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

Monthly EM&A Report (February 2024) Drainage Services Department

2024-03-13



Sringing ideas

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Attn: Mr. Simon H.M. YEUNG - CRE(C)

Your Reference

Contract No. SPW 03/2023

Our Reference AFK/EC/TC/BW/bw/ T601100237/02/02/L053

Polishing Plant Stage 1 (2023-2024)

Independent Environmental Checker for Construction of Yuen Long Effluent

Mott MacDonald 3/F Manulife Tower 348 Kwun Tong Road Kwun Tong Kowloon Environmental Permit No. EP-565/2019

EP Condition 3.4 – Monthly EM&A Report for February 2024

13 March 2024 By Hand and By Email

Dear Sir,

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Hong Kong

I refer to the captioned Monthly EM&A Report for February 2024 (Revision 2) which was received via e-mail and certified by the Environmental Team Leader on 13 March 2024 (ref.: PL-202403020).

I have no comment on the captioned report and hereby verify that this submission has complied with the requirements set out in the EM&A Manual (in particular Sections 12.4.1 and 12.4.4) for the captioned project, in accordance with Condition 3.4 of Environmental Permit No. EP-565/2019.

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

Brandon WONG Independent Environmental Checker T +852 2828 5875 Brandon.Wong@mottmac.com

c.c. DSD

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Ref: PL-202403020

13 March 2024

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

Attn: Mr. Brandon Wong, IEC

Dear Sir,

Contract No. SPW 02/2023 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1 Environmental Permit No. EP-565/2019 EP Condition 3.4 – Monthly EM&A Report for February 2024

Pursuant to Clause 3.4 of Environmental Permit No. EP-565/2019 for the captioned project, we are pleased to submit the certified Monthly EM&A Report for February 2024 (Rev.2) for your verification.

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

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

Vincent M. J. Lu Environmental Team Leader

Encl.

cc. AECOM – Mr. Patrick Leung (<u>patrick.leung@ylepp-aecom.com</u>) Paul Y. - CREC Joint Venture – Mr. Gabriel Wong (<u>gabriel.wong@crec.com.hk</u>) By Email

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EXECUTIVE SUMMARY

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

This is the 35th Monthly EM&A Report for the construction phase which summaries findings of the EM&A programme during the reporting period from 1 February 2024 to 29 February 2024. As informed by the Contractor, major activities in the reporting month were:

- Ground investigation at SDB
- Demolition at SDB
- E&M works at CLP substation
- ABWF and E&M works at PST
- ABWF work and RC structure at IW
- ELS work at AGS
- Erection temp. loading platform at AGS
- Erection temp. loading platform at TTS
- ELS work at TTS
- ELS work at STB
- Pumping test at Sludge Digester no. 1-3
- ELS work at Sludge Digester no. 1-3
- E&M works at Biogas Holder no. 1
- E&M works at Biogas Holder no. 1
- Disposal of construction waste as indicated in Appendix I.

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 month.

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

No Action / Limit exceedance was recorded for noise levels at stations (NMS1 and NMS2) in close proximity to the two active ardeid night roosts (ANR1 and ANR2) observed within the Survey Area during the reporting month.

Two exceedances in Action Level were recorded for the ecological monitoring of birds on 5 February 2024 (daytime) and 28 February 2024 (night-time). These include significant decline in point count method result for species diversity of all avifauna species, and for species diversity of avifauna species with conservation importance.

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

Land Contamination

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

Complaint Log

No complaints were received in the reporting period.

Notifications of Summons and Successful Prosecutions

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

Reporting Change

There were no reporting changes during the reporting month.

Future Key Issues

The main works will be anticipated in the next three months are as follow:

- Demolition at SDB
- Piling at SDB
- ABWF work, E&M works and fixing GRC panel at CLP Substation
- ABWF and E&M works at PST
- E&M work and RC structure at IW
- Erection temp. loading platform at AGS
- ELS work at AGS
- Erection temp. loading platform at TTS
- ELS work at TTS
- ELS work at STB
- RC Structure at STB
- ELS work at Sludge Digester no. 1-3
- E&M work at Biogas Holder no. 1
- Pipeworks for interim scheme.

1 INTRODUCTION

1.1 Background

- 1.1.1 The existing Yuen Long Sewage Treatment Works (YLSTW) is a secondary sewage treatment works, located at Yuen Long Industrial Estate serves Yuen Long Town, Yuen Long Industrial Estate and Kam Tin areas with a design capacity of 70,000 m³ per day. Based on the latest planning data, the volume of sewage generation from the YLSTW catchment is estimated to increase to 150,000 m³ per day after 20 years. In addition, since YLSTW has been operating for over 30 years and most of its facilities are of out-dated design and reaching the end of their design life, the environmental facilities of the plant will also be upgraded and hence improving the adjacent environment through upgrading the YLSTW to Yuen Long Effluent Polishing Plant (YLEPP). The Location of Proposed Yuen Long Effluent Polishing Plant is given in **Figure 1**.
- 1.1.2 YLSTW will be reconstructed in two stages to increase its capacity to 150,000 m³ per day. The proposed works, as Stage 1 of the project, will firstly increase the treatment capacity to 100,000 m³ per day. In the course of Stage 1 construction, about half of the existing facilities of YLSTW would be demolished, while the other half would be kept in operation to maintain the sewage treatment service for Yuen Long area. This 72-month works contract commenced on 9 November 2020. Demolition of existing YLSTW for construction of new treatment facilities are in progress.
- 1.1.3 The Project is a designated project under Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO) (Cap. 499) for which Environmental Impact Assessment (EIA) report and Environmental Monitoring and Audit (EM&A) Manual was approved by EPD (Register No.: AEIAR-220/2019) on 25 April 2019. The Environmental Permit (EP) (EP No. EP-565/2019) was issued by EPD on 26 April 2019.
- 1.1.4 Fugro Technical Services Limited was appointed as the Environmental Team (ET) by Drainage Services Department (DSD) to undertake the Environmental Team services for the Project and implement the EM&A works under the Contract No. DC/2019/10 Yuen Long Effluent Polishing Plant -Main Works for Stage 1 (hereinafter referred as "the Contract") for the period from July 2020 to 6 July 2023.
- 1.1.5 Aurecon Hong Kong Limited (Aurecon) has been appointed as the Environmental Team (ET) by Drainage Services Department (DSD) to undertake the Environmental Team services for the Project and implement the EM&A works under the Contract from July 2023. Air quality, noise, water quality and ecological monitoring, site inspections and auditing (as scheduled) under EM&A programme with effect from 7 July 2023 was conducted by Aurecon. Aurecon is undertaking the preparation (including reporting of monitoring results), certification by ET Leader and submission of this report to EPD.
- 1.1.6 All ET roles and responsibilities under the EP for this Project were undertaken by Fugro up to 6 July 2023 and by Aurecon with effect from 7 July 2023. Air quality, noise, water quality and ecological monitoring, site inspections and auditing (as scheduled) under EM&A programme up to 6 July 2023 was conducted by Fugro, and the corresponding monitoring results were shared with Aurecon for the purposes of reporting in this report.
- 1.1.7 This is the 35th Monthly EM&A report to document the findings of site inspection activities and EM&A programme for this project from 1 February 2024 to 29 February 2024 (reporting period) and is submitted to fulfil Condition 3.4 of the EP and Section 12.4.1 of the EM&A Manual. According to Condition 4 of the EP, electronic reporting is provided on the internet website to facilitate public inspection of the report.

1.2 **Project Organization**

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

 Table 1
 Contact Information of Key Personnel

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

1.3 Construction Programme and Activities

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

1.4 Works undertaken during the month

- 1.4.1 The main construction works carried out in the reporting period were as follow:
 - Ground investigation at SDB
 - Demolition at SDB
 - E&M works at CLP substation
 - ABWF and E&M works at PST
 - ABWF work and RC structure at IW
 - ELS work at AGS
 - Erection temp. loading platform at AGS
 - Erection temp. loading platform at TTS
 - ELS work at TTS
 - ELS work at STB
 - Pumping test at Sludge Digester no. 1-3
 - ELS work at Sludge Digester no. 1-3
 - E&M works at Biogas Holder no. 1
 - E&M works at Biogas Holder no. 1
- 1.4.2 The environmental mitigation measures corresponding to the main construction works implemented in the reporting period can be referred to **Appendix J**.

1.5 Status of Environmental Licences, Notification and Permits

1.5.1 A summary of the status of the relevant permits, licenses and/or notifications on environmental protection for this project is presented in **Table 2**.

Permit/ Notification/ License	Reference No	Valid From	Valid Till
Environmental Permit	EP-565/2019	26-Apr-2019	The whole construction and operation period of the Project
Notification of Works under APCO	461616	6-Nov-2020	The whole construction and operation period of the Project
Construction Waste Disposal Billing Account	7038933	20-Nov-2020	The whole construction and operation period of the Project
Registration as Chemical Waste Producer under WDO	WPN5213- 528-P2796-03	4-Feb-2021	The whole construction and operation period of the Project
Construction Noise Permit	GW-RN0818-23	6-Aug-2023	5-Feb-2024
Construction Noise Permit	GW-RN0043-24	17-Jan-2024	16-Apr-2024
Construction Noise Permit	GW-RN0127-24	6-Feb-2024	5-May-2024
Water Pollution Control Ordinance (WPCO) (CAP. 358) Licence pursuant to Section 20 (Variation of Licence Pursuant to Section 28 of WPCO)	WT00038102- 2021	4-Aug-2021 (Variation approved on 11-Dec-2023 with immediate effect)	31-Aug-2026
Marine Dumping Permit Type 1 – Open Sea Disposal	EP/MD/24-038	1-Sep-2023	29-Feb-2024
Marine Dumping Permit (Type 1 – Open Sea Disposal (Dedicated Site) and Type 2 – Confined Marine Disposal)	EP/MD/24-065	22-Jan-2024	21-Apr-2024
Disposal of Special waste at Landfills Admission Ticket (Pond Sediment)	Admission Ticket Number: 17684	1-Jan-2024	31-Mar-2024
Revised Sediment Quality Report (SQR)	(7) in EP60/G1/12- 583V	4-Apr-2023	3-Apr-2024

 Table 2
 Environmental Licenses, Notification and Permits Summary

2 AIR QUALITY

2.1 Monitoring Requirement

2.1.1 In accordance with the EM&A Manual, 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.

2.2 Monitoring Equipment

- 2.2.1 A portable direct reading dust meter was used to carry out the 1-hour TSP monitoring at the designated monitoring stations.
- 2.2.2 Wind data monitoring equipment is provided at the conspicuous locations for logging wind speed and wind direction near to the dust monitoring locations. The equipment installation location is agreed with the ER and the IEC.
- 2.2.3 The details of the air quality monitoring equipment used are summarized in **Table 3**.

Table 3 Air Quality Monitoring Equipment

ltem	Location	Brand	Model	Equipment	Serial No.
1	AM1	Cilcoto	Model LD-5R	SIBATA LD-5R Digital Dust	2Y6548,
2	AM2	Sibata		Indicator	2Y6549

2.3 Monitoring Methodology for Direct Reading Dust Meter

2.3.1 SIBATA LD-5R Digital Dust Indicator complete with appropriate sampling inlets are employed for 1-hour TSP measurement.

Measuring Procedures

- a) Pulling up the air sampling inlet cover
- b) Changing the Mode 0 to BG
- c) Pressing Start/Stop switch
- d) Turning the knob to SENSI.ADJ and press it
- e) Pressing Start/Stop switch again
- f) Returning the knob to the position MEASURE slowly
- g) Pressing the timer set switch to set measuring time
- h) Removing the cap and start the measurement

Equipment Calibration

1-hour dust meter should be calibrated at 1 year intervals. The calibration certificates are presented in **Appendix D**.

2.4 Maintenance and Calibration for Direct Reading Dust Meter

2.4.1 ET shall submit sufficient information to the IEC to prove that the instrument is capable of achieving comparable results to the HVS. The instrument should also be calibrated regularly, and the 1-hour sampling shall be determined periodically by the HVS to check the validity and accuracy of the results measured by direct reading method. The calibration certificate for the direct reading dust meter is provided in **Appendix D**.

2.5 Monitoring Locations

- 2.5.1 In accordance with the EM&A Manual, two air quality monitoring locations, namely AM1, AM2 are covered under Contract No. SPW 02/2023 "Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1".
- 2.5.2 The most updated locations are summarized in **Table 4** and the locations of the air monitoring stations shown in **Figure 2**.

 Table 4
 Air Quality Monitoring Location

Monitoring Station	Location	
AM1	Topfine Machinery (China) Co. Ltd	
AM2	Squatter house at the west of YLSTW	

2.6 Monitoring Results

- 2.6.1 The schedule of air quality monitoring in reporting month is provided in **Appendix E**.
- 2.6.2 No Action / Limit Level exceedance was recorded for 1-hr TSP at AM1 and AM2.
- 2.6.3 No effect that arose from the other special phenomena and work progress of the concerned site was noted during the current monitoring month.
- 2.6.4 The weather and meteorological conditions during the monitoring are provided in **Appendix K**.
- 2.6.5 The Air Quality Monitoring Results of 1-hr TSP are summarized in **Table 5**. Detailed monitoring data are presented in **Appendix F**.

Table 5 Summary of Air Quality Monitoring Results

Monitoring Station	Average (μg/m³)	Range (µg/m³)	Action Level (µg/m³)	Limit Level (µg/m³)		
	1-hour TSP					
AM1	59	56-61	291	500		
AM2	52	45-57	296	500		

2.6.6 The Action and Limit Levels for air quality monitoring have been set and are presented in **Appendix C**.

- 2.6.7 The Event and Action Plan for air quality is given in **Appendix H**.
- 2.6.8 The wind data obtained from the on-site wind station during the reporting period is provided in **Appendix G**.

2.7 Comparison of 1-hr TSP Monitoring Results with EIA Predictions

2.7.1 The monitoring data of 1-hr TSP was compared with the EIA predictions as summarized in **Table 6**.

Monitoring Station	EIA ID	Predicted Maximum Hourly Average TSP Concentration (μg/ m³)	Maximum 1-hr TSP Monitoring Results in February 2024 (µg/ m³)
		Content	
AM1	ASR A09	205 454	61
AM2	ASR A11	205-451	57

 Table 6
 Comparison of 1-hr TSP data with EIA predictions

Notes: Predicted TSP Concentration extracted from Table 3.20 of EIA Report, AEIAR-220/2019

2.7.2 The 1-hr TSP monitoring results at AM1 and AM2 were below the Predicted Maximum Hourly Average TSP Concentration in the approved Environmental Impact Assessment (EIA) Report.

3 NOISE

3.1 Monitoring Requirement

3.1.1 In accordance with the EM&A Manual, 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.

3.2 Monitoring Equipment

- 3.2.1 As referred to the requirements of the Technical Memorandum (TM) issued under the NCO, the sound level meters in compliance with the International Electro technical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications should be used for carrying out the noise monitoring. Immediately prior to and following each noise measurement, the accuracy of the sound level meter should be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. The measurements may be accepted as valid only if the difference between calibration levels obtained before and after the noise measurement is less than 1.0 dB (94 dB ± 0.1 dB).
- 3.2.2 The details of the noise monitoring equipment used are summarized in **Table 7**.

ltem	Brand	Model	Equipment	Serial No.
1	NTi Audio	XL2	NTi Audio XL2 Digital Sound Level Meter	A2A-13548-E0
2	NTi Audio	XL2	NTi Audio XL2 Digital Sound Level Meter	A2A-17638-E0
3	NTi Audio	XL2	NTi Audio XL2 Digital Sound Level Meter	A2A-13663-F0
4	RION	NC-74	RION NC-74 Acoustic Calibrator	34615222
5	SVANTEK	SV33B	SVANTEK SV33B Acoustic Calibrator	83042
6	RS PRO	RS-90	Anemometer	210722153

 Table 7
 Construction Noise Monitoring Equipment

3.3 Monitoring Parameters and Frequency

3.3.1 The parameters and frequencies of impact noise monitoring is summarized in **Table 8**.

Table 8 Monitoring Parameters and Frequencies of Noise Monitoring

Parameter	Frequency
LAeq (30 min) (L10 and L90 will be recorded for reference)	At each station at 0700-1900 hours on normal weekdays at a frequency of once a week when construction activities are underway

3.4 Monitoring Methodology

3.4.1 Noise measurement should be conducted as the following procedures:

 The monitoring station will set at a point 1m from the exterior of the sensitive receivers building façade and set at a position 1.2m above the ground. (In case façade measurement is not feasible on-site, a free field correction of +3dB(A) will be applied.)

- The battery condition was checked to ensure good functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time will set as follows:
 - frequency weighting: A
 - time weighting: Fast
 - measurement time: 30 minutes
- Prior to and after noise measurement, the meter shall be calibrated using the calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement is more than 1.0 dB, the measurement will consider invalid and repeat of noise measurement is required after re-calibration or repair of the equipment.
- Noise measurement should be paused during periods of high intrusive noise if possible and observation shall be recorded when intrusive noise is not avoided.
- Noise measurements shall not be made in fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s. Calibration certificate of the anemometer is provided in **Appendix D**.

3.5 Maintenance and Calibration

- 3.5.1 Maintenance and calibration procedures should also be carried out, including:
 - The microphone head of the sound level meter and calibrator should be cleaned with a soft cloth at quarterly intervals.
 - The sound level meter and calibrator should be calibrated annually by a HOKLAS laboratory.
 - Relevant calibration certificates are provided in Appendix D.

3.6 Monitoring Locations

- 3.6.1 In accordance with the EM&A Manual, three noise monitoring locations, namely CM1, CM2 and CM3 are covered under Contract No. SPW 02/2023 "Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1".
- 3.6.2 The most updated locations are summarized in **Table 9** and the locations of the noise monitoring stations shown in **Figure 3**.

 Table 9
 Construction Noise Monitoring Location

Monitoring Station ID	Location	Measurements
CM1	Squatter house at the north of YLSTW	Free Field
CM2	Squatter house at the west of YLSTW	Free Field
CM3	Squatter house at the east of YLSTW	Free Field

Note: Correction of +3 dB(A) shall be made to the free field measurements.

3.7 Monitoring Results

- 3.7.1 The schedule of noise monitoring in reporting month is provided in **Appendix E**.
- 3.7.2 No Action / Limit Level exceedance of location CM1, CM2 and CM3 was recorded for construction noise in the reporting month.

- 3.7.3 During the monitoring month, 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 month.
- 3.7.4 No raining and wind with speed over 5 m/s was observed during noise monitoring according to the onsite observation. The weather and meteorological conditions during the monitoring month are provided in **Appendix K**.
- 3.7.5 The Construction Noise Monitoring Results are summarized in **Table 10**. Detailed monitoring data are presented in **Appendix F**.

Time Period	Noise Monitoring Stations	Leq (30min) dB(A) (Range)	Action Level	Limit Level dB(A)
0700-1900 hrs	CM1	62.3 - 64.4	When one	75
on normal weekdays	CM2	61.1 – 63.1	documented complaint is	75
	CM3	61.5 – 63.1	received	75

Table 10 Summary of Construction Noise Monitoring Results

Remark: CM1, CM2 and CM3: Free-field measurement (+3 dB(A) correction has been applied).

- 3.7.6 The Action and Limit Levels for Construction Noise have been set and are presented in **Appendix C**.
- 3.7.7 The Event and Action Plan for Construction Noise is given in **Appendix H**.

3.8 Comparison of Noise Monitoring data with EIA Predictions

3.8.1 The noise monitoring data was compared with the EIA predictions as summarized in **Table** 11.

Monitoring Station	EIA ID	Maximum Predicted Mitigated Construction Noise Level L _{eq} (30min) dB(A)	Maximum Construction Noise Level in February 2024 L _{eq} (30min) dB(A)
CM1	NSR1	72	64.4
CM2	NSR2	74	63.1
CM3	NSR3	75	63.1

 Table 11 Comparison of Noise monitoring data with EIA predictions

Notes: Predicted TSP Concentration extracted from Table 4.9 of EIA Report, AEIAR-220/2019

3.8.2 The construction noise monitoring results at CM1, CM2 and CM3 were below the Maximum Predicted mitigated Construction Noise Level in the approved Environmental Impact Assessment (EIA) Report (Register No.: AEIAR-220/2019).

4 WATER QUALITY

4.1 Monitoring Requirement

4.1.1 In accordance with the EM&A Manual, impact monitoring is conducted for three days per week at mid-flood and mid-ebb with sampling and measurement at the designated monitoring stations.

4.2 Monitoring Equipment

4.2.1 Equipment used for in-situ measurement and water sampling during impact water quality monitoring is summarised in **Table 12**. The equipment is in compliance with the requirements set out in the EM&A Manual. All in-situ monitoring instruments were calibrated by a HOKLAS- accredited laboratory. Calibration of temperature, DO, salinity, pH and turbidity is conducted in three-month interval. Calibration certificates for the water quality monitoring equipment are attached in **Appendix D**.

Table 12	Water	Quality	Monitoring and	Sampling	Equipment
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Parameter	Equipment	Model	Range	Equipment Accuracy	Serial No.
Temperature Dissolved Oxygen Salinity pH Turbidity	YSI Water Quality Multipara meter Sonde	Xylem ProDSS	Tem: -5 to 50°C DO: 0-50mg/L DO%: 0-500% Sal: 0 to 70ppt pH: 0 to 14 pH units Turb: 0- 4000NTU	Temp: ±0.2°C; DO: ±0.1mg/L or 1% for 0- 20mg/L; ±8% for 20-50mg/L Sal: ±1% of reading or 0.1 ppt (whichever is greater) pH: ±0.2 units Turb: ±3% or 0.3NTU (FNU) (whichever greater)	22D100436, 22C106561
Current Velocity and Direction	Current Meter	Valeport Model 106	Speed: 0.03 to 5 m/s Direction: 0 to 360	Speed: ± 1.5% of reading above 0.15m/s, ± 0.004 m/s below 0.15m/s Direction: ± 2.5o	N/A
Water Sampling	r Sampling Sampler Water Sampler Horizontal Water Sampler HWS2.2CP		N/A	N/A	N/A
Positioning	DGPS	GARMIN GPSMAP 78s	N/A	GPS: ±1m	N/A
Water Depth	Echo Sounder	Garmin ECHO 101	Maximum depth: 457.2 m	0.1 m	N/A

4.3 Equipment Calibration

4.3.1 All in-situ monitoring instruments shall be checked, calibrated and certified by a laboratory accredited under HOKLAS before use and subsequently re-calibrated at three monthly intervals throughout all stages of the water quality monitoring programme. Responses of sensors and electrodes shall be checked with certified standard solutions before each use. Wet bulb calibration for a DO meter shall be carried out before measurement at each monitoring location.

4.3.2 Sufficient stocks of spare parts shall be maintained for replacements when necessary. Backup monitoring equipment shall also be made available so that monitoring is uninterrupted even when some equipment is under maintenance or calibration etc.

4.4 Monitoring Parameters

The monitoring parameters and frequency for both in-situ measurement and laboratory analysis are summarised in **Table 13**.

 Table 13 Monitoring Parameters and Frequency

Parameters	Monitoring Frequency
In-situ Measurement Turbidity (in NTU), pH, DO (in mg/L and % of saturation), Temperature (in °C), Salinity (in ppt) Laboratory Analysis Suspended Solids	3 days per week, at mid-flood and mid-ebb tides (The interval between two sets of monitoring shall not be less than 36 hours.)

4.5 Monitoring Operation

- 4.5.1 The position of water monitoring station will be located by the Differential Global Positioning System (DGPS) or equivalent. The water depth of water monitoring station will be determined by the echo sounder affixed to the bottom of the monitoring vessel or a portable echo sounder depth detector.
- 4.5.2 Once the location and water depth are confirmed, water samples shall be collected at 3 depths (1m below the surface, mid-depth, and 1m above the seabed) of the water column at each location, except where water depth is less than 6m, the mid-depth will be omitted and if the water depth is less than 3m only the mid-depth station will be monitored. Duplicate marine samples will be collected in each sampling event. The water samples are decanted from the water sampler into the water sample bottles. The bottles are labelled, tightly sealed, placed into a cool-box and packed with ice ready for delivery to the laboratory.
- 4.5.3 Two consecutive measurements of water quality data, including pH, salinity, dissolved oxygen and turbidity will be recorded according to the monitoring locations. Separate deployment of the monitoring instruments and water samplers will be conducted for the consecutive measurements or samplings. The monitoring location / position, time, water depth, sampling depth, tidal stages, weather conditions, sea condition and any special phenomena or work underway nearby shall also be recorded. If the difference in value between the first and second measurement of DO or turbidity parameters is more than 25% of the value of the first reading, the reading shall be discarded and further readings should be taken.

4.6 Laboratory Measurement / Analysis

Background

4.6.1 Acumen Laboratory and Testing Limited (HOKLAS Reg: No.241) has been appointed to conduct the laboratory measurement or analysis of water sample in this project.

Quality Assurance / Quality Control

4.6.2 The laboratory incorporates a variety of QA/QC monitoring programme into their testing system. Where applicable or available, the quality of the analysis will be monitored by conducting the following QC analysis:

For each batch of 20 samples:

- A minimal of 1 laboratory method blank will be analyzed;
- A minimal of 1 sample duplicate will be analyzed;
- A minimal of 1 sample matrix spike will be analyzed.

4.7 Monitoring Locations

- 4.7.1 In accordance with the EM&A Manual, water quality monitoring should be carried out at 3 designated monitoring locations.
- 4.7.2 The coordinates of the monitoring location stated in the EM&A Manual is summarised in **Table 14** and the locations of the water quality monitoring stations shown in **Figure 4**.

Table 14 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
М3	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

4.8 Monitoring Results

- 4.8.1 The schedule of water quality monitoring in reporting month is provided in **Appendix E**.
- 4.8.2 Impact water quality monitoring was conducted at all designated monitoring stations in the reporting month. Impact water quality monitoring results and graphical presentations are provided in **Appendix F**.
- 4.8.3 The weather and meteorological conditions during the monitoring are provided in **Appendix K**.
- 4.8.4 Number of Action/ Limit exceedance recorded in the reporting month at each impact stations is summarized in **Table 15**.

Sampling	Exceedance D		DO Turbidity		Suspended Solids		Total		
Location	Levei	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb
	Action	0	0	0	0	0	0	0	0
M1	Limit	0	0	0	0	0	0	0	0
M2	Action	0	0	0	0	0	0	0	0
IVIZ	Limit	0	0	0	0	0	0	0	0
M3	Action	0	0	0	0	0	0	0	0
IVIS	Limit	0	0	0	0	0	0	0	0
T - 4 - 1	Action	0	0	0	0	0	0	()
Total	Limit	0	0	0	0	0	0	()

Table 15 Summary of Water Quality Exceedance

- 4.8.5 During the reporting period, no Action and Limit Level exceedance was recorded for water quality monitoring.
- 4.8.6 The Event and Action Plan for water quality is given in **Appendix H**.

4.9 WetSeps

Three WetSeps are deployed within the site for treatment of the site runoff prior to disposal in compliance with the conditions stipulated in the water discharge license (Variation of WPCO Discharge Licence was approved by EPD on 1 December 2022 with immediate effect).

5 ECOLOGY MONITORING

5.1 Ardeid Night Roost Monitoring

5.1.1 Monitoring Requirement

With reference to the Pre-construction Ardeid Night Roost survey (Feburary 2017) findings that identified two active ardeid night roosts within 100 m from the Project boundary (one approximately 40 m east of the Project boundary and the other one approximately 45 m northeast of the Project boundary), consequent monthly monitoring of these active ardeid night roosts was done in accordance to the **EM&A Manual Sections 7.3.10** and **7.3.11**; and **EIA Report Section 8.12.1.3**.

The Ardeid Night Roost Monitoring survey was conducted with the following objectives:

- Check the status and location of any active ardeid night roosts within 100 m from the Project boundary (Survey Area) with reference to EM&A Manual Section 7.3.10;
- Monitor the effectiveness of proposed mitigation measures and detect any unpredicted indirect ecological impacts arising from the proposed Project as specified in EIA Report Section 8.12.1.3; and
- Recommend remedial actions, where appropriate, based on the impact monitoring results (EIA Report Section 8.12.1.3) for the implementation of the contractor as only necessary.

5.1.2 Monitoring Methodology

5.1.2.1 Monitoring Area

With reference from **Section 7.3.10** of the **approved EM&A Manual**, the monitoring was conducted in areas within 100 m from the Project boundary. The monitoring area and vantage points for direct observation of any active night roosts are shown in **Appendix O**.

5.1.2.2 Monitoring Activity

5.1.2.2.1 Active Ardeid Night Roost

Current Ardeid Night Roost Monitoring Survey focused on the two active night roosts within the Survey Area (100 m from the Project boundary) that were previously confirmed during the preconstruction Survey. These roosts include one that was approximately 40 m east of the Project boundary and another around 45 m northeast of the mentioned boundary (Section 3 of the **approved Pre-construction Survey Report of Ardeid Night Roost**). Primary data collection with the use of 8x and 10x binoculars; and field guides including the Avifauna of Hong Kong (Carey et al., 2001) and The Birds of Hong Kong and South China (Viney et al., 2005), was from about one hour before sunset time until one hour after sunset with reference to Section 7.3.10 of the approved EM&A Manual. Sunset time was according to Hong Kong Observatory (HKO). The survey was conducted on 28 February 2024.

