-Jan-26	30-Jan-26	-66	0%											
Sludge Dewatering System																			
S3-SDB-SUB-1110	Engagement of Sludge Feed Pump	100	01-Sep-25	30-Sep-25	31-Jul-25 A	10-Mar-26	-72	55.16%											
S3-SDB-SUB-1120	Tendering of Instrument Air System	118	22-Aug-25	20-Oct-25	30-Sep-25 A	28-Mar-26	12	0%											
S3-SDB-SUB-1150	Engagement of Dynamics Sludge Mixer	0	03-Sep-25	02-Oct-25	17-Sep-25 A	21-Nov-25 A		100%											
S3-SDB-SUB-1160	Tendering of Wet Sludge Hopper and Dried Sludge Silo	59	02-Aug-25	30-Sep-25	02-Aug-25 A	28-Jan-26	-176	67.22%											
S3-SDB-SUB-1170	Engagement of Wet Sludge Hopper and Dried Sludge Silo	31	01-Oct-25	30-Oct-25	29-Jan-26	28-Feb-26	-176	0%											
Sludge Conveyors and Discharge System																			
S3-SDB-SUB-1180	Tendering of Sludge Conveyors	0	02-Aug-25	30-Sep-25	29-Jul-25 A	30-Nov-25 A		100%											
S3-SDB-SUB-1190	Engagement of Sludge Conveyors	77	27-Sep-25	26-Oct-25	01-Dec-25	15-Feb-26	-105	0%											
Polyelectrolyte Preparation, Mixing, Transfer, Storage and Dosing System																			
S3-SDB-SUB-1200	Tendering of PPU, Tank, Mixer	10	02-Aug-25	30-Sep-25	30-Jul-25 A	10-Dec-25	-57	92%											
S3-SDB-SUB-1210	Engagement of PPU, Tank, Mixer	31	28-Sep-25	27-Oct-25	11-Dec-25	10-Jan-26	-57	0%											
S3-SDB-SUB-1220	Tendering of Polymer Transfer Pumps, Dosing Pumps, DSHT Drain Pump	72	01-Sep-25	30-Oct-25	12-Sep-25 A	10-Feb-26	-116	20%											
S3-SDB-SUB-1230	Engagement of Polymer Transfer Pumps, Dosing Pumps, DSHT Drain Pump	28	31-Oct-25	29-Nov-25	11-Feb-26	10-Mar-26	-116	0%											
Centrate Collection System																			
S3-SDB-SUB-1240	Tendering of Centrate Collection System	59	01-Aug-25	29-Sep-25	29-Jul-25 A	28-Jan-26	747	67.93%											
S3-SDB-SUB-1250	Engagement of Centrate Collection System	31	27-Sep-25	26-Oct-25	29-Jan-26	28-Feb-26	747	0%											
Steam Boiler System																			
S3-SDB-SUB-1270	Engagement of Steam Boiler System	0	26-Aug-25	24-Sep-25	26-Aug-25 A	19-Nov-25 A		100%											
Sludge Heating System																			
S3-SDB-SUB-1290	Engagement of Hot Water Boiler	51	14-Sep-25	13-Oct-25	25-Oct-25 A	20-Jan-26	-168	0%											
S3-SDB-SUB-1310	Engagement of Heat Exchanger and Recirculation System	110	14-Sep-25	13-Oct-25	25-Oct-25 A	20-Mar-26	-12	25.17%											
Exhaust Gas Treatment System																			
S3-SDB-SUB-1320	Tendering of SCR, Chemical Dosing System, Flue Gas Stacks	0	01-Sep-25	30-Oct-25	29-Jul-25 A	30-Nov-25 A		100%											
S3-SDB-SUB-1330	Engagement of SCR, Chemical Dosing System, Flue Gas Stacks	100	27-Sep-25	26-Oct-25	01-Dec-25	10-Mar-26	-12	0%											
Air Purifying System with Disinfection																			
S3-SDB-SUB-1340	Tendering of Air Purification System	60	04-Nov-25	02-Jan-26	10-Jan-26*	10-Mar-26	-158	0%											
Lifting Appliance																			
S3-SDB-SUB-1370	Engagement of Lifting Appliance	37	30-Aug-25	28-Sep-25	18-Oct-25 A	06-Jan-26	-227	0%											
Biogas Pre-treatment System																			
S3-SDB-SUB-1390	Engagement of Biogas Pre-treatment System	91	14-Sep-25	13-Oct-25	21-Oct-25 A	01-Mar-26	-170	0%											
Gas Detection System																			
S3-SDB-SUB-1400	Tendering of Gas Detection System	72	04-Dec-25	01-Feb-26	18-Aug-25 A	10-Feb-26	73	40.5%											
S3-SDB-SUB-1410	Engagement of Gas Detection System	28	02-Feb-26	01-Mar-26	11-Feb-26	10-Mar-26	73	0%											
Vehicle Access Control System																			
S3-SDB-SUB-1420	Tendering of Vehicle Access Control System	60	10-Jan-26	10-Mar-26	13-Dec-25*	10-Feb-26	-6	0%											
S3-SDB-SUB-1430	Engagement of Vehicle Access Control System	28	11-Mar-26	09-Apr-26	11-Feb-26	10-Mar-26	-6	0%											
CMMS and IDMS																			
S3-SDB-SUB-1440	Tendering of CMMS and IDMS	23	25-Sep-25	23-Nov-25	25-Sep-25 A	23-Dec-25	-248	74.44%											
S3-SDB-SUB-1450	Engagement of CMMS and IDMS	31	24-Nov-25	23-Dec-25	24-Dec-25	23-Jan-26	-248	0%											



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Activity ID	Activity Name	Remaining Duration	BL Start (DE/2020/01 RP R33)	BL Finish (DE/2020/01 RP R33)	Start	Finish	Total Float	Activity % Complete	2025					2026					
									Nov	Dec	Jan	Feb	Mar	43	44	45	46	47	
Power Quality and Energy Management System (PQEMS)																			
S3-SDB-SUB-1460	Tendering of PQEMS	110	01-Aug-25	29-Sep-25	31-Jul-25 A	20-Mar-26	696	36.78%											
AIP Submission																			
For Remaining																			
P&D System (AIP025)																			
S3-SDB-AIP-2140	Approval of AIP Design of P&D System	0	01-Oct-24	26-Oct-25	05-Sep-24 A	30-Oct-25 A		100%											
DDA Submission																			
Civil Requirement																			
Sludge Dewatering Building (DDA036)																			
Loading & unloading Level																			
S3-SDB-CR-2030	Approval of civil requirement & general arrangement drawing of SDB (Loading & Unloading level)	61	12-Sep-25	20-Dec-25	02-Sep-25 A	30-Jan-26	-203	59.6%											
Ground and Frist Level																			
S3-SDB-CR-2080	Prepare & Submission of civil requirement & general arrangement drawing of SDB (Ground & First level)	0	13-Aug-25	11-Oct-25	24-Aug-25 A	21-Nov-25 A		100%											
S3-SDB-CR-2090	Review & comment on civil requirement & general arrangement drawing of SDB (Ground & First level)	12	12-Oct-25	01-Nov-25	22-Nov-25 A	12-Dec-25	-203	42.86%											
S3-SDB-CR-2100	Re-submission of civil requirement & general arrangement drawing of SDB (Ground & First level)	28	02-Nov-25	01-Dec-25	13-Dec-25	09-Jan-26	-203	0%											
S3-SDB-CR-2110	Approval of civil requirement & general arrangement drawing of SDB (Ground & First level)	21	02-Dec-25	22-Dec-25	10-Jan-26	30-Jan-26	-203	0%											
Roof Level																			
S3-SDB-CR-2120	Prepare & Submission of civil requirement & general arrangement drawing of SDB (Roof Level)	0	12-Sep-25	31-Oct-25	22-Sep-25 A	28-Nov-25 A		100%											
S3-SDB-CR-2130	Review & comment on civil requirement & general arrangement drawing of SDB (Roof Level)	19	01-Nov-25	21-Nov-25	29-Nov-25 A	19-Dec-25	-203	9.52%											
S3-SDB-CR-2140	Re-submission of civil requirement & general arrangement drawing of SDB (Roof Level)	21	22-Nov-25	21-Dec-25	20-Dec-25	09-Jan-26	-203	0%											
S3-SDB-CR-2150	Approval of civil requirement & general arrangement drawing of SDB (Roof Level)	21	22-Dec-25	11-Jan-26	10-Jan-26	30-Jan-26	-203	0%											
Site Wide Cable Duct System (DDA038)																			
S3-SDB-CR-2060	Re-submission of civil requirement & general arrangement drawing of Site Wide Cable Duct System	0	11-Sep-25	09-Oct-25	30-Aug-25 A	03-Nov-25 A		100%											
S3-SDB-CR-2070	Approval of civil requirement & general arrangement drawing of Site Wide Cable Duct System	53	10-Oct-25	30-Oct-25	04-Nov-25 A	22-Jan-26	68	33.75%											
Sludge Mixing System (DDA003)																			
S3-SDB-DDA-1010	Review & comment on DDA Design of Sludge Mixing System	0	11-Jul-25	31-Jul-25	26-Nov-25 A	13-Dec-25 A		100%											
S3-SDB-DDA-1030	Approval of DDA Design of Sludge Mixing System	151	26-Jun-25	03-Mar-26	21-Feb-25 A	30-Apr-26	-190	65.21%											
Sludge Dewatering and Drying System																			
Sludge Dewatering System (Centrifuge, Centrifuge Feed Pump) (DDA004A)																			
S3-SDB-DDA-1110	Approval of DDA Design of Centrifuge and Centrifuge Feed Pump	151	27-Jul-25	06-Jul-26	21-Nov-24 A	30-Apr-26	-188	71.29%											
Sludge Drying System (Dryer's Conveyor and Condensation System) (DDA004B)																			
S3-SDB-DDA-2470	Approval of DDA Design of Sludge Drying System	151	01-Apr-25	06-Nov-25	04-Mar-25 A	30-Apr-26	-188	64.3%											
Sludge Handling and Dynamic Mixing System (Hopper, Diverters, Silo, Dynamic Sludge Mixer) (DDA004C)																			
S3-SDB-DDA-2510	Approval of DDA Design of Hopper, Diverters, Sib and Dynamic Sludge Mixer	151	31-Aug-25	29-Oct-25	09-Aug-25 A	30-Apr-26	-188	43.02%											
Sludge Conveying and Discharge System (DDA005)																			
S3-SDB-DDA-1140	Re-submission of DDA Design of Sludge Conveying & Discharge System	0	11-Sep-25	29-Nov-25	16-Sep-25 A	28-Nov-25 A		100%											
S3-SDB-DDA-1150	Approval of DDA Design of Sludge Conveying & Discharge System	151	30-Nov-25	20-Dec-25	29-Nov-25 A	30-Apr-26	-170	0%											
Polyelectrolyte Preparation, Mixing, Transferring, Storage and Dosing System (DDA006)																			
S3-SDB-DDA-1190	Approval of DDA Design of Polyelectrolyte Preparation, Mixing, Transferring, Storage & Dosing System	151	07-Jun-25	19-May-26	07-Feb-25 A	30-Apr-26	-190	66.29%											
Centrate/Filtrate Collection System (DDA007)																			
S3-SDB-DDA-1200	Prepare & Submission of DDA Design of Centrate/Filtrate Collection System	0	16-Oct-25	13-Jan-26	02-Sep-25 A	31-Oct-25 A		100%											
S3-SDB-DDA-1210	Review & comment on DDA Design of Centrate/Filtrate Collection System	60	14-Jan-26	03-Feb-26	01-Nov-25 A	29-Jan-26	-129	33.33%											
S3-SDB-DDA-1220	Re-submission of DDA Design of Centrate/Filtrate Collection System	70	04-Feb-26	25-Mar-26	30-Jan-26	09-Apr-26	-129	0%											
Steam Boiler System (DDA008)																			
S3-SDB-DDA-1260	Re-submission of DDA Design of Steam Boiler System	5	11-Sep-25	30-Oct-25	16-Sep-25 A	05-Dec-25	-129	93.83%											
S3-SDB-DDA-1270	Approval of DDA Design of Steam Boiler System	146	31-Oct-25	20-Nov-25	06-Dec-25	30-Apr-26	-129	0%											



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Activity ID	Activity Name	Remaining Duration	BL Start (DE/2020/01 RP R33)	BL Finish (DE/2020/01 RP R33)	Start	Finish	Total Float	Activity % Complete	2025					2026													
									Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar		
Sludge Heating System (DDA009)										43	44	45	46	47													
S3-SDB-DDA-1280	Prepare & Submission of DDA Design of Sludge Heating System	31	02-May-25	07-Oct-25	15-Apr-25 A	31-Dec-25	-257	88.12%	[Gantt bar: 15-Apr-25 to 31-Dec-25, 88.12% complete]																		
S3-SDB-DDA-1290	Review & comment on DDA Design of Sludge Heating System	21	21-Sep-25	11-Oct-25	01-Jan-26	21-Jan-26	-183	0%	[Gantt bar: 01-Jan-26 to 21-Jan-26, 0% complete]																		
S3-SDB-DDA-1300	Re-submission of DDA Design of Sludge Heating System	78	12-Oct-25	30-Nov-25	22-Jan-26	09-Apr-26	-183	0%	[Gantt bar: 22-Jan-26 to 09-Apr-26, 0% complete]																		
CHP System (DDA012)																				45	46	47					
S3-SDB-DDA-1400	Prepare & Submission of DDA Design of CHP Generating System	31	21-Jun-25	22-Nov-25	09-May-25 A	31-Dec-25	-237	84.8%	[Gantt bar: 09-May-25 to 31-Dec-25, 84.8% complete]																		
S3-SDB-DDA-1410	Review & comment on DDA Design of CHP Generating System	21	10-Nov-25	30-Nov-25	01-Jan-26	21-Jan-26	-129	0%	[Gantt bar: 01-Jan-26 to 21-Jan-26, 0% complete]																		
S3-SDB-DDA-1420	Re-submission of DDA Design of CHP Generating System	50	01-Dec-25	19-Jan-26	22-Jan-26	12-Mar-26	-129	0%	[Gantt bar: 22-Jan-26 to 12-Mar-26, 0% complete]																		
Exhaust Gas Treatment System (DDA013)																				45	46	47					
S3-SDB-DDA-1440	Prepare & Submission of DDA Design of Exhaust Gas Treatment System	41	01-Jun-25	02-Nov-25	09-May-25 A	10-Jan-26	-109	83.4%	[Gantt bar: 09-May-25 to 10-Jan-26, 83.4% complete]																		
S3-SDB-DDA-1450	Review & comment on DDA Design of Exhaust Gas Treatment System	21	11-Oct-25	31-Oct-25	11-Jan-26	31-Jan-26	-109	0%	[Gantt bar: 11-Jan-26 to 31-Jan-26, 0% complete]																		
S3-SDB-DDA-1460	Re-submission of DDA Design of Exhaust Gas Treatment System	59	01-Nov-25	20-Dec-25	01-Feb-26	31-Mar-26	-109	0%	[Gantt bar: 01-Feb-26 to 31-Mar-26, 0% complete]																		
Deodorisation Unit/System (DDA015)																				45	46	47					
S3-SDB-DDA-1550	Approval of DDA Design of Deodorisation Unit/System	151	28-Sep-25	15-Apr-26	30-Apr-25 A	30-Apr-26	-195	58.74%	[Gantt bar: 30-Apr-25 to 30-Apr-26, 58.74% complete]																		
Air Purifier System with Disinfection (DDA016)																				45	46	47					
S3-SDB-DDA-1560	Prepare & Submission of DDA Design of Air Purifier System with Disinfection	0	26-Feb-24	18-Mar-26	26-Jan-24 A	25-Nov-25 A		100%	[Gantt bar: 26-Jan-24 to 25-Nov-25, 100% complete]																		
S3-SDB-DDA-1570	Review & comment on DDA Design of Air Purifier System with Disinfection	16	16-Feb-26	08-Mar-26	26-Nov-25 A	16-Dec-25	-65	23.81%	[Gantt bar: 26-Nov-25 to 16-Dec-25, 23.81% complete]																		
S3-SDB-DDA-1580	Re-submission of DDA Design of Air Purifier System with Disinfection	60	09-Mar-26	07-May-26	17-Dec-25	14-Feb-26	-65	0%	[Gantt bar: 17-Dec-25 to 14-Feb-26, 0% complete]																		
S3-SDB-DDA-1590	Approval of DDA Design of Air Purifier System with Disinfection	75	08-May-26	28-May-26	15-Feb-26	30-Apr-26	-65	0%	[Gantt bar: 15-Feb-26 to 30-Apr-26, 0% complete]																		
Lifting Appliance (DDA017)																				45	46	47					
S3-SDB-DDA-1600	Prepare & Submission of DDA Design of Lifting Appliance	15	01-Aug-24	10-Jan-26	01-Jun-24 A	15-Dec-25	-279	97.34%	[Gantt bar: 01-Jun-24 to 15-Dec-25, 97.34% complete]																		
S3-SDB-DDA-1610	Review & comment on DDA Design of Lifting Appliance	21	11-Nov-25	01-Dec-25	16-Dec-25	05-Jan-26	-279	0%	[Gantt bar: 16-Dec-25 to 05-Jan-26, 0% complete]																		
S3-SDB-DDA-1620	Re-submission of DDA Design of Lifting Appliance	94	02-Dec-25	20-Jan-26	06-Jan-26	09-Apr-26	-279	0%	[Gantt bar: 06-Jan-26 to 09-Apr-26, 0% complete]																		
Emergency Generator Set (DDA023)																				45	46	47					
S3-SDB-DDA-1660	Re-submission of DDA Design of Emergency Generator System	45	06-Jan-26	11-Mar-26	08-Oct-25 A	14-Jan-26	-277	34.78%	[Gantt bar: 08-Oct-25 to 14-Jan-26, 34.78% complete]																		
S3-SDB-DDA-1670	Approval of DDA Design of Emergency Generator System	106	12-Mar-26	01-Apr-26	15-Jan-26	30-Apr-26	-277	0%	[Gantt bar: 15-Jan-26 to 30-Apr-26, 0% complete]																		
PLC and SCADA System, and Network Integration (DDA035)																				45	46	47					
System Architecture Drawing and I/O Schedule (DDA035a)																				45	46	47					
S3-SDB-DDA-1730	Review & comment on System Architecture Drawing and I/O Schedule	0	16-Oct-25	05-Nov-25	24-Oct-25 A	10-Nov-25 A		100%	[Gantt bar: 24-Oct-25 to 10-Nov-25, 100% complete]																		
S3-SDB-DDA-1740	Re-submission of System Architecture Drawing and I/O Schedule	41	06-Nov-25	09-Jan-26	11-Nov-25 A	10-Jan-26	-227	52.87%	[Gantt bar: 11-Nov-25 to 10-Jan-26, 52.87% complete]																		
S3-SDB-DDA-1750	Approval of System Architecture Drawing and I/O Schedule	110	10-Jan-26	30-Jan-26	11-Jan-26	30-Apr-26	-227	0%	[Gantt bar: 11-Jan-26 to 30-Apr-26, 0% complete]																		
SCADA Panels GA, Schematic Drawings and Equipment Layout Plan (DDA035b)																				45	46	47					
S3-SDB-DDA-2880	Prepare & Submission of SCADA Panels GA, Schematic Drawings and Equipment Layout Plan	41			01-Oct-25 A	10-Jan-26	-227	59.8%	[Gantt bar: 01-Oct-25 to 10-Jan-26, 59.8% complete]																		
S3-SDB-DDA-2890	Review & comment on SCADA Panels GA, Schematic Drawings and Equipment Layout Plan	21			11-Jan-26	31-Jan-26	-227	0%	[Gantt bar: 11-Jan-26 to 31-Jan-26, 0% complete]																		
S3-SDB-DDA-2900	Re-submission of SCADA Panels GA, Schematic Drawings and Equipment Layout Plan	65			01-Feb-26	06-Apr-26	-227	0%	[Gantt bar: 01-Feb-26 to 06-Apr-26, 0% complete]																		
HMI Graphics Design (DDA035c)																				45	46	47					
S3-SDB-DDA-2920	Prepare & Submission of HMI Graphics Design	41			01-Oct-25 A	10-Jan-26	-227	59.8%	[Gantt bar: 01-Oct-25 to 10-Jan-26, 59.8% complete]																		
S3-SDB-DDA-2930	Review & comment on HMI Graphics Design	21			11-Jan-26	31-Jan-26	-227	0%	[Gantt bar: 11-Jan-26 to 31-Jan-26, 0% complete]																		
S3-SDB-DDA-2940	Re-submission of HMI Graphics Design	65			01-Feb-26	06-Apr-26	-227	0%	[Gantt bar: 01-Feb-26 to 06-Apr-26, 0% complete]																		
Gas Detection System (DDA028)																				45	46	47					
S3-SDB-DDA-1780	Re-submission of Gas Detection System	41	03-Apr-26	22-May-26	18-Oct-25 A	10-Jan-26	-108	18%	[Gantt bar: 18-Oct-25 to 10-Jan-26, 18% complete]																		
S3-SDB-DDA-1790	Approval of Gas Detection System	110	23-May-26	12-Jun-26	11-Jan-26	30-Apr-26	-108	0%	[Gantt bar: 11-Jan-26 to 30-Apr-26, 0% complete]																		
Control, Monitoring and Operation (CMO) System (DDA034)																				45	46	47					
S3-SDB-DDA-1800	Prepare & Submission of CMO System	77	01-Jun-25	23-Nov-25	23-Apr-25 A	15-Feb-26	-101	71.27%	[Gantt bar: 23-Apr-25 to 15-Feb-26, 71.27% complete]																		
S3-SDB-DDA-1810	Review & comment on CMO System	21	05-Jun-26	25-Jun-26	16-Feb-26	08-Mar-26	-101	0%	[Gantt bar: 16-Feb-26 to 08-Mar-26, 0% complete]																		
Process Instrumentation System (DDA033)																				45	46	47					
S3-SDB-DDA-1870	Approval of PIS System	30	23-Aug-25	20-Nov-25	16-Aug-25 A	30-Dec-25	-8	78.1%	[Gantt bar: 16-Aug-25 to 30-Dec-25, 78.1% complete]																		
Vehicle Access Control System (DDA029)																				45	46	47					
S3-SDB-DDA-1900	Re-submission of Vehicle Access Control System	72	06-Mar-26	09-May-26	18-Oct-25 A	10-Feb-26	-57	37.93%	[Gantt bar: 18-Oct-25 to 10-Feb-26, 37.93% complete]																		
S3-SDB-DDA-1910	Approval of Vehicle Access Control System	79	10-May-26	30-May-26	11-Feb-26	30-Apr-26	-57	0%	[Gantt bar: 11-Feb-26 to 30-Apr-26, 0% complete]																		
Computerised Maint. & Management Sys(CMMS) (DDA030)																				45	46	47					
S3-SDB-DDA-1920	Prepare & Submission of CMMS	99	01-May-25	27-Feb-26	27-Mar-25 A	09-Mar-26	-134	71.55%	[Gantt bar: 27-Mar-25 to 09-Mar-26, 71.55% complete]																		
Power Quality and Energy Management System (PQEMS) (DDA032)																				45	46	47					



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Remaining Work	RP Rev.33 MS
Critical Activity	Actual Milestone
Milestone	
Actual Progress	
RP Rev.33	

Contract No. DE/2020/01
Yuen Long Effluent Polishing Plant - E&M Works for Sludge Dewatering Building, Administration Building and Renewable Energy
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Based on DE/2020/01 Revised Programme Rev.33			
Date	Revision	Checked	Approved
31-Aug-25	Rev.37	IM	JM
30-Sep-25	Rev.38	IM	JM
31-Oct-25	Rev.39	IM	JM
30-Nov-25	Rev.40	IM	JM

Activity ID	Activity Name	Remaining Duration	BL Start (DE/2020/01 RP R33)	BL Finish (DE/2020/01 RP R33)	Start	Finish	Total Float	Activity % Complete	2025					2026				
									Nov	Dec	Jan	Feb	Mar	Jan	Feb	Mar		
S3-SDB-PMS-2690	Review & comment on Ultrasonic Level Sensor	0			01-Nov-25 A	18-Nov-25 A		100%										
S3-SDB-PMS-2700	Re-submission of Ultrasonic Level Sensor	25			19-Nov-25 A	25-Dec-25	-214	32.43%										
S3-SDB-PMS-2710	Review & Approval of Ultrasonic Level Sensor	47			26-Dec-25	10-Feb-26	-214	0%										
Air Ejector System (ME004)																		
S3-SDB-PMS-1830	Review & Approval of Air Ejector System	72	29-Nov-25	19-Dec-25	30-Sep-25 A	10-Feb-26	-72	46.27%										
Conveyors and Diverter (ME005)																		
S3-SDB-PMS-1840	Prepare & Submission of Conveyors and Diverter	61	01-Feb-25	05-Aug-25	21-Jan-25 A	30-Jan-26	-133	83.73%										
S3-SDB-PMS-1870	Review & Approval of Conveyors and Diverter	44	05-Dec-25	25-Dec-25	31-Jan-26	15-Mar-26	-133	0%										
Sludge Heating System (Biogas Hot-Water Heater) (ME012)																		
S3-SDB-PMS-1880	Prepare & Submission of Sludge Heating System (Biogas Hot-Water Heater)	50	01-May-25	27-Sep-25	15-Apr-25 A	19-Jan-26	-257	82.14%										
S3-SDB-PMS-1890	Review & comment on Sludge Heating System (Biogas Hot-Water Heater)	21	12-Sep-25	02-Oct-25	20-Jan-26	09-Feb-26	-257	0%										
S3-SDB-PMS-1900	Re-submission of Sludge Heating System (Biogas Hot-Water Heater)	49	03-Oct-25	21-Nov-25	10-Feb-26	30-Mar-26	-257	0%										
Exhaust Gas Treatment System (ME014)																		
S3-SDB-PMS-1920	Prepare & Submission of Exhaust Gas Treatment System	87	01-Jun-25	17-Oct-25	09-May-25 A	25-Feb-26	1	70.31%										
Emergency Diesel Generator System (EL024)																		
S3-SDB-PMS-2070	Review & Approval of Emergency Diesel Generator System	149	01-Jun-25	31-Jan-26	01-May-25 A	28-Apr-26	-247	58.95%										
LVSB (EL008)																		
S3-SDB-PMS-2730	Review & comment on LVSB	21			23-Oct-25 A	21-Dec-25	-217	65%										
S3-SDB-PMS-2740	Re-submission of LVSB	100			22-Dec-25	31-Mar-26	-217	0%										
UPS(EL025)																		
S3-SDB-PMS-2850	Review & Approval of UPS	149			24-Sep-25 A	28-Apr-26	-127	31.34%										
Scissor Platform spare plant for operation (ME029)																		
S3-SDB-PMS-3220	Prepare & Submission of Scissor Platform spare plant for operation	0			01-Oct-25 A	17-Nov-25 A		100%										
S3-SDB-PMS-3230	Review & comment on Scissor Platform spare plant for operation	8			18-Nov-25 A	08-Dec-25	-233	61.9%										
S3-SDB-PMS-3240	Re-submission of Scissor Platform spare plant for operation	62			09-Dec-25	08-Feb-26	-233	0%										
S3-SDB-PMS-3250	Review & Approval of Scissor Platform spare plant for operation	21			09-Feb-26	01-Mar-26	-233	0%										
Chemical Anchors, Bolts, Nuts and Washer (ME024)																		
S3-SDB-PMS-3200	Re-submission of Chemical Anchors, Bolts, Nuts & Washer	0			04-Oct-25 A	24-Nov-25 A		100%										
S3-SDB-PMS-3210	Review & Approval of Chemical Anchors, Bolts, Nuts & Washer	90			25-Nov-25 A	28-Feb-26	81	6.25%										
DI Pipes, Fittings and Accessories (Process) (ME025)																		
S3-SDB-PMS-3290	Review & Approval of DI Pipes, Fittings and Accessories	0			06-Oct-23 A	11-Nov-25 A		100%										
Method Statement																		
Air Purifier System with Disinfection																		
S3-SDB-MS-1560	Prepare & Submission of method statement of installation of Air Purifier System with Disinfection	30	29-May-26	27-Jun-26	15-Feb-26	16-Mar-26	511	0%										
Lifting Appliance																		
S3-SDB-MS-1600	Prepare & Submission of method statement of installation of Lifting Appliance	30	21-Jan-26	07-Mar-26	07-Feb-26	08-Mar-26	-316	0%										
Fire Services System																		
S3-SDB-MS-2000	Prepare & Submission of method statement of installation of FS system	30	11-Nov-25	10-Dec-25	01-Dec-25	30-Dec-25	-158	0%										
S3-SDB-MS-2010	Review & comment on method statement of installation of FS system	21	11-Dec-25	31-Dec-25	31-Dec-25	20-Jan-26	-158	0%										
S3-SDB-MS-2020	Re-submission of method statement of installation of FS system	30	01-Jan-26	30-Jan-26	21-Jan-26	19-Feb-26	-158	0%										
S3-SDB-MS-2030	Approval of method statement of installation of FS system	21	31-Jan-26	20-Feb-26	20-Feb-26	12-Mar-26	-158	0%										
Earthing & Lightning Protection System																		
S3-SDB-MS-2640	Prepare & Submission of method statement of Earthing & Lightning Protection System	30	12-Sep-25	11-Oct-25	16-Dec-25	14-Jan-26	51	0%										
S3-SDB-MS-2650	Review & comment on method statement of Earthing & Lightning Protection System	21	12-Oct-25	01-Nov-25	15-Jan-26	04-Feb-26	51	0%										
S3-SDB-MS-2660	Re-submission of method statement of Earthing & Lightning Protection System	28	02-Nov-25	29-Nov-25	05-Feb-26	04-Mar-26	51	0%										
SAT / T&C procedure																		
Lifting Appliance																		
S3-SDB-SAT-1600	Prepare & Submission of SAT/ T&C Procedure (with Test Form) of Lifting Appliance	30	03-May-26	01-Jun-26	07-Feb-26	08-Mar-26	-90	0%										
Earthing & Lightning Protection System																		
S3-SDB-SAT-2680	Prepare & Submission of T&C Plan (include FAT & SAT) of Earthing & Lightning Protection System	30	12-Oct-25	10-Nov-25	15-Jan-26	13-Feb-26	59	0%										



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■ Remaining Work ■ Critical Activity ■ Actual Progress ■ RP Rev.33
◆ Milestone ◆ Actual Milestone ◆ RP Rev.33 MS

Contract No. DE/2020/01
Yuen Long Effluent Polishing Plant - E&M Works for Sludge Dewatering Building, Administration Building and Renewable Energy
3 Months Rolling Programme (Based on RP Rev.33) as at 30 Nov 2025

Based on DE/2020/01 Revised Programme Rev.33			
Date	Revision	Checked	Approved
31-Aug-25	Rev.37	IM	JM
30-Sep-25	Rev.38	IM	JM
31-Oct-25	Rev.39	IM	JM
30-Nov-25	Rev.40	IM	JM

Activity ID	Activity Name	Remaining Duration	BL Start (DE/2020/01 RP R33)	BL Finish (DE/2020/01 RP R33)	Start	Finish	Total Float	Activity % Complete	2025			2026		
									Nov 43	Dec 44	Jan 45	Feb 46	Mar 47	
S3-SDB-SAT-2690	Review & comment on T&C Plan (include FAT & SAT) of Earthing & Lightning Protection System	21	11-Nov-25	01-Dec-25	14-Feb-26	06-Mar-26	59	0%						
Manufacture, FAT & Delivery of Major Equipment														
S3-SDB-MD-1010	Manufacture of Dewatering Centrifuge	81	01-Jun-25	28-Feb-26	23-May-25 A	19-Feb-26	60	70.33%						
S3-SDB-MD-1020	FAT for Dewatering Centrifuge	30	21-Jan-26	19-Feb-26	21-Jan-26	19-Feb-26	60	0%						
S3-SDB-MD-1030	Delivery of Dewatering Centrifuge	30	20-Feb-26	21-Mar-26	20-Feb-26	21-Mar-26	60	0%						
S3-SDB-MD-1040	Manufacture of Dryer Centrifuge	81	01-Jun-25	28-Feb-26	23-May-25 A	19-Feb-26	102	70.33%						
S3-SDB-MD-1050	FAT for Dryer Centrifuge	30	21-Jan-26	19-Feb-26	21-Jan-26	19-Feb-26	102	0%						
S3-SDB-MD-1060	Delivery of Dryer Centrifuge	30	20-Feb-26	21-Mar-26	20-Feb-26	21-Mar-26	102	0%						
S3-SDB-MD-1070	Manufacture of Paddle Dryer	211	31-Aug-25	01-Aug-26	19-Aug-25 A	19-Aug-26	-135	42.35%						
S3-SDB-MD-1120	Manufacture with FAT (4 months) & Delivery(1 month) of Air Ejector	151	20-Dec-25	20-May-26	10-Feb-26	10-Jul-26	-72	0%						
S3-SDB-MD-1180	Manufacture with FAT (4 months) & Delivery(1 month) of Deodorisation System	151	19-Nov-25	19-Apr-26	09-Feb-26	09-Jul-26	-135	0%						
S3-SDB-MD-1230	Manufacture with FAT (210 days) & Delivery(30 days) of PMU	240	28-Nov-25	25-Jul-26	01-Dec-25	28-Jul-26	-219	0%						
S3-SDB-MD-1240	Manufacture with FAT (150 days) & Delivery(7 days) of Cable	182	01-Aug-25	04-Jan-26	30-Jan-26*	30-Jul-26	-221	0%						
S3-SDB-MD-1245	Manufacture(28 days) & Delivery(2 days) of Earthing and Lightning Protection System	0	01-Sep-25	30-Sep-25	01-Oct-25 A	30-Oct-25 A		100%						
S3-SDB-MD-1290	Manufacture with FAT (7 months) & Delivery(1 month) of Off Gas Condenser System	188	11-Oct-25	11-Jun-26	06-Oct-25 A	06-Jun-26	-31	22.95%						
S3-SDB-MD-1330	Manufacture with FAT (5 months) & Delivery(1 month) of instrumentation	182			10-Feb-26	10-Aug-26	-125	0%						
Interfacing Works														
S3-SDB-IFW-1000	Interface Works with Other Contract (including: Slab / Wall openings, Concrete Plinths, Cast-in Item, etc)	78	01-Jan-23	27-Feb-23	22-Jun-24 A	16-Feb-26	-203	87.11%						
S3-SDB-IFW-1010	Design submission with Interface Works on Plant Services Water	121	01-Jun-25	05-Nov-25	01-Sep-25 A	31-Mar-26	38	42.92%						
S3-SDB-IFW-1020	Design Submission with Interface Works on Biogas Pipes & Hot Water Pipes Connections	121	12-Dec-25	31-Aug-26	12-Dec-24 A	31-Mar-26	-23	74.53%						
S3-SDB-IFW-1030	Design Submission with Interface Works on Digested Sludge Pipes Connection	121	01-May-25	10-Jul-26	22-Jun-24 A	31-Mar-26	114	74.09%						
S3-SDB-IFW-1040	Design Submission with Interface Works on Process Water Treatment	121	01-May-25	31-Jan-26	29-Jan-25 A	31-Mar-26	38	69.6%						
S3-SDB-IFW-1060	Design Submission with Interface Works on Centrate & Filtrate Pipes	90	16-Oct-25	13-Jan-26	01-Dec-25	28-Feb-26	-68	0%						
S3-SDB-IFW-1080	Design Submission with Interface Works on Digested Sludge Holding Tank Drain Pipe	31	01-Aug-24	10-Sep-25	22-Jul-24 A	31-Dec-25	62	92.91%						
S3-SDB-IFW-1090	Design Submission with Interface Works on Provisions in LV Switchroom at SDB	90	21-Aug-25	18-Nov-25	01-Dec-25	28-Feb-26	-144	0%						
S3-SDB-IFW-1100	Design Submission with Interface Works on PQEMS	47	19-Jun-25	21-Mar-26	15-Dec-24 A	16-Jan-26	-101	84.69%						
S3-SDB-IFW-1110	Design Submission with Interface Works on Cable Routing between SDB & ADB(LV)	47	02-Jul-25	03-Apr-26	15-Dec-24 A	16-Jan-26	-101	84.69%						
S3-SDB-IFW-1120	Design Submission with Interface Works on Electrical System Analysis	13	16-May-25	12-Jan-26	15-Dec-24 A	13-Dec-25	-67	95.24%						
S3-SDB-IFW-1130	Design Submission with Interface Works on SCADA System / CMMS.	90	23-Sep-25	21-Dec-25	01-Dec-25	28-Feb-26	-144	0%						
S3-SDB-IFW-1140	Design Submission with Interface Works on CCTV, Access Control Security System	90	15-Mar-26	12-Jun-26	31-Jan-26	30-Apr-26	-262	0%						
S3-SDB-IFW-1150	Design Submission with Interface Works on Shared Fresh Air intake for SDB loading & unloading level	90	21-Dec-25	20-Mar-26	31-Jan-26	30-Apr-26	-151	0%						
S3-SDB-IFW-1170	Design Submission with Interface Works on Emergency Generator Set	54	02-Jun-25	06-Mar-26	15-Aug-24 A	23-Jan-26	-145	87.61%						
Testing and Commissioning														
SAT														
S3-SDB-TC-1237	Application for on-grid connection to CLP include Renewable Energy (CHP and Solar PV System)	178	02-Jun-25	24-Jun-26	12-Mar-25 A	11-Jul-26	-122	54.71%						
Statutory Submission, Inspection & Approval														
Electrical and Mechanical Services Department														
S3-SDB-SS-1200	BEEO Stage one: Submit EE1 & EE-SU to EMSD	77	01-Aug-25	29-Sep-25	17-Oct-25 A	15-Feb-26	-219	0%						