Species composition, abundance and locations of night roosts were recorded. Species composition, abundance and location of pre-roosting aggregations (PRA) were also noted. PRAs are gatherings of avian individuals prior to flying into a night roost (Moore and Switzer, 1998). The time of return of the ardeids to the pre-roost and the final night roost were also recorded. Direct observations were made from vantage points adjacent the Project site with clear and unobstructed view of any active roosting location (s) within the Survey Area. However, aside from the established vantage points for the focused mangrove strips along Shan Pui River, observations were also conducted throughout the whole 100 m study site to cover other areas aside from the mangrove strips.



Observations such as any changes in site condition or disturbances detected or observed at the monitoring locations, including both construction and non-construction related activities, during the monitoring activity was recorded with reference to **Section 7.3.10** of the **approved EM&A Manual**. Additionally, other observations such as bird droppings on the ground which may possibly indicate presence of night roosts were noted in addition to noting of the roosting substrate (i.e. substrate species and approximate height). Any breeding activity usage of the roosting locations within the Survey Area was also noted.

5.1.2.2.2 Noise Monitoring

Monitoring Locations, Frequency, Time and Parameters

The noise monitoring locations were established at 22°28'4.25"N, 114°1'41.32"E; and 22°28'10.43"N, 114°1'42.17"E for NMS1 and NMS2 stations, respectively. Monitoring frequency was only once a month in concurrence with the construction phase monthly monitoring of the active night roosts for correlation. Monitoring time for both stations started around 18:39, the earliest final night roost period recorded during the survey and lasted for 30 minutes. **Table 16** presents the monitoring parameters.

Table 16	Noise Monitoring	Parameters (For Active	Ardeid Night Roost Survey)

Parameter	Frequency and Period	
LAeq (30 min)	Monthly in concurrence with the construction phase	
(L10 and L90 will be recorded for reference)	monthly monitoring of the active night roosts	

The Action and Limit Levels for Active Ardeid Night Roost Survey have been set and are presented in **Appendix C**.

However, exceedances to the limit level were endeavoured to be prevented by the full implementation of mitigation measures (Section 4.2 of the approved Pre-construction Survey Report of Ardeid Night Roost and Sections 5.2.1-5.2.2 of this Report) during the construction phase.

Event and Action Plan

In instances of exceedance/s in the action and/or limit levels, the different measures as specified in **Table 3.3 Event and Action Plan for Construction Noise** of the **approved EM&A Manual** and likewise presented in **Appendix H** of this report shall be implemented as responses.

5.1.3 Monitoring Results

5.1.3.1 Active Ardeid Night Roost

The monitoring activity was conducted on 28 February 2024 and started around 17:26 (one hour before sunset) on a low tide condition. During the pre-roost period (PRP), the period when avian individuals gather first before flying into a night roost, one individual of Chinese Pond Heron was observed in pre-roost aggregate (PRA) around 17:50 at the mudflat east side ANR1 of the Project boundary while individuals of Chinese Pond Heron *Ardeola bacchus* (7) and Grey Heron *Ardea cinerea* (1) and Little Egret *Egretta garzetta* (1) were concurrently noted at the mudflat northeast side ANR2 of the Project boundary (Table 17).

For the final night roost at around 18:26, Chinese Pond Heron *Ardeola bacchus* (28) and Grey Heron *Ardea cinerea* (1) were observed at the roosting area ANR2 utilizing the understory to canopy layer of the roosting substrate *Sonneratia apetala* and *S. caseolaris*. No night roost was observed at the roosting area ANR1 in the reporting month.

No disturbance (construction related and/or otherwise) to the active night roost areas was observed during the period. Bird droppings were observed within the vicinity of the roosting area located east of the Project boundary.



Table 17 Active Ardeid Night Roost Survey Findings

Date: 28 February 2024			Sunset Time: 18:26 Tidal Condition: Low Tide			
	Pre-roost Period			Final roost Period		
Time of Return:		a bacchus, Grey Heron Ardea Egretta garzetta (17:50)	Time of Return:	Chinese Pond Heron Ardeo Ardea cine	la bacchus and Grey Heron rea (18:26)	
Demonstration	Loca	ation	Demonstration	Loca	Location	
Parameters	ANR1	ANR2	Parameters	ANR1	ANR2	
Pre-roost Aggregation (Y/N):	N	Y	Substrate Species:	Sonneratia apetala and S. caseolaris	Sonneratia apetala and S caseolaris	
Substrate Species:	Sonneratia apetala and S. caseolaris	Sonneratia apetala and S. caseolaris	Substrate Height (m):	Approx. 5 m.	Approx. 3-4 m.	
Substrate Height (m):	Approx. 5 m.	Approx. 3-4 m.				
Ardeid Species	Abundance	(individuals)	Ardeid Species	Abundance (individuals)		
Composition	ANR1	ANR2	Composition	ANR1	ANR2	
Chinese Pond Heron Ardeola bacchus	1	7	Chinese Pond Heron Ardeola bacchus	-	28	
Grey Heron Ardea cinerea	-	1	Grey Heron Ardea cinerea	-	1	
Little Egret Egretta garzetta	-	1				
					·	
	ANR1	Ν				
Breeding Activity (Y/N):	ANR2	Ν				

Notes:

Pre-roost Period: Period when avian individuals gather first before flying into a night roost

ANR1: Active ardeid night roost area east of the Project boundary

ANR2: Active ardeid night roost area northeast of the Project boundary

-: not recorded

5.1.3.2 Noise Monitoring

Noise monitoring activities were conducted on 28 February 2024 in concurrence with the construction phase monthly monitoring of the pre-identified active night roosts. Noise monitoring started at 18:26 and lasted for 30 minutes, until 18:56.

Current survey results showed noise levels (LAeq (30 min.)) at both monitoring stations to be well below the action and limit levels as presented in **Table 18**.

Table 18 Noise Monitoring Parameters (For Active Ardeid Night Roost Survey)

Frequency and Period	Location	Start Time	LAeq (30 min.)	Action Level	Limit Level
Monthly in concurrence with the	NMS1	18:26	59.2		
construction phase monthly monitoring of the active night roosts	NMS2	18:26	60.2	65.5 dB(A) ¹	72.2 dB(A) ²

Notes:

NMS1= Noise monitoring station 1 located east of the Project boundary

NMS2= Noise monitoring station 2 located northeast of the Project boundary

¹= Behavioural response of some kind more likely to occur (Wright et al. 2010)

²= Flight with abandonment of the site becomes the most likely outcome of the disturbance (Wright et al. 2010)

No Action / Limit exceedance was recorded for noise levels at stations (NMS1 and NMS2) in close proximity to the two active ardeid night roosts (ANR1 and ANR2) observed within the Survey Area during the reporting month.

5.1.4 Detection of Any Unpredicted Indirect Ecological Impacts Arising from the Project

No unpredicted indirect ecological impacts that arose from the project were noted during the current monitoring period.

5.1.5 Summary

5.1.5.1 Status and Location of Any Active Ardeid Night Roost

Two active ardeid night roost areas (ANR1 and ANR2) were observed within the Survey Area during the February 2024 monitoring period. These roosts were located at the mangrove strips in the east and northeast portions of the Project boundary. These were used by individuals of Chinese Pond Heron *Ardeola bacchus* and Grey Heron *Ardea cinerea*.

5.1.5.2 Noise Monitoring Results

Both noise levels at each of the monitoring stations were below the action and limit levels.

5.2 Ecological Monitoring of Birds

5.2.1 Monitoring Requirement

With reference to **Section 7.3.6** of the **EM&A Manual**, monthly ecological monitoring of birds, focusing on avifauna species of conservation interest, and overwintering waterbirds utilising wetland habitats in Fung Lok Wai and Nam Sang Wai as well as along Shan Pui River and Kam Tin River within the monitoring area (500 m from the Project Boundary)



was conducted in addition to monitoring on the utilization of wetland habitats by birds also within the same monitoring area as required by **Section 7.3.1** of the **EM&A Manual**.

5.2.2 Monitoring Methodology

5.2.2.1 Monitoring Area

The monitoring area included wetland habitats in Fung Lok Wai and Nam Sang Wai as well as along Shan Pui River and Kam Tin River within 500m from the Project boundary with reference to **Section 7.3.6** of the **EM&A Manual**. The location of point count sites and transect routes is shown in **Appendix P**.

5.2.2.2 Monitoring Activity

Avifauna surveys on the different wetland habitats using the transect count and point count methods were conducted last 5 February 2024 (daytime) which started at around 07:15 and 28 February 2024 (night-time) which started around 18:26. Additionally, the survey overlooking the mudflats and mangroves in the Shan Pui River was concurrently conducted on the same date with the daytime survey during the low tide (generally 1.5m or below) period, and also started at around 07:15. The methodology for the monitoring activity followed **Sections 8.3.3.6** and **8.3.3.7** of the **EIA Report (AEIAR-220/2019)** and as detailed below.

For the transect count and point count methods, the presence and relative abundance of avifauna species at various wetland habitats were recorded visually and aurally.

Avifauna species were detected either by direct sighting or by their call and identified to species level. Any notable behaviours such as feeding, roosting and breeding were also recorded. Bird species encountered outside the point count locations and walk transects were also recorded. A comprehensive list of species recorded from the Assessment Area was prepared, with wetland-dependence, conservation and/or protection status indicated. Ornithological nomenclature in this report follows Carey et al. (2001), Viney et al. (2005) and the most recent updated list from Hong Kong Bird Watching Society (HKBWS).

Noise levels were recorded with the methodology and equipment as mentioned in **Section 3.4** and **Section 3.2**, respectively, of this EM&A report. The parameter as shown in was recorded at each of the point count locations.

Table 19 Noise Monitoring Parameters

Parameter	Frequency and Period
LAeq (30 min) (L10 and L90 will be recorded for reference)	Monthly in concurrence with the monthly ecological bird monitoring at the different point count locations

In addition to recording of noise levels, any changes in site condition or disturbances detected or observed at the monitoring locations, including both construction and non-construction related activities with reference to **Section 7.3.7** of the **EM&A Manual** were also noted.

5.2.2.3 Data Analysis

For the bird communities, the monitoring results were compared to pre-construction baseline condition during the dry and wet seasons as summarized in the Baseline Bird Survey Report with reference to **Section 7.3.8** of the **EM&A Manual**. However, to further



account the seasonality, monitoring results of the current month were compared to the results of the corresponding month of the baseline data.

The data for point count method and transect walk method were presented separately to account for the difference in the survey effort of the two methods. For each method, abundance and species composition of the avifauna communities during the monitoring month were summarized.

To check the presence of variation in bird abundance between baseline and impact monitoring, t-test was applied ($\alpha = 0.05$). Moreover, to check the presence of variation in bird species diversity, the two-sided Hutcheson t-test was also used. The two-sided Hutcheson t-test was developed as a method to compare the diversity of two community samples using the Shannon diversity index (Hutcheson 1970). Shannon diversity index will be computed using the formula, $H' = \sum_{i=1}^{s} p_i ln p_i$ where, H' = Shannon Diversity Index; Pi = proportion of the population of species; i = number of species in sample; In = natural logarithm. Shannon diversity index is used as it accounts the proportion (relative abundance) of each species; thus, it gives a better description of diversity than a plain number of species (species richness).

The Action and Limit Levels for ecological monitoring of birds have been set and are presented in **Appendix C**.

Wetland habitat utilization during the construction phase monitoring shall only be compared seasonally, hence the comparison shall only be done after all the data (dry season and wet season) were collected with reference to **Appendix 8.5** of the approved **EIA Report**.

5.2.3 Monitoring Results

Results of the avifauna survey on the different habitats within the monitoring area using the transect count and point count methods as conducted last 5 February 2024 (daytime) which started at around 07:15 and 28 February 2024 (night-time) which started at around 18:26 are presented in **Sections 5.2.3.1** and **5.2.3.2**. Meanwhile, results for the surveys overlooking the mudflats and mangroves in the Shan Pui River, with monitoring activities conducted on similar date with the daytime survey during the low tide (generally 1.5m or below) period around 07:15 had results presented in **Section 5.2.3.3**.

5.2.3.1 Abundance

5.2.3.1.1 All Avifauna Species

An overall total of 1530 avifauna individuals were recorded in the monitoring area during the February 2024 monitoring period, of which 994 individuals were recorded from the point count method and 536 individuals from the transect walk method. Relative to the February 2017 baseline data (point count method = 642; and transect walk = 2), significant increase in both point count and transect walk method were observed.

Details of these findings are summarized in Table 20.



Abundance of all Avifauna Species						
EIA Report ID	EM&A Manual ID	February-17	February-24	Remarks		
Point Count Method						
P1	FLW1	0	37	+		
P2	FLW2	1	33	+		
P3	FLW3	7	11	+		
P4	FLW4	39	23	-		
P5	FLW5	93	86	-		
P6	FLW6	36	40	+		
P7	FLW7	62	87	+		
P9	SP/NSW3	224	234	+		
P10	SP/NSW2	86	47	-		
P11	NSW1	9	321	+		
P12	SP/NSW1	85	75	-		
Тс	otal	642	994	+		
M	ean	64	90	+		
Transect Walk Meth	nod					
Fung Lok Wai	FLW	2	139	+		
Nam Sang Wai	NSW	0	84	+		
YLIE-CW	YLIE-CW	0	313	+		
Т	otal	2	536	+		
M	ean	0.7	179	+		

Table 20 Abundance of all Avifauna Species

Notes:

+ increased abundance;

- decreased abundance

No Action / Limit exceedance was recorded for the abundance of all avifauna species (including but not limited to overwintering waterbirds) for both the point-count and transect walk method.

5.2.3.1.2 Avifauna Species of Conservation Importance

Of the 1530 avifauna individuals recorded in the monitoring area during the February 2024 monitoring period, 924 individuals (point count method = 659 individuals; transect walk method = 265 individuals) were of conservation importance. With reference to February 2017 data, (point count method = 447; and transect walk = 2), significant increase in both point count and transect walk method were observed. Details of these findings are summarized in **Table 21**.

EIA Report ID	EM&A Manual ID	February-17	February-24	Remarks	
Point Count Method					
P1	FLW1	0	10	+	
P2	FLW2	0	6	+	
P3	FLW3	2	6	+	
P4	FLW4	9	6	-	
P5	FLW5	36	13	-	
P6	FLW6	30	18	-	
P7	FLW7	17	27	+	
P9	SP/NSW3	201	195	-	
P10	SP/NSW2	83	32	-	
P11	NSW1	4	284	+	
P12	SP/NSW1	65	62	-	
Т	otal	447	659	+	
M	ean	41	60	+	
Transect Walk Meth	nod				
Fung Lok Wai	FLW	2	22	+	
Nam Sang Wai	NSW	0	66	+	
YLIE-CW	YLIE-CW	0	177	+	
Т	otal	2	265	+	
M	ean	0.7	88	+	

Table 21 Abundance of Species of Conservation Importance

Notes:

+ increased abundance;

- decreased abundance

No Action / Limit exceedance was recorded for the abundance of avifauna species with conservation importance only for both the point-count and transect walk method.

5.2.3.2 Diversity (Species Richness¹ and Shannon Diversity Index²)

5.2.3.2.1 All Avifauna Species

A total of 64 avifauna species (species richness) were recorded during the February 2024 monitoring period, of which, 58 species were recorded by the point count method while 49 species were noted by the transect walk method. Relative to the baseline data (point count method = 58 species; transect walk method = 1 species), significant increase in total species richness for transect walk count method was noted while no change in total species richness was observed for point count method. In terms of Shannon diversity index (H') values, current result in point count method showed a decrease (t-value = 8.94; t-crit = 1.96; p-value = 1.01E-18; α = 0.05) relative to the baseline reference value. The current results in the transect walk method showed a significant increase (t-value = 63.2; t-crit = 1.96; p-value = 1.55E-250; α = 0.05) from baseline reference value. Details of these findings are summarized in **Table 22**, **Appendix F.6.1**, and **Appendix F.6.2**.

¹ actual number of species

² use to account the proportion (in terms of relative abundance) of each species

Shannon Diversity Index Value of all Avifauna Species					
EIA Report ID	EM&A Manual ID	February-17	February-24	Remarks	
Point Count Method					
P1	FLW1	**	1.94	+	
P2	FLW2	0	2.26	+	
P3	FLW3	1.75	1.92	+	
P4	FLW4	1.72	2.09	+	
P5	FLW5	1.28	2.55	+	
P6	FLW6	1.52	2.27	+	
P7	FLW7	2.21	2.07	-	
P9	SP/NSW3	2.76	1.97	-	
P10	SP/NSW2	2.14	2.95	+	
P11	NSW1	1.89	0.69	-	
P12	SP/NSW1	2.71	2.59	-	
Over	all H'	3.32	2.70	-	
Species	Richness	58	58	=	
Transect Walk Meth	od				
Fung Lok Wai	FLW	0	2.59	+	
Nam Sang Wai	NSW	**	1.87	+	
YLIE-CW	YLIE-CW	**	2.89	+	
Over	all H'	0	3.13	+	
Species	Richness	1	49	+	

Table 22 Shannon Diversity Index Value of all Avifauna Species

Notes:

** result when no species recorded; + increased Shannon diversity index (H'); - decreased Shannon diversity index (H'); = no change in Shannon diversity index (H')

One exceedance in Action Level was recorded for the decline in species diversity of all avifauna species in the point count method.

5.2.3.2.2 Avifauna Species of Conservation Importance

Of the 64 avifauna species identified during the February 2024 monitoring period, 27 species were of conservation importance (point count method = 24 species; transect walk method = 21 species). Meanwhile, relative to the baseline values in February 2017 (point count method = 26 species; transect walk method = 1 species), an increase in the number of species with conservation importance was recorded transect walk method. In terms of Shannon diversity index (H'), a decrease in point count method (t-value = 13.07; t-crit = 1.96; p-value = 2.15E-36; $\alpha = 0.05$) and a significant increase in transect walk method (t-value = 34.00; t-crit = 1.97; p-value = 1.25E-98; $\alpha = 0.05$) were noted relative to the baseline reference values. Details of these findings are summarized in **Table 23**, and **Appendix F.6.3**.

Shannon Diversity Index Value of Species with Conservation Importance					
EIA Report ID	EM&A Manual ID	February-17	February-24	Remarks	
Point Count Method					
P1	FLW1	**	1.53	+	
P2	FLW2	**	1.56	+	
P3	FLW3	0.69	1.01	+	
P4	FLW4	1.21	1.33	+	
P5	FLW5	0.66	1.48	+	
P6	FLW6	1.09	1.41	+	
P7	FLW7	1.76	1.03	-	
P9	SP/NSW3	2.42	1.98	-	
P10	SP/NSW2	2.04	2.41	+	
P11	NSW1	1.04	0.18	-	
P12	SP/NSW1	2.16	2.15	-	
Over	all H'	2.68	1.69	-	
Species	Richness	26	24	-	
Transect Walk Meth	od				
Fung Lok Wai	FLW	0	1.98	+	
Nam Sang Wai	NSW	**	1.32	+	
YLIE-CW	YLIE-CW	**	2.30	+	
Over	all H'	0	2.34	+	
Species	Richness	1	21	+	

Table 23 Shannon Diversity Index Value of Species with Conservation Importance

Notes:

** result when no species recorded; 0 computation result from only one recorded species;

+ increased Shannon diversity index (H'); - decreased Shannon diversity index (H'); = similar Shannon diversity index (H')

One exceedance in Action Level was recorded for the decline in species diversity of all avifauna species in the point count method.

5.2.3.3 Wetland Habitat Utilization

Avifauna communities were observed during the current monitoring period in the different wetland habitats, i.e. mangrove, modified watercourse, ponds, and reed bed.

With reference to **Section 7.3.1** of the **EM&A Manual**, the utilization of the wetland habitats by birds within the monitoring area was recorded and monitored.

5.2.3.3.1 All Avifauna Species

During the current monitoring period, majority of the different wetland habitats were observed with Low to Moderate (L-M) abundance. In terms of species richness, different wetland habitats were generally observed with Very High (VH) number of species (**Table 24**).

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Table 24 Wetland habitat utilization of all avifauna species

Wetland Habitats	Area Description	Abundance ¹	Species Richness ²
	Confluence of Shan Pui River and Kam Tin River	L-M	Н
Modified Watercourse	Modified WatercourseShan Pui River adjacent to Project siteUpper course of Shan Pui River along YLIE		H-VH
			VH
	Active Ponds adjacent to Project site in Fung Lok Wai	L	H-VH
Danda	Active Ponds North to Nullah 2 in Fung Lok Wai	L-M	VH
Ponds Inactive Ponds in Fung Lok Wai		М	VH
	Active and Inactive Ponds in Nam Sang Wai	L-M	М
Mangrove	Mangrove within Assessment Area	-	-
Reedbed	Reedbed in Nam Sang Wai	-	-

Notes:

Abundance of all avifauna species amongst wetland habitats within the assessment area: VL = Very Low (~<50 individuals); L = Low (~100 individuals); M = Moderate (~300 individuals); H = High (~500 individuals), VH = Very High (>700 individuals)

Species richness (total number of species) amongst wetland habitats within the assessment area: VL = Very Low (≤5 species); L = Low (~10 species); M = Moderate (~15 species); H = High (~20 species), VH = Very High (>25 species)

-: no recorded individuals

Source: approved EIA Report (AEIAR-220/2019)

5.2.3.3.2 Avifauna Species of Conservation Importance

Majority of the different wetland habitats had Low to Moderate (L-M) abundance of avifauna species of conservation importance; and were generally utilized by Low to Moderate (L-M) number of species (**Table 25**).

Wetland Habitats	Area Description	Abundance ¹	Species Richness ²
	Confluence of Shan Pui River and Kam Tin River	L-M	М
Modified Watercourse	Modified WatercourseShan Pui River adjacent to Project siteUpper course of Shan Pui River along YLIE		VH
			VH
	Active Ponds adjacent to Project site in Fung Lok Wai	VL-L	H-VH
Danda	Active Ponds North to Nullah 2 in Fung Lok Wai	L-M	VH
Ponds	Inactive Ponds in Fung Lok Wai	L-M	VH
	Active and Inactive Ponds in Nam Sang Wai	M-H	VH
Mangrove	Mangrove within Assessment Area	-	-
Reedbed	Reedbed in Nam Sang Wai	-	-

Notes:

 Abundance of avifauna species of conservation importance amongst wetland habitats within the assessment area: VL = Very Low (~<50 individuals); L = Low (~100 individuals); M = Moderate (~300 individuals); H = High (~500 individuals), VH = Very High (>700 individuals)

Species richness (total number of species) amongst wetland habitats within the assessment area: VL = Very Low (≤5 species); L = Low (~10 species); M = Moderate (~15 species); H = High (~20 species), VH = Very High (>25 species)

-: no recorded individuals

Source: approved EIA Report (AEIAR-220/2019)



5.2.3.4 Noise Levels

Noise levels LAeq (30 min) recorded on 5 February 2024 (daytime) and 28 February 2024 (nighttime) from each of the point count locations during the ecological bird monitoring are shown in **Table 26**.

Frequency		Day time (05/02/2024)		Night time (28/02/2024)	
Frequency and Period	Location	Start Time	LAeq (30 min) dB(A)	Start Time	LAeq (30 min) dB(A)
	FLW1/P1	10:27	53.6	22:23	52.2
	FLW2/P2	10:38	52.1	22:27	51.3
	FLW3/P3	11:04	53.1	22:59	51.1
Monthly in	FLW4/P4	08:42	51.9	20:29	49.5
Monthly in concurrence	FLW5/ P5	08:49	50.3	20:34	48.5
with the ecological	FLW6/ P6	09:37	51.4	21:20	49.3
monitoring of birds	FLW7/ P7	09:28	52.3	21:18	50.2
of birds	SP/NSW3/ P9	12:43	53.6	19:25	52.3
	SP/NSW2/ P10	12:38	52.6	19:18	51.5
	NSW1/ P11	12:07	54.5	18:47	53.2
	SP/NSW1/ P12	12:01	52	18:42	51.5

Table 26 Noise Monitoring Results (For Ecological Monitoring of Birds)

No Action / Limit exceedance was recorded for noise levels at all stations for the ecological monitoring of birds in the reporting month.

6 LANDSCAPE AND VISUAL

6.1 Audit Requirements

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 planting, control of night-time lighting glare, erection of decorative screen hoarding and management of construction activities and facilities are summarized in **Appendix J**.

6.2 **Results and Observations**

To monitor and audit the implementation of landscape and visual mitigation measures, four weekly landscape and visual site audits were carried out on 7, 15, 20 and 28 February 2024.

No outstanding issues were reported during the reporting month. The ET Leader's Site Environmental Audit are summarized in **Appendix M**.

7 LAND CONTAMINATION

7.1 Contamination Assessment Report

- 7.1.1 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.
- 7.1.2 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.
- 7.1.3 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.
- 7.1.4 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.
- 7.1.5 Risk-Based Remediation Goals (RBRGs) for Industrial have been adopted for the "SAS Thickener House-2" and the laboratory results for the sampling works (conducted between 15 February 2023 to 23 February 2023) show that there are no exceedances of the adopted RBRGs for the "SAS Thickener House-2". The laboratory results are compared against the adopted RBRGs and soil saturation limit (Csat) for soil samples and the adopted RBRGs and the solubility limits for groundwater samples. No exceedance of RBRG are recorded for both soil samples and groundwater samples. Furthermore, no exceedance of the soil saturation limit are recorded for soil samples. However, the exceedances of solubility limits for PCRs (C9-C16) are recorded for groundwater samples collected at BH-18, BH-19, BH-20 and BH-21; and also PCRs (C17-C35) for BH-21. As no non-aqueous phase liquid (NAPL) was observed during sampling, no further sampling and remediation are required. As no contaminated soil and groundwater is found within the



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

8 SITE INSPECTION AND AUDIT

8.1 Site Inspection

- 8.1.1 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.
- 8.1.2 In the reporting month, four site inspections were carried out on 7, 15, 20 and 28 February 2024.
- 8.1.3 No outstanding issues were reported during the reporting month. The ET Leader's Site Environmental Audit are summarized in **Appendix M**.

8.2 Advice on the Solid and Liquid Waste Management Status

- 8.2.1 The Contractor registered as a chemical waste producer for the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.
- 8.2.2 The management of waste generated by the construction is presented in **Table 27**.

 Table 27 Waste Generated by the Construction and Disposal Ground

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

- 8.2.3 The monthly summary of waste flow table is detailed in **Appendix I**.
- 8.2.4 If off-site disposal is required, the excavated marine mud from the land-based works shall be disposed of at the designated disposal sites within Hong Kong as allocated by the Marine Fill Committee or other locations as agreed by the Director. The Contractor shall ensure no spilling and overflowing of materials during loading / unloading / transportation is allowed.
- 8.2.5 The Contractor was reminded that chemical waste should be properly handled temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packing, Labelling and Storage of Chemical Waste.

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

9.1 Non-compliance (Exceedances of AL levels)

- 9.1.1 No Action / Limit Level exceedance was recorded for 1-hr TSP level at AM1 and AM2 in the reporting month.
- 9.1.2 No Action / Limit Level exceedance was recorded for construction noise at CM1, CM2 and CM3 in the reporting month.
- 9.1.3 No Action and Limit Level exceedance were recorded for water quality at M1, M2 and M3 in the reporting month.
- 9.1.4 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 month.
- 9.1.5 Two exceedances in Action Level were recorded for the ecological monitoring of birds on 5 February 2024 (daytime) and 28 February 2024 (night-time). These include significant decline in point count method result for species diversity of all avifauna species, and for species diversity of avifauna species with conservation importance.
- 9.1.6 No corrective actions were required according to the Event and Action Plans for the Monitoring Parameters.

9.2 Complaints, Notification of Summons and Successful Prosecutions

- 9.2.1 No environmental complaints, notification of summons and successful prosecutions was recorded in the reporting month.
- 9.2.2 Cumulative complaint log, summaries of complaints, notification of summons and successful prosecutions are presented in **Appendix L**.
- 9.2.3 No corrective actions were required.

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10 IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURE

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

The Contractor had implemented environmental protection and pollution control / mitigation measures as stated in the EIA Report, the EP and EM&A Manual. **Appendix J** summarized the Implementation Status of Environmental Mitigation Measures.

The status of required submissions under the EP as of the reporting period are summarized in **Table 28**.

Table 28	Status of	submissions	required	under the EP
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EP Condition (EP-565/2019)	Submission Title	Submission Status
Condition 2.9	Construction Phase Emergency Response Plan	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 2.11	Pre-construction Ardeid Night Roost Survey Report	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
EM&A Manual Sec. 7.3.3 & 7.3.4	Baseline Bird Survey Report	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 2.12	Noise Mitigation Measures Plan	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 2.13	Proposal for Minimization of Overspill Light to Ecological Sensitive Areas	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 2.14	Supplementary Contamination Assessment Plan	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 2.14	Contamination Assessment Report for Main Storeroom & Workshops	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 2.14	Contamination Assessment Report for Mechanical Workshop	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 2.14	Contamination Assessment Report for Waste Storage Area	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 2.14	Contamination Assessment Report for SAS Thickener House-1	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.

EP Condition (EP-565/2019)	Submission Title	Submission Status
Condition 2.14	Contamination Assessment Report for SAS Thickener House-2	Certified by ET Leader and verified by IEC on 31 May 2023 and submitted to EPD on 19 Jun 2023, to be finalised and made 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 January 2024)	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 3.5	Quarterly EM&A Report (from April 2021 to January 2024)	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 4.2	Environmental Monitoring Data from April 2021 to January 2024	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.

11 FUTURE KEY ISSUES

11.1 Construction Programme for the Next Three Months

- Demolition at SDB
- Piling at SDB
- ABWF work, E&M works and fixing GRC panel at CLP Substation
- ABWF and E&M works at PST
- E&M work and RC structure at IW
- Erection temp. loading platform at AGS
- ELS work at AGS
- Erection temp. loading platform at TTS
- ELS work at TTS
- ELS work at STB
- RC Structure at STB
- ELS work at Sludge Digester no. 1-3
- E&M work at Biogas Holder no. 1
- Pipeworks for interim scheme.

11.2 Key Issues for the Coming Month

Potential environmental impacts arising from the above construction activities are mainly associated with construction dust, construction noise, waste management, ecology, land contamination and landscape and visual impact issues.

11.3 Monitoring Schedules for the next three months

The tentative schedule for environmental monitoring in the next three months is provided in **Appendix E**.

12 CONCLUSION AND RECOMMENDATION

12.1 Conclusions

- 12.1.1 1-hour TSP impact monitoring was carried out in the reporting month. No Action / Limit Level exceedance at AM1 and AM2 was recorded during the period.
- 12.1.2 Construction noise monitoring was carried out in the reporting month. No Action / Limit Level exceedance at CM1, CM2 and CM3 was recorded during the period.
- 12.1.3 No Action and Limit Level exceedance was recorded for water quality at M1, M2 and M3 in the reporting month.
- 12.1.4 Ardeid night roost monitoring was carried out in the reporting month. Two active ardeid night roost areas (ANR1 and ANR2) were observed within the Survey Area. These roosts were located at the mangrove strips in the east and northeast portions of the Project boundary. No Action / Limit Level exceedance at NMS1 and NMS2 was recorded during the period.
- 12.1.5 Ecological bird monitoring was carried out in the reporting month. Two exceedances in Action Level were recorded for the ecological monitoring of birds on 5 February 2024 (daytime) and 28 February 2024 (night-time). These include significant decline in point count method result for species diversity of all avifauna species, and for species diversity of avifauna species with conservation importance.
- 12.1.6 No corrective actions were required according to the Event and Action Plans for ecological bird monitoring.
- 12.1.7 Four environmental site inspections were carried out in the reporting month. Recommendations on mitigation measures for Permit/ Licenses were given to the Contractor for remediating the deficiencies identified during the site inspections.
- 12.1.8 Four landscape and visual site audits were carried out in the reporting month. Recommendations on mitigation measures for Permit/ Licenses were given to the Contractor for remediating the deficiencies identified during the site inspections.
- 12.1.9 No environmental complaint, notification of summons and successful prosecution was recorded in the reporting month.

12.2 Comment and Recommendations

- 12.2.1 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.
- 12.2.2 According to the environmental site inspections performed in the reporting month, the following recommendations were provided:

Air Quality Impact

• No specific observation was identified in the reporting month.

Construction Noise Impact



• The Contractor is reminded to maintain and reinstate the silentup at northern and western site boundary.

Water Quality Impact

• No specific observation was identified in the reporting month.

Chemical Waste and Construction Waste Management

• No specific observation was identified in the reporting month.

Land Contamination

• No specific observation was identified in the reporting month.

Ecological Impact

• No specific observation was identified in the reporting month.

Landscape and Visual Impact

• No specific observation was identified in the reporting month.

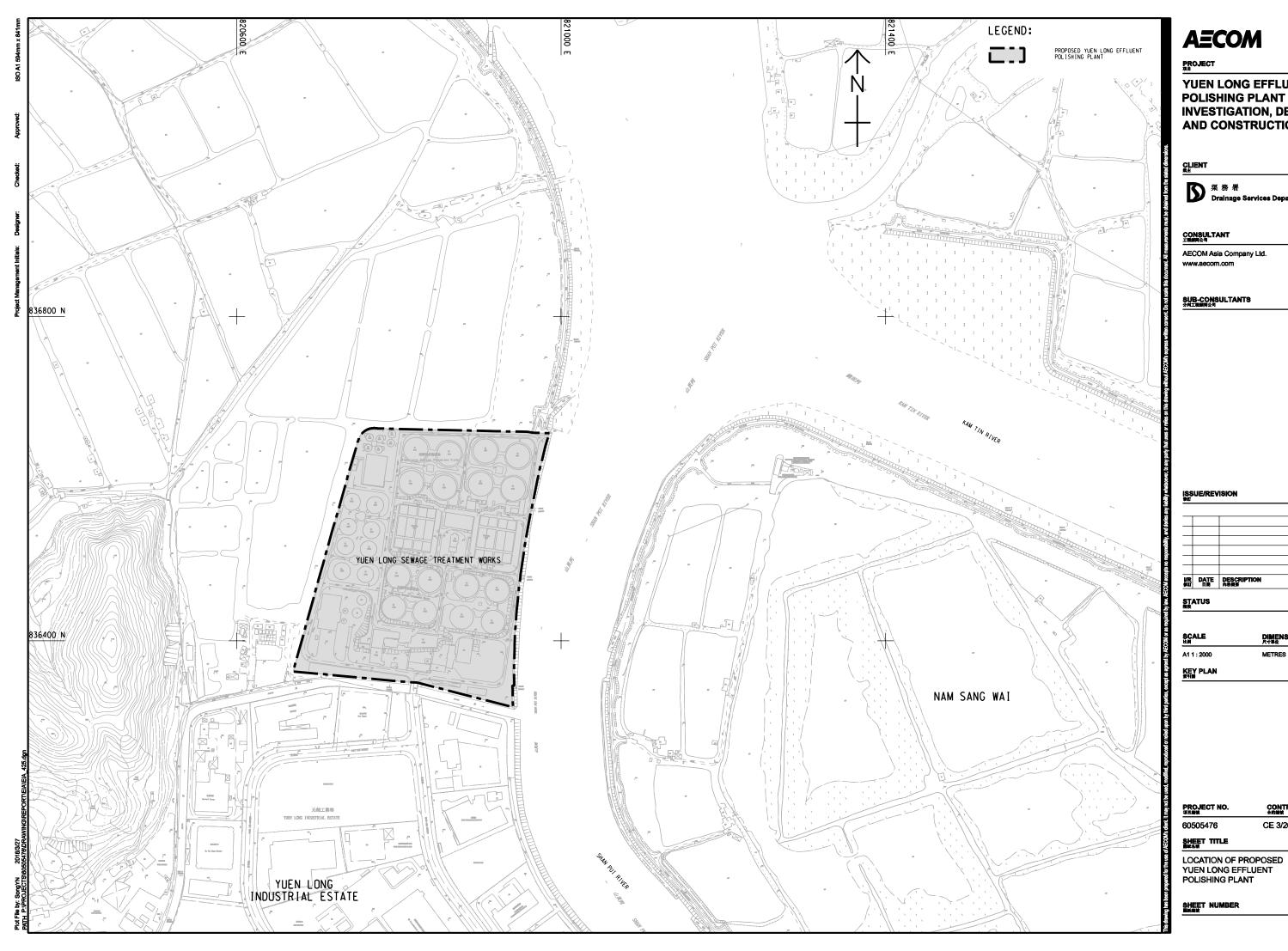
Hazard to Life

• No specific observation was identified in the reporting month.

Permit/ Licenses

• No specific observation was identified in the reporting month.

Figure 1 Location of Proposed Yuen Long Effluent Polishing Plant



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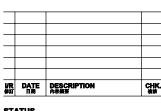
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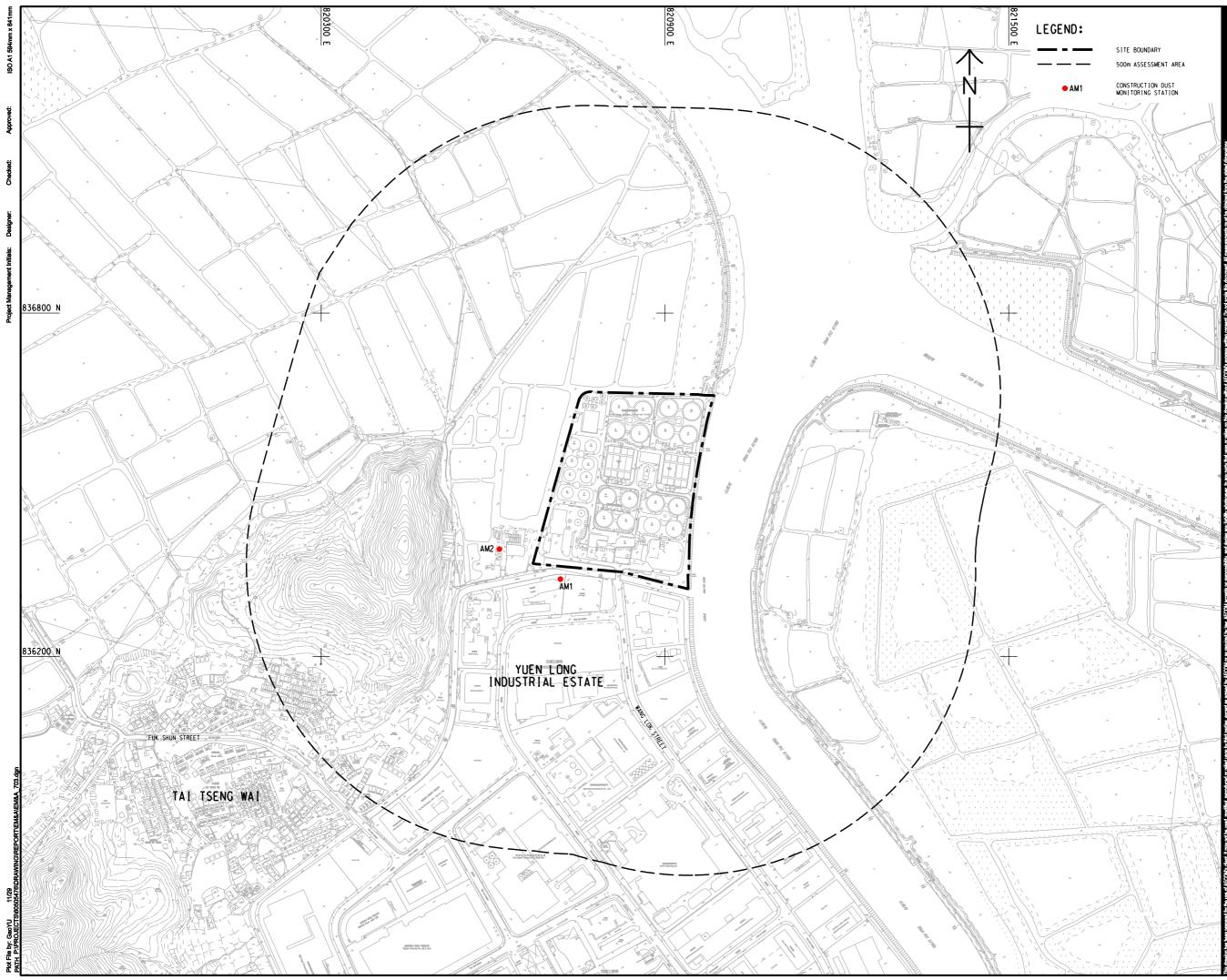
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Figure 2 Location of Construction Dust Monitoring Stations





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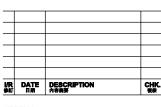
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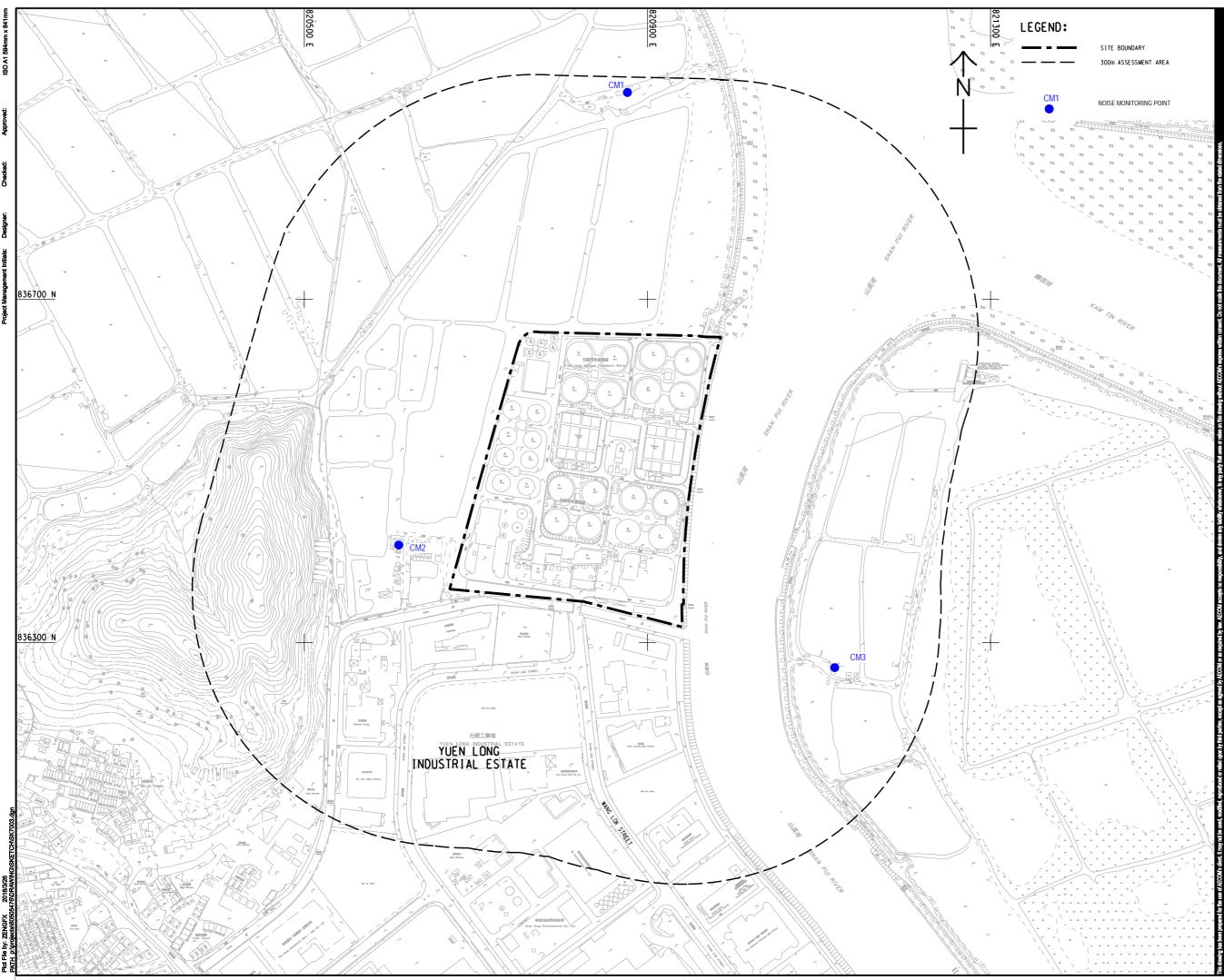
LOCATION OF CONSTRUCTION DUST MONITOING STATIONS

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Figure 3 Noise Monitoring Locations

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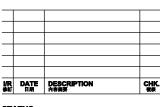
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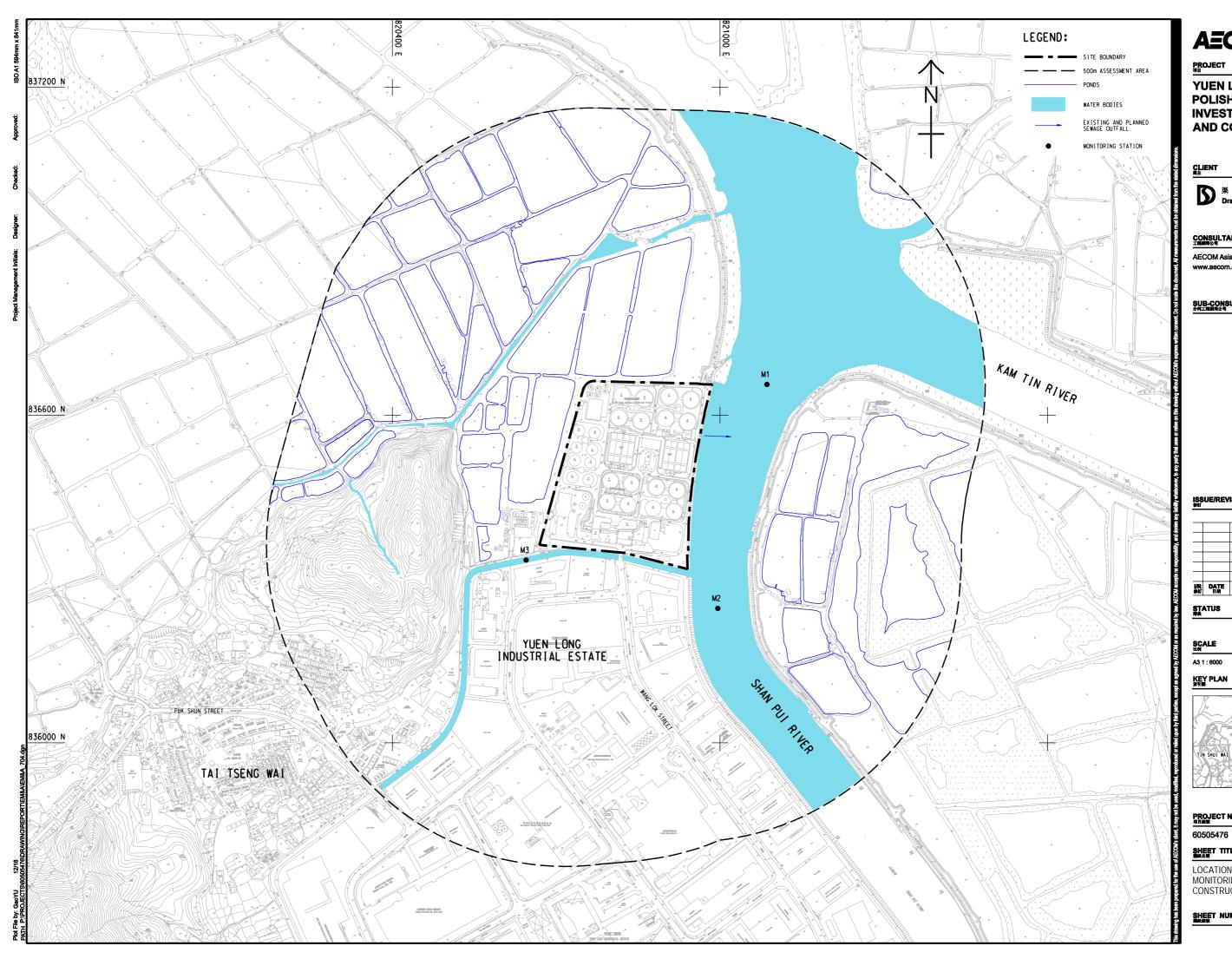
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Figure 4 Water Quality Monitoring Locations

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YUEN LONG EFFLUENT POLISHING PLANT -INVESTIGATION, DESIGN AND CONSTRUCTION

CLIENT



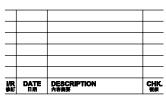
集務署 Drainage Services Dep

CONSULTANT 工程期间公司

AECOM Asia Company Ltd. www.aecom.com

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ISSUE/REVISION



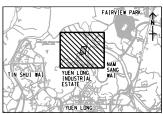
STATUS

SCALE 比例

A31:6000

METRES

KEY PLAN A31:180000



PROJECT NO.

CONTRACT NO. CE 3/2015 (DS)

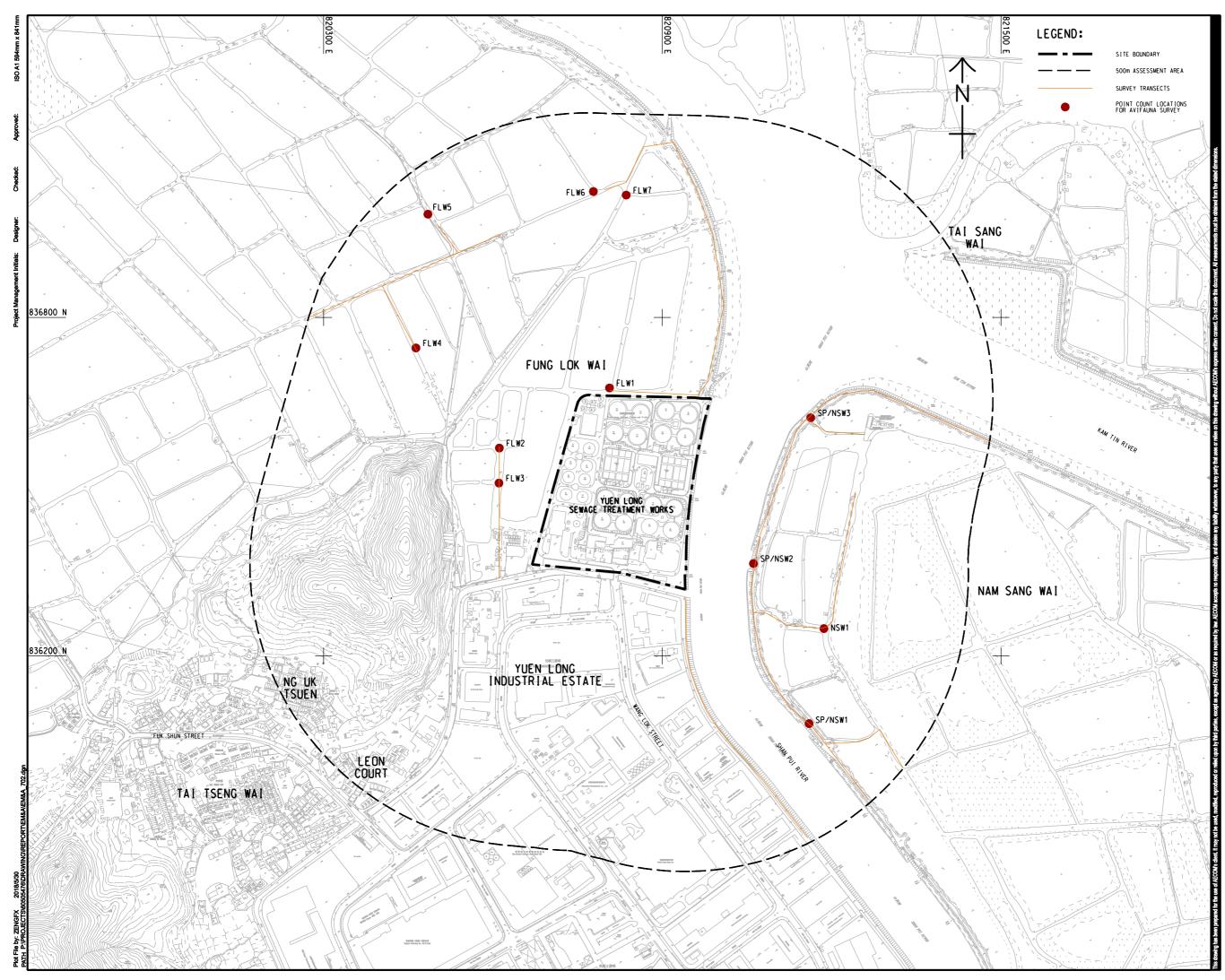
SHEET TITLE

LOCATIONS OF WATER QUALITY MONITORING STATIONS FOR CONSTRUCTION PHASE

SHEET NUMBER

Figure 5 Ecology Monitoring Locations





ΑΞϹΟΜ

PROJECT

YUEN LONG EFFLUENT POLISHING PLANT -INVESTIGATION, DESIGN AND CONSTRUCTION

CLIENT

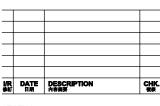


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SCALE 比例

DIMENSION UNIT

A1 1 : 3000

METRES

KEY PLAN #헤르

PROJECT NO. CONTRACT NO.