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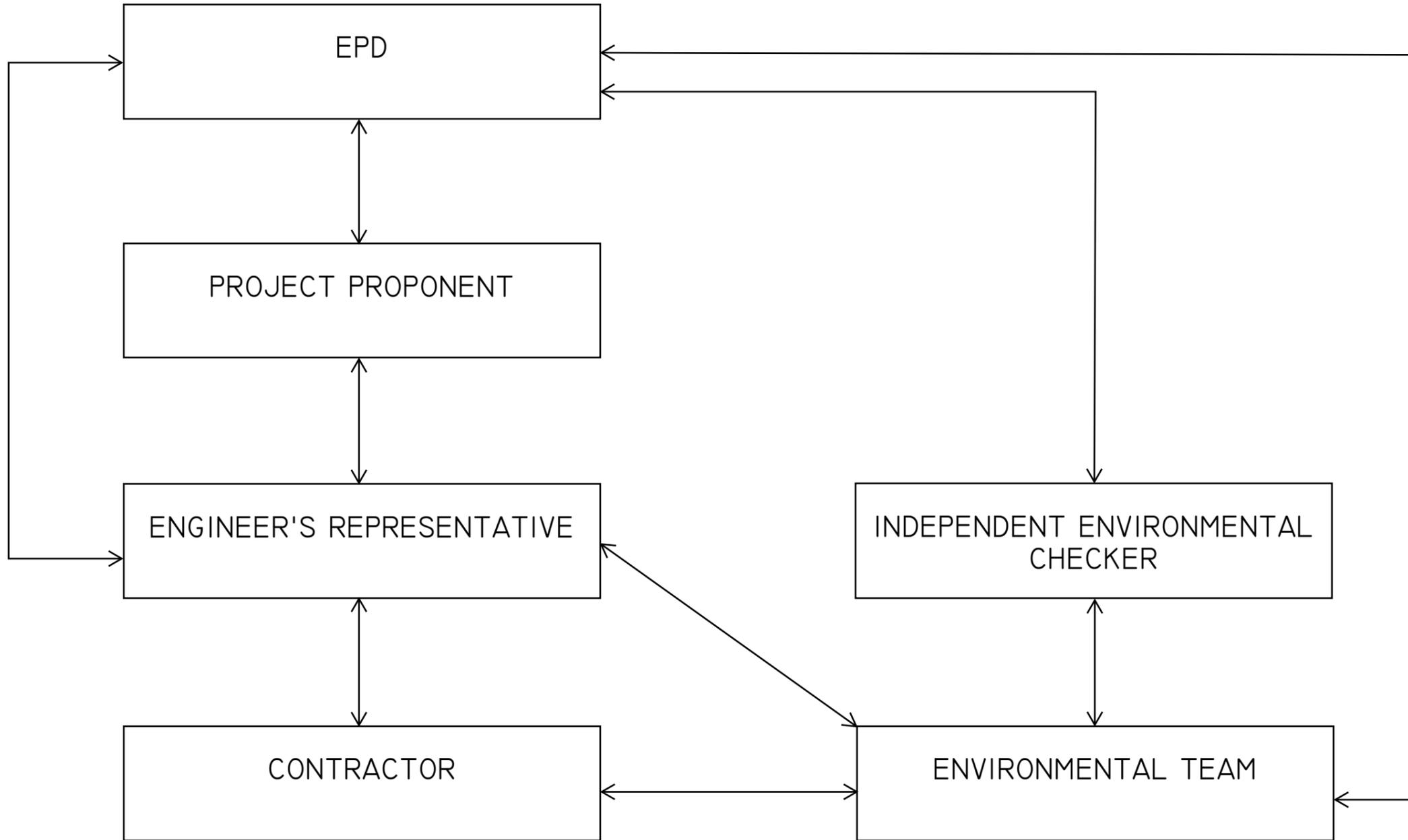
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Date	Revision	Checked	Approved
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31-Oct-25	Rev.39	IM	JM
30-Nov-25	Rev.40	IM	JM

Appendix B

Project Organization Chart

LEGEND:

↔ LINE OF COMMUNICATION



PROJECT

YUEN LONG EFFLUENT
POLISHING PLANT -
INVESTIGATION, DESIGN
AND CONSTRUCTION

CLIENT



CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

I/R	DATE	DESCRIPTION	CHK.

STATUS

SCALE

A3 1 : 40000

DIMENSION UNIT

METRES

KEY PLAN

PROJECT NO.

60505476

CONTRACT NO.

CE 3/2015 (DS)

SHEET TITLE

PROJECT ORGANISATION

SHEET NUMBER

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Appendix C

Action and Limit Levels

Action and Limit Levels for Air Quality

Parameters	Action Level	Limit Level
1-hour TSP Level in $\mu\text{g}/\text{m}^3$	¹ For baseline level $\leq 384 \mu\text{g}/\text{m}^3$, Action level = (baseline level * 1.3 + Limit level)/2; For baseline level $> 384 \mu\text{g}/\text{m}^3$, Action level = Limit level	500 $\mu\text{g}/\text{m}^3$

Notes:

1. The Action Level for 1-hour TSP Level:

a) AM1 = $(63 \times 1.3 + 500) / 2 = 291 \mu\text{g}/\text{m}^3$;

b) AM2 = $(70 \times 1.3 + 500) / 2 = 296 \mu\text{g}/\text{m}^3$.

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	<u>Surface & Middle</u> 5%-ile of baseline data for surface and middle layer. <u>Bottom</u> 5%-ile of baseline data for bottom layer.	<u>Surface & Middle</u> 4 mg/L or 1%-ile of baseline data for surface and middle layer. <u>Bottom</u> 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		

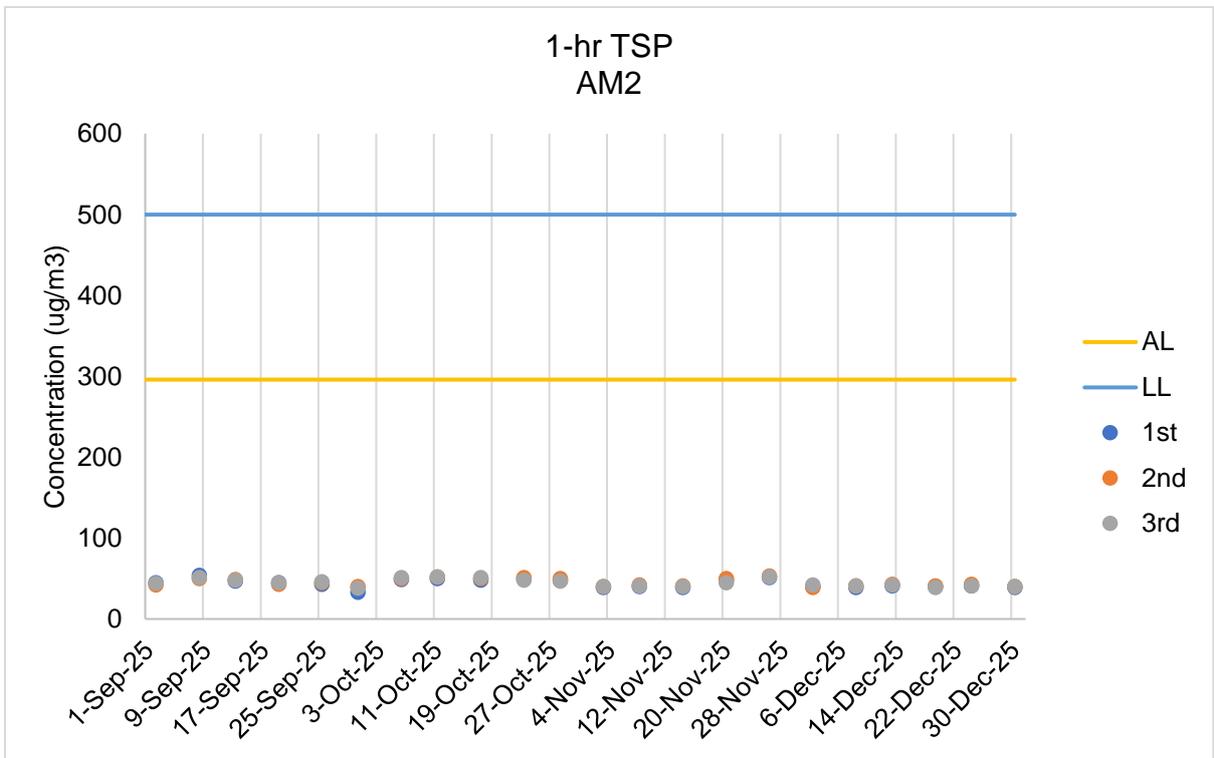
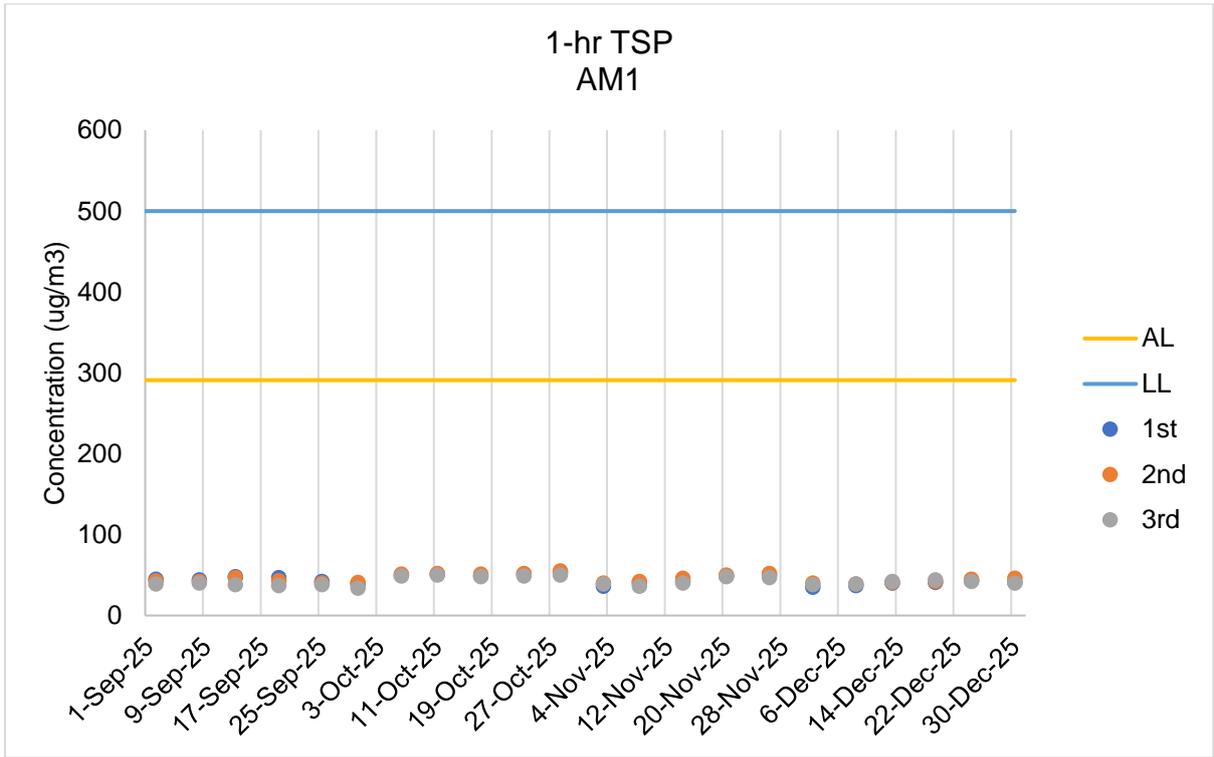
Notes:

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

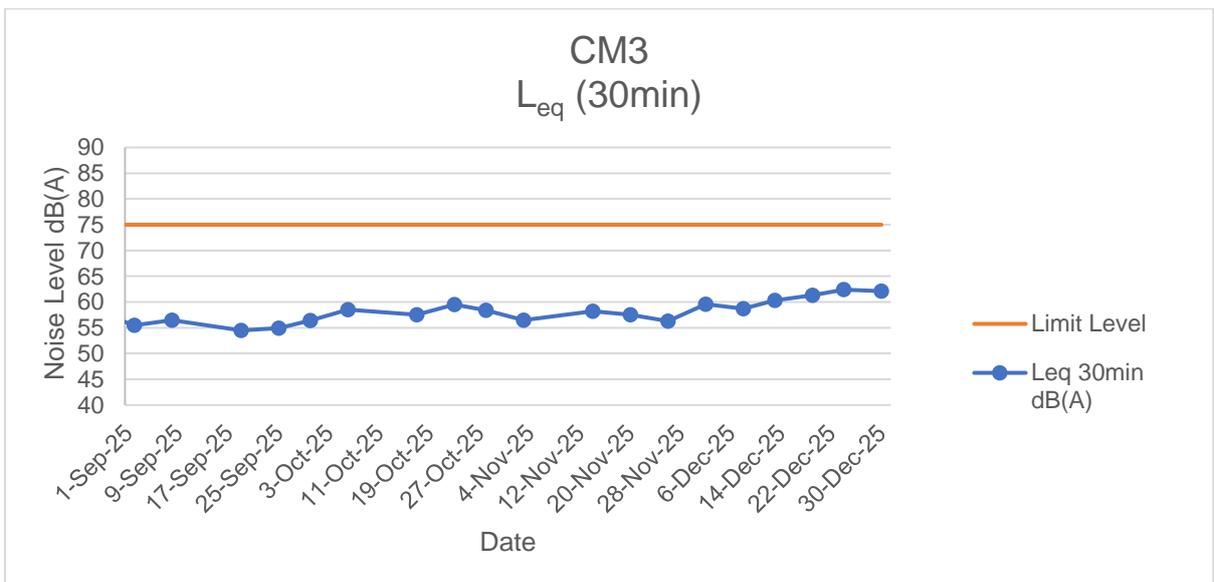
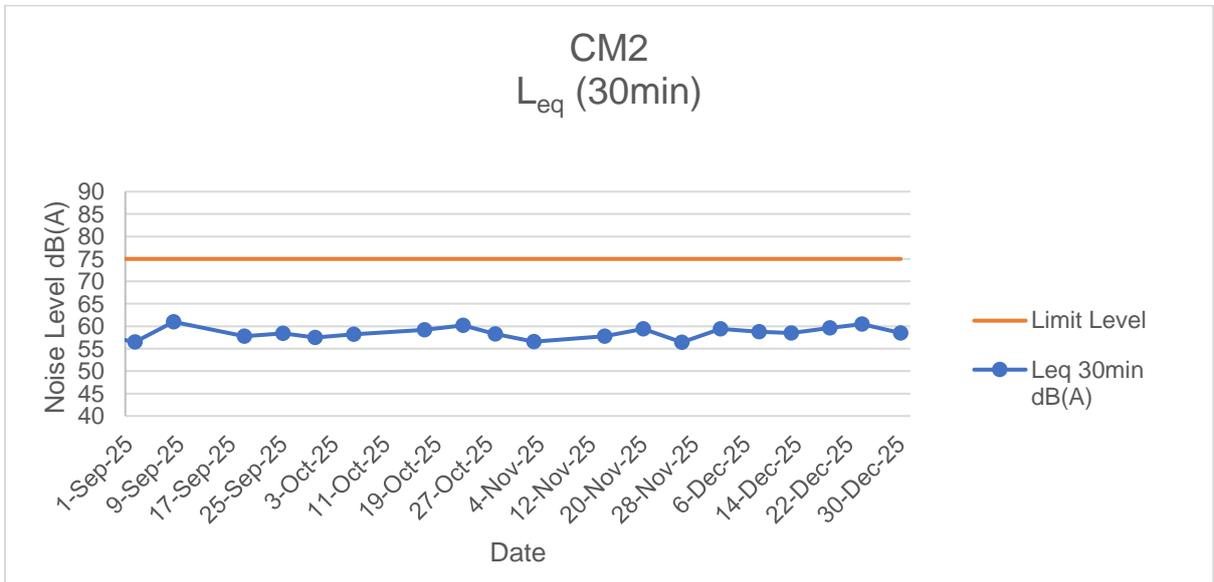
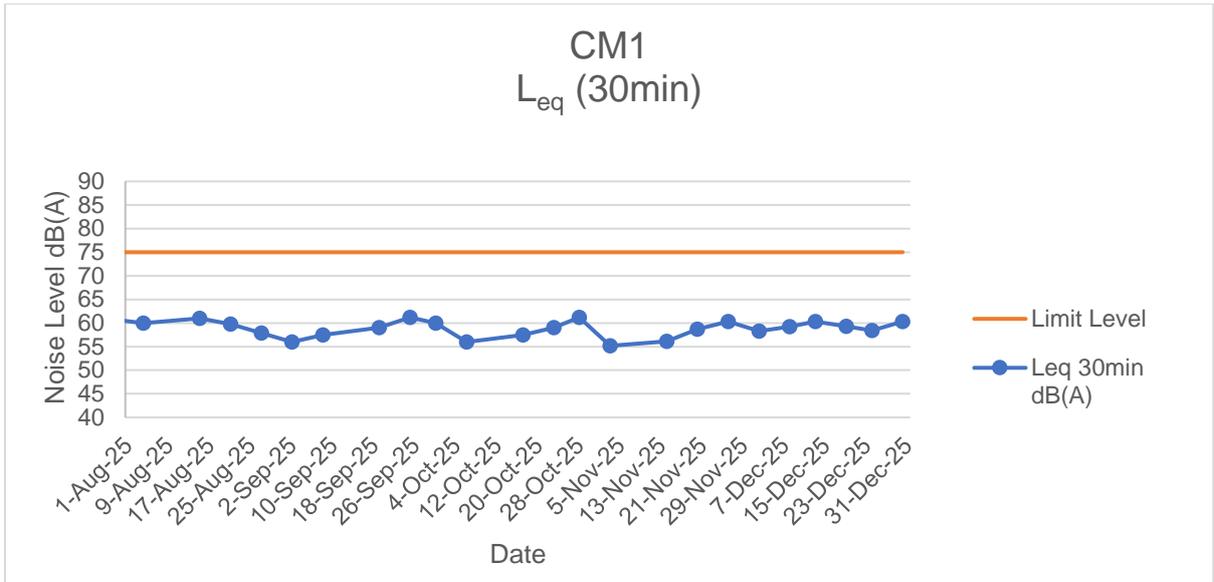
Graphical Presentation of Monitoring Data