60505476

CE 3/2015 (DS)

SHEET TITLE

ECOLOGICAL MONITORING LOCATIONS

SHEET NUMBER

Appendix A Construction Programme

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	January 39	February March April 40 41 42
							40 41 42 28 04 11 18 25 03 10 17 24 31 07 14 21 26
	Polishing Plant - Main Works Stage 1 - Detailed Works Programme	DPv3	4_240208				
Contract Dat Access Dates	a Part 1						
ADWA2	WorkArea WA2 (sd) (new site possession) validity for 12 months and subject to renewal	757	5-Mar-21 A	22-Feb-25*	0		
ADP3	Portion 3 (sd+1218d)	0	11-Mar-24*		0		◆ Portion 3 (sd+1218d)
Contract Key	Dates		1	1	1		
CKD10	KD10 - Completion of Civil & Structural works of roof floor of sludge thickening bldg (Rev.KD10=27Feb24)	0		27-Feb-24*	0		KD10 - Completion of Civil & Structural works of roof floor of sludge thickening bldg (Rev.KD10=27Feb24)
Environmenta							
NMM-2165	PS 1.105A Noise Mitg ation Me as ure s2023-2024	152	1-Nov-23A	31-Mar-24	0		PS 1.105A Noise Mitigation Measures 2023 2024
EBS-2175	Egrets Breeding Season 2024	184	1-Mar-24*	31-Aug-24	0		
Planned Con Compensatio							
CE321	Implementation of Compensation Event (CE) No.321 - Amber Rains brm Warning and Inclement Weather in July 2023	0		28-Dec-23 A		plementation of Compensation Event (CE) No.321 - Am	er Rainstorm Warning and Inclement Weather in July/2023
05047				00.1.044			restore staffing of Operation Function Field (CFDA), Oct. And an Definite and below staffing and the starting of Operations (OPDA).
CE347	Implementation of Compensation Event (CE) No.347 - Amber Rainsbirm Warning and Inclement Weather in September 2023	0		30-Jan-24 A		·	mplementation of Compensation Event (CE) No.347 - Amber Rainsbrm Warning and Inclement Weather in September 2023
Preliminary a	nd Preparation Works						
Subletting							
SUB-270	Subletting for ELS works for W, PST, SDB, STB, SD, MBB, TTB, underpass and open cutfor admin. bldg	312	12-Oct-21 A	1-Mar-24	-229		Subletting for ELS works for MV, PST, SDB, STB, SD , WBB, TTB, underpass and open cutfor admin. bldg
SUB-380	Subletting for Sheet piling works for remaining areas	333	12-Oct-21 A	12-Apr-24	124		Subleting for Sneetplung work
SUB-280	Subletting for RC works for IW, PST, SDB, STB, SD, Biogas holder, underpassand admin. bldg	256	29-Nov-21 A	14-Mar-24	-264		Subletting for RC works for WP, PST, SDB, STB, SD, Biogas holder, underpassand a Subletting for Wate rproofing membrane and protecton board
SUB-350 SUB-360	Subletting for Wate rproofing membrane and protection board Subletting for Rebartixing	300 86	29-Nov-21 A 29-Nov-21 A	6-Mar-24 1-Apr-24	-115 -264		Subletting for Waterpooling memorial and protector to add
SUB-310	Subletting for Utilities Corridor ELS	60	8-Aug-22A	11-Mar-24	-105		Subleting for Utilifes Corridor ELS
SUB-290	Subletting for ABW Fworks for IW, PST, SDB, STB, MBR, TTB and admin. bldg	60	1-Aug-23A	31-Mar-24	-201		Subletting for ABWF works for W, PST, SDB, STB, M
SUB-300	Subletting for RC works for MBR and TTB	60	7-Apr-24	5-Jun-24	-136		
SUB-340	Subletting for Drainage, Sewage & waterworks	90	7-Apr-24	5-Jul-24	-136		
Design Subm							
Temporary Wo							
	- Reactor System						
TWD-250	ELS - Obtain Approval	7	23-Aug-23 A	27-Feb-24	69		ELS - Obtain Approval
Sludge Thicker	ing Building						
One-stage d	sign						
TWD-210	ELS - Obtain Approval	7	10-Dec-22 A	26-Feb-24	-78		ELŞ - Obtain Approval
	1-3 & Utilities Corridor						
TWD-370	ELS - Obtain Approval	7	21-Dec-22 A	29-Feb-24	-204		ELS - Obtain Approval
	ing and Underpass						
TWD-260	ELS - Prepare & Submission for PMs review	45	1-Mar-24	14-Apr-24	66		ELS - Prepare & Submissio
TWD-270	ELS - Review by PMs & ICE review (28 d + 7d)	35	15-Apr-24	19-May-24	66		
Administration TWD-300	Open CutDesign - Prepare & Submission for PMs review	45	22-Apr-24	5-Jun-24	152		
	s Tai Tseng Wai Nulah	40	22-Api-24	3-JUII-24	152		
TWD-600	Wakway - Prepare & Submission for PM's review	45	22-Apr-24	5-Jun-24	637		
Modification of	xisting Inspection Chamber & Inlet Effluent Pipes from NSWSPS						
TWD-700	ELS - Prepare & Submission for PMs review	45	26-Oct-22 A	7-Feb-24	-213		ELS - Prepare & Submission for PMs review
TWD-710	ELS - Review by PMs & ICE review (28 d + 7d)	35	8-Feb-24	13-Mar-24	-213		ELS - Review by PMs & ICE relview (28 d + 7d)
TWD-720	ELS - Resubmission for PMs & ICE review (7d prep & resub. + 7d ICE)	14	14-Mar-24	27-Mar-24	-213		ELS - Resubmission for PMs & ICE review (7d prep & resub
TWD-730	ELS - Obtain Approval	7	28-Mar-24	3-Apr-24	-213		ELS - Obtain Approval
Temporary pipe	work between PST Stage 1 and A-Tank Inlet [Temporary pumping system]						
TWD-750	Hydraulic design - Prep(45d), Sub.&Review(30d), Comment&Resub (14d) & Approval (7d)	96	14-Sep-23 A	14-Feb-24	-167		Hydraulic design - Prep(45d), Sub & Review(30d), Comment& Resub (14d) & Approval (7d)
Temporary pur	ping and pipeworks between exsiting Detroitor and PST Stage 1 [Temp. pumping system]						
TWD-780	Hydraulic design - Prep(45d), Sub & Review(21d), Comment& Resub (14d) & Approval (7d)	96	1-Aug-23A	14-Feb-24	-192		Hydraulic design - Prep(45d), Sub & Review(21d), Comment& Resub (14d) & Approval (7d)
	king Platform at ELS						
	orking Platform at AGS ELS						
TWD-920	Temp. Working Platform - AGS ELS - Obtain Approval	7	8-Dec-23A	7-Feb-24	-237		Temp. Working Platform - AGS ELS - Obtain Approval
	orking Platform at TTS ELS	7	10 D == 00 A	00 1 044			emo, Working Platform - TTS ELS - Obtain Approval
TWD-960	Temp. Working Platform - TTS ELS - Obtain Approval	/	12-Dec-23 A	29-Jan-24 A			ennji. violiking Plauomi - i i SELS-OdalinApproval
TWD-970	rsion scheme for Early commissioning of SD, BH1, H2S and STB	141	30-Jun-23 A	5-Apr-24	-101		Temp. pipe. for BH1 Early CommPrep/90d
TWD-970	Temp. pipe. for BH1 Early CommPrep(90d),Sub.&Review(30d) Comment&Resub(14d)&Approval(7d) Temp. pipe. for SD1-2 Early CommPrep(90d),Sub.&Review(30d) Comment&Resub(14d)&Approval(7d)	141	1-Feb-24	20-Jun-24	-101		
	ermanent Works Design (include ATAL)	141	110024	20 0011 24	50		
AIP							
Package 3A	Plant Service Water						
AIP-520	E&MAP Report for Plant Service Water - Resubmission for further review	45	20-Dec-21 A	1-Mar-24	-7		E&MAP Report for Plant Service Water - Resubmission for further review
AIP-530	E&MAP Report for Plant Service Water - Obtain Approval	7	2-Mar-24	8-Mar-24	-7		E&MAP Report for Plant Service Water; Obtain Approval
Package 23A	- Security, Public Address and Communication System						
AIP-970	SPC - Resubmission for further review	45	12-Oct-23 A	9-Mar-24	-128		SPC - Resubmission for further review
AIP-980	SPC - Obtain Appro va I	13	10-Mar-24	22-Mar-24	-128		SPC - Obtain Approval
DDA							
	ertiary Treatment System						
DDA-170	Civil Req. for TTS (Foundation design) - Prepare(27d), Sub. & Review(45d), Comment & Resub.(14d), GEO(28d)& Approval (7d)	121	13-Jun-21 A	23-Feb-24	-140		Civil Red, for TTS (Foundation design) - Prepare(27d), Sub. & Review(45d), Comment& Resub.(14d), GEO(28d)&Appro
DDA-150	Foundation for TTS - Prepare (90d), Sub. & Review (45d) ,Comment & Resub.(14d) & Approval (7d), GEO (28d)	213	8-Oct-21 A	19-Mar-24	-162		Foundation for TTS Prepare (90d), Sub. & Review(45d) ,Comment& Res
DDA-180	Civil Req. for TTS (Superstruct design) - Prepare (147d), Sub. & Review(45d), Comment & Resub.(14d) & Approval (7d)		11-Oct-21 A	23-Feb-24	41		Civil Req. for TTS (Superstruct design) - Prepare (147d), Sub. & Review(45d), Comment& Resub.(14d) & Approval (7d)
	Bemaining Level of Ef						Project ID · DWPr34 240209

Paul Y 保華-中國中鐵聯營體 PAUL Y.-CREC JOINT VENTURE

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

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Contract DC/2019/10 - YLEPP - Main Works for Stage 1 Monthly Progress Report No. 39- 3MRP (Jan 24) Project ID : DWPr34_240209 Layout : DC201910 MPR39-3MRP Page 1 of 11

	May 43					June 44	40 1 4		July 45
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or remaining a	1025								
or remaining aı nin. bldg									
,TTB and adm	iin.bldg								
					Subletting	tor RC wor	ks for MBR ar	nd ITB	Suble
									Suble
for PM's review	/								
		ELS-R	eview by PN	//s & ICE re	eview (28 d	+ 7d)			
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					openoul	Design - P			OI FIVIS IEVIEW
					Wakway-	Prepare 8	Submissionf	or PM's r	eview
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71/05)									
7d ICE)									
Sub.&Review(3	30d) Commen	it&Resub(14o	l)&Approval	(7d)					
							Temp.p	pipe.for S	D1-2 Early Con
l (7d)									
.(14d) & Appro	oval (7d), GEC	(28d)							
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		N	<i>f</i> onthly	Prog	ess R	eport	- 3MRP		
P	D	ate		Revis	sion	С	hecked	Ap	proved
	31-Jan	-24	Rev.	0					
	1								

Activity ID	Activity Name	Orig	Early Start	Early Finish	Total Float	January	February	March	April
		Dur				39 31 07 14 21 2	40 8 04 11 18 29	41 5 03 10 17 24	42 31 07 14 21 28
DDA-200	Mechanical for TTS - Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	213	31-Dec-21 A	24-Feb-24	124			anical for TTS - Prepare (60d), Sub. & Review (45d) ,Com	
DDA-210	Electrical& Control for TTS - Prepare (60d), Sub. & Review.(45d) , Comment & Resub.(14d) & Approval (7d)	213	31-Dec-21 A	24-Feb-24	124	1	Elect	ical& Control for TTS - Prepare (60d), Sub.& Review(45d),Comment& Resub.(14d) & Approval (7d)
DDA-140	Architectural for TTS - Prepare (60d), Sub. & Review (45d), Comment & Resub. (14d) & Approval (7d)	126	17-Nov-22 A	25-May-24	-70				
DDA-160	Civil & Structural for TTS - Prepare (120d), Sub. & Review (45d) , Comment & Resub. (14d) & Approval (7d)	177	17-Nov-22 A	24-May-24	-231				· · · · · · · · · · · · · · · · · · ·
DDA-220	Building Services (BS) for TTS - Prepare (60d), Sub. & Review (45d) , Comment & Resub. (14d) & Approval (7d)	199	30-Oct-23 A	25-May-24	33	1			
Package 3 - N	ainstream Bio-Reactor System								
DDA-260	Civil Req. for MBS-AGS (Foundation design) - Prepare (60d), Sub. & Review(45d), Comment & Resub (14d) & Approval (7d)	126	9-Jun-21 A	23-Feb-24	-69		Civil Re	eq. for MBS-AGS (Foundation design) - Prepare (60d), Sul	& Review(45d), Comment & Resub (14d) & Approval (7
DDA-280	(70) P&ID for MBS (60d), Sub. & Review(45d), Comment & Resub. (14d) & Approval (7d)	126	8-Oct-21 A	13-Mar-24	160			P&ID for MBS (60d), Sub. & R	eview.(45d) ,Comment & Resub.(14d) & Approval (7d)
DDA-290	Mechanical for MBS - Prepare (60d), Sub. & Review (45d) Comment & Resub. (14d) & Approval (7d)	126	8-Oct-21 A	19-Mar-24	160				S - Prepare (60d), Sub. & Review (45d), Comment & Resul
DDA-300	Electrical& Control for MBS - Prepare (60d), Sub. & Review (45d) Comment& Resub. (14d) & Approval (7d)	405	8-Oct-21 A	13-Mar-24	166	1			Vepare (60d), Sub. & Review. (45d), Comment & Resub. (14
DDA-270	Civil Req. for MBS-AGS (Superstruct design) - Prepare (60d), Sub. & Review(45d), Comment & Resub.(14d) &	126	1-Mar-22 A	23-Feb-24	-69	1	Civil B	<u>. [</u>	x & Review(45d) ,Comment & Resub.(14d) & Approval (76
DDR-210	Approval (7d)	120	1-IVIQI-22 A	23-1 60-24	-03		GWIT		
DDA-240	Foundation for MBS - Prepare (97d), Sub. & Review (45d), Comment & Resub. (14d), GEO (28d) & Approval (7d)	230	18-Mar-22 A	10-May-24	-136			1	
DDA-250	Civil & Structural for MBS - Prepare (60d), Sub. & Review. (45d) , Comment & Resub. (14d) & Approval (7d)	170	20-Jan-23 A	29-May-24	-69				
DDA-1530	VCAB for AGS&TTS - Piepare (30d), Sub. & Review (30d)	204	16-Jun-23 A	23-May-24	66			1	r
DDA-310	Building Services (BS) for MBS - Prepare (60d), Sub. & Review. (45d), Comment & Resub. (14d) & Approval (7d)	142	1-Feb-24	21-Jun-24	66				······································
Package 5A -	Master Water Meter Room								
DDA-390	P&ID for MWMC - MBS (60d), Sub. & Review (45d), Comment & Resub. (14d) & Approval (7d)	64	26-Jun-23 A	7-Jun-24	104				· · · · · · · · · · · · · · · · · · ·
DDA-400	Mechanical for MWMC - Prepare (60d), Sub. & Review (45d), Comment & Resub (14d) & Approval (7d)	220	30-Oct-23 A	7-Jun-24	821				· · · · · · · · · · · · · · · · · · ·
DDA-410	Electrical& Control for MWMC - Prepare (60d), Sub. & Review (45d), Comment & Resub (14d) & Approval (7d)	220	30-Oct-23 A	7-Jun-24	821				
	Plant Service Water (PSW)								
DDA-1050	Civil Requirement Drawings - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval (7d)	126	12-Jun-21 A	17-Apr-24	14				Civil Requirement Drawi
DDA-1040	Piping & Instrumentation Diagram (P&ID) - Prep(30d), Sub & Review (28d), Comment& Resub (14d) & Approval (7d)	220	26-Jun-23 A	6-Jul-24	-10				
DDA-1060	Electrical & Control for PSW - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval (7d)	157	1-Feb-24	6-Jul-24	-10				
DDA-1000		157	1-Feb-24	6-Jul-24	-10				
	Mechanical for PSW - Prep(60d), Sub & Review(45d), Comment& Resub (14d) & Approval (7d)	157	1-Feb-24	0-JUI-24	-10				·
	udge Thickening Chemical and Dosing System	005	14 4.00 01 4	00 404	040				Dan
DDA-1120	P&ID for STCDS - Prepare (60d), Sub. & Review (45d) ,Comment & Resub. (14d) & Approval (7d)	335	14-Aug-21 A	28-Apr-24	249	1			
DDA-430	Found.for STCS,WasteGasBurn er &Guard Hse - Prep are (60 d),Sub & Re view.(45d),Comment & Resub.(14d),GEO(28d) & App roval (7d)	96	9-Nov-21 A	30-Apr-24	625				
DDA-440	Civil & Struct for STCS, WGB & Guard Hse - Prepare (60d), Sub. & Review (45d) Comment & Resub (14d) & Approval	250	9-Nov-21 A	30-Apr-24	447		·		
		000		00 E 04					45-4 Comments Door 1/ (44-8 Amment/74)
DDA-440B	Civil Req. for STCDS - Prepare (60d), Sub. & Review (45d) Comment & Resub. (14d) & Approval (7d)	300	15-Nov-21 A	29-Feb-24	308	1		Civil Req. for STCDS - Prepare (60d), Sub. & Review	450) Comment&Resub.(140) & Approval (70)
DDA-1130	Mechanical for STCDS - Prepare (60d), Sub. & Review (45d), Comment & Resub (14d) & Approval (7d)	340	16-Nov-21 A	30-Apr-24	625				
DDA-1140	Electrical & Control for STCDS - Prepare (60d), Sub. & Review. (45d) , Comment & Resub. (14d) & Approval (7d)	315	30-Nov-21 A	2-Mar-24	625	1		Electrical & Control for STCDS - Prepare (60d), Su	b.& Review.(45d) ,Comment & Resub.(14d) & Approval (7
DDA-1520	Mechanical Ventlaton and Air conditional System Design for Sludge Thickening Building (STB)	320	16-Jun-22 A	30-Apr-24	287	1		-	N
DDA-1510	Plumbing and Drainage System Design for Sludge Thickening Building (STB)	320	7-Jul-22 A	30-Apr-24	287				0 P
DDA-1500	Fire Services Design for Sludge Thickening Building (STB)	320	8-Jul-22 A	30-Apr-24	287	-			
DDA-1150	Building Services for STCDS - Prepare (60d), Sub. & Review (45d), Comment & Resub (14d) & Approval (7d)	126	24-Oct-22 A	30-Apr-24	625	- 			E
Package 7 - C	P Substation and 11kV Switchgear House								
DDA-480	UPS System for CLPSub & 11kV Switchgear Hse - Prepare (102d), Sub. & Review.(45d), Comment & Resub.(14d)&Approval (7d)	168	3-Jun-21 A	16-Feb-24	-82		UPS System for CL	P\$ub.&11kV Switchgear Hse - Prepare (102d), Sub. & Re	view.(45d),Comment & Resub.(14d)&Approval (7d)
Package 9 - Ir								-	·{
DDA-1190	Mechanical for Inlet Work - Prepare (28d), Sub. & Review(28d), Comment & Resub.(14d) & Approval (7d)	120	9-Aug-21 A	1-Mar-24	-135			Mechanical for Inlet Work - Prepare (28d), Sub. & Re	view(28d) ,Comment & Resub.(14d) & Approval (7d)
DDA-1200	Electrical & Control for Inlet Work - Prepare (28d), Sub. & Review (28d), Comment & Resub.(14d) & Approval (7d)	120	30-Oct-21 A	1-Mar-24	-155				b. & Review(28d) ,Comment & Resub.(14d) & Approval.(7
DDA-1210	Building Services for Inlet Work - Prepare (28d), Sub. & Review (28d), Comment & Resub. (14d) & Approval (7d)	76	30-Mar-22 A	1-Mar-24	-155				& Review(28d) ,Comment & Resub.(14d) & Approval (7d
	Primary Sedimentation Tank (PST)	10	OU WEI ZZA	T IVIGI 24	100				
DDA-1250	Electrical & Control for PST - Prepare (28d), Sub. & Review (28d), Comment & Resub.(14d) & Approval (7d)	48	31-Aug-21 A	1-Mar-24	-203			Electrical & Control for PST - Prepare (28d) Sub & E	eview(28d) ,Comment & Resub.(14d) & Approval (7d)
DDA-1260	Building Services for PST - Prepare (28d), Sub. & Review (28d), Comment & Resub. (14d) & Approval (7d)	90	1-Oct-21 A	1-Mar-24	-203				wiew(28d),Comment & Resub.(14d) & Approval (7d)
		30	1-00-217	1-1Vid(1-2-4	-205	1			
DDA-580	Control and Monitoring System Power Quality & Energy Management System (PQEMS) - Prep(28d), Sub & Review(28d), Comment& Resub (14d) &	130	2-Oct-21 A	31-Mar-24	31				Power Quality & Energy Management System (PQEI/IS
DDA-360	Approval (7d)	130	2-00-21 A	31-Wd1-24	31				r ower quality & Energy Wanagement System (r GENS
DDA-550	Supervisory Control&Data Application (SCADA) System - Prep (28d), Sub.& Review (28d), Comment& Resub (14d) &	238	24-Apr-23A	31-Mar-24	31	1		1	Supervisory Control&Data Application (SCADA) System
DDA 1070	Approval (7d)	01	0.1400.4	01 14-04	01				Cas Datasian Sustam, Bran/(9d) Sub 8 Daviou/(28d)
DDA-1270	Gas Detection System - Prep(28d), Sub & Review(28d), Comment& Resub (14d) & Approval (7d)	91	8-May-23A	31-Mar-24	31	1			Gas Detection System - Prep(28d), Sub.&Review(28d),
DDA-560	Computerised Mainatenance Mangement System (CMMS) - Prep(28d), Sub.&Review(28d), Comment&Resub (14d) & Approval (7d)	335	1-Feb-24	31-Dec-24	31				
DDA-570	Information and Document mangement System (IDMS) - Prep(28d), Sub.&Review(28d), Comment&Resub (14d) &	335	1-Feb-24	31-Dec-24	31				
DDA 1000	Approval (7d)	007	1 5-5 04	01 D- 01	01				
DDA-1280	Data Collection, Management, Analysis & Model System - Prep (28d), Sub & Review (28d), Comment& Resub (14d) & Approval (7d)	335	1-Feb-24	31-Dec-24	31				
Package 12 -	Chemical System for STB								
DDA-650	Chemical System for Sludge Thickening Building (STB) - Prep(60d), Sub & Review(45d), Comment& Resub (14d) &	150	1-Feb-24	29-Jun-24	187				······································
	Approval (7d)								ļļ.
	Pipework System								
DDA-660	Pipeworks System for Sludge Thickening Building (STB) - Prep(60d), Sub & Review(45d), Comment& Resub (14d) & Approval(7d)	126	1-Feb-24	5-Jun-24	245				
DDA-1030	Pipeworks System for Sludge Digesters - Prep(60d),Sub&Review(45d),Comment&Resub (14d) &Approval (7d)	126	1-Feb-24	5-Jun-24	-52				
Package 14 -	Sludge Anærobic Digestion System (SDT)								
DDA-1320	Electrical & Control for SDT & UC/PP - Prepare (55d), Sub. & Review (45d), Comment & Resub. (14d) & Approval (7d)	460	2-Jul-21 A	30-Apr-24	-16				
DDA-1340	Civil Req. Drawing for UC/PP - Prepare (47d), Sub.& Review(45d), Comment& Resub.(14d) & Approval (7d)	580	10-Jul-21 A	25-Mar-24	-16		L	Civil Re	g Drawing for UC/PP - Prepare (47d), Sub. & Review(45d)
DDA-1330	Building Services for SDT & UC/PP - Piepare (56d), Sub. & Review (45d), Comment& Resub (14d) & Approval (7d)	181	2-May-23 A	30-Apr-24	-16				· · · · · · · · · · · · · · · · · · ·
	Siogas H2S Removal, Storage and Delivery System								
DDA-1390	Building Services for Biogas H2S Removal System - Prepare(28d),Sub&	137	31-May-23 A	31-Mar-24	-119				Building Services for Biogas H2S Removal System - Pr
DENTION	Review(28d),Comment&Resub(14d)&Approval (7d)	107	5. May 20 A	5. WUI-24	113				
DDA-1380	Electrical & Control for Biogas H2S Removal System - Prepare (28d), Sub&	105	25-Sep-23 A	31-Mar-24	-119				Electrical & Control for Biogas H2S Removal System - F
Dackage 16	Review(28d),Comment&Resub(14d)&Approval (7d) Deodorization Unit System				1				
DDA-1420	veodonzation Unit System Mechanical for DOU No. 1 - Prepare(28d),Sub& Review(28d),Comment&Resub(14d)&Approval (7d)	78	4-Mar-22 A	24-Feb-24	-39		Mach	ahical for DOU No. 1 - Prepare(28d),Sub& Review(28d),	bmment&Besub(14d)&Approval (7d)
DDA-1420 DDA-1440						1	iviecr	Mechanical for DOU No. 3 - Prepare(28d), Sub& Review(28d),	
	Mechanical for DOU No.3 - Prepare(28d),Sub& Review(28d),Comment&Resub(14d)&Approval (7d)	300	17-Jul-22A	2-Mar-24	335	i i		we or a moan of DOU NO.3 - Prepare(280), SUD& H	wowebull (10)



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Contract DC/2019/10 - YLEPP - Main Works for Stage 1 Monthly Progress Report No. 39- 3MRP (Jan 24)

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	43					June 44		_	July 45	
05	12	19	26	02	09	16	23		30	07
			Architect	iral for TTS - I	Prepare (60	ld), Sub. & I	Review.(45d)	,Comm	ient& Res	sub.(1
			Civil & Stru	ctural for TTS	- Prepare (120d), Sub	. & Review.(4	5d) ,Co	mment& F	Resu
			Building	Services (BS)) for TTS - F	repare (60	d), Sub. & Re	eview.(4	5d) ,Comm	nenta
d)										
										•••••
b.(14d)& Appr										
4d) & Approval	(7d)									
d)										
	Foundation for	MBS - Pre	pare (97d)	Sub. & Revie	ew.(45d) ,Co	om ment & I	Resub.(14d)	GEO (2	.8d)& Appr	roval
			C	ivil & Structura	al for MBS -	Prepare (6	0d), Sub. & F	leview.(45d) Com	men
		V(CAB for AC	S&TTS - Pre	pare(30d),	Sub.& Re	view (30d)			
							Building	g Servi¢	es (BS) for	MBS
							BS (60d), Su IC - Prepare			
							or MWMC - P			
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ings - Prep(60c	d), Sub.&Review(4	5d), Comn	nent&Resi	ub (14d) & Ap	proval (7 d)					
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	Prepare (60d), Sul									
ound.for STC	S,WasteGasBurne	er & Guard	Hse-Prepa	are (60 d),Sub	&Review.(4	5d),Comm	nent & Resub	o.(14d).C	EO(28d) 8	& Ap
Civil & Struct. fo	r STCS, WGB & G	uard Hse -	Prepare (6	0d), Sub. & F	Review.(45d),Commer	nt&Resub.(1	4d)& /	pproval (7	/d)
Achanical for	STCDS - Prepare	(60d) Sub	& Roviou	(45d) Comp	nont& Roci	ub (1.4d)&	Approval (7d			
7d)				(+50),500				·		
	n flation and Aircor	nditional Sy	vstem Des	an for Sludge	Thickenin	a Building (STB)			
	Drainage System I									
	esign for Sludge T									•••••
Building Servio	es for STCDS - Pre	epare (60d	l), Sub. & R	eview(45d) (Comment 8	Resub (14	4d)& Approv	/al (7d)		
								1		
d)										
)										••••
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i) - Prep(28d), S	Sub.&Review(28d)	,Commer	nt&Resub (14d) & App ro	val (7d)					
n - Prep(28d), S	Sub&Review(28d)	,Commer	nt&Resub	14d) & Appro	ival (7d)					
Commentℜ	esub (14d) & Appro	oval (7d)								
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									Chemical S	JySte
				Pi	peworks Sy	stem for SI	ludge Thicke	ning Bu	ilding (STE	3) - Pi
				Pi	peworks Sy	stem for SI	ludge Digest	ers - Prje	ep(60d),Su	ıb.&F
										•••••
Electrical & Cor	ntrol for SDT & UC	PP-Prepa	are (55d), S	ub.&Review	u(45d) ,Con	nment& Re	esub.(14d) &	Approva	al (7d)	•••••
	Resub.(14d) & App									
Building Servio	es for SDT & UC/F	P-Pnepan	e (56d), Su	b.& Review.(45d) ,Comr	ment& Res	sub.(14d) & A	pproval	(7d)	
epare(28d),Su	b& Review(28d),C	comment&	Resub(14	d)&Approval	(7d)					-
Prepare(28d),S	ub& Review(28d)	Comment	&Resub(1	4d)&Approva	al (7d)					•••••
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Activity ID	Activity Name	Orig	Early Start	Early Finish	Total Float	January	February	March	April
		Dur				39 31 07 14 21 2	40 8 04 11 18 25	41 03 10 17 24	42 31 07 14 21 28
DDA-1430	Mechanical for DOU No. 2A and 2B - Prepare (28d),Sub& Review (28d),Commen & Resub (14d) & Approval (7d)	122	13-Oct-23 A	1-Apr-24	305				Mechanical for DOU No. 2A and 2B - Prepare(28d)S
Package 17 -	Sludge Dewatering Building (SDB)								
DDA-910	Roof Rainwater Collection Systemfor (SDB) - Prep(60d), Sub.&Review(45d), Comment&Resub (21d) & Approva ((7d)	265	2-Mar-24	21-Nov-24	110				
DDA-920		272	2-Mar-24	28-Nov-24	110				
	Fire Services System for SDB - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & App toval(7 d)								
DDA-930	Mechanical for Sludge Dewatering Building (SDB) - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval (7d)	272	2-Mar-24	28-Nov-24	549				
DDA-940	Plumbing System for Sludge Dewatering Bldg (SDB) - Prep(60d), Sub & Review(45d), Comment& Resub(14d) &	272	2-Mar-24	28-Nov-24	549				
00/1040	Approval (7d)	272	2 1000 24	20110124	040				
DDA-950	BS for Sludge Dewatering Building (SDB) - Prep(118d), Sub & Review(45d), Comment& Resub (14d) & Approval (7d)	272	2-Mar-24	28-Nov-24	110				
Package 18 -	Miscellaneous								
		055	00 E-h 04	0.01-0.04	104				
DDA-540	Civil & Structural for Misc, Manholes, DrawPits, FenceWall - Prep (60 d), Sub & Review (45d), Comment & Resub (14d) & Approval (7d)	255	29-Feb-24	9-Nov-24	104			1	1
Package 19	Elevated Walkways								
DDA-710		101	20 Ech 24	9 Jun 04	728				
DDA-710	Civil & Structural for Elevated Wa kways - Prep(60d), Sub & Review(45d), Comment&Resub (14d) & Approval(7d), GEO(28d)	101	29-Feb-24	8-Jun-24	/20				
Package 20 -	Trellis								
DDA-720	Civil & Structural for Trellis - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval(7d)	207	1-Feb-24	25-Aug-24	562				
			110024	20 Aug 24	302				
	Steel Working Platform								
DDA-730	Civil & Structural for Steel Working Platform - Prep(60d), Sub & Review(45d), Comment & Resub (14d) & Approval (7d)	102	1-Feb-24	12-May-24	667			1	-
Package 22 -	Sampling System of YLEPP								
DDA-740	Sampling System for IW&PST - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval(7d)	62	7-Jul-23 A	30-Mar-24	-144				Sampling System for W&PST - Prep(60d), Sub.&Review
DDA-1630	Sampling System for STB - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Appro va (7d)	128	1-Feb-24	7-Jun-24	-77			<u>.</u>	
DDA-1610	Sampling System for AG S&TTB - Prep(60d), Sub.&Revie w(45d), Comment&Resub (14d) & Approval(7d)	127	25-Feb-24	30-Jun-24	-77				ļ
DDA-1620	Sampling System for SDT - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval(7d)	127	25-Feb-24	30-Jun-24	-77	li			
Package 23 -	Security, Public Address and Communication System								
DDA-750	SPC sitewide ACS - Prep(60d), Sub & Review (45d), Commen & Resub (14d) & Approval (7d)	98	21-Jun-23 A	7-Apr-24	-152	,			SPC sitewide ACS- Prep(60d), Sub & Rev
Package 24 -	Administration Building (ADB)			1	1	<u> </u>			+
DDA-0960	Architectural for Administration Building (ADB) - Prep (60 d), Sub. & Review (45 d), Comment& Resub (14 d) & Approval (7 d)	126	1-Feb-24*	5-Jun-24	-48	<u> </u>		<u>i</u>	
DDA-0960	רוקט פער אין איז	126	1-1-60-24	J-Juil-24	-48				
Design out o	f ATAL's Scope								
DDA-1540	Drainage systems at base slab / foundation levels - Prep(60d), Sub & Review(45d), Comment& Resub (14d) &	126	24-Aug-22 A	6-Apr-24	321				Drainage systems at base slab / foundation
55,71010	Approval(7d)	.20	217.09 2271	0,0,2,	021				
DDA-1560	Streetfire hydrantsystem - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approva (7d)	126	1-Feb-24	5-Jun-24	224				
DDA-1550	Rainwater drainage systems - Prep(60d), Sub & Review(45d), Comment& Resub (14d) & Ap pro val(7d)	126	7-Apr-24	10-Aug-24	599				
			7.40.21	107 kg 21	000				
Technical Subn									
Factory Acce	ptance Test Plans							<u>.</u>	įį
SUBM-1110	Submit/review/approval Factory Acceptance Test Plans - Disc filter system	120	1-Dec-23A	16-May-24	-59				
SUBM-1130	Submit/review/approval Factory Acceptance Test Plans - SCADA system	120	1-Dec-23A	16-May-24	3				
Operation ar	d Maintenance (O&M) Manuals and Installation Manuals (PS 34.20(11)(12)(13))								
	nd Primary Sedimentation Tank							<u>.</u>	÷÷-
			5 1		004				
SUBM-1070		60	5-Jan-23 A	2-Mar-24	-204			Submirreviewapproval Operation and Maintenan	ce (O&M) Manuals and Installation Manuals - 1 st draft
SUBM-1200	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - revised draft	60	3-Mar-24	1-May-24	-175				
AGS and TTS	system								
SUBM-1220	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft	60	3-Mar-24	1-May-24	72				
Sludge Thick									
	Submitreview/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft	60	3-Mar-24	1 May 24	514				
		00	3-1vidi-24	1-May-24	514	ļ		,	
Sludge Disge	stion System								
SUBM-1310	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft	60	3-Mar-24	1-May-24	-204				:
Biogas H2S I	Removal System								
SUBM-1280	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft	60	3-Mar-24	1-May-24	-204				
	ing Plan and Procedures (PS34.20(10))			,					
		60	00 Mo: 00 f	01 1401	100			Employment	HOKI AS laboraton for commissions text
SUBM-1080	Employment of HOKLAS laboratory for commissiong test	60	23-May-22 A	21-Mar-24	-163			Employment of	HOKLAS laboratory for commissiong test
SUBM-1000	Submit/review/approval Commissioning Plan and Procedures - Early commissioning of W&PST (KD3)	120	22-Mar-24	19-Jul-24	-163	<u> </u>		<u> </u>	
SUBM-1020	Submit/review/approval Commissioning Plan and Procedures -AGS	120	22-Mar-24	19-Jul-24	38				
SUBM-1030	Submit/review/approval Commissioning Plan and Procedures - TTS	120	22-Mar-24	19-Jul-24	450	1			· · · · · · · · · · · · · · · · · · ·
SUBM-1040	Submittreview/approval Commissioning Plan and Procedures - STB	120	22-Mar-24	19-Jul-24	495	<u> </u>			
						<u> </u>			
SUBM-1050	Submitreview/approval Commissioning Plan and Procedures - SDT	120	22-Mar-24	19-Jul-24	103				ļļ
SUBM-1060	Submit/review/approval Commissioning Plan and Procedures - Biogas system	120	22-Mar-24	19-Jul-24	759]			
Material Subm	ission, Procurement, Manufacturing and Delivery								
Inlet Works									
PRE-290	SubmitProcure/Manufacture/Deliver New Inlet Works Equip GritTrap and classifier	270	18-Feb-22 A	27-Jul-24	-233		ŀ		
PRE-280	Submit Procure Manufacture/Deliver New Inlet Works Equip Convergeor and compactor	270	12-Apr-22A	30-Apr-24	-134	j		<u></u>	
							Submit/Procurs Manufacture Dallies	detWorks Equip - DOLL01	
PRE-330	SubmitProcure/Manufacture/Deliver New Inlet Works Equip DOU-01	330	26-May-22 A	4-Feb-24	-64	·····	Submit/Procure/Manufacture/Deliver New I		
PRE-300	Submit/Procure/Manufacture/Deliver New Inlet Works Equip LALG	270	28-Jul-22A	30-Apr-24	-187				
PRE-310	Submit/Procure/Manufacture/Deliver New Inlet Works Equip Penstocks and stoplogs	270	13-Sep-22 A	29-Feb-24	-134			Submit/Procure/Manufacture/Deliver New Inlet Works	Equip Penstocks and stoplogs
PRE-320	Submit/Procure/Manufacture/Deliver New Inlet Works Equip MVAC-Ventilation Fan	211	10-Jan-23 A	13-Jun-24	-226			1	
Primary Sedim	entation Tanks								
PRE-340	SubmitProcureManufacture/Deliver New Primary Sedimentation Tank Equip Bottom scrapper	255	8-Sep-22A	1-Feb-24	-192	÷	Submit/Procure/Manufacture/Deliver New Prima	V Sedimentation Tank Fourin - Rottom scrapper	
						ļ		,	
PRE-350	SubmitProcure/Manufacture/Deliver New Primary Sedimentation Tank Equip IPS air scouring blower	255	27-Sep-22 A	1-Feb-24	-193			ry Sedimentation Tank Equip IPS air scouring blower	
PRE-360	Submit/Procure/Manufacture/Deliver New Primary Sedimentation Tank Equip Scum pump and skimmer	255	29-Sep-22 A	19-Feb-24	-21	:		Manufacture/Deliver New Primary Sedimentation Tank E	quip Scum pump and skimmer
PRE-370	Submit/Procure/Manufacture/Deliver New Primary Sedimentation Tank Equip Primary sludge pump and grinder	255	29-Sep-22 A	19-Feb-24	-21		Submit/Procure	Manufacture/Deliver New Primary Sedimentation Tank E	quip Primary sludge pump and grinder
PRE-400	Submit/Procure/Manufacture/Deliver New Primary Sedimentation Tank Equip Pipeworks and valves	194	15-Oct-22 A	4-Mar-24	-201		6	Submit/Procure/Manufacture/Deliver New Prim	ary Sedimentation Tank Equip Pipeworks and valves
Biogas Holder					1	li			
-	PulmitProgue Monufacture Deliver Whater One Pulmer	000	10 4 01 4	0 Mar. 00	440				ļ
PRE-410	SubmitProcure/Manufacture/Deliver Waster Gas Buiner	300	19-Aug-21 A	3-Nov-26	-119				
PRE-420	Submit/Procure/Manufacture/Deliver H2S Removal System	510	25-Feb-22 A	30-Sep-25	-34	1		1	
PRE-430	Submit/Procure/Manufacture/Deliver Biogas booster and transfer pumps	522	27-Apr-24*	30-Sep-25	63				
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	Remaining Level of Ef		•						Project ID : DWPr34 240209



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May 43	June 44	July 45
ub&Review(28d),Comment&Resub(14d)&Approval	<mark> 02 09 16 23 </mark> Ød)	30 07
	Civil & Structural for Elevated Wa kway	s-Pren (60 d) Si
Civil & Structural for Steel Workin	g Platform - Prep(60d), Sub.&Review(45d), Comment&	Hesub (14d) & A
(45d), Comment&Resub (14d) & Approval(7d)		
	Sampling System for STB - Prep (60d), S	ub.&Review(45 Sampling Sys
		Sampling Sys
iew (45d), Commen 1& Resub (14d) & Approval (7d)		
	Architectural for Administration Building (AD	3) - Prep (60 d), S
evels - Prep(60d), Sub.&Review(45d), Comment&Res	ub (14d) & Approval(7d)	
	Street fire hydrant system - Prep(60d), Sub &	Review(45d), C
	actory Acceptance Test Plans - Disc filter system	
Subinitire view approval F	actory Acce plance Test Plans - SCADA system	
Submit/review/approval Operation and Maintenance	(O&M) Manuals and Installation Manuals - revised draft	
	Le Indiana and Instantion Indinudo - Teviseu Uldi	
Submit/review/approval Operation and Maintenance	(O&M) Manuals and Installation Manuals - 1st draft	
Submit/review/approval Operation and Maintenance	(O&M) Manuals and Installation Manuals - 1st draft	
Submit/review/approval Operation and Maintenance	(O&M) Manuals and Installation Manuals - 1st draft	
Submit/review/approval Operation and Maintenance		
Submit/Procure/Manufacture/Deliver New Inlet Works E	quip Converyeor and compactor	
Submit/Procure/Manufacture/Deliver New Inlet Works B	quipLALG	
	Submit/Procure/Manufacture	Deliver New Inle
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31-Jan-24 Rev.		

	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	January 39	February March April 40 41 42 40 41 42	May June 43 44 40 40
Bludge Digestor Ta	nk						04 11 18 25 03 10 17 24 31 07 14 21 28 05	
	Submit/Procure/Manufacture/Deliver Sludge Digester Tank - Flame Arresters		31-Oct-22 A	4-Oct-24	-173	1		
	SubmitProcure.Manufacture/Deliver Sludge Digester Tank - Mixing System and Heat Exchanger for Sludge Anaerobic Digester	420	22-Dec-22 A	1-Apr-24	13		SubmitProcure/Manufacture/Deliver Sludge Digester Tank - Mixing System	
	Submit/Procure/Manufacture/Deliver Sludge Digester Tank - Inspection Windowsfor Sludge Anaerobic System		18-Jan-23 A	31-Mar-24	14		SubmitProcure/Manufacture/Deliver Sludge Digester Tank - Inspection Wind	owsfor Sludge Anaerobic System
	Submit/Procure/Manufacture/Deliver Sludge Digester Tank - Gas Take Off Dome for Sludge Anaerobic Digestion System	365	18-Jan-23 A	4-Oct-24	-173			
RE-710	Submit/Procure/Manufacture/Deliver Sludge Digester Tank - Pressure and Vacuum Relief Valves	300	1-Mar-23 A	3-Feb-24	-192		SubmitProcureManufacture/Deliver Sludge Digester Tank - Pressure and Vacuum Relief Valves	
RE-740	Submit/Procure/Manufacture/Deliver Sludge Digester Tank - Telescopic Valve for Sludge Anaero bic Digestion System	179	10-Jul-23A	1-Aug-24	-192			
RE-760	Submit/Procure/Manufacture/Deliver Sludge Digester Tank - Ferric Chloride Dosing Pump	148	29-Aug-23 A	25-Jan-25	-192			
RE-770	Submit/Procure/Manufacture/Deliver Sludge Digester Tank - Ferric Chloride Trasnfer Pump	148	29-Aug-23 A	23-Oct-24	-192			
dge Thickening	Building							
	Submit/Procure/Manufacture/Deliver Sludge Thickening System - Thickening Centrifuges		12-Nov-21 A	30-Apr-24	281		SubmitProcure/Manu	rfacture/Deliver Sludge Thickening System - Thickening Centrifuges
	Submit/Procure/Manufacture/Deliver Sludge Thickening System - Pump and jet mixer	300	7-Jan-22 A	26-Jul-24	31	1	ļ	
	Submit/Procure/Manufacture/Deliver Sludge Thickening System - LALG Submit/Procure/Manufacture/Deliver Sludge Thickening System - Polymer preparation system	256 388	28-Mar-23 A	29-Jun-24 29-Jun-24	151			
	Submit/Procure/Manufacture/Deliver Studge Trickening System - DOU-03	264	12-Apr-23A 7-Jul-23 A	7-Sep-24	151			
	Submit/Procure/Manufacture/Deliver Sludge Thickening System - MVAC	240	1-Feb-24	27-Sep-24	131			
nstream Bio-Re	actor							
E-230	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip AGSsystem	480	9-Sep-22A	20-Mar-25	-207			
	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip Penstocks and stoplogs		31-Oct-22 A	24-Jun-25	-176			
	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip Sludge pre-thickening system		31-Oct-22 A	8-Jan-25	-69			
	SubmitProcureManufacture/Deliver Main Stream Bio-Reactor E&M Equip Chemical storage and dosing system SubmitProcureManufacture/Deliver Main Stream Bio-Reactor E&M Equip Instrumentation	270 505	18-Nov-22 A 1-Feb-24	8-Jan-25 19-Jun-25	-136 -191			
	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&MEquip Instrumentation	241	1-Feb-24	28-Sep-24	-191			
	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip LALG	412		20-Mar-25	-207	li'		
iary Treatment						1		
	Submit/Procure/Manufacture/Deliver TTS Equip Pumping system	495	19-Jul-22A	8-Jan-25	-59			
	Submit/Procure/Manufacture/Deliver TTS Equip UV disinfection system	510	8-Sep-22A	8-Jan-25	-59	1		<u></u>
	SubmitProcure/Manufacture/Deliver TTS Equip Disc Filter		27-Sep-22 A	8-Jan-25	-59			
	Submit/Procure/Manufacture/Deliver TTS Equip Chemical cleaning system	480	18-Nov-22 A	8-Jan-25	-59	<u>.</u>		
	Submit/Procure/Manufacture/Deliver TTS Equip Penstocks and stoplogs Submit/Procure/Manufacture/Deliver TTS Equip LALG	435 151		8-Jan-25 8-Jan-25	-59			
	Submit/Procure/Manufacture/Deliver TTS Equip DOU-02	506	7-Sep-23A	26-Mar-25	-136			
ectrical and Con								
	- Submit/Procure/Manufacture/Deliver Electrial and Control System - SCADA and instrumentation	420	30-Apr-22 A	19-Mar-24	3		SubmitProcure/Manufacture/Deliver Electrial and Control System - SCADA and instumentation	
RE-640	Submit/Procure/Manufacture/Deliver Electrial and Control System - HVSB and Tx	283	21-Dec-22 A	3-Feb-24	-59		SubmitProcureManufacture/Deliver Electrial and Control System - HVSB and Tx	
RE-650	Submit/Procure/Manufacture/Deliver Electrial and Control System - LVSB	300	21-Dec-22 A	1-Feb-24	-136		ubmitiProcure/Manufacture/Deliver Electrial and Control System - LVSB	
	Submit/Procure/Manufacture/Deliver Electrial and Control System - UPS	300	21-Dec-22 A	7-Feb-24	-92		SubmitProcure/Manufacture/Deliver Electrial and Control System - UPS	
	Submit/Procure/Manufacture/Deliver Electrial and Control System - Aim our ed Cable	203	21-Dec-22 A	5-Mar-24	-28		SubmitProcure/Manufacture/Deliver Electrial and Control System - Armoured Cable	
atutory Submis SI, FSD and OP F	sion & Approval					4		
SI Submission & A				_		<u> </u>		
	Submission/Review/Approval by PM and FSD - Full GBP+GBP for TOP1 with DG - RtC & 4th submission	120	29-Dec-23 A	30-May-24	-212			Submission/Review/Approval by PM and FSD - Full GB
SD Submission	& Approval				1			
/SD-1010	NSD - Form WWO542 PM&WSD review and approval	90	10-Mar-22 A	29-Mar-24	-217		WSD - Form WWO542 PM&WSD reviewand approval	
	NSD - SubmitForm WWO46 Part 1 and 2	0		29-Mar-24	-217		WSD - SubmitForm WWO46 Part 1 and 2	
	NSD - Form WWO46 Part 1 and 2 PM&WSD review and approval	90	30-Mar-24	27-Jun-24	-217			WS
MSD Submission						4		
Phase 1	~ /							
	Form 105 for Biogas Holder Tank 1 (Submission and Approval Period)	184	8-Nov-22A	5-Apr-24	13		Form 105 for Biogas Holder Tank 1 (Submission and Approval Peric	ud)
	Approval for VEP							
PD-1000	EPD - VEP Review, prepare and submitto PM	60	24-May-23 A	10-Feb-24	115		EPD - VEP Review prepare and submit b PM	
PD-1010	EPD - VEP RtC to PMand approval	7	11-Feb-24	17-Feb-24	115		EPD - VEP RIC to PM and approval	
PD-1050	EPD - VEP consultation with HKBW	28	11-Feb-24	9-Mar-24	129		EPD - VEP consultation with HKBW	
	EPD - VEP Submission to DSD and EPD	28	18-Feb-24	16-Mar-24	115		EPD - VEP Submission to DSD and EPD	
	EPD - VEP RtC to DSD and EPD	7	17-Mar-24	23-Mar-24	115		EPD - VEP ArC to DSD and EPD EPD - VEP Gazette	
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	CLP Substation No.2 - CLP Installation (additional works due to CLP comment)	60	1-Nov-23A	29-Feb-24	-67		CLP Substation No 2 - CLP Instal tation (additional worksdue to CLP comment)	
P-1080	CLP Substation No.1 - Energization	0		29-Feb-24	-67		♦ CLP Substation No.1 - Energization	
P-1090		0		29-Feb-24	-67		CLP Substation No 2 - Energization	
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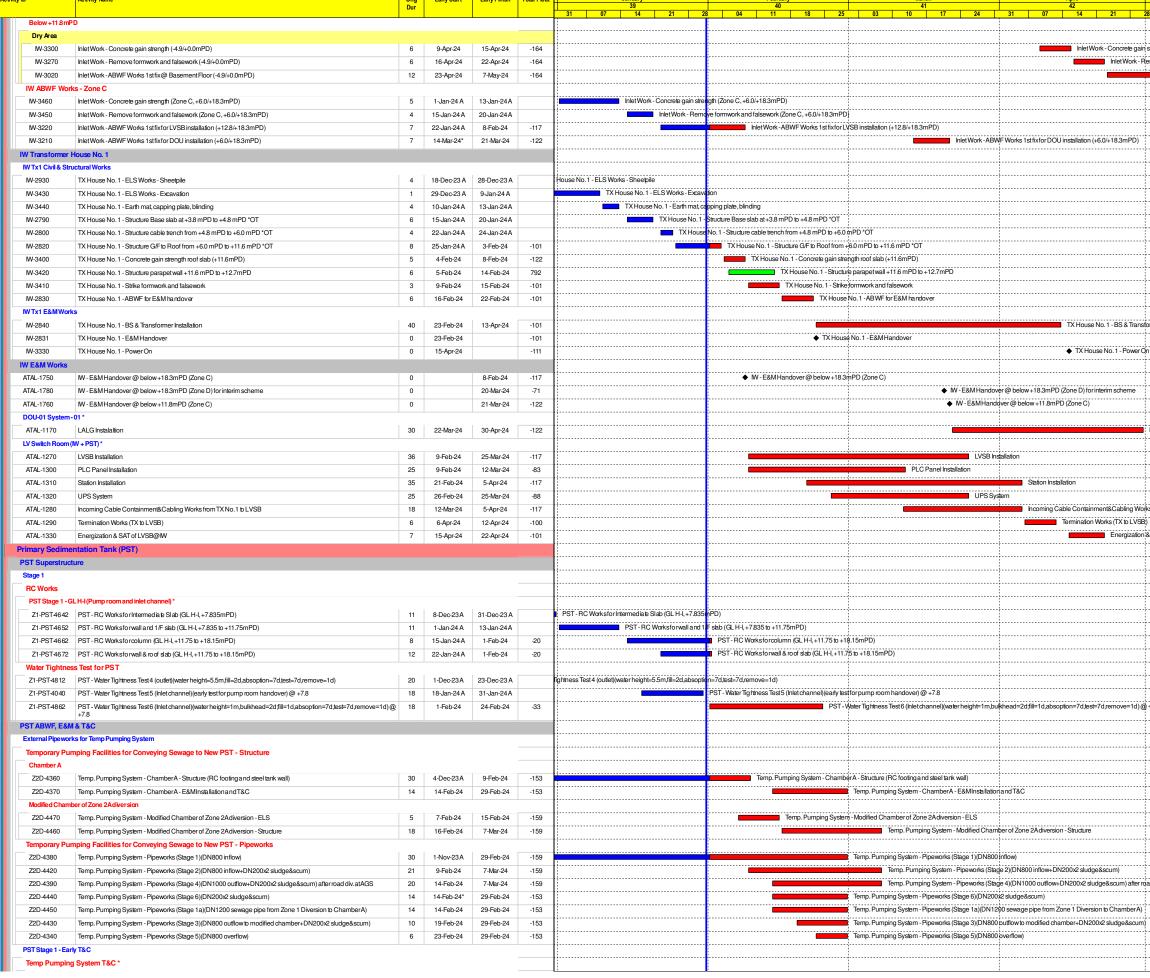