Air Quality Monitoring Results



Air Quality Monitoring Results

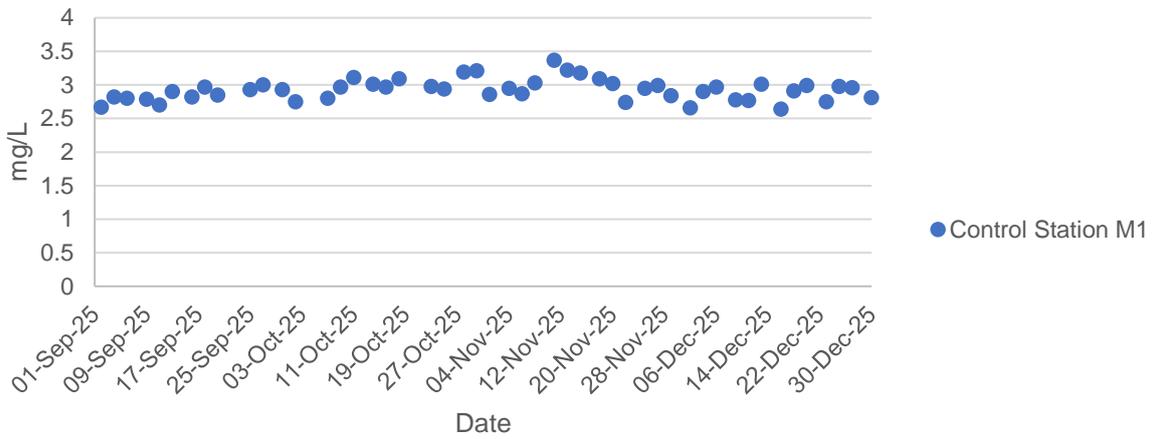
Noise Monitoring Results



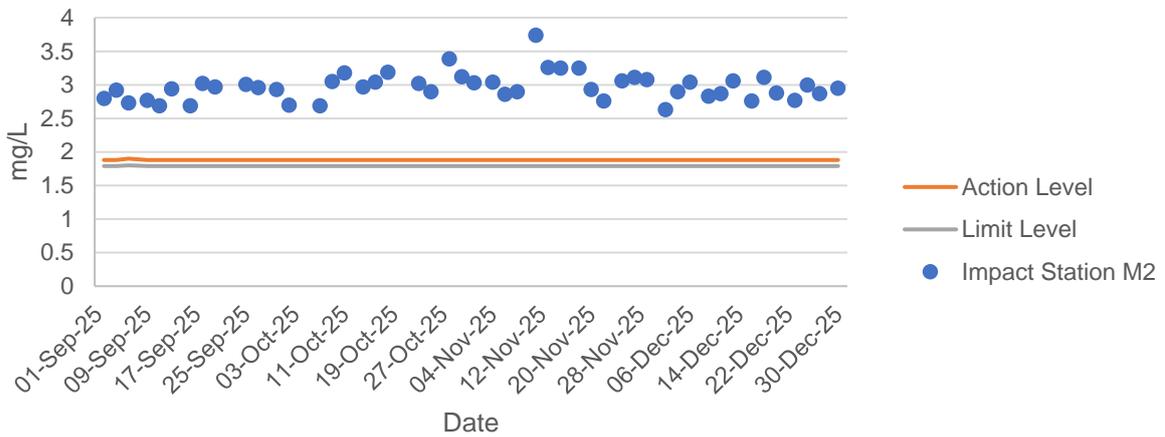
Noise Monitoring Results

Water Quality Monitoring Results

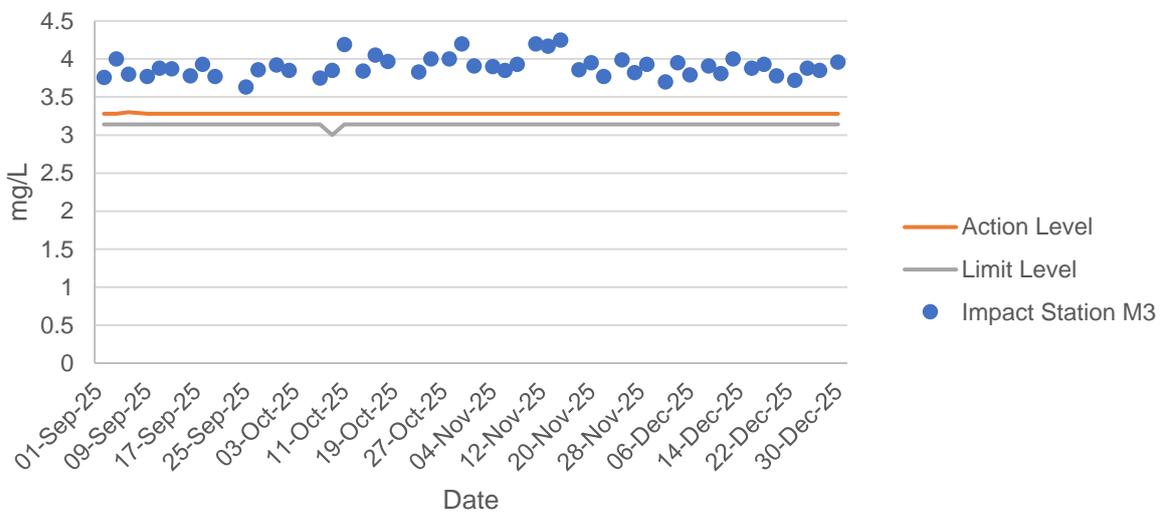
Dissolved Oxygen at Mid-Flood Tide



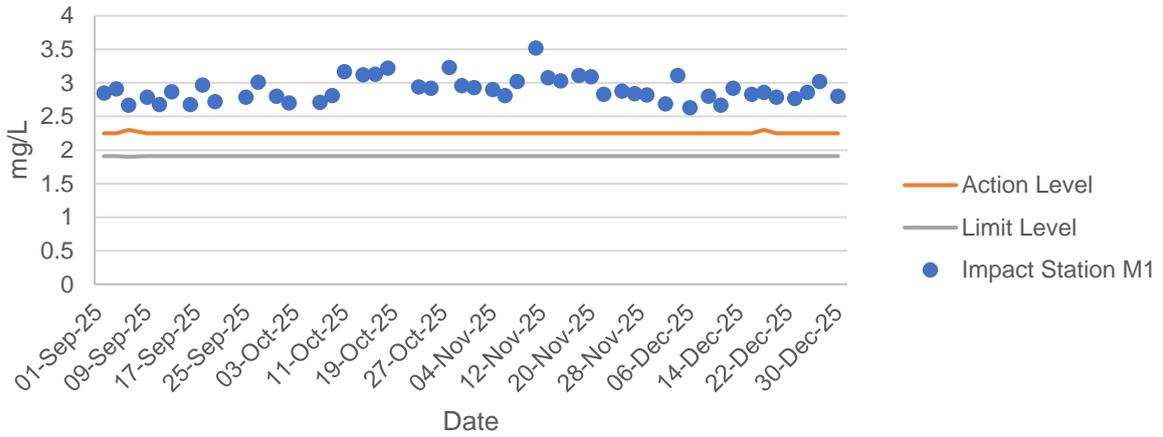
Dissolved Oxygen at Mid-Flood Tide



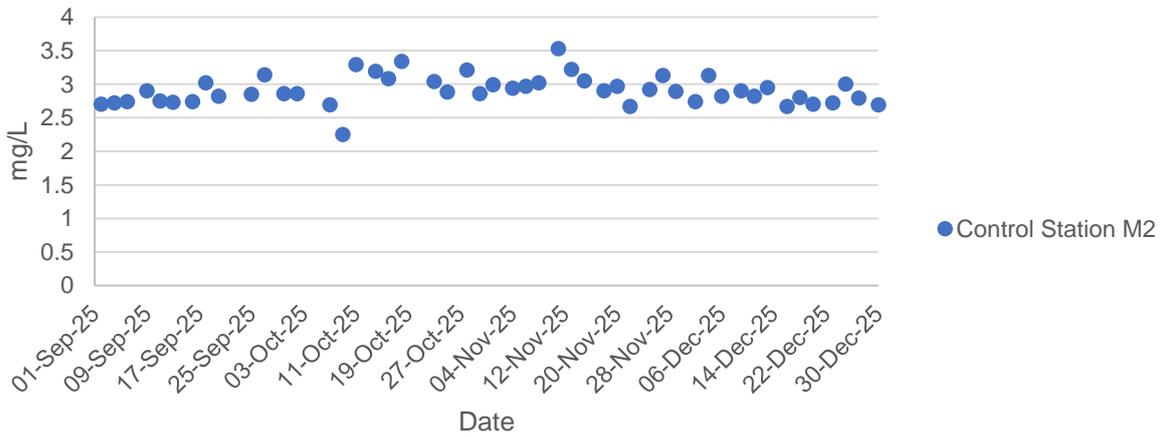
Dissolved Oxygen at Mid-Flood Tide



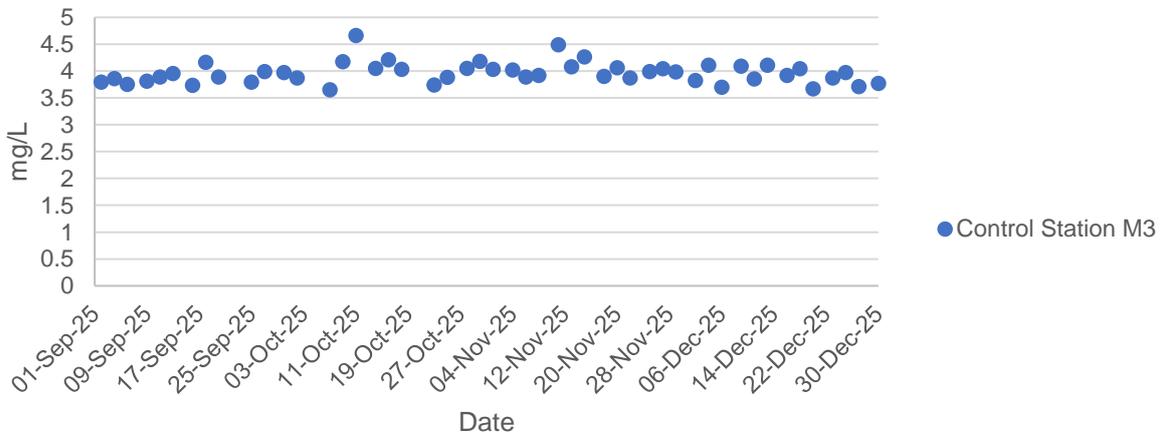
Dissolved Oxygen at Mid-Ebb Tide



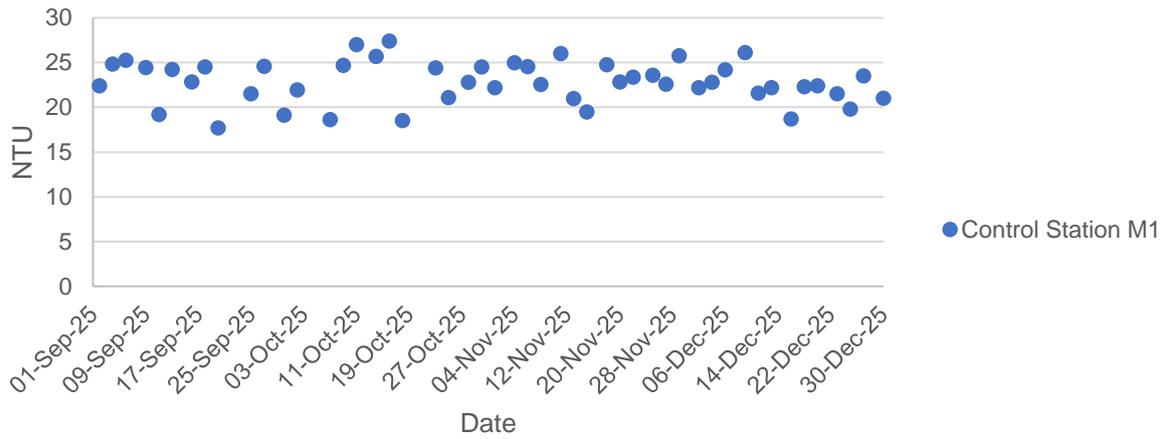
Dissolved Oxygen at Mid-Ebb Tide



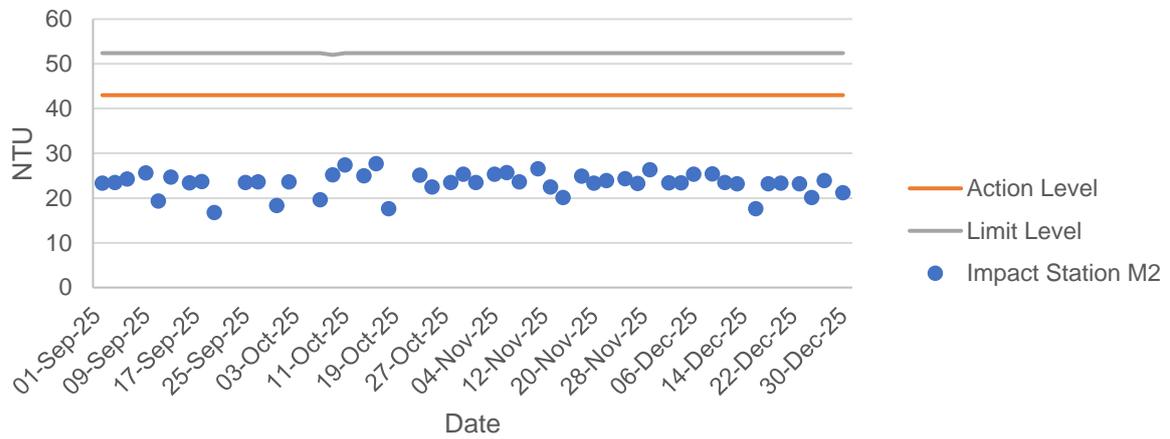
Dissolved Oxygen at Mid-Ebb Tide



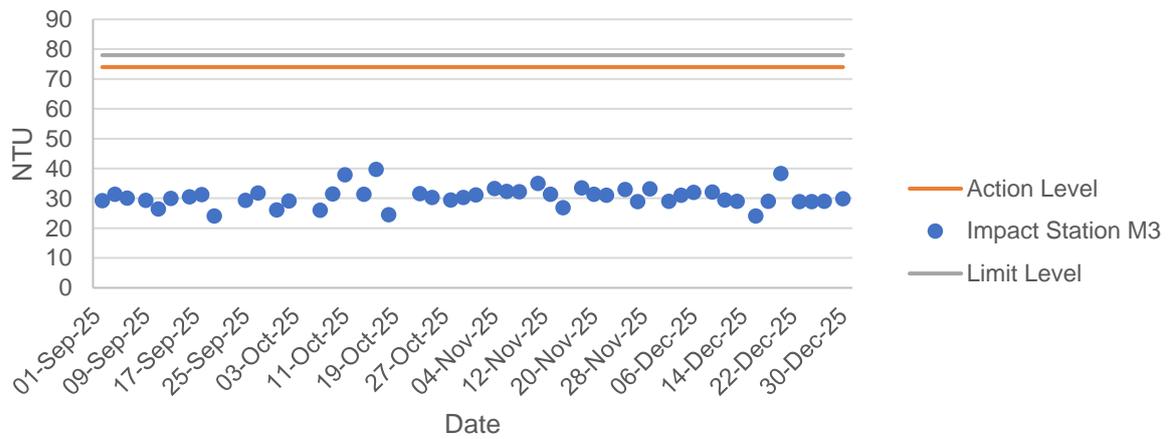
Turbidity at Mid-Flood Tide



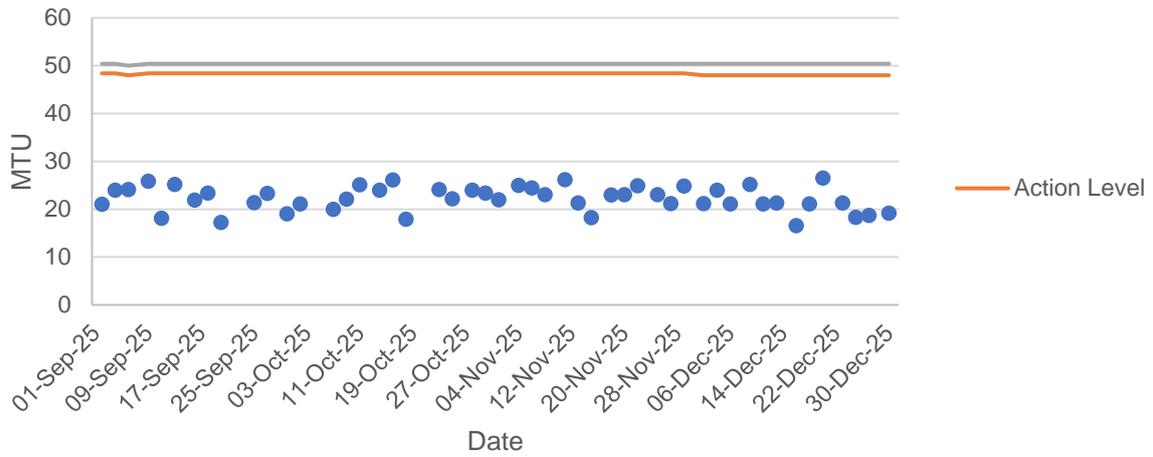
Turbidity at Mid-Flood Tide



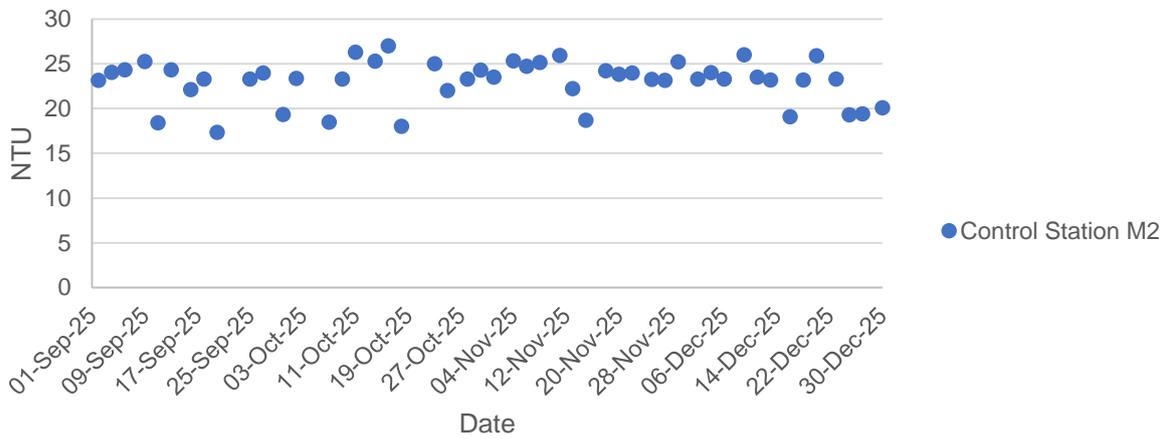
Turbidity at Mid-Flood Tide



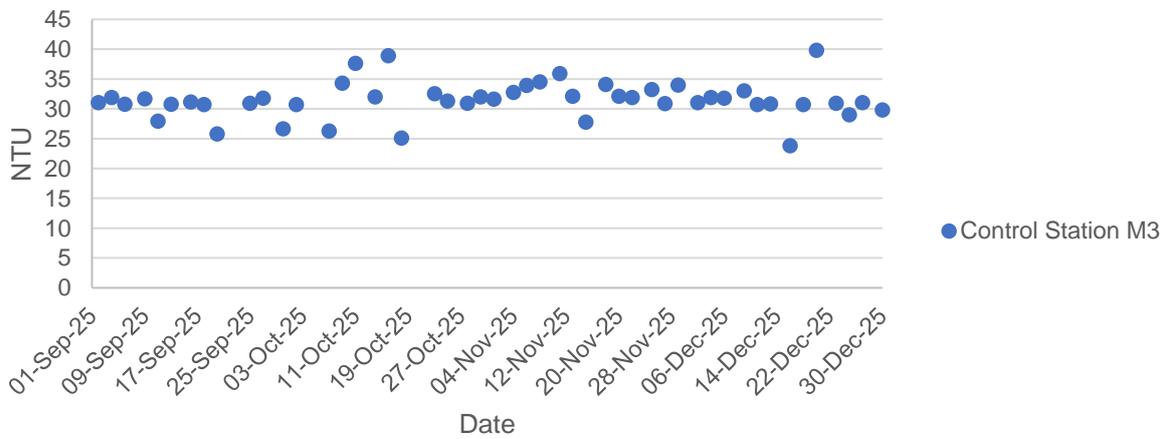
Turbidity at Mid-Ebb Tide



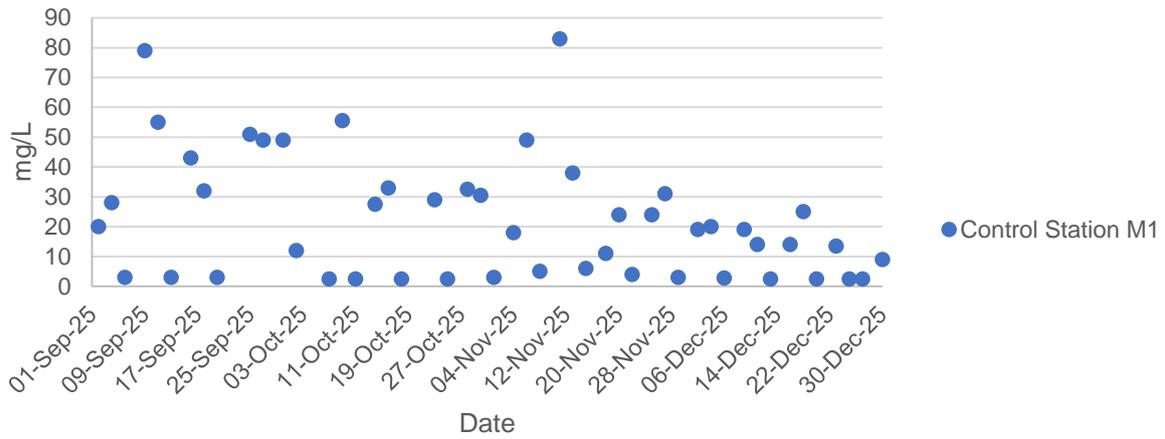
Turbidity at Mid-Ebb Tide



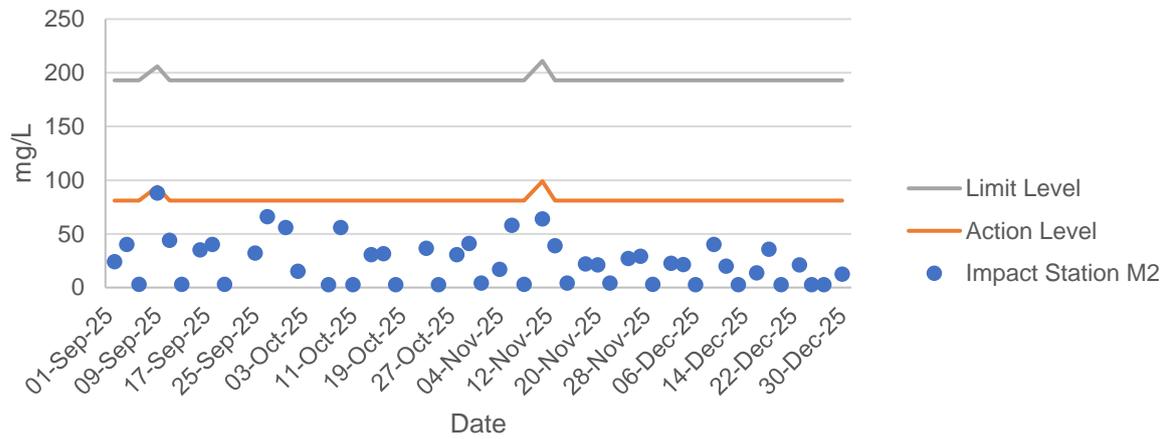
Turbidity at Mid-Ebb Tide



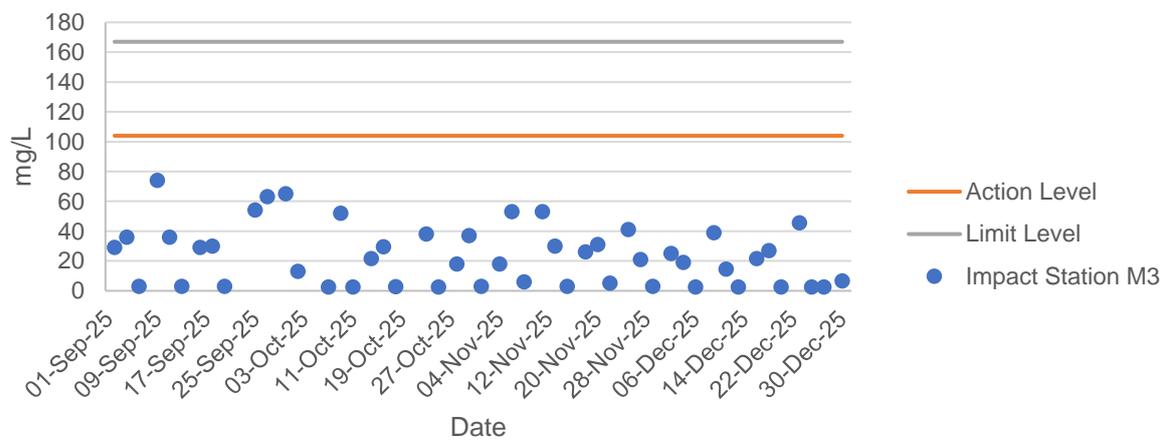
Total Suspended Solids at Mid-Flood Tide



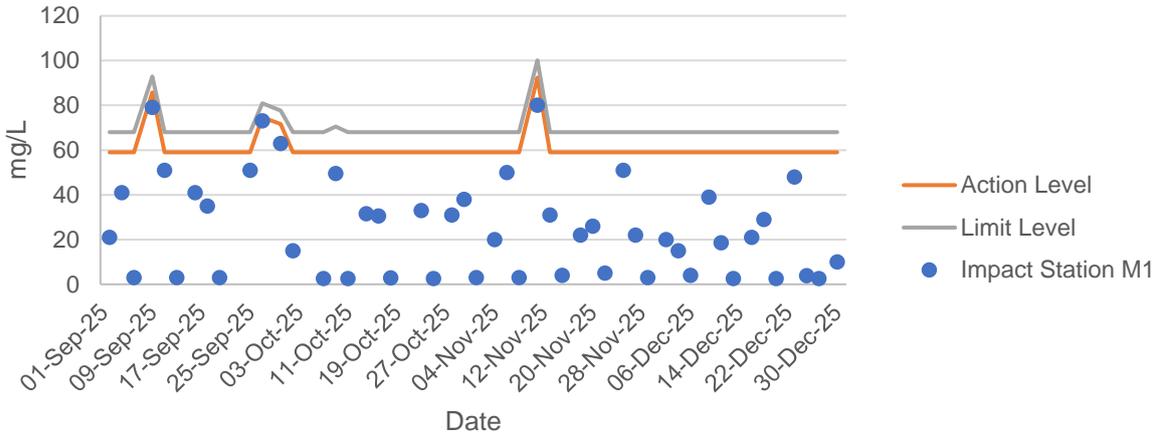
Total Suspended Solids at Mid-Flood Tide



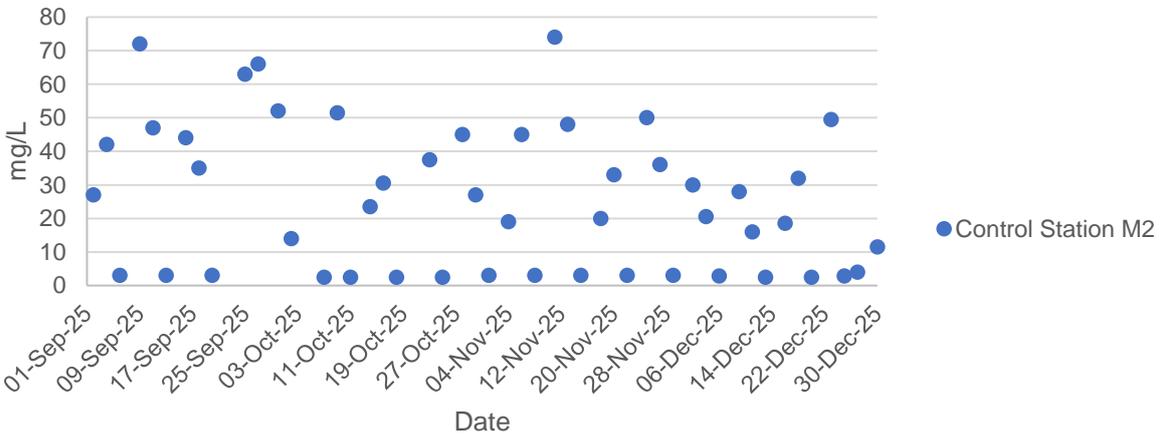
Total Suspended Solids at Mid-Flood Tide



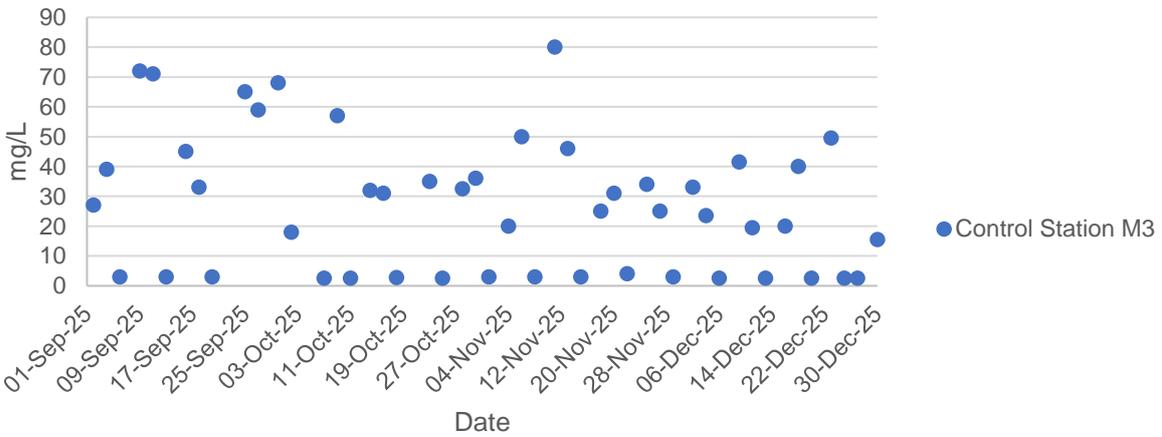
Total Suspended Solids at Mid-Ebb Tide



Total Suspended Solids at Mid-Ebb Tide



Total Suspended Solids at Mid-Ebb Tide



Ecology Monitoring Results for

Contract No. SPW 01/2025

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

Appendix F.1 Ecological Bird Monitoring Result (19 & 22 December 2025)

Date (dd/mm/yyyy)	Daytime/ Night-time	Season	Area	Transect / Point Count	Point Count (Location) / Transect	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ⁹	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent ⁸
19/12/2025	Daytime	Dry	FLW	Point Count	FLW1	Chinese Pond Heron	<i>Ardeola bacchus</i>	4	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW1	Great Cormorant	<i>Phalacrocorax carbo</i>	6	Common	WV	PRC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW1	Black-winged stilt	<i>Himantopus himantopus</i>	2	Common	PM	RC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW1	Common Sandpiper	<i>Actitis hypoleucos</i>	2	Common	PM,WV	-	-	-	LC	LC	N	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW1	Common Greenshank	<i>Tringa nebularia</i>	1	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW1	Eurasian Collared Dove	<i>Streptopelia decaocto</i>	1	Common	-	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW1	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	2	Abundant	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW1	Red-billed Starling	<i>Spodiopsar sericeus</i>	2	Common	WV	GC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW1	Black-collared Starling	<i>Gracupica nigricollis</i>	6	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW1	Stejneger's Stonechat	<i>Saxicola stejnegeri</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW1	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW2	Little Egret	<i>Egretta garzetta</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW2	Great Cormorant	<i>Phalacrocorax carbo</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW2	White-throated Kingfisher	<i>Halcyon smyrnensis</i>	1	Common	R	(LC)	Class II	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW2	Stejneger's Stonechat	<i>Saxicola stejnegeri</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW2	Scaly-breasted Munia	<i>Lonchura punctulata</i>	4	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW2	Black-faced Bunting	<i>Emberiza spodocephala</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW3	Great Egret	<i>Ardea alba</i>	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW3	Great Cormorant	<i>Phalacrocorax carbo</i>	2	Common	WV	PRC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW3	Black Kite	<i>Milvus migrans</i>	1	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW3	Dusky Warbler	<i>Phylloscopus fuscatus</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW3	Plain Prinia	<i>Prinia inornata</i>	1	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW3	Oriental Magpie Robin	<i>Copsychus saularis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW3	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW4	Northern Shoveler	<i>Spatula clypeata</i>	4	Abundant	WV	RC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW4	Tufted Duck	<i>Aythya fuligula</i>	4	Uncommon	WV	LC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW4	Little Grebe	<i>Tachybaptus ruficollis</i>	2	Common	R	LC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW4	Chinese Pond Heron	<i>Ardeola bacchus</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW4	Great Cormorant	<i>Phalacrocorax carbo</i>	4	Common	WV	PRC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW4	Common Moorhen	<i>Gallinula chloropus</i>	5	Common	R	-	-	-	LC	LC	N	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW4	Common Sandpiper	<i>Actitis hypoleucos</i>	1	Common	PM,WV	-	-	-	LC	LC	N	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW4	Spotted Dove	<i>Spilopelia chinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW4	Common Kingfisher	<i>Alcedo atthis</i>	1	Common	PM,WV	-	-	-	LC	LC	N	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW4	Chinese Bulbul	<i>Pycnonotus sinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW4	Yellow-bellied Prinia	<i>Prinia flaviventris</i>	1	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW4	Oriental Magpie Robin	<i>Copsychus saularis</i>	1	Abundant	R	-	-	-	LC	LC	N	N

Appendix F.1 Ecological Bird Monitoring Result (19 & 22 December 2025)

Date (dd/mm/yyyy)	Daytime/ Night-time	Season	Area	Transect / Point Count	Point Count (Location) / Transect	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ⁹	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent ⁸