CLP-1600 CLP-3 Modification of Existin Emergency Byass Chr. W-3200 W - M W-1260 W - M W-3190 W - M W-3070 W - M W-3080 W - M W-3090 W - M M-3100 W - M Modification of Existin K-Istin Inlet Works (IW) W W Base Stab Z1-W-6090 Z1-W-6090 M-Z Z1-W-6600 W-Z Z1-W-6630 W-Z Z1-W-6630 W-Z Z1-W-6830 W-Z Z1-W-6830 W-Z	Modification of Existing Emergency Bypass Chamber - Excavation: FEL +1.0 to -0.9m PD (481 m3) ing Inspection Chamber & Inlet Effluent Pipes from NSWSPS lification of Existing Inspection Chamber - Sheet Piles Installation (1,020m2,40m2/day/tig, 1 rig) Works	60 75 3 21 5 6 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2-Feb-24 17-Feb-24* 22-Feb-24 22-Feb-24 22-Mar-24 2-Apr-24 10-Apr-24 19-Apr-24 29-Apr-24 29-Apr-24 29-Apr-24 29-Apr-24 10-Jan-24 10-Jan-24A 22-Jan-24A	19-Apr24 21-May-24 21-Feb-24 16-Mar-24 21-Mar-24 28-Mar-24 9-Apr-24 18-Apr-24 27-Apr-24 6-May-24 8-May-24 23-May-24 23-May-24 9-Jan-24 A 27-Jan-24 A	554 554 -195 -195 -238 -195 -195 -195 -195 -195 -123 -123		W-Modifice	W - Modification	CLP Substation Np.
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IW-3340 IW - M Emergency Bypass Chr. IW - M IW-3100 IW - M Modification of Existin M-1310 M-1310 Modification of Existin IM-1310 Modification of Existin IM Foundation & ELS V IM IW Foundation & ELS V IM IW Excavation Verks Z1-IW-6090 W-2c Z1-IW-6100 W-2c Z1-IW-6600 W-2c Z1-IW-6660 W-2c Z1-IW-6630 W-2c Z1-IW-6630 W-2c Z1-IW-6330 W-2c Z1-IW-6330 W-2c Z1-IW-6330 W-2c Z1-IW-6360 W-2c	Modification of Existing Emergency Bypass Chamber - Excavation: 3rd layer +1.0 to -2.0mPD (759m3) amber - Pipe laying Modification of Existing Emergency Bypass Chamber - Excavation: FEL +1.0 to -0.9m PD (481 m3) ing Inspection Chamber & Inlet Effluent Pipes from NSWSPS Iffication of Existing Inspection Chamber - SheetPiles Installation (1,020m2,40m2/day/rig, 1 rig) Works Sa & ELS Zone A - Pile Cap @-4.95mPD (1stpour) Zone A - Pile Cap @-5.90/4.95/3.95/0.55mPD (2nd pour) Zone D - Strutting: Remove knee stut of S3 strut (MS2-3) Zone D - Break mass concrete and blinding for Pile Cap @-1.65 (GL4-5 upper portion) Zone A - Pile Cap @-1.65 (GL4-5 upper portion) Zone A - Pile Cap @-1.65 (GL4-5 upper portion) *OT Zone A - Pile Cap @-1.65 (GL4-5 mpD (3rd pour)	6 8 21 12 12 3 6 6	29-Apr-24 29-Apr-24 27-Apr-24 14-Dec-23 A 10-Jan-24A 22-Jan-24 A	6-May-24 8-May-24 23-May-24 9-Jan-24 A	-195 -123				
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IW-3100 IW - M Modification of Existin M-1310 Modifi Inlet Works (IW) IW Foundation & ELS V W IW Foundation & ELS V W W IW Excavation Works W W IW Excavation Works W W IW Excavation Works W Z Z1-W-6090 W-Zd Z1-W-6710 W-Zd Z1-W-6830 W-Zd Z1-W-6830 W-Zd Z1-W-6660 W-Zd Z1-W-6660 W-Zd Z1-W-6830 W-Zd Z1-W-6830 W-Zd Z1-W-6830 W-Zd Z1-W-6830 W-Zd	Modification of Existing Emergency Bypass Chamber - Excavation: FEL +1.0 to -0.9m PD (481 m3) ing Inspection Chamber & Inlet Effluent Pipes from NSWSPS lification of Existing Inspection Chamber - Sheet Piles Installation (1,020m2,40m2/day/rig, 1 rig) Works Some A - Pile Cap @-4.95mPD (1stpour) Zone A - Pile Cap @-4.95mPD (1stpour) Zone A - Pile Cap @-5.90/4.95/3.95/0.55mPD (2nd pour) Zone D - Strutting: Remove knee srut of S3 strut (MS2-3) Zone D - Break mass concrete and blinding for Pile Cap @-1.65 (GL4-5 upper portion) Zone A - Pile Cap @-1.65 (GL4-5 upper portion) Zone A - Pile Cap @-1.65 (GL4-5 upper portion) *OT Zone A - Pile Cap @-1.65 (GL4-5 mpD (3rd pour)	12 12 3 6 6	27-Apr-24 14-Dec-23 A 10-Jan-24 A 22-Jan-24 A	23-May-24 9.Jan-24 A					
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M-1310 Modifi Inlet Works (IW) IW Foundation & ELS V IW Foundation & ELS V IW Basement IW Excavation Works IW Excavation Works Z1-W-6090 W-Zc Z1-W-6100 W-Zc Z1-W-6710 W-Zc Z1-W-660 W-Zc Z1-W-660 W-Zc Z1-W-660 W-Zc Z1-W-660 W-Zc Z1-W-6620 W-Zc Z1-W-6350 W-Zc Z1-W-6360 W-Zc <td>Ification of Existing Inspection Chamber - Sheet Piles Installation (1,020m2,40m2/day/tig, 1 rig) Works Sove A - Pile Cap @-4.95mPD (1stpour) Zone A - Pile Cap @-5.90/4.95/3.95/0.55mPD (2nd pour) Zone A - Pile Cap @-5.90/4.95/3.95/0.55mPD (2nd pour) Zone D - Strutting: Remove knee srut of S3 strut (MS2-3) Zone D - Break mass concrete and blinding for Pile Cap @-1.65 (GL4-5 upper portion) Zone A - Remove strut S4 and remaining S3 Zone D - Pile Cap @-1.65 (GL4-5 upper portion) *OT Zone A - Pile Cap @-4.90/-1.60/0.55mpD (3rd pour)</td> <td>12 12 3 6 6</td> <td>14-Dec-23 A 10-Jan-24A 22-Jan-24A</td> <td>9-Jan-24 A</td> <td>-190</td> <td></td> <td></td> <td></td> <td></td>	Ification of Existing Inspection Chamber - Sheet Piles Installation (1,020m2,40m2/day/tig, 1 rig) Works Sove A - Pile Cap @-4.95mPD (1stpour) Zone A - Pile Cap @-5.90/4.95/3.95/0.55mPD (2nd pour) Zone A - Pile Cap @-5.90/4.95/3.95/0.55mPD (2nd pour) Zone D - Strutting: Remove knee srut of S3 strut (MS2-3) Zone D - Break mass concrete and blinding for Pile Cap @-1.65 (GL4-5 upper portion) Zone A - Remove strut S4 and remaining S3 Zone D - Pile Cap @-1.65 (GL4-5 upper portion) *OT Zone A - Pile Cap @-4.90/-1.60/0.55mpD (3rd pour)	12 12 3 6 6	14-Dec-23 A 10-Jan-24A 22-Jan-24A	9-Jan-24 A	-190				
WW Foundation & ELS V IW Basement IW Excavation Works W Base Slab Z1-W-6090 W-Zc Z1-W-6100 W-Zc Z1-W-6710 W-Zc Z1-W-6830 W-Zc Z1-W-6600 W-Zc Z1-W-6600 W-Zc Z1-W-6600 W-Zc Z1-W-6630 W-Zc Z1-W-6630 W-Zc Z1-W-6350 W-Zc	s & ELS Zone A - Pile Cap @ 4.95mPD (1stpour) Zone A - Pile Cap @ -5.90(-4.95/-3.95/-0.55mPD (2nd pour) Zone D - Strutting: Remove knee srutof S3 strut (MS2-3) Zone D - Break mass concrete and blinding for Pile Cap @ -1.65 (GL4-5 upper portion) Zone A - Remove strut S4 and remaining S3 Zone D - Pile Cap @ -1.65 (GL4-5 upper portion) *OT Zone A - Pile Cap @ -4.90(-1.60(-0.55mpD (3rd pour)	12 3 6 6	10-Jan-24 A 22-Jan-24 A						
IW Excavation Works WBase Slab Z1-W-6090 W-Zc Z1-W-6100 W-Zc Z1-W-6710 W-Zc Z1-W-6830 W-Zc Z1-W-6600 W-Zc Z1-W-6600 W-Zc Z1-W-6600 W-Zc Z1-W-6620 W-Zc Z1-W-6350 W-Zc	Zone A - Pile Cap @ 4.95mPD (1stpour) Zone A - Pile Cap @ 5.90/4.95/3.95/0.55mPD (2nd pour) Zone D - Situting: Remove knee srutof S3 strut (MS2-3) Zone D - Break mass concrete and blinding for Pile Cap @ -1.65 (GL4-5 upper portion) Zone A - Remove strut S4 and remaining S3 Zone D - Pile Cap @ -1.65 (GL4-5 upper portion) *OT Zone A - Pile Cap @ -4.90/-1.60/-0.55mpD (3rd pour)	12 3 6 6	10-Jan-24 A 22-Jan-24 A						
W Base Stab Z1-W-6090 W-Zc Z1-W-6100 W-Zc Z1-W-6710 W-Zc Z1-W-6830 W-Zc Z1-W-6600 W-Zc Z1-W-6600 W-Zc Z1-W-6600 W-Zc Z1-W-6620 W-Zc Z1-W-6830 W-Zc Z1-W-6830 W-Zc	Zone A - Pile Cap @ 4.95mPD (1stpour) Zone A - Pile Cap @ 5.90/4.95/3.95/0.55mPD (2nd pour) Zone D - Situting: Remove knee srutof S3 strut (MS2-3) Zone D - Break mass concrete and blinding for Pile Cap @ -1.65 (GL4-5 upper portion) Zone A - Remove strut S4 and remaining S3 Zone D - Pile Cap @ -1.65 (GL4-5 upper portion) *OT Zone A - Pile Cap @ -4.90/-1.60/-0.55mpD (3rd pour)	12 3 6 6	10-Jan-24 A 22-Jan-24 A						
Z1-W-6090 W-Zc Z1-W-6100 W-Zc Z1-W-6710 W-Zc Z1-W-6830 W-Zc Z1-W-6660 W-Zc Z1-W-6620 W-Zc Z1-W-6830 W-Zc Z1-W-6620 W-Zc Z1-W-6830 W-Zc	Zone A - Pile Cap @-590/4.95/3.95/0.55mPD (2nd pour) Zone D - Strutting: Remove knee srut of S3 strut (MS2-3) Zone D - Break mass concrete and blinding for Pile Cap @-1.65 (GL4-5 upper portion) Zone A - Remove strut S4 and remaining S3 Zone D - Pile Cap @-1.65 (GL4-5 upper portion) *OT Zone A - Pile Cap @-4.90/-1.60/-0.55mpD (3rd pour)	12 3 6 6	10-Jan-24 A 22-Jan-24 A				*2011)		
Z1-W-6100 W-2x Z1-W-6710 W-2x Z1-W-6830 W-2x Z1-W-6660 W-2x Z1-W-6620 W-2x Z1-W-6630 W-2x Z1-W-6630 W-2x	Zone A - Pile Cap @-590/4.95/3.95/0.55mPD (2nd pour) Zone D - Strutting: Remove knee srut of S3 strut (MS2-3) Zone D - Break mass concrete and blinding for Pile Cap @-1.65 (GL4-5 upper portion) Zone A - Remove strut S4 and remaining S3 Zone D - Pile Cap @-1.65 (GL4-5 upper portion) *OT Zone A - Pile Cap @-4.90/-1.60/-0.55mpD (3rd pour)	12 3 6 6	10-Jan-24 A 22-Jan-24 A				thour)	1	
Z1-W-6710 W-20 Z1-W-6830 W-20 Z1-W-6660 W-20 Z1-W-6620 W-20 Z1-W-6350 W-20 Z1-W-6350 W-20	Zone D - Strutting: Remove knee srutof S3 strut (MS2-3) Zone D - Break mass concrete and blinding for Pile Cap @-1.65 (GL4-5 upper portion) Zone A - Remove strut S4 and remaining S3 Zone D - Pile Cap @-1.65 (GL4-5 upper portion) *OT Zone A - Pile Cap @-4.90/-1.60/-0.55mpD (3rd pour)	3 6 6	22-Jan-24 A	27-Jan-24 A		W- Zone A - Pile Cap @-4.95mPD (1			
Z1-W-6830 M-Zc Z1-W-66600 M-Zc Z1-W-66200 M-Zc Z1-W-63500 M-Zc Z1-W-63500 M-Zc	Zone D - Break mass concrete and blinding for Pile Cap @-1.65 (GL4-5 upper portion) Zone A - Remove strut S4 and remaining S3 Zone D - Pile Cap @-1.65 (GL4-5 upper portion) *OT Zone A - Pile Cap @-4.90/-1.60/-0.55mpD (3rd pour)	6				IW-2	one A - Pile Cap @-5.90/4.95/-3.95/-0.55mPD (2nd p		
Z1-W-6660 W-Zc Z1-W-6620 W-Zc Z1-W-6350 W-Zc Z1-W-6360 W-Zc	Zone A - Remove strut S4 and remaining S3 Zone D - Pile Cap @-1.65 (GL 4-5 upper portion) *OT Zone A - Pile Cap @-4.90/-1.60/-0.55mpD (3rd pour)	6	27 lon 044	27-Jan-24A	105	IW-2	one D - Strutting: Remove knee srut of S3 strut (MS2-		
Z1-W-6620 W-Zc Z1-W-6350 W-Zc Z1-W-6360 W-Zc	Zone D - Pile Cap @-1.65 (GL4-5 upper portion) *OT Zone A - Pile Cap @-4.90/-1.60/-0.55mpD (3rd pour)		27-Jan-24 A 31-Jan-24 A	1-Feb-24 3-Feb-24	-135 -217		W-Zone D - Break mass concrete and blinding f	<u>i</u>	
Z1-W-6350 W-Zo Z1-W-6360 W-Zo	Zone A - Pile Cap @-4.90/-1.60/-0.55mpD (3rd pour)	6	2-Feb-24	8-Feb-24	-135		W-Zone D - Pile Cap @-1.65 (GL4-		
Z1-IW-6360 IW-Zo		8	5-Feb-24	16-Feb-24	-217			@-4.90/-1.60/-0.55mpD (3rd pour)	
		10	17-Feb-24	28-Feb-24	-217			W-Zone A - Pile Cap @-1.60/-0.05mpD (4th pour)	
	Zone A - Pile Cap @-0.55mpD (5th pour)	10	29-Feb-24	11-Mar-24	-217			IW- Zone A - Pile Cap @-0.55mpD	(5th pour)
IW Basement RC Wor	orks								
IW Zone C									
	C) - Zone C3 - Strutting: Remove S1 & S2 strut (MS3-1 & MS3-2) at GL4	3	7-Feb-24	9-Feb-24	-122			ve S1 & S2 strut (MS3-1 & MS3-2) at GL4	
	C) - Zone C3 - Wal & Column, G/F Slab of False works, Form works and R C Works (+6.00 mPD)	9	14-Feb-24	23-Feb-24	-122		IW(C)-Z	Zone C3 - Wall & Column, G/F Slab of Falseworks, Formwo	orks and R C Works (+6.00 mPD)
	STearly commissioning*	4	9-Feb-24	16-Feb-24	-135		M/D) - Wall Erection (of Formworks and RC Works (-1.6 to +4.95mPD) *OT	
W Zone A/D	 Wall Election of Formworks and RC Works (-1.6 to +4.95mPD) *OT 	4	9-1-60-24	10-Fe0-24	-135				
	VD) - Remove S1 (after road lowering to +4mPD)	4	1-Feb-24	5-Feb-24	-182		W(A/D) - Remove S1 (after road lowering	(0 +4mPD)	
	VD) - Wal Erecton of Form works and RC Works (-0.55 to +3.5 mPD) with S2 cast-in	8	12-Mar-24	20-Mar-24	-217		, , , , , , , , , , , , , , , , ,	· · · · · · · · · · · · · · · · · · ·	tion of Form works and RC Works (-0.55 to +3.5 mPD) wit
	VD) - G/F Slab of Falseworks, Formworks and RC Works (+3.95/+4.95 mPD)	12	21-Mar-24	8-Apr-24	-217				IW(A/D) - G/F Slab of Falseworks, Formw
Z1-IW-6460 IW(D)	0) - G/F Slab of Falseworks, Formworks and RC Works (+3.95/+4.95 mPD) after S1 remove	12	21-Mar-24	8-Apr-24	-217				IW(D) - G/F Slab of Falseworks, Formwork
Z1-IW-6770 IW(A/	VD) - Remove formwork, concrete defect works	8	9-Apr-24	17-Apr-24	-190				W(A/D) - Remove form
Z1-IW-6780 IW(A/	VD) - Wate rproof, remove S2 and concrete backfil	8	18-Apr-24	26-Apr-24	-190				W(A/D)
Water Tightness Test									
	- Concrete develop strength (IW Zone A +4.95 slab)	7	9-Apr-24	16-Apr-24	-215				IWB - Concrete develop st
	- Strike formwork and make good for water tightness test	7	17-Apr-24	24-Apr-24	-215				WB-Strike
	Remove falsework and backprops Water Tightness Test Phase 1	4 18	20-Apr-24	24-Apr-24	-213				WB-Remo
IW Civil and Structural		10	25-Apr-24	17-May-24	-215				
IW Superstructure									
RC Works									
Zone C									
Zone C1									
	(C) - Zone C1 - Column Erection of Formworks and RC Works (+18.2mPD)	8	30-Nov-23 A	30-Dec-23 A		WS (C) - Zone C1 - Column Erection of Formworks and			
	(C) - Zone C1 - Wall (+11.8 to +18.2) & Roof Slab of Falseworks, Formworks and RC Works (+18.2m PD)	10	30-Nov-23 A	30-Dec-23 A		WS (C) - Zone C1 - Wall (+11.8 to +18.2) & Roof Slab of	Falseworks, Formworks and RC Works (+18.2m PD)		
Zone C2							01 400 PD) 17 00		
	(C) - Zone C2 - Remove external falsework (+6 to +182mPD) at Zone C2	3	25-Dec-23 A	3-Jan-24 A		WS (C) - Zone C2 - Remove external falsework (6 10 + 18.2mPD) at Zone C2		
Zone C3 Z1-W-6740 WS (0	(C) - Zone C3 - Wall & Column (+6 b +11.8) & 1/F Slab of Falseworks, Formworks and RC Works (+11.8m PD)	8	24-Feb-24	4-Mar-24	-122			MS (C) - Zone C3 - Wall & Column (+6 to +11.8	& 1/F Slab of Falseworks, Formworks and RC Works (+1
	(C)-Zone C3 - Wall & Column (+11.8 to +18.2) & Roof Slab of Falseworks, Formworks and RC Works (+18.2mPD)	8	5-Mar-24	13-Mar-24	-122			· · · · · · · · · · · · · · · · · · ·	mn (+11.8 to +18.2) & Roof Slab of Falseworks, Formwor
Zone D	(D), Wal Frantish of Formworks and BC Weeks (.7.94/.9.2000) *OT	4	17-Feb-24	21 Eab 24	.195		M/S (D) - 144	all Erection of Formworks and RC Works (+7.84/+8.2mPD	*OT
	(D) - Wal Erecton of Form works and RC Works (+7.84/+8.2mPD) *OT (D) - Intermediate Slab of Falseworks, Formworks and RC Works(+7.84/+8.2mPD)	4	17-Feb-24 22-Feb-24	21-Feb-24 1-Mar-24	-135 -135		1993 (D) - We	WS (D) - Intermediate Slab of Falseworks, Formworks	
	(D)-Wal Erecton of Formworks and RC Works (+11.8mPD) *OT	4	2-Mar-24	6-Mar-24	-135			MS (D) - Wal Erection of Formworks and Re	·
	(D) - Wall Erecton of Form works and RC Works (+18.2mPD) *OT	4	7-Mar-24	11-Mar-24	-135			IWS (D) - Wall Erection of Form work	
	(D) - Roof Slab of Falseworks, Formworks and RC Works (+182mPD)	8	12-Mar-24	20-Mar-24	-135			IWS (D) - Roof Sla	o of Falseworks, Formworks and RC Works (+18.2mPD)
Zone A]	
Z1-IW-4145 IWS (A	(A) - Wall Erection of Formworks and RC Works (+7.84/+8.2mPD)	8	9-Apr-24	17-Apr-24	-217				IWS (A) - Wall Erection o
	(A) - Intermediate Slab of Falseworks, Formworks and RC Works(+7.84/+8.2mPD)	14	18-Apr-24	4-May-24	-217				
IW ABWF Works									
IW ABWF Works 1st fix fo									
IW ABWF Works - Zon									



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05	43 12 KV Switchgear - Gf	19	26	02	09	44	16	23		45 30 07
& 2 & DSD111	KV Switchgear - GI	RC claddin	g - fabrica	tion	DSD11KV	Suitch-			1	
		GLPS	oustation	NU.1 & 2 8	1KV	Switchg	ear-GRC	ciadding	instal	a0011
(1,283m2,60m	n2/day/rig, 1 rig)									
xcavation:1stla	ayer +4.5 to +3.5ml	PD (253m?	3)							
Bypass Charr	nber - Strut installati	on @ +4.0	mPD							
sting Emergen	cy Bypass Chamb	er-Excava	tion:2nd la	ayer +3.5 t	o +1.0mPD	(633m3)			
odification of E	xisting Emergency Modification of Exis	Bypass Cl	namber - S	Strutinstalla	ation @ +1.5	imPD				·00)
IW-I	wodification of Exis	ang Emerg	jency Byp	ass Cham	iber - Excava	ation: 3rc	1 ayer +1.0	u to -2.0mF	יט (75	9m3)
N	W - Modification of	Existing En	nergency	Bypass Ch	namber - Exc	avation	FEL+1.0	to -0.9m Pl	D (481	m3)
		Mc	dification	of Existing	Inspection C	Chambe	r - SheetF	Piles Install	ation (1,020m2,40n
									Ť	
n S2 cast-in										
	/orks (+3.95/+4.95	mPD)								
	rks (+3.95/+4.95 m		1 remove							
vork, concrete c										
-Waterproof,re	emove S2 and cor	iciete back	fil							
rength (IW Zon	ie A +4.95 slab)									
	make good for wat	ertightnes	s test							
ove falsework a	and backprops									
	W	B-WaterTi	ghtnessT	estPhase	1					
									÷	
1.0m DD)										
1.8m PD) ksand RC Wo	orks (+ 18.2mPD)									
f Formworks an	nd RC Works (+7.8	4/+8.2mPE	D)							
WS (A)	- Intermediate Slab	of Falsew	orks, Form	works and	RC Works	+7.84/+8	3.2mPD)		j	
		Mo	onthly	Progr	ess R	epor	t - 3M	RP		
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b 06 06 move formwork an interv	May 43 12 19 PD) dfalsework (-4.9/+0.0m fork - ABWF Works 1stt	PD)	ent Floor (4.9/+0.0mPD	June 44 16 22	Uuty 45 30 07
move formwork an	PD) dfalsework (-4.9/+0.0m fork - ABWF Works 1st	iPD) fix@Basem	ent Floor (4.9/40.0mPD		
move formwork an interv	PD) d falsework (-4.9/+0.0m fork - ABWF Works 1st	iPD) fix@Basem	ent Floor (4.9/40.0mPD		
merinstaliation	or halework (-4.9/+UUm lonk -ABWF Works 1st	ix@Basem	ent Floor (4.9/40.0mPC		
merinstaliation					
ALG instalation					
ALG Instalation					
ALG Instalation			:		
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Activ	vity ID	Activity Name	Orig	Early Start	Early Finish	Total Float	January	February	March	April
			Dur				39 31 07 14 21 2	40 8 04 11 18 23	41 5 03 10 17 24	42 31 07 14 21 28
		PST Stage 1 - Temp T&C for Decommision of Existing PST 1 Reliability&Performance Test (Sewage)	14	16-Mar-24	29-Mar-24	-204			F	ST Stage 1 - Temp T&C for Decommision of Existing P\$1
	PST Stage 1									
	PST Stage 1 - A									
	PST1-3, Outlet c	nannei								
		PST Stage 1 - Lining at PST2	5	30-Nov-23 A	5-Dec-23A					
	Outlet			0011012074	5 DCC 20A					
		PST Stage 1 - Construct temporary wall with puddle	14	14-Feb-24	29-Feb-24	-165			PST Stage 1 - Construct temporary wall with puddle	
		PST Stage 1 - Screeding and Lining atoutletchannel	12	1-Mar-24	14-Mar-24	-165				Lining atoutletchannel
	GLA-H above +		l							
	PST-3135	PST Stage 1 - ABWF Works (wall render:spray=1d,let-dry=5d) at +11.8/+18.15mPD	6	1-Feb-24	7-Feb-24	61		PST Stage 1 - ABWF Works (wall rer	iderspray=1d,let-dry=5d) at +11.8/+18.15mPD	
	PST-3165	PST Stage 1 - ABWF Works (wall plaster3coats) at +11.8/+18.15mPD	2	8-Feb-24	9-Feb-24	61		PST Stage 1 - ABWF Works (wal	Iplaster:3coats) at +11.8/+18.15mPD	
	PST-3175	PST Stage 1 - ABWF Works (floor screeding) at +11.8/+18.15mPD	3	14-Feb-24	16-Feb-24	61			FWorks (floor screeding) at +11.8/+18.15mPD	
	PST-3185	PST Stage 1 - ABWF Works (floor coating 3 coats) at +11.8/+18.15mPD	3	17-Feb-24	20-Feb-24	61		PST Stage 1	- ABWF Works (floor coating 3coats) at +11.8/+18.15mPD	
	Inlet channel*									
	PST-3145	PST Stage 1 - Lining at inlet channel (surface prep=1d,install=2d,testing=1d,clearance=2d)*	6	26-Feb-24	2-Mar-24	-33			PST Stage 1 - Lining at inlet channel (surface prep	1d,install=2d,testing=1d,clearance=2d)*
	Pump room *									
	PST-3205	PST Stage 1 - Concrete gain strength (+7.835 slab)	7	1-Jan-24 A	7-Jan-24 A	40	PST Stage 1 - Concrete gain strength (+7.8			
	PST-3375	PST Stage 1 - Strike formwork and falswork	6	1-Feb-24	7-Feb-24	-49		PST Stage 1 - Strike formwork and fa		ļ
		PST Stage 1 - Site clearance for handover	2	8-Feb-24	9-Feb-24	-49				
		2&M Installation Works , PST 1-3, Outlet Channel)								
		PST Stage 1 - E&MHandover@ below +11.8mPD (PST2)	0	6-Dec-23A			8mPD (PST2)			
		PST Stage 1 - E&MHandover@below+11.8mPD (PST3)	0	6-Dec-23A			8mPD (PST3)			
		PST Stage 1 - E&MHandover@ below +11.8mPD (outlet)	0	3-Jan-24 A			PST Stage 1 - E&M Handover @ below+11.8mP	D (outlet)		
		& Installation Works at Setting Zone (PST 1-3)								
	PST1									
	PST 1 - Inclin	ed Plate Settling System								L
	ATALPST-5	PST Stage 1 - PST1 - Installation of Lamella support beam pre-assembled	44	16-Nov-23 A	9-Feb-24	-166		PST Stage 1 - PST1 - Installation	of Lamella support beam, pre-assembled module (16 nos.)	Flume(96nos.),plate(1152nos.)
	ATAL PST-	module(16nos),Flume(96nos),plate(1152nos.) PST Stage 1 - PST1 - Air Scouring Pipe and Nozzle Installation dw pressure test& inspection	18	2-Feb-24	26-Feb-24	-157		P	ST Stage 1 - PST1 - Air Scouring Pipe and Nozzle Installat	on o/w pressure test & inspection
		PST Stage 1 - PST1 - Installation of removable walkway at +92mPD	7	16-Mar-24	23-Mar-24	1083				-PST1 - Installation of removable walkway at +9.2mPD
		PST Stage 1 - PST1 - Water Spray Pipe and Nozzle Installation of pressure test & inspection	18	25-Mar-24	18-Apr-24	1087				PST Stage 1 - PST 1
		m Scraper System			·					
		PST Stage 1 - PST1 - Installation of bottom scraper frame, link arm and drive unit, leveling and inspection *OT works	20	14-Feb-24	7-Mar-24	-166			PST Stage 1 - PST1 - Installation of botton	scraper frame, link arm and drive unit, leveling and inspe
					1514	100				
		PST Stage 1 - PST1 - Wet Test (Fresh water) (7d) using temporary power Collection System	7	8-Mar-24	15-Mar-24	-166				lest (Fresh water) (7d) using temporary power
		PORECION System PST Stage 1 - PST1 - Scum Scraper,Scum Collection Pipe & All other process pipework at inspection platform level *OT	20	14-Feb-24	7-Mar-24	-166			PST Stage 1 - PST1 - Soum Scraper Sour	n Collection Pipe & All other process pipework at inspection
	AIAEI 31-3-	1 ST Slage 1-1 ST 1-South Sclape, South Olieculon tipe & All other process pipework attrispection plation never ST	20	14-1 60-24	/ -ividi -2-4	-100				
		pressors, Air blowers c./w associated fittings								
	ATALPST-54	PST Stage 1 - PST1 - All other process pipes above 11.8 mPD including DO Pipes, Plant Service Water Pipes, Air Pipe	32	14-Feb-24	21-Mar-24	-13			PST Stage 1 - P	ST1 - All other process pipes above 11.8 mPD including [
	PST2									
	PST 2 - Inclin	ed Plate Settling System								*
	ATALPST-6	PST Stage 1 - PST2 - Installation of Lamella support beam pre-assembled	42	16-Jan-24 A	1-Mar-24	-51			PST Stage 1 - PST2 - Installation of Lamella support	beam,pre-assembled module(16nos.),Flume(96nos.),pla
	PST-3355	module(16nos),Flume(96nos),plate(1152nos.) PST Stage 1 - PST2 Installation of removable walkway at +92mPD	7	2-Mar-24	9-Mar-24	-51			PST Stage 1 - PST2 Installation of rem	ovable walkway at +9.2mPD
		PST Stage 1 - PST2 - Air Scouring Pipe and Nozzle Installation of w pressure test & inspection	18	11-Mar-24	3-Apr-24	-22				
		PST Stage 1 - PST2 - Water Spray Pipe and Nozzle Installation of w pressure test & inspection	18	11-Mar-24	3-Apr-24	-22				PST Stage 1 - PST2 - Water Spray Pipe and Noz
		m Scraper System								
		PST Stage 1 - PST2 - Installation of bottom scraper frame, link arm and drive unit, leveling and inspection	45	11-Mar-24	7-May-24	-49				
	PST2-Scun	n Collection System							-	·
	ATALPST-6	PST Stage 1 - PST2 - Scum Scraper,Scum Collection Pipe & All other process pipework at inspection platform level	26	11-Mar-24	13-Apr-24	-30				PST Stage 1 - PST2 - Scum Sc
	PST2.Com	pressors , Air blowers c /w associated fittings								
		PESSURS FAIL DURIES UN ASSOCIATED IN 1999 PST Stage 1 - PST2 - All other process pipes above 11.8 mPD including DO Pipes, Plant Service Water Pipes, Air Pipe	26	2-Mar-24	5-Apr-24	-23				PST Stage 1 - PST2 - All other process pipes a
					*					
	PST3									
		ed Plate Settling System				-				
	AIALPS1-6	PST Stage 1 - PST3 - Installation of Lamella support beam pre-assembled module(16nos.),Flume(96nos.),plate(1152nos.)	45	19-Dec-23 A	9-Feb-24	-8		PST Stage 1 - PST3 - Installation	of Lamella support beam, pre-assembled module (16 nos.)	,Hume(96nos.),plate(1152nos.)
	PST-3335	PST Stage 1 - PST3 Installation of removable walkway at +9.2mPD	7	1-Feb-24	8-Feb-24	-2		PST Stage 1 - PST3 Installation of		
	ATALPST-{	PST Stage 1 - PST3 - Water Spray Pipe and Nozzle Installation c/w pressure test & inspection	15	9-Feb-24	29-Feb-24	-2			PST Stage 1 - PST3 - Water Spray Pipe and Nozzle In	stallation c/w pressure test & inspection
	ATALPST-{	PST Stage 1 - PST3 - Air Scouring Pipe and Nozzle Installation c/w pressure test & inspection	18	14-Feb-24	5-Mar-24	-6			PST Stage 1 - PST3 - Air Scouring Pipe and I	Nozzle Installation c/w pressure test & inspection
		m Scraper System								
		PST Stage 1 - PST3 - Installation of bottom scraper frame, link arm and drive unit, leveling and inspection	20	14-Feb-24	7-Mar-24	-8				scraper frame, link arm and drive unit, leveling and inspe
		PST Stage 1 - PST3 WetTest (Fresh water) (7d)	7	8-Mar-24	15-Mar-24	-8			PST Stage 1 - PST3 WetTe	
		Collection System		4451.04	714 04				DCT Chap 1, DCT2, Court Compare	Collection Pine & All other process singural stingnest
	AIALPST-6	PST Stage 1 - PST3 - Scum Scraper, Scum Collection Pipe & All other process pipework at inspection platform level	20	14-Feb-24	7-Mar-24	-8			F31 Stage 1 - P313 - Scum Scraper,Scur	n Collection Pipe & All other process pipework at inspection
	PST3-Com	pressors, Air blowers c/w associated fittings								
	ATALPST-6	PST Stage 1 - PST3 - All other process pipes above 11.8 mPD including DO Pipes, Plant Service Water Pipes, Air Pipe	30	14-Feb-24	19-Mar-24	-11			PST Stage 1 - PST	All other process pipes above 11.8 mPD including DO
	PSTStage 1 - C	utiet Channel				1				
		PST Stage 1 - Unloading of Stoplogs&Penstocks x23 Nos	8	3-Jan-24 A	5-Jan-24 A		PST Stage 1 - Unloading of Stoplogs&Penst	cks x23 Nos		
		PST Stage 1 - Installation of Stoplogs/Penstocks x23 Nos	30	5-Jan-24 A	29-Feb-24	-165			PST Stage 1 - Installation of Stoplogs/Penstocks x23 N	bs
		PST Stage 1 - Leakage test - Combining Stoplogs/Penstocks	18	23-Feb-24	14-Mar-24	-165				Combining Stoplogs/Penstocks
	1 1 I <mark>-</mark>					1		•		



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Contract DC/2019/10 - YLEPP - Main Works for Stage 1 Monthly Progress Report No. 39- 3MRP (Jan 24)