19/12/2025	Daytime	Dry	FLW	Point Count	FLW4	Stejneger's Stonechat	<i>Saxicola stejnegeri</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW4	Black-faced Bunting	<i>Emberiza spodocephala</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW5	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW5	Grey Heron	<i>Ardea cinerea</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW5	Great Egret	<i>Ardea alba</i>	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW5	Little Egret	<i>Egretta garzetta</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW5	Great Cormorant	<i>Phalacrocorax carbo</i>	6	Common	WV	PRC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW5	Black-winged stilt	<i>Himantopus himantopus</i>	2	Common	PM	RC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW5	Spotted Dove	<i>Spilopelia chinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW5	Pied Kingfisher	<i>Ceryle rudis</i>	1	Uncommon	R	-	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW5	Dusky Warbler	<i>Phylloscopus fuscatus</i>	3	Common	PM,WV	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW5	Yellow-bellied Prinia	<i>Prinia flaviventris</i>	1	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW5	Plain Prinia	<i>Prinia inornata</i>	2	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW5	Crested Myna	<i>Acridotheres cristatellus</i>	6	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW5	Common Myna	<i>Acridotheres tristis</i>	3	Uncommon	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW5	Black-collared Starling	<i>Gracupica nigricollis</i>	4	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW5	Oriental Magpie Robin	<i>Copsychus saularis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW5	Eurasian Tree Sparrow	<i>Passer montanus</i>	4	Abundant	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW5	Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	2	Common	PM,WV	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW5	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW6	Tufted Duck	<i>Aythya fuligula</i>	2	Uncommon	WV	LC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW6	Little Grebe	<i>Tachybaptus ruficollis</i>	4	Common	R	LC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW6	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW6	Grey Heron	<i>Ardea cinerea</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW6	Great Cormorant	<i>Phalacrocorax carbo</i>	6	Common	WV	PRC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW6	Spotted Dove	<i>Spilopelia chinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW6	Greater Coucal	<i>Centropus sinensis</i>	1	Common	R	-	Class II	VU	LC	LC	Y	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW6	Black Drongo	<i>Dicrurus macrocercus</i>	2	Common	SV	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW6	Yellow-bellied Prinia	<i>Prinia flaviventris</i>	1	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW6	Crested Myna	<i>Acridotheres cristatellus</i>	4	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW6	Black-collared Starling	<i>Gracupica nigricollis</i>	4	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW7	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	1	Common	R,WV	(LC)	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW7	Chinese Pond Heron	<i>Ardeola bacchus</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW7	Great Cormorant	<i>Phalacrocorax carbo</i>	4	Common	WV	PRC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW7	White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	1	Common	R	-	-	-	LC	LC	N	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW7	Spotted Dove	<i>Spilopelia chinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW7	Asian Koel	<i>Eudynamys</i>	1	Common	R	-	-	-	LC	LC	N	N

Appendix F.1 Ecological Bird Monitoring Result (19 & 22 December 2025)

Date (dd/mm/yyyy)	Daytime/ Night-time	Season	Area	Transect / Point Count	Point Count (Location) / Transect	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ⁹	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent ⁸
							<i>scolopaceus</i>										
19/12/2025	Daytime	Dry	FLW	Point Count	FLW7	Common Kingfisher	<i>Alcedo atthis</i>	1	Common	PM,WV	-	-	-	LC	LC	N	Y
19/12/2025	Daytime	Dry	FLW	Point Count	FLW7	Chinese Bulbul	<i>Pycnonotus sinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW7	Black-collared Starling	<i>Gracupica nigricollis</i>	18	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Point Count	FLW7	White Wagtail	<i>Motacilla alba</i>	2	Common	PM,WV	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Point Count	NSW1	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	NSW1	Great Egret	<i>Ardea alba</i>	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	NSW1	Little Egret	<i>Egretta garzetta</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	NSW1	Great Cormorant	<i>Phalacrocorax carbo</i>	85	Common	WV	PRC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	NSW1	Black-winged stilt	<i>Himantopus himantopus</i>	3	Common	PM	RC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	NSW1	Eurasian Collared Dove	<i>Streptopelia decaocto</i>	1	Common	-	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Point Count	NSW1	Spotted Dove	<i>Spilopelia chinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Point Count	NSW1	White-throated Kingfisher	<i>Halcyon smyrnensis</i>	1	Common	R	(LC)	Class II	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	NSW1	Common Kingfisher	<i>Alcedo atthis</i>	1	Common	PM,WV	-	-	-	LC	LC	N	Y
19/12/2025	Daytime	Dry	NSW	Point Count	NSW1	Chinese Bulbul	<i>Pycnonotus sinensis</i>	3	Abundant	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Point Count	NSW1	Yellow-browed Warbler	<i>Phylloscopus inornatus</i>	1	Common	WV,Sp	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Point Count	NSW1	Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	3	Abundant	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Point Count	NSW1	Crested Myna	<i>Acridotheres cristatellus</i>	4	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Point Count	NSW1	Black-collared Starling	<i>Gracupica nigricollis</i>	2	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Point Count	NSW1	Eurasian Tree Sparrow	<i>Passer montanus</i>	4	Abundant	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Point Count	NSW1	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW1	Northern Shoveler	<i>Spatula clypeata</i>	7	Abundant	WV	RC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW1	Eurasian Teal	<i>Anas crecca</i>	8	Common	WV	RC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW1	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW1	Grey Heron	<i>Ardea cinerea</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW1	Great Egret	<i>Ardea alba</i>	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW1	Great Cormorant	<i>Phalacrocorax carbo</i>	4	Common	WV	PRC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW1	Common Moorhen	<i>Gallinula chloropus</i>	2	Common	R	-	-	-	LC	LC	N	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW1	Black-winged stilt	<i>Himantopus himantopus</i>	14	Common	PM	RC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW1	Pied Avocet	<i>Recurvirostra avosetta</i>	28	Abundant	WV	RC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW1	Black-headed Gull	<i>Chroicocephalus ridibundus</i>	18	Common	WV	PRC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW1	Spotted Dove	<i>Spilopelia chinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW1	Greater Coucal	<i>Centropus sinensis</i>	1	Common	R	-	Class II	VU	LC	LC	Y	N
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW1	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	3	Abundant	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW1	Yellow-browed Warbler	<i>Phylloscopus inornatus</i>	1	Common	WV,Sp	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW1	Yellow-bellied Prinia	<i>Prinia flaviventris</i>	1	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW1	Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	2	Abundant	R	-	-	-	LC	LC	N	N

Appendix F.1 Ecological Bird Monitoring Result (19 & 22 December 2025)