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05	43 12 19	26	02	4 4	4	23	45 30 07
1 Reliability&P	Performance Test (Sewage)						
Water Spray P	ipe and Nozzle Installation c/w	/pressure	test & inspection				
ction *OT works	5						
n platform leve	l *OT						
O Pipes, Plant	Service Water Pipes, Air Pipe						
te(1152nos.)							
	w pressure test & inspection						
de Installation c	w pressure test & inspection						
PS	ST Stage 1 - PST2 - Installation	n of bottom	scraper frame.	ink arm and	d drive unit, level	ing and ins	ection
aper,Scum Co	llection Pipe & All other proces	ss pipewoi	k at inspection p	latform leve	əl		
bove 11.8 mPI	D including DO Pipes, Plant Se	ervice Wat	er Pipes, Air Pipe)			
ction							
n platform leve							
1pes, Plant Se	rvice Water Pipes, Air Pipe						
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Image: Problem State Stat	Phase 2 (GL H	I, (Inlet Channel, Pump Room) Handover for PST early commissioning *				31 0/ 14 21 ;	28 04 11 18 25 03 10 17 24	<u>31 07 14 21 28</u>
IImageImageImageImageImageImageImageImageImageNote			2-Feb	24	-5		♦ PST Stage 1 - E&M Handover +11.75mPD & above (GLH-↓Inlet channel)	++
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Second Control Control Control 				-			• • • • • • • • • • • • • • • • • • • •	,
FXX The index inde			6 4-Mar	24 9-Mar	.24 .33		PST State 1 - Unloading of Stophos	& Penstocks x 14 Nos
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International sectorInternational sectorInternational sectorInternational sectorInternational sectorHigher LandsonInternational sectorInternational sectorInternational secto								PST Stage 1 - Installation of Stoplogs X9 Nos.(50/no
Note:Note:Note:Note:Not: <t< td=""><td>ATALPST-55</td><td>PST Stage 1 - Channel Aeration System installation 3</td><td>0 4-Mar</td><td>24 11-Ap</td><td>-24 -27</td><td></td><td></td><td>PST Stage 1 - Channel Aeration Sy</td></t<>	ATALPST-55	PST Stage 1 - Channel Aeration System installation 3	0 4-Mar	24 11-Ap	-24 -27			PST Stage 1 - Channel Aeration Sy
Note:	ATALPST-55	PST Stage 1 - Inspection & Grouting of Stoplogs x9 Nos. 1	4 16-Ma	-24 5-Apr	-24 -29			PST Stage 1 - Inspection & Grouting of Stoplo
Net:Ne	ATALPST-55	PST Stage 1 - Inspection & Grouting of Penstocks x5 Nos 1	1 25-Ma	-24 10-Ap	-24 -33			PST Stage 1 - Inspection & Grouting
NoteNo	ATALPST-55	PST Stage 1 - Leakage test - Combining Stoplogs/Penstocks 1	4 2-Apr	24 18-Ap	-24 -33			PST Stage 1 - Leakag
Image: Solution of the second of the seco	PSTStage 1	Pump Room*						
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No.No	ATALPST-56	PST Stage 1 - PSTDrainage Pipe 2	5 1-Mar	24 2-Apr	24 -49			PST Stage 1 - PST Drain ag e Pipe
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Image: Control (CP) C								
	ATALPST-67	70 PST Stage 1 - GLH-I-All other process pipes above 11.8 mPD including DO Pipes, Plant Service Water Pipes, Air Pipe	1 2-Feb	24 12-Ma	r-24 -5		PST Stage 1 - GLH-I-All other p	process pipes above 11.8 mPD including DO Pipes, Plant
Prove Pr	PST Stage 1	Electrical Works (PST 1-3, Inlet/Outlet Channel&Pump Room)						
Image: Section Sectin Sectin Section Section Section Section Section Section Section			2 21_Ma	-24 8-407	24			PST Stage 1 - Cable Containment Insta
Processor Visual 2004 Visual								PST Stage 1
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Processor Processor <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
Probe Prob Prob<			2 16-Ap	-24 29-Ap	-24 -49			P
Products Produ	PSTStage 1	Instrumentation & SCADAWorks (PST 1-3, Inlet/Outlet Channel & Pump Room)						
Image: Status 0	ATALPST-57	PST Stage 1 - Cable Containment Installation - LVSB@IW to Equipment 1	2 21-Ma	-24 8-Apr	-24 -70			PST Stage 1 - Cable Containment Instal
Vertical	ATALPST-57	PST Stage 1 - Instrument Installation & Inspection 1	2 3-Apr	24 17-Ap	-24 -9			PST Stage 1 - Instrume
Pittige 1:102 UV04 Fittige	ATALPST-57	PST Stage 1 - Cabling Works 1	2 9-Apr	24 22-Ap	-24 -70	1		PST Stage 1
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University of the standard instruction of the standard instructin of the standard instructin of the standard instructin	ATALPST-58	PST Stage 1 - Electrical - Megger Test 1	2 16-Ap	-24 29-Ap	-24 -49			P
Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>	External Works	Inlet Work and Primary Sedimentation Tank Perimeter						
Public NUCL Number Sum Adv Hala and maximum 400 No. 200-002.0 No. 2	IWPST External	Vorks - Zone A (Transformer House No.1)						
No.100 WATCH Transact Zouklik HVULVE Valuely 6 550-024 750-04 0 BV170 WATCH Transact Zouklik IndUCINVE Tail 6 1640-02 1660-02 BV170 WATCH Transact Zouklik IndUCINVE Tail 6 1640-02 1660-02 BV170 WATCH Transact Zouklik IndUCINVE Tail 6 1640-02 1660-02 BV170 BV170 1660-02 260-02 260-02 1660-02 BV170 BV170 160-02 260	Stage 1 (KD3)							
Weig Weig <th< td=""><td>EW-1610</td><td>W/PST Perimeter - Zone A&B - Haul road formation at+4mPD</td><td>6 8-Dec-</td><td>3A 23-Dec</td><td>23 A</td><td>imeter - Zone A&B - Haul road formation at +4mPD</td><td></td><td></td></th<>	EW-1610	W/PST Perimeter - Zone A&B - Haul road formation at+4mPD	6 8-Dec-	3A 23-Dec	23 A	imeter - Zone A&B - Haul road formation at +4mPD		
Weig Weig <th< td=""><td>EW-1570</td><td>W/PST Perimeter - Zone A&B - HV/LV/ELV ducting</td><td>6 25-Dec</td><td>23 A 7-Feb</td><td>-24 -57</td><td></td><td>W/PST Perimeter - Zone A&B - HV/LV/ELV ducting</td><td></td></th<>	EW-1570	W/PST Perimeter - Zone A&B - HV/LV/ELV ducting	6 25-Dec	23 A 7-Feb	-24 -57		W/PST Perimeter - Zone A&B - HV/LV/ELV ducting	
Stable Seventing Building (Stable) Unit Provide Stable Stable SDB Fordination (E Stable Stable) SDB Fordination (E Stable Stable) SDB Fordination (E Stable Stable) SDB Fordination (E Stable Stable Stable) SDB Fordination (E Stable Stabl	EW-1710							
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SDP-Interviews for Forundation Volu Status St								
Description of Linking PS11, 2, 1 See Table 2								
SQB: Transplerence and ULD December and december year wear wear and ULD December and year and ULD December and year								
Be-House, Datason, Bray Factors House								
Develop of Linking PS1 United State pS14 United State pS14 SDB Exploy any plant strugthering works for state ideak formad develops an AGS Zane C 8 10.4m 24. 29.4m 24.4 199 SDB Exploy any plant strugthering works for state ideak formad develops an AGS Zane C 1 0.4m 24.4 199 508 Exploy any plant strugthering works for state ideak formad develops an AGS Zane C SDB Exploy any plant strugthering works for state ideak formad develops an AGS Zane C 1 0.4m 24.4 199 508 Exploy any plant strugthering works for state ideak formad develops an AGS Zane C SDB Exploy any plant strugthering works for state ideak formad develops and AGS Zane C 1 146 Exploy 24.4 199 SDB Exploy any plant strugthering works for state ideak formad develops and AGS Zane C 1 146 Exploy 24.4 141 SDB Exploy any plant strugthering works for state ideak formad develops and AGS Zane C 1 146 Exploy 24.4 141 SDB Exploy 16.4 SDB Exploy and works AGS Zane C 1 146 Exploy 24.4 141 SDB Exploy 16.4				·		!		
SD2 SD2 Popple latinghening undat forstend decision al AGS Zunc C 1 0.4.m.24. 2.9.m.24. 100 SD5 SD5 <td>SDB-1000</td> <td>Site Hoarding, Clearance, Temp Facilities 1</td> <td>8 18-Ap</td> <td>-24 9-May</td> <td>-24 625</td> <td> </td> <td></td> <td></td>	SDB-1000	Site Hoarding, Clearance, Temp Facilities 1	8 18-Ap	-24 9-May	-24 625			
SDB 20200 SDB Extends of set dated, dors ad diversion al/GB Zine C 12 30 Jun 24A 6 Feb 24 150 SDB 20200 SDB Extends not deted deck for ad diversion al/GB Zine C 3 7 Feb 24 163 SDB 2030 SDB Extends not berling HST4 4 14 Feb 24 17 Feb 24 163 SDB 2030 SDB Extends not berling HST4 14 Feb 24 2 Heb 24 164 505 Extends not berling HST4 SDB 2030 SDB Extends not berling HST4 14 Feb 24 2 Heb 24 164 505 Extends not berling HST4 SDB 2030 SDB Extends not berling HST4 14 Heb 24 2 Heb 24 141 505 Extends not berling HST4 SDB 2030 SDB Extends not berling HST4 14 Heb 24 2 Heb 24 141 505 Extends not berling HST4 SDB 2030 SDB Extends not berling HST4 14 Heb 24 144 141 505 Extends not berling HST4 505 Extends not berling HST4 SDB 1010 SDB Extends not berling HST4 14 Heb 24 144 141 140 140 Heb 24 140 Heb 24 141 140 Heb 24 141 Heb 24 141 Heb 24 141 Heb 24	Demolition of E	xisting PST4						
SDB 2840 SDB - Stb detarance for demolition of P574 3 7 Feb 24 9 Feb 24 153 SDB 2000 SDB - Endp detextler SDB all STI 4 4 1 4 Feb 24 17 Feb 24 153 SDB 2000 SDB - Demolton of Exing P514 (point betw and dwasion and pipe plug) 1 4 4 Eeb 24 144 500 Ecb 2000 500 E-provide platesing P514 2 1 Mar 24 2 Mar 24 144 500 Ecb 2000 500 E-provide platesing P514 6 1 Mar 24 2 Mar 24 141 500 E-provide platesing P514 500 E-provide platesing P514 500 E-provide platesing P514 6 1 Mar 24 2 Mar 24 141 500 E-provide platesing P514 500 E-provide platesing P514 6 1 Mar 24 2 Mar 24 141 500 E-provide platesing P514 500 E-provide p	SDB-2020	SDB - Pipe pile strengthening works for steel deck for road diversion at AGS Zon e C	3 10-Jan-	24 A 29-Jan	24A			
SDB 2000 SDB 2010	SDB-2000	SDB - Erection of steel deck for road diversion at AGS Zone C 1	2 30-Jan-	24 A 6-Feb	-24 -159		SDB - Erection of steel deck for road diversion at AGS Zone C	
SDB 2000 SDB 2010	SDB-2040	SDB - Site clearance for demolition of PST4	3 7-Feb	24 9-Feb	-24 -153		SDB - Site clearance for demolition of PST4	
SDB-2050 SDB-20500 SDB-2050 SDB-2050		SDB - Early sheetpile for SDB at PST4				1	SDB - Early sheetpile for SDB at PST4	
SDB-120 SDB-120d weesin all/SS 2/m C 14/m 14/m SDB-120d weesin all/SS 2/m C SDB-120d dweesin all/SS 2/m C								road diversion and pipe plug)
SDB 200 SDB - Road diversion al/SGS Zine C 2 1 Mar 24 2 Mar 24 1 41 SDB 100 SDB - Demotion of Exising PST 4 (portion alternaed diversion and pipe plug) 10 4 Mar 24 14 Har 24								
SDB-100 SDB-Denotion of Exising PST4 (bordon afterroad diversion and pipe plug) 10 44-Mar-24 141 SDB-100 SDB-Backdilling of Exising PST4 SDB-Denotification of Exising PST4 Denotification of Exising PST1 6 2-Apr-24 9-Apr-24 1465 SDB-Denotification of Exising PST1								
SDB-1800 SDB-8addiling of Eksing PST4 6 15Mar.24 21 Mar.24 141 Commission of Eksing PST4 SDB-8addiling of Eksing PST4 Demolition of Eksing PST1 6 2 Apr.24 9 Apr.24 165 SDB-1000 SDB-10000 SDB-10000 SDB-10000 SDB-100000 SDB-1000000 SDB-100000000 SDB-1000000000000000000000000000000000000								
Demolition of Existing PST1 6 2.Apr-24 9.Apr-24 165 SDB-10ecommissioning of Existing PST1 24 10.Apr-24 8.May-24 165 SDB-10ecommissioning of Existing PST1 25 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>SUB - Demolition of Existing</td> <td>F 31 4 (portion alter road diversion and pipe plug)</td>							SUB - Demolition of Existing	F 31 4 (portion alter road diversion and pipe plug)
SDB-1960 SDB-Decommissioning of Existing PST 1 6 2.4pr.24 9.4pr.24 -168			5 15-Ma	-24 21-Ma	r-24 141		SDB-Backfillir	igioi ⊨xsting PS i 4
SDB 1970 SDB - Demolition of Existing PGT 1 24 10-Apr-24 8 May-24 -165 SDB G1-Pre-drilling Works SDB A1P ST1 SDB A1P ST1<	Demolition of E	xisting PST1						
SDB-1970 SDB-Demolion of Esting PST 1 24 10-Apr24 8-May24 -165 SDB GL-Pre-dilling Works SDB-Are-dilling Works	SDB-1960	SDB - Decommissioning of Existing PST 1	6 2-Apr	24 9-Apr	-165			SDB - Decommissioning of Existing P
SDB At PST4 and Existing Road 12 8 Feb.24* 24 Feb.24 21 Image: Content in the co	SDB-1970	SDB - Demolition of Existing PST 1 2	4 10-Ap	-24 8-May	-24 -165			
SDB-1030 SDB-PD22 relocated 12 8-Feb-24* 24 21 SDB-PD22 relocated SDB AI PST1,23 Footprint SDB-PD16 wlobstruction (PST1) relocated 12 4-Dec-23A 20-Dec-23A Struction (PST1) relocated SDB-PD12 relocated SDB-PD22 relocated SDB-1140 SDB-PD13 wlobstruction (PST3) relocated 12 4-Dec-23A 20-Dec-23A Struction (PST1) relocated SDB-110 SDB-PD11 wlobstruction (PST1) relocated 12 21-Dec-23A 29-Jan-24A SDB-PD11 wlobstruction (PST1) relocated SDB-1070 SDB-PD15 wlobstruction (PST1) relocated 12 26-Dec-23A 29-Jan-24A SDB-PD15 wlobstruction (PST1) relocated SDB-1370 SDB-PD2 wlobstruction (PST3) relocated 12 31-Jan-24A 29-Jan-24A SDB-PD15 wlobstruction (PST3) relocated SDB-1130 SDB-PD14 wlobstruction (PST3) relocated 12 31-Jan-24A 29-Jan-24A SDB-PD15 wlobstruction (PST3) relocated SDB-1130 SDB-PD14 wlobstruction (PST3) relocated 12 31-Jan-24A 17-Feb-24 51 SDB-PD14 wlobstruction (PST3) relocated	SDB GI - Pre-dril	ng Works						
SDB-1030 SDB-PD22 relocated 12 8-Feb-24* 24 21 SDB-PD22 relocated SDB AI PST1,23 Footprint SDB-PD16 wlobstruction (PST1) relocated 12 4-Dec-23A 20-Dec-23A Struction (PST1) relocated SDB-PD12 relocated SDB-PD22 relocated SDB-1140 SDB-PD13 wlobstruction (PST3) relocated 12 4-Dec-23A 20-Dec-23A Struction (PST1) relocated SDB-110 SDB-PD11 wlobstruction (PST1) relocated 12 21-Dec-23A 29-Jan-24A SDB-PD11 wlobstruction (PST1) relocated SDB-1070 SDB-PD15 wlobstruction (PST1) relocated 12 26-Dec-23A 29-Jan-24A SDB-PD15 wlobstruction (PST1) relocated SDB-1370 SDB-PD2 wlobstruction (PST3) relocated 12 31-Jan-24A 29-Jan-24A SDB-PD15 wlobstruction (PST3) relocated SDB-1130 SDB-PD14 wlobstruction (PST3) relocated 12 31-Jan-24A 29-Jan-24A SDB-PD15 wlobstruction (PST3) relocated SDB-1130 SDB-PD14 wlobstruction (PST3) relocated 12 31-Jan-24A 17-Feb-24 51 SDB-PD14 wlobstruction (PST3) relocated	SDB At P ST4	and Existing Road						
SDB At PST1,23 Footprint SDB.1140 SDB.PD16 wlobstruction (PST1) relocated 12 4 Dec 23A 20-Dec 23A struction (PST1) relocated SDB.1120 SDB.PD13 wlobstruction (PST3) relocated 12 9 -Dec 23A 25 -Dec 23A struction (PST3) relocated SDB.1100 SDB.PD11 wlobstruction (PST1) relocated 12 9 -Dec 23A 25 -Dec 23A 9 -Dec 2			2 8-Feb	24* 24-Feb	-24 21	1	SDB-PD22 relocated	
SDB-1140 SDB-PD16 w obstruction (PST1) relocated 12 4-Dec-23A 20-Dec-23A struction (PST1) relocated 12 9-Dec-23A 25-Dec-23A 13 w obstruction (PST3) relocated 12 9-Dec-23A 25-Dec-23A 13 w obstruction (PST3) relocated 12 9-Dec-23A 25-Dec-23A 13 w obstruction (PST3) relocated 12 12 v - 12 v								
SDB-1120 SDB-PD13 wlobstruction (PST3) relocated 12 9-Dec-23A 25-Dec-23A 29-Jan-24A SDB-PD11 wlobstruction (PST1) relocated SDB-1100 SDB-PD15 wlobstruction (PST1) relocated 12 21-Dec-23A 29-Jan-24A SDB-PD15 wlobstruction (PST1) relocated SDB-1370 SDB-PD2 wlobstruction (PST2) relocated 12 13-Jan-24A 29-Jan-24A SDB-PD15 wlobstruction (PST2) relocated SDB-1100 SDB-PD14 wlobstruction (PST3) relocated 12 13-Jan-24A 29-Jan-24A SDB-PD15 wlobstruction (PST3) relocated SDB-1130 SDB-PD14 wlobstruction (PST3) relocated 12 31-Jan-24A 17-Feb-24 51 SDB-1130 SDB-PD14 wlobstruction (PST3) relocated 12 31-Jan-24A 17-Feb-24 51			2 4 Da-	ο3Δ 20 De-	23 4	struction (PST1) relocated		
SDB-1110 SDB-PD11 wlobstruction (PST1) relocated 12 21-Dec-23A 29-Jan-24A SDB-PD11 wlobstruction (PST1) relocated SDB-1070 SDB-PD15 wlobstruction (PST1) relocated 12 26-Dec-23A 29-Jan-24A SDB-PD15 wlobstruction (PST1) relocated SDB-1370 SDB-PD2 wlobstruction (PST2) relocated 12 13-Jan-24A 29-Jan-24A SDB-PD12 wlobstruction (PST2) relocated SDB-1130 SDB-PD14 wlobstruction (PST3) relocated 12 31-Jan-24A 17-Feb-24 51								
SDB-1070 SDB-PD15 wlobstruction (PST1) relocated 12 26-Dec.23A 29-Jan-24A SDB-PD15 wlobstruction (PST1) relocated SDB-1370 SDB-PD2 wlobstruction (PST2) relocated 12 13-Jan-24A 29-Jan-24A 29-Jan-24A SDB-PD15 wlobstruction (PST2) relocated SDB-1370 SDB-PD1 wlobstruction (PST2) relocated 12 13-Jan-24A 29-Jan-24A 50 SDB-PD15 wlobstruction (PST2) relocated SDB-1130 SDB-PD1 wlobstruction (PST3) relocated 12 31-Jan-24A 17-Feb-2 51 SDB-PD14 wlobstruction (PST3) relocated								
SDB-1370 SDB-PD2 w/obstruction (PST2) relocated 12 13-Jan-24A 29-Jan-24A Construction (PST2) relocated SDB-1130 SDB-PD14 w/obstruction (PST3) relocated 12 31-Jan-24A 17-Feb-24 51 SDB-PD14 w/obstruction (PST3) relocated								
SDB-1130 SDB-PD14 w/obstruction (PST3) relocated 12 31-Jan-24A 17-Feb-24 51	SDB-1070	SDB-PD15 w/obstruction (PST1) relocated 1	2 26-Dec	23 A 29-Jan	24A	1		
	SDB-1370	SDB-PD2 w/obstruction (PST2) relocated 1	2 13-Jan-	24 A 29-Jan	24A		SIB-PD2 w/obstruction (PST2) relocated	
SDB-1160 SDB-PD18 w/obstruction (PST3) relocated 12 26-Feb-24 9-Mar-24 21	SDB-1130	SDB-PD14 w/obstruction (PST3) relocated 1	2 31-Jan-	24 A 17-Feb	-24 51		SDB-PD14 w/obstruction (PST3) relocated	
	SDB-1160	SDB-PD18 w/obstruction (PST3) relocated 1	2 26-Feb	-24 9-Mar	-24 21	1	SDB-PD18 w/ obstruction (PST3) relo	dated
							In the second	· · ·



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Contract DC/2019/10 - YLEPP - Main Works for Stage 1 Monthly Progress Report No. 39- 3MRP (Jan 24)

Project ID : DWPr34_240209 Layout : DC201910 MPR39-3MRP Page 8 of 11

05	43 12	19	26	02	4 09	4	23	45 30 07
gang, 1gang)								
/gang,2gang)								
stem installation s x 9 Nos.	n 							
f Penstocks x 5	5 Nos							
e test - Combin	ing Stoplogs/Pe	enstocks						
PST Stage 1 -	Sludge Pumps	& Grinder x	10 Sets					
PST Stage 1 - PST Stage 1	- Scum Pumps &	& Drainage F ess pipework	inside Pun	sets no Room c/w p	ressure test			
·····	·····							
ervice Water P	Pipes,Air Pipe							
		·····						
	IW to Equipmen anel Installation							
abling Works								
T Stage 1 - Ter	mination Works							
ation - LVSB@I	IW to Equipmen	nt						
t Installation & I	nspection							
abling Works	mination Works							
n Siage 1 - Ier	minaion Works							
pq	ST Stane 1 - SC	ADA-10 Poir	nt Test (not r	equired for inte	rim scheme	T&C)		
nergization	STStage 1 - SC/					/		
T Stage 1 - Ele	ectrical - Megger	Test						
DB - Trial pit/tre	ench and UU Di Site Hoarding,			d driven h-pile	works			
Т1								
	SDB - Demolitio	n of Existing F	PST1					
		М	onthly	Progres				
,	Da	te		Revisio		Check		oproved
	31-Jan-2	24	Rev.	0				

Activity ID A	Activity Name	Orig	Early Start	Early Finish	Total Float	January	February March	April
		Dur				39 31 07 14 21 2	40 41 28 04 11 18 25 03 10 17 24	42 31 07 14 21 28
SDB-1150 S	SDB-PD17 w/obstruction (PST3) relocated	12	11-Mar-24	23-Mar-24	21			w/obstruction (PST3) relocated
SDB Foundation - PS	ST 1-4 Footprint							
SDB Foundation	ı - Driven H-Pile							
SDB-1920 S	SDB - Driven H-piles mobilization	6	22-Mar-24	28-Mar-24	141		SI	DB - Driven H-piles mobilization
SDB-1990 S	SDB - Driven H-piles Trial Pile (SDB1 no.,1 rig after PST4 demolish)	6	2-Apr-24	9-Apr-24	141			SDB - Driven H-piles Trial Pile (SDB1 no
SDB-1940 S	SDB - Driven H-piles (SDB23nos.,1334m @48m/d/rig, 1 rig after PST4 demolish)	28	10-Apr-24	13-May-24	141			
External Works								
Walkway Across Ta	ai Tseng Wai Nullah							
CLP-1570 V	Wakway-Predril (1nos. MA-PD1)	12	15-Feb-24*	28-Feb-24	640		Wakway-Predril (1nos. MA-PD1)	
Zone 2 Construc	ction							
Demolition Works					-			
Other Existing Pun	mping Stations							
Auxilliary Pumping S	Stations							
I	Demolition of Auxiliary Pumping Station (19) below ground silent method	60	8-Mar-24	23-May-24	-184			
	Reactor & Auxillary Facility (MBR and AF)					1		
MBR and AF Struct								
	tion & Demolition stage 2							
	MBR - Pumping test (Stage 1) dewater to FEL (-9m PD)	7	15-Jan-24 A	21-Jan-24A		MBB - Pumping	est (Stage 1) dewater to FEL (-9m PD)	
	MBR - Preloading StrutS2 (5 cycles, 5 struts/cycle/day)	5	2-Mar-24	7-Mar-24	-196		MBR - Preloading Strut S2 (5 cycles, 5 st	uts/cvcle/dav)
								MBR - Preloading Strut S3 (5 cycles,
	MBR - Preloading Strut S3 (5 cycles, 5 struts/cycle/day)	5	5-Apr-24	10-Apr-24	-196			IVIDIN - Fileidading Strut 33 (5 cycles,
MBR - ELS Zone								
Excavation and De		10	07 1	105151	107			ten 500m2/d)
	MBR - Zone A- ELS Excavate (+4.2 to +1.75mPD)(6370m3)(3-4 excavators, 500m3/d)	13	27-Jan-24 A	19-Feb-24	-196		MBR - Zone A- ELS Excavate (+4.2 to +1.75mPD)(6370m3)(3-4 excavate	
	MBR - Zone A - StrutInstallation S2 (+2.3mPD)(1 crane, 8welders, 24ton/d)	18	7-Feb-24	1-Mar-24	-196		MBR - Zone A- Strut Installation S2 (+2.3mPD)(1 cra	ine, sweiders, 2410n/d)
	MBR - Zone A-Installation of steel deck	14	19-Feb-24	5-Mar-24	-194		MBR - Zone A- Installation of steel deck	
MBRAF-3280 N	MBR - Zone A- ELS Excavate (+1.75 to to -1.25mPD)(7800m3) (3-4 excavators, 500m3/d)	16	8-Mar-24	26-Mar-24	-196		MBR	- Zone A - ELS Excavate (+1.75 to to -1.25mPD)(7800m3) (
MBRAF-1660 N	MBR - Zone A- Strut Installation S3 (-0.7mPD)(1 crane, 8welders, 24ton/d)	10	20-Mar-24	3-Apr-24	-196			MBR - Zone A - Strut Installation S3 (-0.7mPD)(1 cr
MBRAF-1670 N	MBR - Zone A- ELS Excavation (-1.25 to -4.15mPD)(7540m3)(3-4 excavators, 500m3/d) *MD	15	11-Apr-24	27-Apr-24	-194			MBR
MBRAF-1680 N	MBR - Zone A- Strut Installation S4 (-3.6mPD)(1 crane, 8welders, 24ton/d)	12	20-Apr-24	4-May-24	-194			
MBR - ELS Zone	e B							
Excavation								
MBRAF-3550 N	MBR - Zone B - ELS Excavation (+5.8 to +4.7mPD)(2080m3)(3-4 excavators, 500m3/d) remaining unexcavated area	5	7-Dec-23A	1-Jan-24 A		MBR - Zone B - ELS Excavation (+5.8 to +4.7 mPD)(2	080m3)(3-4 excavators, 500m3/d) remaining unexcavated area	
		10	00 D = = 00 A	00 1 044			MBR - Zone B - Strut Installation S1 (+5.25mPD)(1 crane, 8welders, 24ton/d)	
	MBR - Zone B - Strut Installation S1 (+5.25mPD)(1 crane, 8welders, 24bn/d)	10	22-Dec-23 A	30-Jan-24A	100		MBR - Zone B - Installation of steel deck	
	MBR - Zone B - Installation of sheel deck	12	24-Jan-24 A	5-Feb-24	-196		<u>.</u>	
	MBR - Zone B - ELS Excavate (+4.2 to +1.75mPD)(6370m3)(3-4 excavators, 500m3/d)	13	6-Feb-24	23-Feb-24	-196		MBR - Zóne B - ELS Excavate (+4.2 to +1.75mPD)(6370m3)(3-4	
	MBR - Zone B - Strut Installation S2 (+2.3mPD)(1 crane, 8welders, 24ton/d)	10	20-Feb-24	1-Mar-24	-196		MBR - Zone B - Strut Installation S2 (+2.3mPD)(1 cra	
	MBR - Zone B - ELS Excavation (+1.75 to -1.25mPD)(7800m3)(3-4 excavators, 500m3/d)	16	8-Mar-24	26-Mar-24	-196		MBR	- Zone B - ELS Excavation (+1.75 to -1.25mPD)(7800m3)(3
MBRAF-3070 N	MBR - Zone B - Strut Installation S3 (-0.7mPD)(1 crane,8welders,24ton/d)	10	20-Mar-24	3-Apr-24	-196			MBR - Zone B - Strut Installation S3 (-0.7mPD)(1 cr
	MBR - Zone B - ELS Excavation (-1 25 to -4.15mPD)(7540m3)(3-4 excavators, 500m3/d) *MD	15	11-Apr-24	27-Apr-24	-196			MBR
MBRAF-3300	MBR - Zone B - Strut Installation S4 (-3.6mPD)(1 crane,8welders,24ton/d)	12	23-Apr-24	7-May-24	-196			
MBR - ELS Zone	eC							
Excavation								
MBRAF-3140 M	MBR - Zone C - Strut Installation S1 (+5.25mPD)(1 crane, 10welders, 24ton/d)	12	17-Nov-23 A	1-Feb-24	-196		MBR - Zone C - Strut Installation S1 (+5.25mPD)(1 crane, 10welders, 24ton/d)	
MBRAF-2500 N	MBR - Zone C - Installation of steel deck	14	8-Jan-24 A	30-Jan-24 A			MBR - Zone C - Installation of steel deck	
MBRAF-3150 N	MBR - Zone C - ELS Excavation (+4.7 to +1.75mPD) (5880m3) (3-4 excavators, 500m3/d)	12	2-Feb-24	19-Feb-24	-196		MBR - Zone C - ELS Excavation (+4.7 to +1.75mPD) (5880m3) (3-4 exc	alvators, 500m3/d)
MBRAF-3160 M	MBR - Zone C - Strut Installation S2 (+2.3mPD)(1 crane, 10welders, 24ton/d)	14	15-Feb-24	1-Mar-24	-196		MBR - Zone C - Strut Installation S2 (+2.3mPD)(1 cr	ane, 10welders, 24ton/d)
MBRAF-3170 M	MBR - Zone C - ELS Excavation (+1.75 to -1.25mPD) (7200m3)(3-4 excavators, 500m3/d)	15	8-Mar-24	25-Mar-24	-196		MBR - 2	Zone C - ELS Excavation (+1.75 to -1.25mPD) (7200m3)[3-
MBRAF-3180 M	MBR - Zone C - Strut Installation S3 (-0.7mPD)(1 crane, 10welders, 24ton/d)	12	18-Mar-24	3-Apr-24	-196			MBR - Zone C - Strut Installation S3 (-0.7mPD)(1 ci
MBRAF-3190 N	MBR - Zone C - ELS Excavation (-1 25 to -4.15mPD) (6960m3)(3-4 excavators, 500m3/d) *MD	10	11-Apr-24	22-Apr-24	-194			MBR - Zone C
	MBR - Zone C - Strut Installation S4 (-3.6mPD)(1 crane, 10welders, 24ton/d)	12	20-Apr-24	4-May-24	-194			
Tertriary Treatmen								
TTS Foundation an								
Kingpost and Workin						•		
	TTS - Kingpostproof drill (IKP13)	12	1-Dec-23A	14-Dec-23 A		P13)		
		2	15-Dec-23 A	14-Dec-23 A		bilization		
	TTS - Kingpostdemobilization				100		TTS, hetallation of stand day (Foot marker)	
	TTS - Installation of steel deck (Eastportion)	12	8-Jan-24 A	9-Feb-24	-188		TTS - Installation of steel deck (Eastportion)	
	TTS - Installation of steel deck (Westportion)	18	14-Feb-24	5-Mar-24	-188		TTS - Installation of steel deck (West portion)	
Monitoring and Pump								
	TTS - Pumping test	7	30-Jan-24 A	5-Feb-24	-185	· · · · · · · · · · · · · · · · · · ·	TTS - Pumping test	
TTS Foundation and	I ELS Stage 2							
TTS ELS								
TTS-2130 T	TTS - Strut Installation S1 (+3.65mPD)(2 cranes, 8welders per WF, 2 WFs, 30ton/d) (Zone 2 NW)	18	4-Dec-23A	22-Dec-23 A		tallation S1 (+3.65mPD)(2 cranes, 8welders per WF, 2 W	s, 30ton/d) (Zone 2 NW)	
TTS-2040 T	TTS - ELS Excavation (+5.0 to +3.1 mPD) (2548m3)(3-4 excavatorsWF,1 WF,400m3/d/WF) (Zone 4 SW)	10	14-Dec-23 A	23-Dec-23 A		cavation (+5.0 to +3.1mPD) (2548m3)(3-4 excavators/M	F,1 WF,400m3/dWF) (Zone 4 SW)	
TTS-2140 T	TTS - Strut Installation S1 (+3.65mPD)(2 cranes, 8welders per WF, 2 WFs, 30ton/d) (Zone 4 SW)	18	22-Dec-23 A	19-Jan-24A		TTS - Strut Installatio	n S1 (+3.65mPD)(2 cranes, 8welders per WF, 2 WFs, 30ton/d) (Zone 4 SW)	
TTS-1040 T	TTS - ELS Excavation (+3.1 to +1.15mPD) (14,158m3)(3-4 excavators/WF, 2 WFs, 600m3/d/WF)	12	6-Feb-24	22-Feb-24	-185		TTS - ELS Excavation (+3.1 to +1.15mPD) (14,158m3)(3-4 excava	tors/WF,2WFs,600m3/d/WF)
TTS-1050 T	TTS - Strut Installation S2 (+1.65mPD)(2 cranes, 8welders per WF, 2 WFs, 30ton/d)	15	17-Feb-24	5-Mar-24	-188		TTS - Strut Installation S2 (+1.65mPD)(2 crar	es,8welders per WF,2 WFs,30ton/d)
	TTS - Preloading Strut S2 (+1.65mPD)(4 cycles, 4 struts/cycle/day, 16 struts)	4	6-Mar-24	9-Mar-24	-188		TTS - Preloading Strut S2 (+1.65mPE	· · · · · · · · · · · · · · · · · · ·
	TTS - ELS Excavation (+1.15 to -1.35mPD) (14,158m3)(3-4 excavators/WF,2 WFs,600m3/d/WF) *MD/PD	12	11-Mar-24	23-Mar-24	-188		j	Excavation (+1.15 to -1.35mPD) (14,158m3)(3-4 excavators
	TTS - Strut Installation S3 (-0.85mPD)(2 cranes, 8welders per WF, 2 WFs, 30ton/d)	15	15-Mar-24	5-Apr-24	-188	1		TTS - Strut Installation S3 (-0.85mPD)(2 cranies
	TTS - Preloading Strut S3 (-0.85mPD)(4 cycles, 4 struts/cycle/day, 16 struts)	4	6-Apr-24	10-Apr-24	-188			TTS - Preloading Strut S3 (-0.85mPD)
	TTS - ELS Excavation (-1.35 to -3.37mPD) (11,439m3)(3-4 excavatorsWF, 2 WFs, 600m3/d/WF) *MD/PD	10	11-Apr-24	22-Apr-24	-188			
TTS-1280 T		10	·· / pi 24	/ pi-24	100	E	E Contraction of the second	
	TTS - Strut Installation S4 (-2.87mPD)(2 cranes, 8 welders per WF, 2 WFs, 30 ton/d)	15	16-Apr-24	3-May-24	-188	·		· · · · · · · · · · · · · · · · · · ·