Date (dd/mm/yyyy)	Daytime/Night-time	Season	Area	Transect / Point Count	Point Count (Location) / Transect	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ⁹	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent ⁸
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW1	Black-collared Starling	<i>Gracupica nigricollis</i>	2	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW2	Chinese Pond Heron	<i>Ardeola bacchus</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW2	Grey Heron	<i>Ardea cinerea</i>	2	Common	WV	PRC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW2	Great Egret	<i>Ardea alba</i>	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW2	Little Egret	<i>Egretta garzetta</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW2	Great Cormorant	<i>Phalacrocorax carbo</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW2	Black-winged stilt	<i>Himantopus himantopus</i>	3	Common	PM	RC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW2	Pied Avocet	<i>Recurvirostra avosetta</i>	2	Abundant	WV	RC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW2	Common Sandpiper	<i>Actitis hypoleucos</i>	1	Common	PM,WV	-	-	-	LC	LC	N	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW2	Common Redshank	<i>Tringa totanus</i>	2	Common	PM	RC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW2	Common Greenshank	<i>Tringa nebularia</i>	2	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW2	Spotted Dove	<i>Spilopelia chinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW2	White-throated Kingfisher	<i>Halcyon smyrnensis</i>	1	Common	R	(LC)	Class II	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW2	Common Kingfisher	<i>Alcedo atthis</i>	1	Common	PM,WV	-	-	-	LC	LC	N	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW2	Oriental Magpie	<i>Pica serica</i>	1	Common	R	-	-	-	-	LC	N	N
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW2	Japanese Tit	<i>Parus minor</i>	3	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW2	Yellow-browed Warbler	<i>Phylloscopus inornatus</i>	1	Common	WV,Sp	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW2	Dusky Warbler	<i>Phylloscopus fuscatus</i>	2	Common	PM,WV	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW2	Plain Prinia	<i>Prinia inornata</i>	1	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW2	Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	2	Abundant	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW2	Crested Myna	<i>Acridotheres cristatellus</i>	6	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW2	Black-collared Starling	<i>Gracupica nigricollis</i>	2	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW2	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW3	Eurasian Wigeon	<i>Mareca penelope</i>	12	Common	WV	RC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW3	Eurasian Teal	<i>Anas crecca</i>	15	Common	WV	RC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW3	Chinese Pond Heron	<i>Ardeola bacchus</i>	14	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW3	Grey Heron	<i>Ardea cinerea</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW3	Great Egret	<i>Ardea alba</i>	2	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW3	Great Cormorant	<i>Phalacrocorax carbo</i>	64	Common	WV	PRC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW3	Common Moorhen	<i>Gallinula chloropus</i>	9	Common	R	-	-	-	LC	LC	N	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW3	Black-winged stilt	<i>Himantopus himantopus</i>	18	Common	PM	RC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW3	Pied Avocet	<i>Recurvirostra avosetta</i>	11	Abundant	WV	RC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW3	Common Sandpiper	<i>Actitis hypoleucos</i>	2	Common	PM,WV	-	-	-	LC	LC	N	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW3	Common Redshank	<i>Tringa totanus</i>	16	Common	PM	RC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW3	Common Greenshank	<i>Tringa nebularia</i>	6	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW3	Black-headed Gull	<i>Chroicocephalus ridibundus</i>	14	Common	WV	PRC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW3	Japanese Tit	<i>Parus minor</i>	2	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW3	Yellow-browed	<i>Phylloscopus</i>	2	Common	WV,Sp	-	-	-	LC	LC	N	N

Appendix F.1 Ecological Bird Monitoring Result (19 & 22 December 2025)

Date (dd/mm/yyyy)	Daytime/ Night-time	Season	Area	Transect / Point Count	Point Count (Location) / Transect	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ⁹	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent ⁸
						Warbler	<i>inornatus</i>										
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW3	Swinhoe's White-eye	<i>Zosterops simplex</i>	4	Abundant	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW3	Oriental Magpie Robin	<i>Copsychus saularis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Point Count	SP/NSW3	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Transect	FLW	Northern Shoveler	<i>Spatula clypeata</i>	12	Abundant	WV	RC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Transect	FLW	Eurasian Teal	<i>Anas crecca</i>	2	Common	WV	RC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Transect	FLW	Tufted Duck	<i>Aythya fuligula</i>	8	Uncommon	WV	LC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Transect	FLW	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	1	Common	R,WV	(LC)	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Transect	FLW	Chinese Pond Heron	<i>Ardeola bacchus</i>	3	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Transect	FLW	Grey Heron	<i>Ardea cinerea</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Transect	FLW	Great Cormorant	<i>Phalacrocorax carbo</i>	35	Common	WV	PRC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Transect	FLW	Black Kite	<i>Milvus migrans</i>	1	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	FLW	Transect	FLW	Spotted Dove	<i>Spilopelia chinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Transect	FLW	Common Kingfisher	<i>Alcedo atthis</i>	1	Common	PM,WV	-	-	-	LC	LC	N	Y
19/12/2025	Daytime	Dry	FLW	Transect	FLW	Azure-winged Magpie	<i>Cyanopica cyanus</i>	2	Introduced	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Transect	FLW	Japanese Tit	<i>Parus minor</i>	2	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Transect	FLW	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	4	Abundant	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Transect	FLW	Chinese Bulbul	<i>Pycnonotus sinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Transect	FLW	Yellow-browed Warbler	<i>Phylloscopus inornatus</i>	2	Common	WV,Sp	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Transect	FLW	Dusky Warbler	<i>Phylloscopus fuscatus</i>	8	Common	PM,WV	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Transect	FLW	Plain Prinia	<i>Prinia inornata</i>	2	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Transect	FLW	Common Tailorbird	<i>Orthotomus sutorius</i>	1	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Transect	FLW	Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	3	Abundant	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Transect	FLW	Swinhoe's White-eye	<i>Zosterops simplex</i>	2	Abundant	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Transect	FLW	Crested Myna	<i>Acridotheres cristatellus</i>	6	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Transect	FLW	Black-collared Starling	<i>Gracupica nigricollis</i>	3	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Transect	FLW	Stejneger's Stonechat	<i>Saxicola stejnegeri</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Transect	FLW	Scaly-breasted Munia	<i>Lonchura punctulata</i>	2	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Transect	FLW	Black-faced Bunting	<i>Emberiza spodocephala</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	FLW	Transect	FLW	Great Crested Grebe	<i>Podiceps cristatus</i>	1	Common	W	RC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Transect	NSW	Common Moorhen	<i>Gallinula chloropus</i>	1	Common	R	-	-	-	LC	LC	N	Y
19/12/2025	Daytime	Dry	NSW	Transect	NSW	Black-winged stilt	<i>Himantopus himantopus</i>	3	Common	PM	RC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Transect	NSW	Black-headed Gull	<i>Chroicocephalus ridibundus</i>	6	Common	WV	PRC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	NSW	Transect	NSW	Spotted Dove	<i>Spilopelia chinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Transect	NSW	Greater Coucal	<i>Centropus sinensis</i>	1	Common	R	-	Class II	VU	LC	LC	Y	N
19/12/2025	Daytime	Dry	NSW	Transect	NSW	Oriental Magpie	<i>Pica serica</i>	1	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Transect	NSW	Japanese Tit	<i>Parus minor</i>	2	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Transect	NSW	Chinese Bulbul	<i>Pycnonotus</i>	3	Abundant	R	-	-	-	LC	LC	N	N

Appendix F.1 Ecological Bird Monitoring Result (19 & 22 December 2025)

Date (dd/mm/yyyy)	Daytime/Night-time	Season	Area	Transect / Point Count	Point Count (Location) / Transect	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ⁹	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent ⁸
							<i>sinensis</i>										
19/12/2025	Daytime	Dry	NSW	Transect	NSW	Yellow-browed Warbler	<i>Phylloscopus inornatus</i>	1	Common	WV,Sp	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Transect	NSW	Dusky Warbler	<i>Phylloscopus fuscatus</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Transect	NSW	Common Tailorbird	<i>Orthotomus sutorius</i>	1	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Transect	NSW	Crested Myna	<i>Acridotheres cristatellus</i>	4	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Transect	NSW	Black-collared Starling	<i>Gracupica nigricollis</i>	3	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	NSW	Transect	NSW	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Northern Shoveler	<i>Spatula clypeata</i>	13	Abundant	WV	RC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Eurasian Teal	<i>Anas crecca</i>	23	Common	WV	RC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Chinese Pond Heron	<i>Ardeola bacchus</i>	4	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Grey Heron	<i>Ardea cinerea</i>	5	Common	WV	PRC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Great Egret	<i>Ardea alba</i>	2	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Little Egret	<i>Egretta garzetta</i>	3	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Great Cormorant	<i>Phalacrocorax carbo</i>	4	Common	WV	PRC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	2	Common	R	-	-	-	LC	LC	N	Y
19/12/2025	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Common Moorhen	<i>Gallinula chloropus</i>	11	Common	R	-	-	-	LC	LC	N	Y
19/12/2025	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Black-winged stilt	<i>Himantopus himantopus</i>	22	Common	PM	RC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Pied Avocet	<i>Recurvirostra avosetta</i>	30	Abundant	WV	RC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Little Ringed Plover	<i>Charadrius dubius</i>	1	Common	WV,PM	(LC)	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Common Sandpiper	<i>Actitis hypoleucos</i>	2	Common	PM,WV	-	-	-	LC	LC	N	Y
19/12/2025	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Common Redshank	<i>Tringa totanus</i>	11	Common	PM	RC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Marsh Sandpiper	<i>Tringa stagnatilis</i>	2	Common	PM,WV	RC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Common Greenshank	<i>Tringa nebularia</i>	4	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Black-headed Gull	<i>Chroicocephalus ridibundus</i>	45	Common	WV	PRC	-	-	LC	LC	Y	Y
19/12/2025	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Spotted Dove	<i>Spilopelia chinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Common Kingfisher	<i>Alcedo atthis</i>	1	Common	PM,WV	-	-	-	LC	LC	N	Y
19/12/2025	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Collared Crow	<i>Corvus torquatus</i>	1	Uncommon	R	LC	-	-	NT	VU	Y	Y
19/12/2025	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Yellow-browed Warbler	<i>Phylloscopus inornatus</i>	1	Common	WV,Sp	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Dusky Warbler	<i>Phylloscopus fuscatus</i>	2	Common	PM,WV	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Common Tailorbird	<i>Orthotomus sutorius</i>	1	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Black-collared Starling	<i>Gracupica nigricollis</i>	5	Common	R	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
19/12/2025	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	White Wagtail	<i>Motacilla alba</i>	2	Common	PM,WV	-	-	-	LC	LC	N	N
22/12/2025	Night-time	Dry	FLW	Point Count	FLW4	Common Moorhen	<i>Gallinula chloropus</i>	4	Common	R	-	-	-	LC	LC	N	Y

Appendix F.1 Ecological Bird Monitoring Result (19 & 22 December 2025)

Date (dd/mm/yyyy)	Daytime/ Night-time	Season	Area	Transect / Point Count	Point Count (Location) / Transect	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ⁹	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent ⁸
22/12/2025	Night-time	Dry	FLW	Point Count	FLW5	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	1	Common	R,WV	(LC)	-	-	LC	LC	Y	Y
22/12/2025	Night-time	Dry	FLW	Point Count	FLW6	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	1	Common	R,WV	(LC)	-	-	LC	LC	Y	Y
22/12/2025	Night-time	Dry	NSW	Point Count	SP/NSW1	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	3	Common	R,WV	(LC)	-	-	LC	LC	Y	Y
22/12/2025	Night-time	Dry	NSW	Point Count	SP/NSW1	White-throated Kingfisher	<i>Halcyon smyrnensis</i>	1	Common	R	(LC)	Class II	-	LC	LC	Y	Y
22/12/2025	Night-time	Dry	FLW	Transect	FLW	Tufted Duck	<i>Aythya fuligula</i>	16	Uncommon	WV	LC	-	-	LC	LC	Y	Y
22/12/2025	Night-time	Dry	FLW	Transect	FLW	Grey Heron	<i>Ardea cinerea</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
22/12/2025	Night-time	Dry	YLIE- CW	Transect	YLIE-CW	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	1	Common	R,WV	(LC)	-	-	LC	LC	Y	Y

Notes:

- All wild birds are protected under Wild Animals Protection Ordinance (Cap. 170).
- AFCD (2021). Hong Kong Biodiversity Database.
- Carey et al. (2001): R=resident; WV=winter visitor; SV=summer visitor; PM=passage migrant; Sp=spring; A=autumn;
- Fellowes et al. (2002): LC=Local Concern; RC=Regional Concern; PRC=Potential Regional Concern; PGC: Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in nesting and/or roosting sites rather than in general occurrence.
- List of Wild Animals under State Protection (promulgated by State Forestry Administration and Ministry of Agriculture on 14 January, 1989).
- Zheng, G. M. and Wang, Q. S. (1998). China Red Data Book
- IUCN 2021. The IUCN Red List of Threatened Species. Version 2020-3.
- Wetland-dependent species (including wetland-dependent species and waterbirds).
- Jiang et al. (2016). Red List of China's Vertebrates

Appendix F.2.1 Ecological Bird Monitoring Diversity (All avifauna species in Point Count Method) in All Habitats (19 & 22 December 2025)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Spatula clypeata</i>	11	0.0174	-4.0526	-0.0704	0.2854
<i>Mareca penelope</i>	12	0.0190	-3.9656	-0.0752	0.2981
<i>Anas crecca</i>	23	0.0363	-3.3150	-0.1204	0.3993
<i>Aythya fuligula</i>	6	0.0095	-4.6587	-0.0442	0.2057
<i>Tachybaptus ruficollis</i>	6	0.0095	-4.6587	-0.0442	0.2057
<i>Nycticorax nycticorax</i>	6	0.0095	-4.6587	-0.0442	0.2057
<i>Ardeola bacchus</i>	28	0.0442	-3.1183	-0.1379	0.4301
<i>Ardea cinerea</i>	6	0.0095	-4.6587	-0.0442	0.2057
<i>Ardea alba</i>	7	0.0111	-4.5046	-0.0498	0.2244
<i>Egretta garzetta</i>	6	0.0095	-4.6587	-0.0442	0.2057
<i>Phalacrocorax carbo</i>	183	0.2891	-1.2410	-0.3588	0.4452
<i>Milvus migrans</i>	1	0.0016	-6.4505	-0.0102	0.0657
<i>Amauornis phoenicurus</i>	1	0.0016	-6.4505	-0.0102	0.0657
<i>Gallinula chloropus</i>	20	0.0316	-3.4547	-0.1092	0.3771
<i>Himantopus himantopus</i>	42	0.0664	-2.7128	-0.1800	0.4883
<i>Recurvirostra avosetta</i>	41	0.0648	-2.7369	-0.1773	0.4852
<i>Actitis hypoleucos</i>	6	0.0095	-4.6587	-0.0442	0.2057
<i>Tringa totanus</i>	18	0.0284	-3.5601	-0.1012	0.3604
<i>Tringa nebularia</i>	9	0.0142	-4.2532	-0.0605	0.2572
<i>Chroicocephalus ridibundus</i>	32	0.0506	-2.9847	-0.1509	0.4504
<i>Streptopelia decaocto</i>	2	0.0032	-5.7573	-0.0182	0.1047
<i>Spilopelia chinensis</i>	11	0.0174	-4.0526	-0.0704	0.2854
<i>Centropus sinensis</i>	2	0.0032	-5.7573	-0.0182	0.1047
<i>Eudynamis scolopaceus</i>	1	0.0016	-6.4505	-0.0102	0.0657
<i>Halcyon smyrnensis</i>	4	0.0063	-5.0642	-0.0320	0.1621
<i>Alcedo atthis</i>	4	0.0063	-5.0642	-0.0320	0.1621
<i>Ceryle rudis</i>	1	0.0016	-6.4505	-0.0102	0.0657
<i>Dicrurus macrocercus</i>	2	0.0032	-5.7573	-0.0182	0.1047
<i>Pica serica</i>	1	0.0016	-6.4505	-0.0102	0.0657
<i>Parus minor</i>	5	0.0079	-4.8410	-0.0382	0.1851
<i>Pycnonotus jocosus</i>	5	0.0079	-4.8410	-0.0382	0.1851
<i>Pycnonotus sinensis</i>	7	0.0111	-4.5046	-0.0498	0.2244
<i>Phylloscopus inornatus</i>	5	0.0079	-4.8410	-0.0382	0.1851
<i>Phylloscopus fuscatus</i>	6	0.0095	-4.6587	-0.0442	0.2057
<i>Prinia flaviventris</i>	4	0.0063	-5.0642	-0.0320	0.1621
<i>Prinia inornata</i>	4	0.0063	-5.0642	-0.0320	0.1621
<i>Pterorhinus perspicillatus</i>	7	0.0111	-4.5046	-0.0498	0.2244
<i>Zosterops simplex</i>	4	0.0063	-5.0642	-0.0320	0.1621
<i>Acridotheres cristatellus</i>	20	0.0316	-3.4547	-0.1092	0.3771
<i>Acridotheres tristis</i>	3	0.0047	-5.3519	-0.0254	0.1357
<i>Spodiopsar sericeus</i>	2	0.0032	-5.7573	-0.0182	0.1047
<i>Gracupica nigricollis</i>	38	0.0600	-2.8129	-0.1689	0.4750
<i>Copsychus saularis</i>	4	0.0063	-5.0642	-0.0320	0.1621
<i>Saxicola stejnegeri</i>	3	0.0047	-5.3519	-0.0254	0.1357
<i>Passer montanus</i>	8	0.0126	-4.3710	-0.0552	0.2415
<i>Lonchura punctulata</i>	4	0.0063	-5.0642	-0.0320	0.1621
<i>Motacilla tschutschensis</i>	2	0.0032	-5.7573	-0.0182	0.1047
<i>Motacilla alba</i>	8	0.0126	-4.3710	-0.0552	0.2415
<i>Emberiza spodocephala</i>	2	0.0032	-5.7573	-0.0182	0.1047

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
Total	633	1	-228.0541	-3.0088	10.9286
Richness	49				
SS	10.9286				
SQ	9.0528				
H	3.0088				
S ² H	0.0030				

Appendix F.2.2 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Point Count Method) in All Habitats (19 & 22 December 2025)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Spatula clypeata</i>	11	0.0247	-3.7024	-0.0913	0.3381
<i>Mareca penelope</i>	12	0.0269	-3.6154	-0.0973	0.3517
<i>Anas crecca</i>	23	0.0516	-2.9648	-0.1529	0.4533
<i>Aythya fuligula</i>	6	0.0135	-4.3086	-0.0580	0.2497
<i>Tachybaptus ruficollis</i>	6	0.0135	-4.3086	-0.0580	0.2497
<i>Nycticorax nycticorax</i>	6	0.0135	-4.3086	-0.0580	0.2497
<i>Ardeola bacchus</i>	28	0.0628	-2.7681	-0.1738	0.4811
<i>Ardea cinerea</i>	6	0.0135	-4.3086	-0.0580	0.2497
<i>Ardea alba</i>	7	0.0157	-4.1544	-0.0652	0.2709
<i>Egretta garzetta</i>	6	0.0135	-4.3086	-0.0580	0.2497
<i>Phalacrocorax carbo</i>	183	0.4103	-0.8908	-0.3655	0.3256
<i>Milvus migrans</i>	1	0.0022	-6.1003	-0.0137	0.0834
<i>Himantopus himantopus</i>	42	0.0942	-2.3626	-0.2225	0.5257
<i>Recurvirostra avosetta</i>	41	0.0919	-2.3867	-0.2194	0.5237
<i>Tringa totanus</i>	18	0.0404	-3.2099	-0.1295	0.4158
<i>Tringa nebularia</i>	9	0.0202	-3.9031	-0.0788	0.3074
<i>Chroicocephalus ridibundus</i>	32	0.0717	-2.6346	-0.1890	0.4980
<i>Centropus sinensis</i>	2	0.0045	-5.4072	-0.0242	0.1311
<i>Halcyon smyrnensis</i>	4	0.0090	-4.7140	-0.0423	0.1993
<i>Ceryle rudis</i>	1	0.0022	-6.1003	-0.0137	0.0834
<i>Spodiopsar sericeus</i>	2	0.0045	-5.4072	-0.0242	0.1311
Total	446	1	-81.8648	-2.1932	6.3683
Richness	21				
SS	6.3683				
SQ	4.8100				
H	2.1932				
S ² H	0.00354				

Appendix F.2.3 Ecological Bird Monitoring Diversity (All avifauna species in Transect Walk Method) in All Habitats (19 & 22 December 2025)

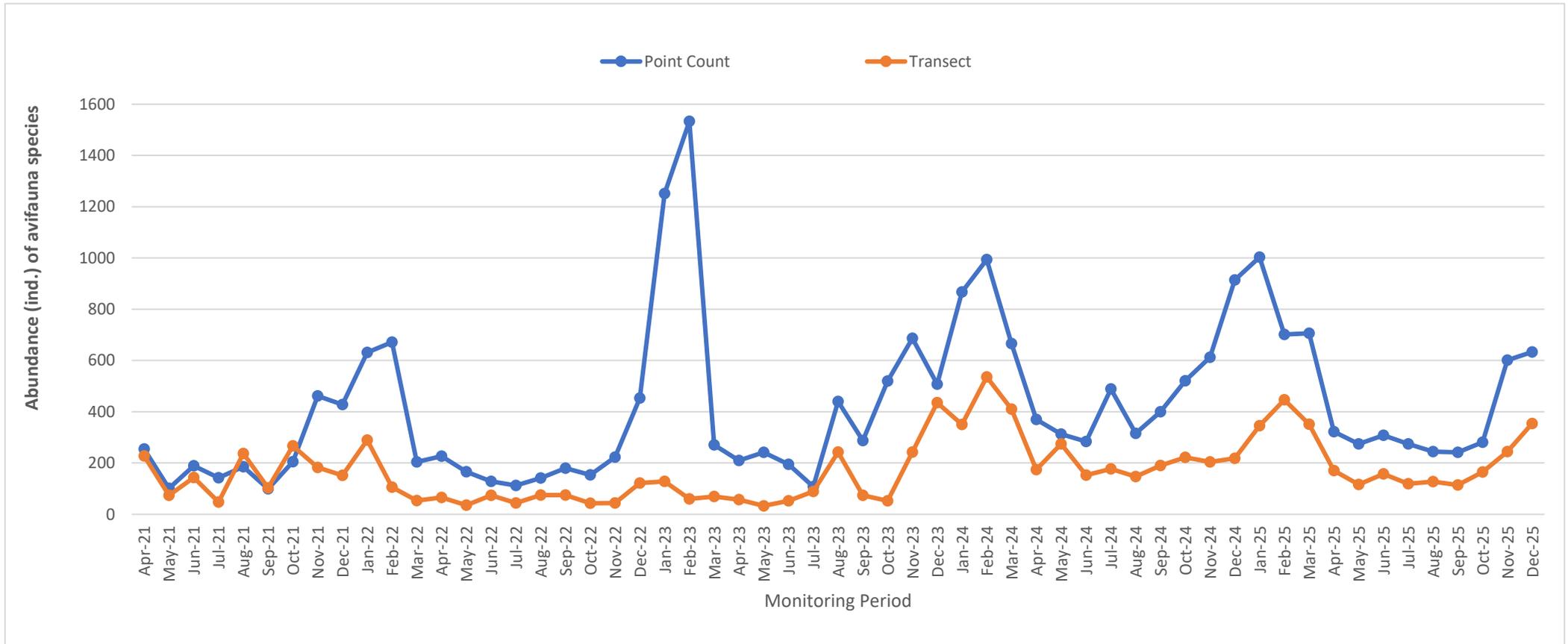
Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Spatula clypeata</i>	25	0.0706	-2.6504	-0.1872	0.4961
<i>Anas crecca</i>	25	0.0706	-2.6504	-0.1872	0.4961
<i>Aythya fuligula</i>	24	0.0678	-2.6912	-0.1825	0.4910
<i>Podiceps cristatus</i>	1	0.0028	-5.8693	-0.0166	0.0973
<i>Nycticorax nycticorax</i>	2	0.0056	-5.1761	-0.0292	0.1514
<i>Ardeola bacchus</i>	7	0.0198	-3.9234	-0.0776	0.3044
<i>Ardea cinerea</i>	7	0.0198	-3.9234	-0.0776	0.3044
<i>Ardea alba</i>	2	0.0056	-5.1761	-0.0292	0.1514
<i>Egretta garzetta</i>	3	0.0085	-4.7707	-0.0404	0.1929
<i>Phalacrocorax carbo</i>	39	0.1102	-2.2057	-0.2430	0.5360
<i>Milvus migrans</i>	1	0.0028	-5.8693	-0.0166	0.0973
<i>Amauornis phoenicurus</i>	2	0.0056	-5.1761	-0.0292	0.1514
<i>Gallinula chloropus</i>	12	0.0339	-3.3844	-0.1147	0.3883
<i>Himantopus himantopus</i>	25	0.0706	-2.6504	-0.1872	0.4961
<i>Recurvirostra avosetta</i>	30	0.0847	-2.4681	-0.2092	0.5162
<i>Charadrius dubius</i>	1	0.0028	-5.8693	-0.0166	0.0973
<i>Actitis hypoleucos</i>	2	0.0056	-5.1761	-0.0292	0.1514
<i>Tringa totanus</i>	11	0.0311	-3.4714	-0.1079	0.3745
<i>Tringa stagnatilis</i>	2	0.0056	-5.1761	-0.0292	0.1514
<i>Tringa nebularia</i>	4	0.0113	-4.4830	-0.0507	0.2271
<i>Chroicocephalus ridibundus</i>	51	0.1441	-1.9375	-0.2791	0.5408
<i>Spilopelia chinensis</i>	4	0.0113	-4.4830	-0.0507	0.2271
<i>Centropus sinensis</i>	1	0.0028	-5.8693	-0.0166	0.0973
<i>Alcedo atthis</i>	2	0.0056	-5.1761	-0.0292	0.1514
<i>Cyanopica cyanus</i>	2	0.0056	-5.1761	-0.0292	0.1514
<i>Pica serica</i>	1	0.0028	-5.8693	-0.0166	0.0973
<i>Corvus torquatus</i>	1	0.0028	-5.8693	-0.0166	0.0973
<i>Parus minor</i>	4	0.0113	-4.4830	-0.0507	0.2271
<i>Pycnonotus jocosus</i>	4	0.0113	-4.4830	-0.0507	0.2271
<i>Pycnonotus sinensis</i>	5	0.0141	-4.2599	-0.0602	0.2563
<i>Phylloscopus inornatus</i>	4	0.0113	-4.4830	-0.0507	0.2271
<i>Phylloscopus fuscatus</i>	11	0.0311	-3.4714	-0.1079	0.3745
<i>Prinia inornata</i>	2	0.0056	-5.1761	-0.0292	0.1514
<i>Orthotomus sutorius</i>	3	0.0085	-4.7707	-0.0404	0.1929
<i>Pterorhinus perspicillatus</i>	3	0.0085	-4.7707	-0.0404	0.1929
<i>Zosterops simplex</i>	2	0.0056	-5.1761	-0.0292	0.1514
<i>Acridotheres cristatellus</i>	10	0.0282	-3.5667	-0.1008	0.3594
<i>Gracupica nigricollis</i>	11	0.0311	-3.4714	-0.1079	0.3745
<i>Saxicola stejnegeri</i>	1	0.0028	-5.8693	-0.0166	0.0973
<i>Lonchura punctulata</i>	2	0.0056	-5.1761	-0.0292	0.1514
<i>Motacilla tschutschensis</i>	1	0.0028	-5.8693	-0.0166	0.0973
<i>Motacilla alba</i>	3	0.0085	-4.7707	-0.0404	0.1929
<i>Emberiza spodocephala</i>	1	0.0028	-5.8693	-0.0166	0.0973

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
Total	354	1	-192.8087	-3.0863	10.6049
Richness	43				
SS	10.6049				
SQ	9.5255				
H	3.0863				
S ² H	0.003217				

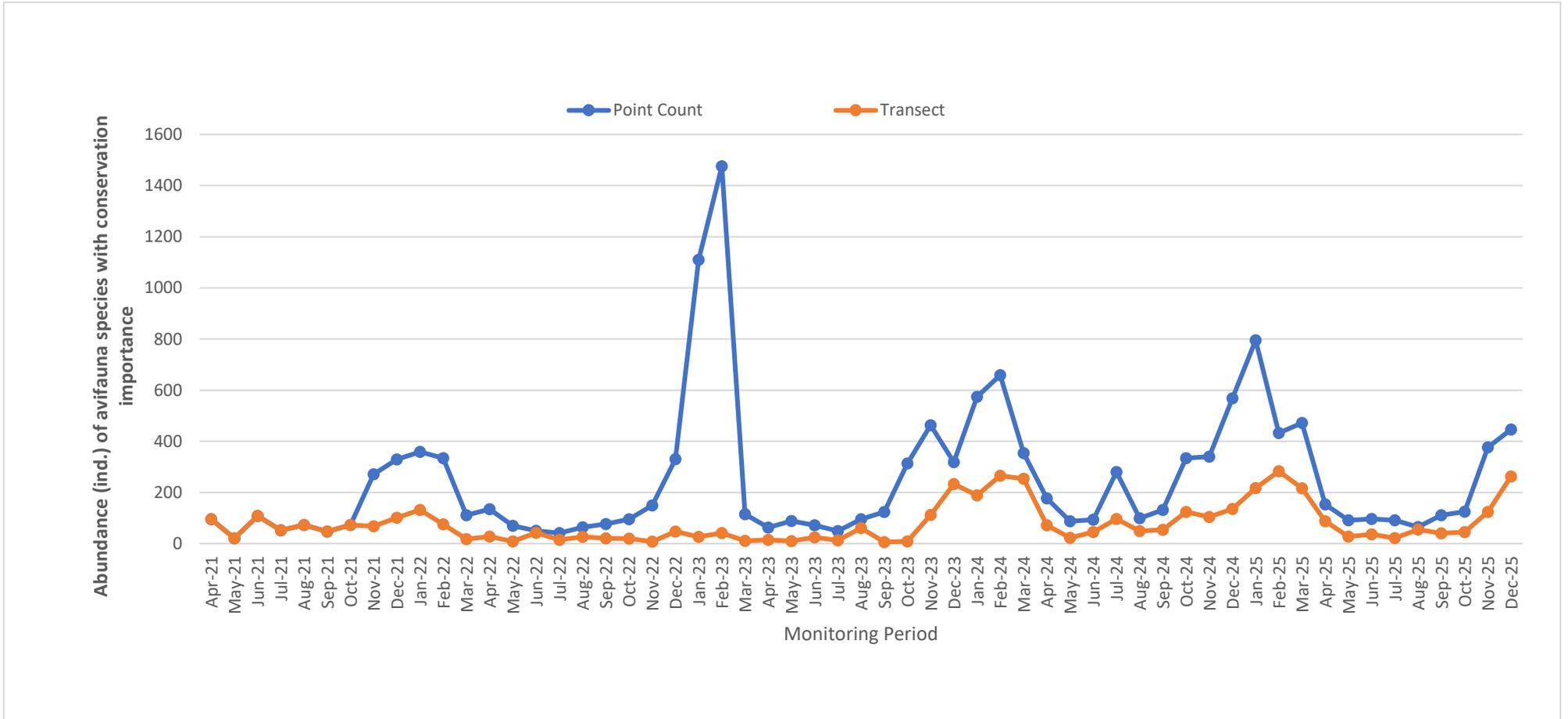
Appendix F.2.4 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Transect Walk Method) in All Habitats (19 & 22 December 2025)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Spatula clypeata</i>	25	0.0954	-2.3495	-0.2242	0.5267
<i>Anas crecca</i>	25	0.0954	-2.3495	-0.2242	0.5267
<i>Aythya fuligula</i>	24	0.0916	-2.3903	-0.2190	0.5234
<i>Podiceps cristatus</i>	1	0.0038	-5.5683	-0.0213	0.1183
<i>Nycticorax nycticorax</i>	2	0.0076	-4.8752	-0.0372	0.1814
<i>Ardeola bacchus</i>	7	0.0267	-3.6224	-0.0968	0.3506
<i>Ardea cinerea</i>	7	0.0267	-3.6224	-0.0968	0.3506
<i>Ardea alba</i>	2	0.0076	-4.8752	-0.0372	0.1814
<i>Egretta garzetta</i>	3	0.0115	-4.4697	-0.0512	0.2288
<i>Phalacrocorax carbo</i>	39	0.1489	-1.9048	-0.2835	0.5401
<i>Milvus migrans</i>	1	0.0038	-5.5683	-0.0213	0.1183
<i>Himantopus himantopus</i>	25	0.0954	-2.3495	-0.2242	0.5267
<i>Recurvirostra avosetta</i>	30	0.1145	-2.1671	-0.2481	0.5378
<i>Charadrius dubius</i>	1	0.0038	-5.5683	-0.0213	0.1183
<i>Tringa totanus</i>	11	0.0420	-3.1704	-0.1331	0.4220
<i>Tringa stagnatilis</i>	2	0.0076	-4.8752	-0.0372	0.1814
<i>Tringa nebularia</i>	4	0.0153	-4.1821	-0.0638	0.2670
<i>Chroicocephalus ridibundus</i>	51	0.1947	-1.6365	-0.3186	0.5213
<i>Centropus sinensis</i>	1	0.0038	-5.5683	-0.0213	0.1183
<i>Corvus torquatus</i>	1	0.0038	-5.5683	-0.0213	0.1183
Total	262	1	-76.6816	-2.4014	6.4577
Richness	20				
SS	6.4577				
SQ	5.7666				
H	2.4014				
S ² H	0.00278				

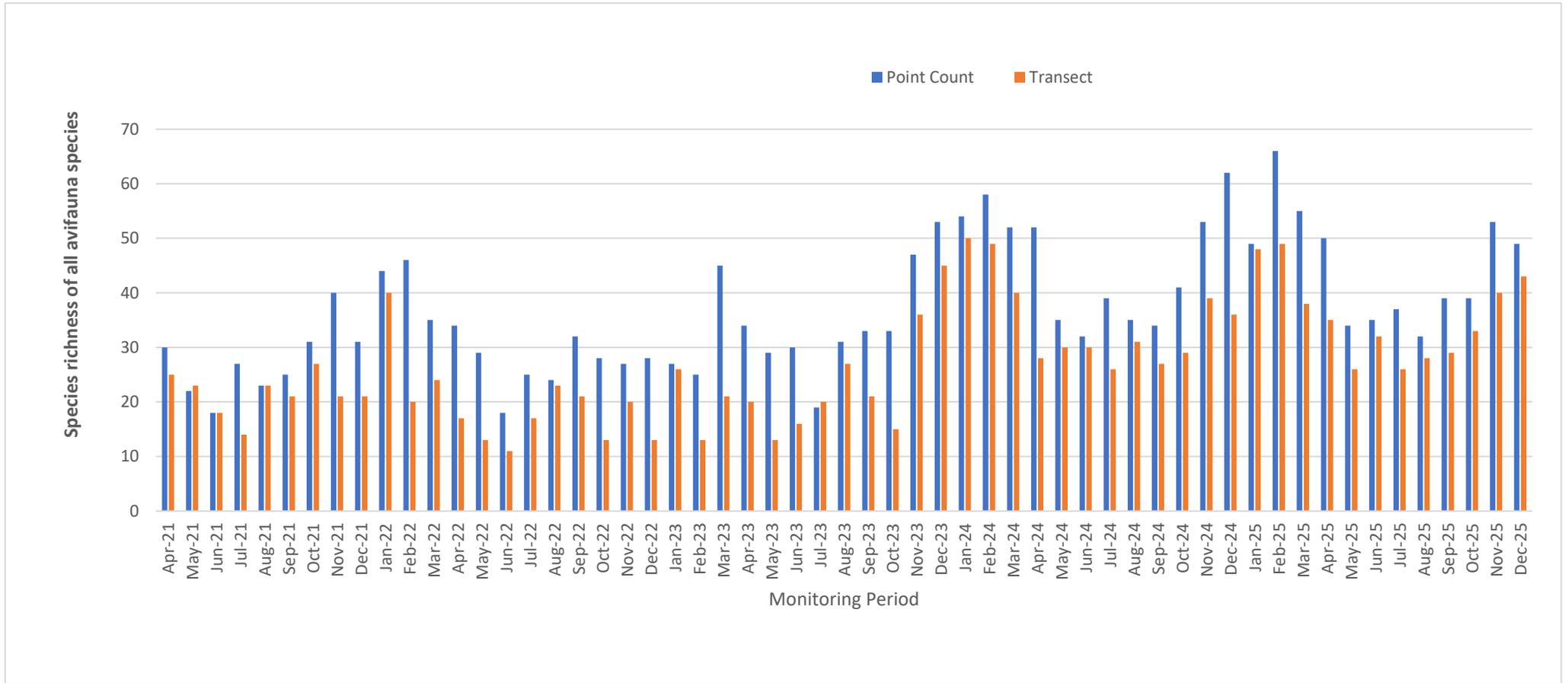
Appendix F.3.1 Abundance of all avifauna species throughout the monitoring period



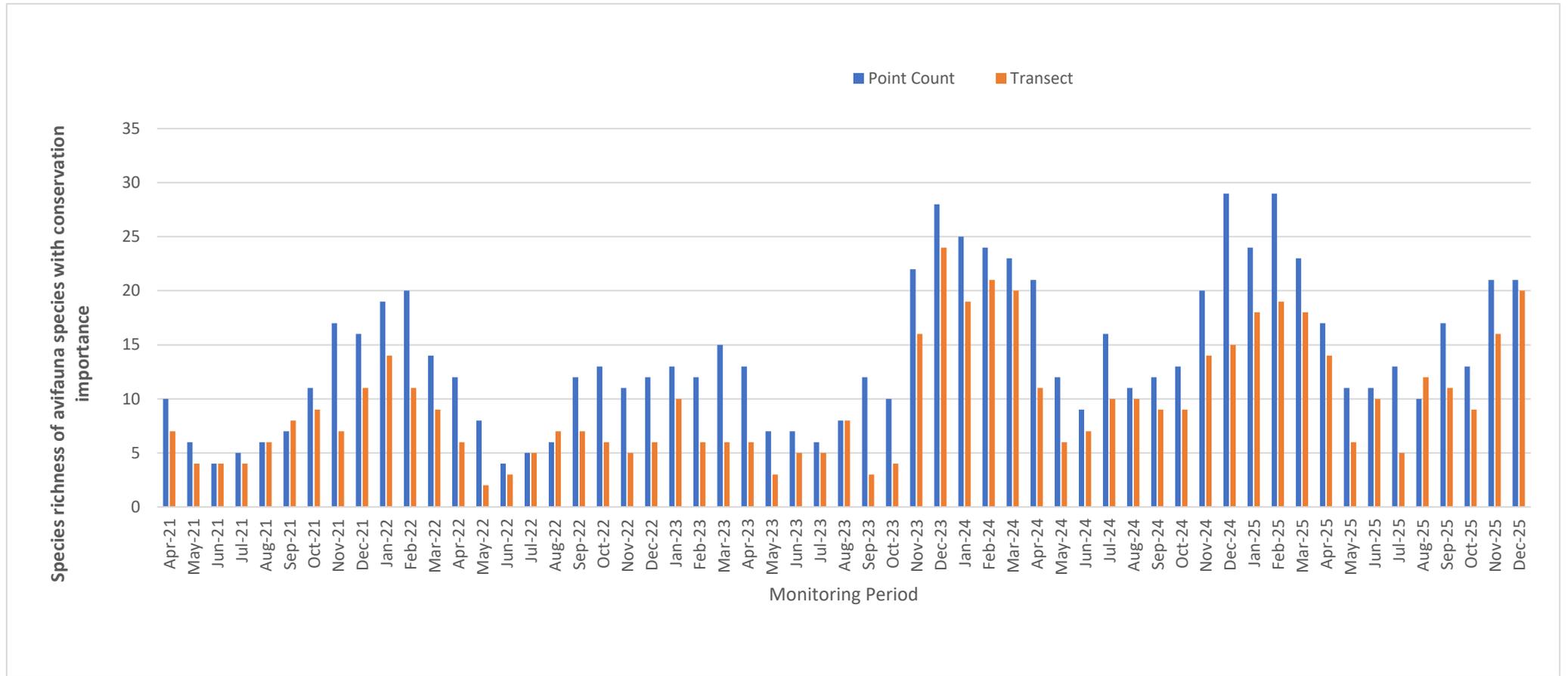
Appendix F.3.2 Abundance of avifauna species with conservation importance throughout the monitoring period



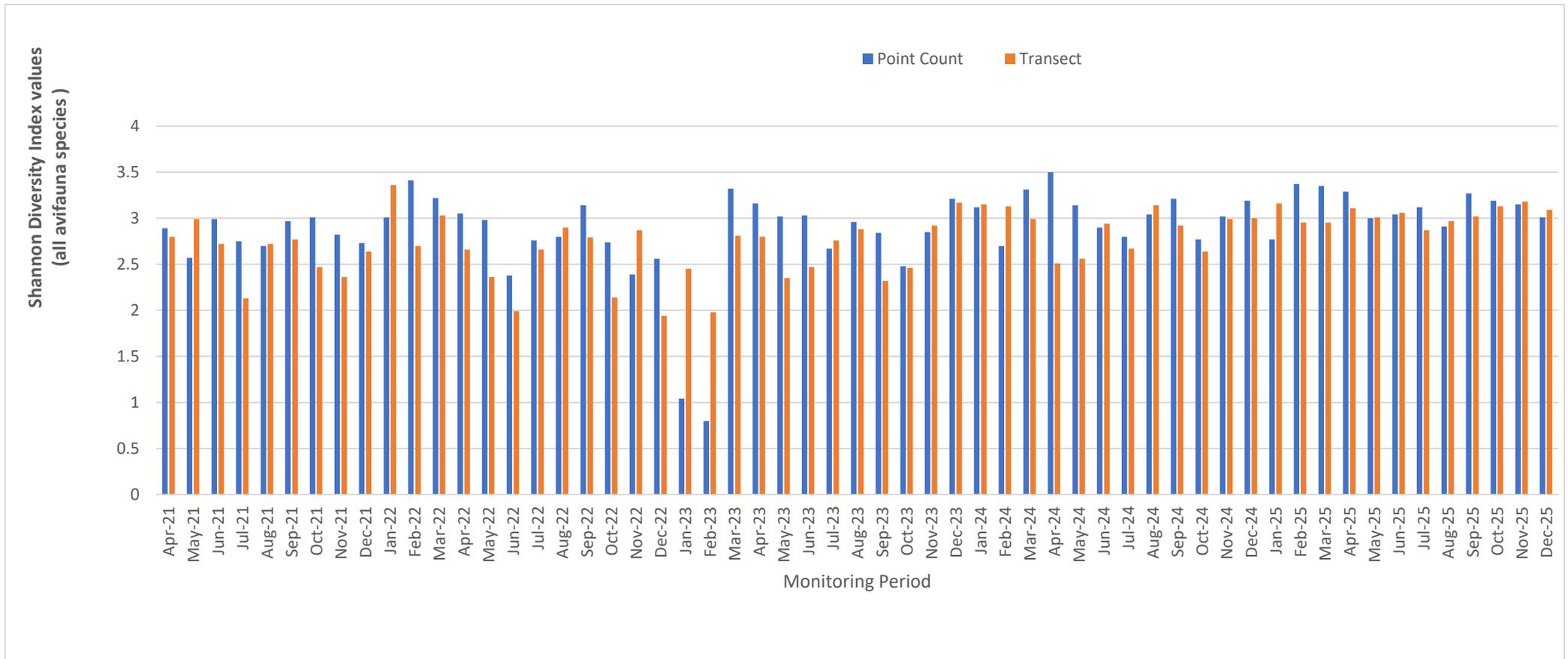
Appendix F.4.1 Species richness of all avifauna species throughout the monitoring period



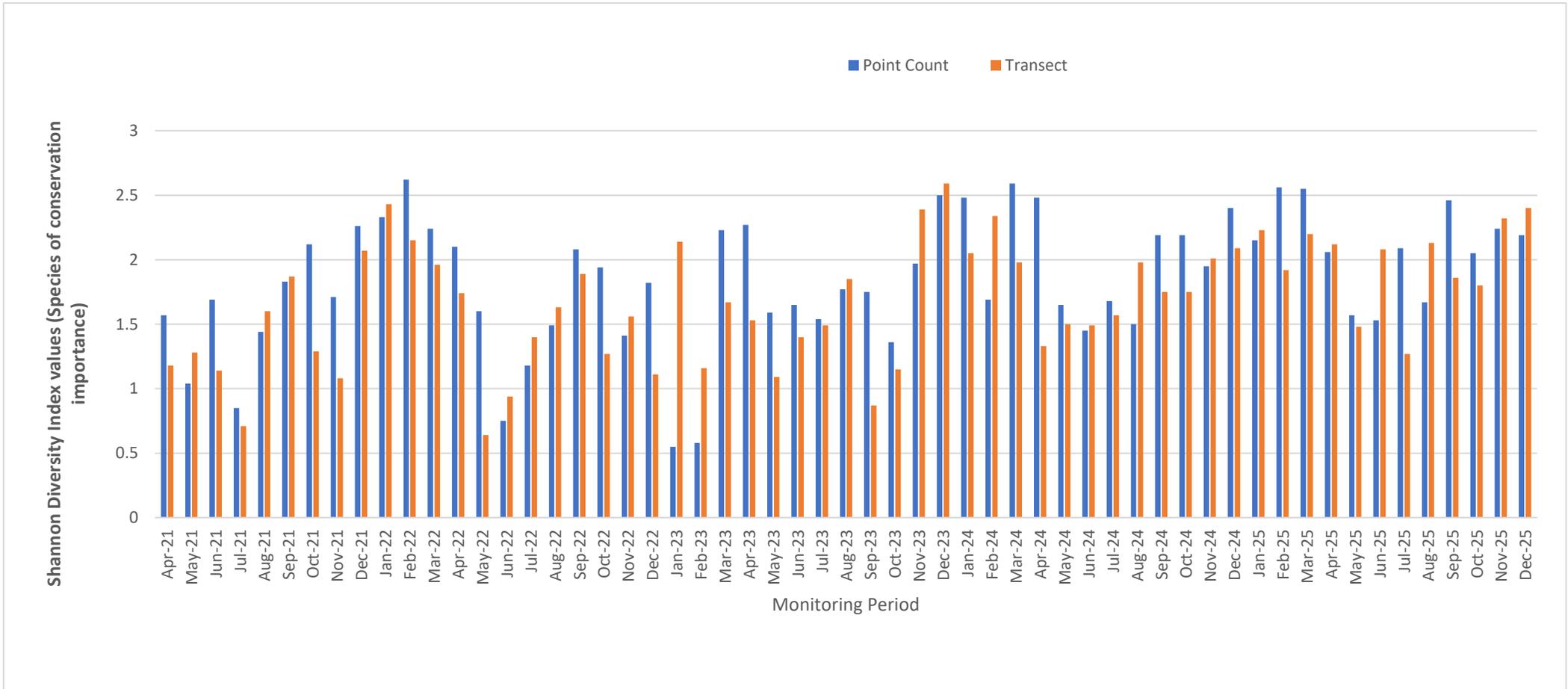
Appendix F.4.2 Species richness of avifauna species with conservation importance throughout the monitoring period



Appendix F.5.1 Shannon Diversity Index values of all avifauna species throughout the monitoring period



Appendix F.5.2 Shannon Diversity Index values of avifauna species with conservation importance throughout the monitoring period



Appendix F.6. Hutcheson t-test testing method and output

Formula:

$$t = \frac{H_a - H_b}{\sqrt{S_{H_a}^2 + S_{H_b}^2}}$$

Appendix F.6.1 Species diversity of all avifauna species – Point Count Method

Months	December 2016	December 2025
Total	530	633
Richness	35	49
H	2.4583	3.0088
S ² H	0.003400	0.003023
t	6.8692	
df	1138.1362	
Crit	1.9621	
p	1.06E-11	
CI	0.1166	0.1100

Appendix F.6.2 Species diversity of all avifauna species – Transect Walk Method

Months	December 2016	December 2025
Total	85	354
Richness	22	43
H	2.6712	3.0863
S ² H	0.01051	0.003217
t	3.5437	
df	141.8013	
Crit	1.9769	
p	5.36E-04	
CI	0.2050	0.1134

Appendix F.6.3 Species diversity of avifauna species with conservation importance – Point Count Method

Months	December 2016	December 2025
Total	462	446
Richness	18	21
H	2.0399	2.1932
S ² H	0.002800	0.003544
t	1.9244	
df	891.7593	
Crit	1.9626	
p	5.46E-02	
CI	0.1058	0.1191

Appendix F.6.4 Species diversity of avifauna species with conservation importance – Transect Walk Method

Months	December 2016	December 2025
Total	16	262
Richness	5	20
H	1.3917	2.4014
S ² H	0.02860	0.00278
t	5.6999	
df	19.2459	
Crit	2.0930	
p	1.71E-05	
CI	0.3382	0.1054

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	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Notify Contractor. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IEC; and 2. Implement noise mitigation proposals.
Limit Level	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor(s)'s working methods; 2. Inform EPD and AFCD. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of exceedance in writing 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IEC; and 2. Implement noise mitigation proposals.
Limit Level	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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

Contract DC/2019/10

Waste Flow Table for Year 2025											
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)
2025 Jan	3,435.58	Nil	Nil	Nil	3,305.22	777.24	78.92	0.03	0.0011	Nil	130.33
2025 Feb	9,006.73	Nil	Nil	Nil	8,882.31	318.15	90.00	Nil	Nil	Nil	124.42
2025 Mar	8,791.06	Nil	Nil	Nil	8,665.14	325.29	130.60	0.28	0.0029	Nil	125.63
2025 Apr	2,095.41	Nil	Nil	Nil	1,906.16	258.74	110.43	Nil	Nil	Nil	189.25
2025 May	169.85	Nil	Nil	Nil	Nil	Nil	128.48	0.19	0.0040	Nil	169.65
2025 Jun	1,454.46	Nil	Nil	Nil	1,281.10	359.74	55.68	Nil	Nil	Nil	173.36
2025 Jul	6,653.89	Nil	Nil	Nil	6,431.20	259.70	26.35	0.19	0.0044	Nil	222.69
2025 Aug	11,880.70	Nil	Nil	Nil	11,656.02	Nil	62.71	Nil	Nil	Nil	224.68
2025 Sep	13,474.19	Nil	Nil	Nil	13,123.91	Nil	59.96	0.13	0.0028	Nil	290.19
2025 Oct	18,202.44	Nil	Nil	Nil	17,868.72	Nil	Nil	Nil	Nil	Nil	333.72
2025 Nov	24,677.72	Nil	Nil	Nil	24,356.41	Nil	Nil	Nil	0.009	Nil	321.31
2025 Dec	2,823.68	Nil	Nil	Nil	2,513.25	Nil	Nil	Nil	Nil	Nil	310.43
Total	103,349.07	Nil	Nil	Nil	99,989.44	2,298.86	742.13	0.82	0.0242	Nil	2,615.66

Note:

- 1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- 2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.
- 3) Updated figures are presented during the reporting month.

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

Contract DE/2020/01

Waste Flow Table for Year 2025											
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)
2025 Jan	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
2025 Feb	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
2025 Mar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
2025 Apr	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
2025 May	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
2025 Jun	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
2025 Jul	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
2025 Aug	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
2025 Sep	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
2025 Oct	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
2025 Nov	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
2025 Dec	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Total	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

Note:

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

5) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.

6) Updated figures are presented during the reporting month.

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

Appendix G
Implementation Status of Environmental Mitigation
Measures

Construction of Yuen Long Effluent Polishing Plant Stage 1

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:		
	<ul style="list-style-type: none"> Use of regular watering to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather. 	Construction Sites	Implemented
	<ul style="list-style-type: none"> Use of frequent watering for particularly dusty construction areas and areas close to ASRs. 		Implemented
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs. 		Implemented
	<ul style="list-style-type: none"> Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations. 		Implemented
	<ul style="list-style-type: none"> Establishment and use of vehicle wheel and body washing facilities at the exit points of the site. 		Implemented
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> Imposition of speed controls for vehicles on site haul roads. 		Implemented
	<ul style="list-style-type: none"> Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs. 		Implemented
<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> • 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
	<ul style="list-style-type: none"> • Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme. 		Implemented
	<ul style="list-style-type: none"> • Silencers or mufflers on construction equipment should be utilised and should be properly maintained during the construction programme. 		Implemented
	<ul style="list-style-type: none"> • Mobile plant, if any, should be sited as far away from noise sensitive receivers (NSRs) as possible. 		N/A
	<ul style="list-style-type: none"> • 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
	<ul style="list-style-type: none"> • Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs • Material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from on-site construction activities. 		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	<u>Good Site Practices</u> Recommendations for good site practices during the construction phase include:	Construction Sites	
	<ul style="list-style-type: none"> 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; 		Implemented
	<ul style="list-style-type: none"> Training of site personnel in proper waste management and chemical waste handling procedures; 		Implemented
	<ul style="list-style-type: none"> Provision of sufficient waste reception/ disposal points, of a suitable vermin-proof design that minimises windblown litter; 		N/A
	<ul style="list-style-type: none"> Arrangement for regular collection of waste for transport off-site and final disposal; 		Implemented
	<ul style="list-style-type: none"> Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; 		Implemented
	<ul style="list-style-type: none"> Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; 		Implemented
	<ul style="list-style-type: none"> A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be proposed; and 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	<u>Waste Reduction Measures</u> Recommendations to achieve waste reduction include:	Construction Sites	
	<ul style="list-style-type: none"> 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; 		Implemented
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> Any unused chemicals or those with remaining functional capacity shall be recycled; 		N/A
	<ul style="list-style-type: none"> Maximising the use of reusable steel formwork to reduce the amount of C&D material; 		Implemented
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> Adopt proper storage and site practices to minimise the potential for damage to, or contamination of, construction materials; 		Implemented
	<ul style="list-style-type: none"> Plan the delivery and stock of construction materials carefully to minimise the amount of surplus waste generated; 		N/A
<ul style="list-style-type: none"> Adopt pre-cast construction method instead of cast-in-situ method for construction of concrete structures as much as possible; and 	N/A		
<ul style="list-style-type: none"> 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	<u>Storage of Waste</u> Recommendations to minimise the impacts include:	Construction Sites	Implemented
	<ul style="list-style-type: none"> Waste, such as soil, should be handled and stored well to ensure secure containment, thus minimising the potential of pollution; 		Implemented
	<ul style="list-style-type: none"> Maintain and clean storage areas routinely; 		Implemented
	<ul style="list-style-type: none"> Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; and 		Implemented
6.6.1.8	<u>Collection of Waste</u> 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:	Construction Sites	Implemented
	<ul style="list-style-type: none"> Remove waste in timely manner; 		Implemented
	<ul style="list-style-type: none"> Waste collectors should only collect wastes prescribed by their permits; 		Implemented
	<ul style="list-style-type: none"> Impacts during transportation, such as dust and odour, should be mitigated by the use of covered trucks or in enclosed containers; 		Implemented
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> Waste should be disposed of at licensed waste disposal facilities; and Maintain records of quantities of waste generated, recycled and disposed. 		Implemented
6.6.1.10	<u>Transportation of Waste</u> 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	<u>Construction and Demolition Material</u> 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:	Construction Sites	Implemented
	<ul style="list-style-type: none"> A WMP, which becomes part of the EMP, should be prepared in accordance with ETWB TCW No.19/2005; A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be adopted for easy tracking; and 		Implemented
	<ul style="list-style-type: none"> 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:	Construction Sites	
	<ul style="list-style-type: none"> • Surface of stockpiled soil should be regularly wetted with water especially during dry season; 		Implemented
	<ul style="list-style-type: none"> • Disturbance of stockpile soil should be minimised; 		Implemented
	<ul style="list-style-type: none"> • Stockpiled soil should be properly covered with tarpaulin especially when heavy storms are predicted; and • Stockpiling areas should be enclosed where space is available. 		Implemented
6.6.1.15	The Contractor 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
The mitigation measures will be recommended in the RAP and would typically include the following:			
7.8.3.1	<ul style="list-style-type: none"> Excavation profiles must be properly designed and executed with attention to the relevant requirements for environment, health and safety; 	Project Site / Construction Phase	Implemented
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> Speed control for the trucks carrying contaminated materials shall be enforced; 		Implemented
	<ul style="list-style-type: none"> Vehicle wheel and body washing facilities at the site's exist points shall be established and used; and 		Implemented
	<ul style="list-style-type: none"> 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	<u>Avoidance of Recognised Site of Conservation Importance</u> 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	<u>Avoidance of Demolition Works Using Breakers Mounted on Excavators and Percussive Piling during Dry Season</u> 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	<u>Restriction of Construction Hours</u> 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	<u>Minimising Construction Noise Disturbance Impacts through Consideration of Alternative Construction Methods</u> 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	<u>Minimising Construction Noise Disturbance Impacts Through Careful Phasing of Construction Activities</u> 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	<u>Minimising Construction Noise Disturbance Impacts through Use of Noise Barriers</u> 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	<u>Use of Quality Powered Mechanical Equipment</u> 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	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> All work procedures shall be complied with the operating plant procedures or guidelines and regulatory requirements; 		Implemented
	<ul style="list-style-type: none"> Work permit system, on-site pre-work risk assessment and emergency response procedure shall be in place before commencement of work; 		Implemented
	<ul style="list-style-type: none"> All construction workers shall equip with appropriate personal protective equipment (PPE) when working at the Project Site; 		Implemented
	<ul style="list-style-type: none"> Safety training and briefings shall be provided to all construction workers; 		Implemented
	<ul style="list-style-type: none"> Regular site safety inspections shall be conducted during the construction phase of the Project; 		Implemented
11.9.1.2	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> Conduct speed checks to ensure enforcement of speed limits and to ensure adequate site access control; 		N/A
	<ul style="list-style-type: none"> A lifting plan, with detailed risk assessment, should be prepared and endorsed for heavy lifting of large equipment; 		Implemented
	<ul style="list-style-type: none"> Vehicle crash barriers should be provided between the construction site and the operating biogas facilities; 		N/A
	<ul style="list-style-type: none"> Ensure that a hazardous area 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
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> Ensure effective communication system / protocol is in place between the contractors and the operation staff; 		Implemented
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> 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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