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Project ID : DWPr34_240209 Layout : DC201910 MPR39-3MRP Page 9 of 11

05	43 12	19	26	02	44 09	16 23	45 30 07
o.,1 rig after PS1			000000			DOTAL	
	SDB-DR	ven n-piles	(SDB231	US.,1334m@48r	n/d/ng, rng ai	ter PST4 demolis	n)
		De	molition o	f Auxilia ry Pumpi	ng Station (19) below ground s	lentm ethod
5 struts/cycle/da	ay)						
3-4 excavators	500m3/d)						
ane, 8welders,							
	Excavation (-1.25 t	to -4.15mPl	D)(7540m	3)(3-4 excavators	,500m3/d)*N	ИD	
MBR - Z	Zone A - Strut Install	lation S4 (-3	3.6mPD)(1	crane, 8welders.	24ton/d)		
					·····		
-4 excavators,	500m3/d)						
rane, 8welders,	,24ton/d)						
-Zone B - ELS	Excavation (-1.251	to -4.15mPl	D)(7540m	3)(3-4 excavators	,500m3/d)*l	MD	
ME	3R - Zone B - Strut	Installation	S4 (-3.6m	PD)(1 crane, 8we	lders, 24ton/	d)	
A oversustern F	00m3/d\						
4 excavators, 5 rane, 10welder							
	on (-1.25 to -4.15m	PD) (6960)	m3)(3-4 e	cavators. 500m3	/d)*MD		
	Zone C - Strut Instal						
		·····					
	00m3/d/WF) *MD/P						
	WF,2WFs,30ton/c						
	uts/cycle/day, 16 str						
	-3.37mPD) (11,43						
TTS - Stru	t Installation S4 (-2.	.87mPD)(2	cranes,8	velders per WF, 2	WFs, 30ton/c	3)	
		N /-	nthly	Drograa	Bonor		
ļ			лши	Progress			• ·
	Date			Revision	(Checked	Approved
	31-Jan-24	1	Rev.	0			
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Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	January 39	February 40	March April 41 42
Zone 3 Constr	uction					<mark>31 07 14 21 2</mark>	8 04 11 18 <u>25</u>	03 10 17 24 31 07 14 21
Zone 3 North P	ortion (Z3N)							
	kening Building (STB)							
STB : Foundation								
Z3S3-6130	e and Preboring STB - Sheetpile Installation (remaining after demolifion of AFT underground structure)	4	16-Jan-24 A	22-Jan-24A		STB - Sheeth	e Installation (remaining after demolition of AFT unde	ammund structure)
	ng and Pumping	4	10-Jdll-24 A	22-Jd11-24A				
Z3S3-5080	STB - Pumping test (Stage 1)	14	8-Dec-23A	23-Dec-23 A		ping test (Stage 1)		
STB : Tower C								
Z3S3-5880	STB - Install base plate of tower crane	6	4-Dec-23A	9-Dec-23A				
Z3S3-5890	STB - Erection of tower crane	3	9-Dec-23A	12-Dec-23 A				
STB : Excavati	on and Lateral Support							
STB : ELS Stag	e 1 (KD10)							
Z3S3-6120	STB - ELS (Stage 1), Open cut excavate and demolish AFT underground structure	10	18-Dec-23 A	15-Jan-24A		STB - ELS (Stage 1), Oper	cut excavate and demolish AFT underground struct.	
Z3S3-2250	STB - ELS (Stage 1), Excavation (+6.0 to +3.5mPD, 1,173m3 @ 500m3/d)	3	27-Dec-23 A	3-Feb-24	-81	-	STB - ELS (Stage 1), Excavation (+6.0 to +3.5	
Z3S3-2290	STB - ELS (Stage 1), Strut Installation S1 (@ +4.0mPD)	12	4-Jan-24 A	7-Feb-24	-81		STB - ELS (Stage 1), Strut Installation	
Z3S3-5110	STB - ELS (Stage 1), Excavation (+6.0 to +3.5mPD) remaining portion after road diversion at UC5	2	6-Feb-24	7-Feb-24	-86			b +3.5mPD) remaining portion after road diversion at UC5
Z3S3-5120	STB - ELS (Stage 1), Strut Installation S1 (@ +4.0mPD) remaining portion after road diversion at UC5	5	8-Feb-24	16-Feb-24	-86			Strut Installation S1 (@ +4.0mPD) remaining portion after load diversion at UC5
Z3S3-2360	STB - ELS (Stage 1), Excavation (+3.5 to -0.5mPD, 2501m3 @ 500m3/d) *MD/PD	5	17-Feb-24	22-Feb-24	-86		SIB-EL	S/Slage 1), Excavation (+3.5 to -0.5mPD, 2501m3 @ 500m3/d) *MD/PD STB - ELS (Stage 1), Struthstallation S2 (@ 0mPD)
Z3S3-2420	STB - ELS (Stage 1), Strut Installation S2 (@ 0mPD)	6	23-Feb-24 1-Mar-24	29-Feb-24 7-Mar-24	-86			STB - ELS (Stage 1), Studi installation S2 (@ 011PD) STB - ELS (Stage 1), Strut hstallation S2 preload (5 cycles, 3-4 struct/cycle/day, 19 nos. strut)
Z3S3-5230 Z3S3-2450	STB - ELS (Stage 1), Strut Installation S2 preload (5 cycles, 3-4 struct/cycle/day, 19 nos. strut) STB - ELS (Stage 1), Excavation (-0.5 to -3.75mPD, 2,001m3 @ 500m3/d) *MD/PD	6	1-Mar-24 8-Mar-24	14-Mar-24	-86			STB - ELS (Stage 1), STB - ELS (Stage 1), Excavation (-0.5 to -3.75mPD, 2,001m3 @ 500m3/d) *MD/PD
Z3S3-2430 Z3S3-5800	STB-ELS (Stage 1), Demolish remaining existing AFT (8) silent method	6	8-Mar-24	14-Mar-24	-86			STB - ELS (Stage 1), Demolişh remaining existing AFT (8) silent method
	e 2 (Remaining)		0 1012 -	14 1960 24	00			
Z3S3-5910	STB - ELS (Stage 2), Excavation (+6.0 to +3.5mPD, 586m3 @ 200m3/d)	3	5-Feb-24	7-Feb-24	31		STB - ELS (Stage 2), Excavation (+6.0	.))b +3.5mPD,586m3 @ 200m3/d)
Z3S3-5920	STB - ELS (Stage 2), Strut Installation S1 (@ +4.0mPD)	8	8-Feb-24	20-Feb-24	31			tage 2), Strut Installation S1 (@+4.0mPD)
Z3S3-5940	STB - ELS (Stage 2), Excavation (+3.5 to -0.5mPD, 1250m3 @ 200m3(d) *MD/PD	7	21-Feb-24	28-Feb-24	31			STB - ELS (Stage 2), Excavation (+3.5 to -0.5mPD, 1250/h3 @ 200m3/d) *MD/PD
Z3S3-5950	STB - ELS (Stage 2), Strut Installation S2 (@ 0mPD)	8	27-Feb-24	6-Mar-24	31			STB - ELS (Stage 2), Strut Installation S2 (@0mPD)
Z3S3-5960	STB - ELS (Stage 2), Strut Installation S2 preload (5 cycles, 3-4 struct/cycle/day, 19 nos. strut)	2	7-Mar-24	8-Mar-24	31			STB - ELS (Stage 2), Strut Installation S2 preload (5 cycles, 3-4 struct/cycle/day, 19 nos. strut)
Z3S3-5970	STB - ELS (Stage 2), Excavation (-0.5 to -3.75mPD, 500m3 @ 200m3/d) *MD/PD	3	9-Mar-24	12-Mar-24	31			STB - ELS (Stage 2), Excavation (-0.5 to -3.75mPD, 500m3 @ 200m3/d) *MD/PD
STB : Civil and St								
STB : Structur	e							
STB : Structure	Stage 1 (KD10)							
STB : Subrstr	Icture							
Z3S3-6140	STB - Stage 1 - Install capping plate and blinding	10	15-Mar-24	26-Mar-24	-86			STB - Stage 1 - Install capping plate and blinding
Z3S3-2500	STB - Stage 1 - Pile Cap Construction (-3.55 to -0.5mPD, 2.055m) Base Slab and Wal	12	27-Mar-24	13-Apr-24	-86			STB - Stage 1 - Pile Cap Co
Z3S3-3670	STB - Stage 1 - Waterproof, backfill and Remove part of S2	6	15-Apr-24	20-Apr-24	-86			STB-Stage 1 -
Z3S3-2600	STB - Stage 1 - Structural WallColumn (-0.5 to +3 5mPD) with S2 castin	7	22-Apr-24	29-Apr-24	-86			
	Stage 2 (Remaining)							
STB : Subrstr								
Z3S3-6170	STB - Stage 2 - Install capping plate, earth mat and blinding	12	13-Mar-24	26-Mar-24	31			STB - Stage 2 - Install capping plate, earth matand blinding
Z3S3-6040	STB - Stage 2 - Pile Cap Construction (-3.55 to -0.5mPD, 2.055m) Base Slab and Wal	12	27-Mar-24	13-Apr-24	31			STB - Stage 2 - Pile Cap Co
Z3S3-6110	STB - Stage 2 - Waterproof, backfill and Remove part of S2 STB - Stage 2 - Structure (-0.5 to +3.5mPD)	6	15-Apr-24 22-Apr-24	20-Apr-24	31			
	UC5) (Connect to STB)	,	22-Api-24	29-Apr-24	51			
UC5 : Civil and St								
Z3S2-3710	UC5 - External - Waterproofing Stage 1	3	4-Dec-23A	7-Dec-23A				
Z3S2-3520	UC5 - External - Concrete backfill & remove strut S2	5	20-Dec-23 A	6-Jan-24 A		UC5 - External - Concrete backfill & remove	strut S2	
Z3S2-3670	UC5 - Internal - Install backprop for STB ELS	21	20-Dec-23 A	27-Jan-24A		UCS	: Internal - Install backprop for STB ELS	
Z3S2-3720	UC5 - External - Wate proofing Stage 2	3	8-Jan-24 A	13-Jan-24A		UC5 - External - Waterproofing	Stage 2	
Z3S2-3530	UC5 - External - Concrete backfill & remove strut S1	5	15-Jan-24 A	17-Jan-24A		UC5 - External - Concr	te backfill & remove strut S1	
Z3S2-3750	UC5 - External - Wate proofing Roof Slab	3	18-Jan-24 A	22-Jan-24A		UC5-Externa	-Watenproofing Roof Slab	
Z3S2-3610	UC5 - Place concrete block and Backfill to ground level	2	23-Jan-24 A	3-Feb-24	-86		UC5 - Place concrete block and Backfill to gr	ound level
Z3S2-3660	UC5 - Install beam, sheetpile and vertical prop for decking over UC5 ELS for road diversion	4	29-Jan-24 A	8-Feb-24	1139		UC5 - Install beam, sheetpile and ve	tical prop for decking over UC5 ELS for road diversion
Z3S2-3480	UC5 - Road Diversion Stage 1 on Completed UC5 (concrete pavement)	1	5-Feb-24	5-Feb-24	-86		UC5 - Road Diversion Stage 1 on Comp	lèted UC5 (concrete pavement)
Z3S2-3740	UC5 - Road Diversion Stage 2 on deck (concrete pavement)	1	9-Feb-24	9-Feb-24	1139		UC5 - Road Diversion Stage 2 or	deck (concrete pavement)
UC5 : E&MInstal	ation							
Z3S2-3220	UC5 - BS Works	50	1-Feb-24	6-Apr-24	662			UC5-BS Works
Z3S2-3230	UC5 - E&MHandover	0	1-Feb-24		662		UC5-E&MHandover	
Z3S2-3240	UC5 - E&MInstallation and Pipeworks	50	1-Feb-24	6-Apr-24	662			UC5 - E&M Installation and Pipeworks
Z3S2-3250	UC5 - Installation and Set-Up for SCADA System	14	18-Mar-24	6-Apr-24	662			UC5 - Installation and Set-Up for SCADA
Zone 3 South P	ortion (Z3S)							
Sludge Digestor								
SD1-3 : Foundatio	n and ELS							
	illing, Kingpost, Monitoring and pumping	1 (Į <u></u>
Z3S3-5840	Sludge Digester No. 1-3 - Add tio nal grou fng forsheetpile	17	11-Nov-23 A	6-Feb-24	-180		Sludge Digester No. 1-3 - Add itio nal g r	<u>.</u>
Z3S3-3350	Sludge Digester No. 1-3 - Monitoring and pumping installation (42nos., 1.5nos/d/rig, 2rigs)	16	20-Nov-23 A	6-Feb-24	-180			nd pumping installation (42nos., 1.5nos/d/ng, 2rigs)
Z3S3-5850	Sludge Digester No. 1-3 - Remedial works for sheetpile closing (6nos.)	7	27-Jan-24 A	6-Feb-24	-180		Sludge Digester No. 1-3 - Remedial wo	<u>.</u>
Z3S3-5100	Sludge Digester No. 1-3 - Pumping test*assume reading taking during CNY	7	7-Feb-24	13-Feb-24	-217			Pumping test*assume reading taking during CNY
Z3S3-6160	Sludge Digester No. 1-3 - Additional grou ing for BH1 settlement control	14	7-Feb-24	26-Feb-24	-176		S	udge Digester No. 1-3 - Add tional grouting for BH1 settlement control
SD1-3 : Excava	tion and Strut Installation							
Z3S3-2110	Sludge Digester No. 1-3 - ELS Excavation (+5.0 to +4.3mPD, 4168m3 @ 1000m3ld)	5	14-Feb-24	19-Feb-24	-177		Sludae Diaesta	No. 1-3 - ELS Excavation (+5.0 b +4.3mPD, 4168m3@1000m3/d)
2000-2110						L!		
Pau	Remaining Level of Ef Actual Work		Cont	ract	DC/	2019/10 - YLEPP	- Main Works f	or Stage 1Project ID : DWPr34_240209Layout : DC201910 MPR39-3M

Actual Work
Remaining Work
Critical Remaining Work
Milestone

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保華-中國中鐵聯營體 PAUL Y.-CREC JOINT VENTURE Contract DC/2019/10 - YLEPP - Main Works for Stage Monthly Progress Report No. 39- 3MRP (Jan 24)

Project ID : DWPr34_240209 Layout : DC201910 MPR39-3MRP Page 10 of 11

05	43 12	19	26	02	09	44 16	23	45 30 07
				, , , ,				
uction (-3.55 to	-0.5mPD,2.05	5m) Base Sla	b and Wa I					
terproof,back	-0.5mPD, 2.05 fill and Remove Structural WalliC	partofS2						
IB-Stage 1-S	Structural WallC	olumn (-0.5 to	+3.5mPD)	with S2 castin				
	0.5							
terproof, backt	-0.5mPD,2.05 filandRemove	partofS2						
TB - Stage 2 - S	Structure (-0.5 to	+3.5mPD)						
stem								
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Þ	Da			Revisio		Checker		oproved
r i	31-Jan-		Rev.				~ / \	-p. 0100
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Activity ID	Activity Name	Orig	Early Start	Early Finish	Total Float	January	February March	April	May	June	July
		Dur				39 31 07 14 21 2	40 41 8 04 11 18 25 03 10 17 24	42 31 07 14 21			45
Z3S3-2140	Sludge Digester No. 1-3 - Strut Installation S1 (+4.8mPD)	7	20-Feb-24	27-Feb-24	-177		Sludge Digester No. 1-3 - Strut Installation S1 (+4.8mPD)				
Z3S3-2150	Sludge Digester No. 1-3 - ELS Excavation (+4.3 to +1.8mPD, 6130m3 @ 1000m3/d)	6	28-Feb-24	5-Mar-24	-177		Sludge Digester No. 1-3 - ELS Excavation (+4	3 to +1.8mPD, 6130m3 @ 1000m3/d)			
Z3S3-2190	Sludge Digester No. 1-3 - Strut Installation S2 (+2.3mPD)	7	2-Mar-24	9-Mar-24	-177		Sludge Digester No. 1-3 - Strut Installat	on S2 (+2.3mPD)			
Z3S3-5730	Sludge Digester No. 1-3 - Preloading Strut S2 (+2.3mPD)(4 cycle, 5 struts/cycle/day, 16 struts)	4	11-Mar-24	14-Mar-24	-177		Sludge Digester No. 1-3 - Pre	loading Strut S2 (+2.3mPD)(4 cycle, 5 struts/cycle/day,	16 struts)		
Z3S3-2200	Sludge Digester No. 1-3 - ELS Excavation (+1.8 to -0.7mPD, 6130m3 @ 1000m3(d) *MD	6	15-Mar-24	21-Mar-24	-177		Sludge Digester	No. 1-3 - ELS Excavation (+1.8 to -0.7mPD, 6130m3 (ක් 1000m3/d) *MD		
Z3S3-2210	Sludge Digester No. 1-3 - Strut Installation S3 (-0.2mPD)	7	19-Mar-24	26-Mar-24	-177		Sludge	Digester No. 1-3 - Strut Installation S3 (-0.2mPD)			
Z3S3-5740	Sludge Digester No. 1-3 - Preloading Strut S3 (-0.2mPD)(4 cycle, 5 struts/cycle/day, 16 struts)	4	27-Mar-24	3-Apr-24	-177			Sludge Digester No. 1-3 - Preloading Strut S3	0.2mPD)(4 cycle, 5 struts/cycle/day, 16 struts)		
Z3S3-2220	Sludge Digester No. 1-3 - ELS Excavation (-0.7 to -3.2mPD, 6130m3@1000m3/d) *MD	6	5-Apr-24	11-Apr-24	-177			Sludge Digester No. 1-3 - ELS E	xcavation (-0.7 to -3.2mPD, 6130m3 @ 1000m3/d) *MD		
Z3S3-2230	Sludge Digester No. 1-3 - Strut Installation S4 (-2.7mPD)	7	9-Apr-24	16-Apr-24	-177			Sludge Digester No. 1	3 - Strut Installation S4 (-2.7mPD)		
Z3S3-5750	Sludge Digester No. 1-3 - Preloading Strut S4 (-2.7mPD)(4 cycle, 5 struts/cycle/day, 16 struts)	4	17-Apr-24	20-Apr-24	-177			Sludge Digeste	r/No. 1-3 - Preloading Strut S4 (-2.7mPD)(4 cycle, 5 struts	/cycle/day, 16 struts)	
Z3S3-2240	Sludge Digester No. 1-3 - ELS Excavation (-3.2 to -5.5mPD, 5640m3 @ 1000m3/d)	6	22-Apr-24	27-Apr-24	-177			Sh	; idge Digester No. 1-3 - ELS Excavation (-3.2 to -5.5mPD,	5640m3 @ 1000m3/d)	
Z3S3-3600	Sludge Digester No. 1-3 - Strut Installation S5 (-5.0mPD)	7	25-Apr-24	3-May-24	-177				Sludge Digester No. 1-3 - Strut Installation S5 (-5.	.0mPD)	
Biogas Holder I									· · · · · · · · · · · · · · · · · · ·		
BH1 : Foundatio	· · · · · · · · · · · · · · · · · · ·										
Z3BH-1360	Biogas Holder No. 1 - Backfill +2.6 to +6 for SD Excavation (300mm/layer/d)	12	9-Dec-23A	3-Feb-24	-160		Biogas Holder No. 1 - Backfill +2.6 to +6 for SD Excavation (300mm/layer/d)		+		
BH1 : E&MInsta											
ATALZ3BH-244	BH No. 1 - Top ring installation and Roof, crown ring and roof handrail construction	32	23-Dec-23 A	29-Feb-24	-98		BH No. 1 - Top ring installation and Roof, crown ring and	roof handrail construction			
	5 BH No. 1 - Jack installation	14	1-Mar-24	16-Mar-24	-98		BH No. 1 - Jack installatio	· · · · · · · · · · · · · · · · · · ·			
	5 BH No. 1 - Tank wall (2nd to 3rd Ring) and tank mounting ring construction and welding	32	18-Mar-24	27-Apr-24	-98			B	l No.1 - Tank wall (2nd to 3rd Ring) and tank mounting rin	d construction and welding	
	5 BH No. 1 - Tank wall (4th to 5th Ring) construction and welding	32		6-Jun-24	-98					BH No. 1 - Tank wall (4th to 5th Ring) cons	nstruction and weld
BH1 : Diversion		52	23-Api-24	0-0011-24	-30						
Z3S7-2060	BH No. 1 - Temporary system and associated pipeworks for switchover to new BH1 for decomission of GH2	90	22-Apr-24	8-Aug-24	02						
		30	22-Abi-24	0-Aug-24	-52						
Utility Corridor	and Pipe Portal (UC/PP)										
UC1 : Predrilli		0	1 5-6.01	7 5-6 01	40		UC/PP - Predril UC&PP-PD2				
	0 UC/PP - Predrill UC&PP-PD2	б	1-Feb-24	7-Feb-24	-40						
Z3S5UC1-220	0 UC/PP - Predrill UC&PP-PD6	6	8-Feb-24	17-Feb-24	-40		UC/PP - Predrill UC&PP-PD6				



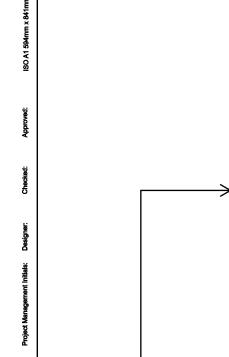
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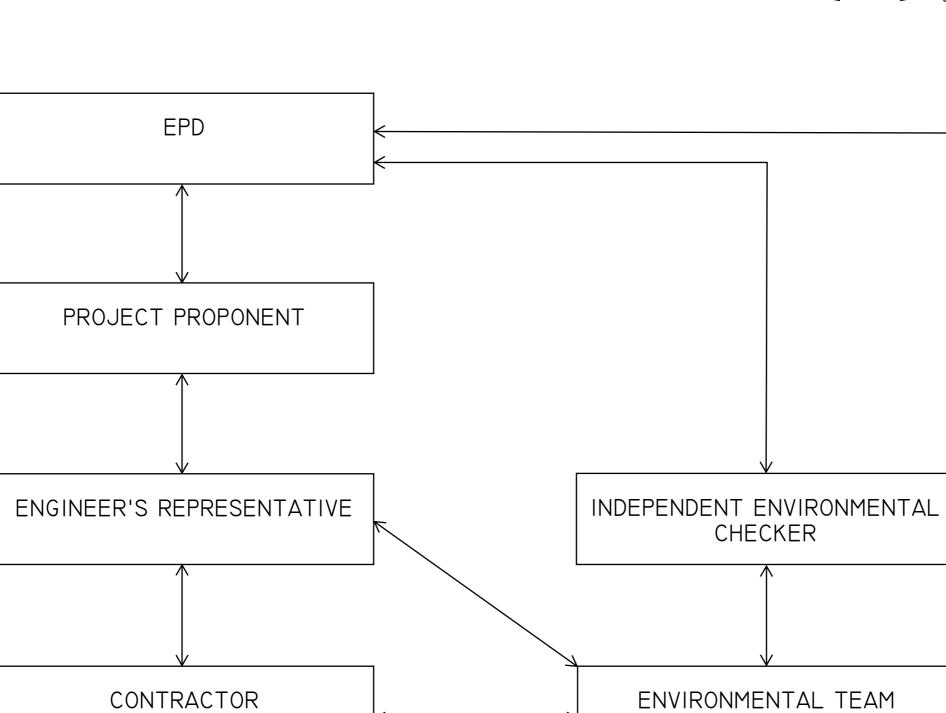
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	Monthly Progress Report - 3MRP							
RP	Date	Revision	Checked	Approved				
	31-Jan-24	Rev. 0						

Appendix B Project Organization Chart





LINE OF COMMUNICATION

LEGEND:



PROJECT ^{東目}

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

CLIENT



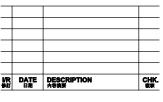
築務署 Drainage Services Departm

CONSULTANT 工程網開公司

AECOM Asia Company Ltd. www.aecom.com

SUB-CONSULTANTS 分判工程期間公司

ISSUE/REVISION



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KEY PLAN ★헤르

PROJECT NO. CE 3/2015 (DS)

CONTRACT NO.

60505476

SHEET TITLE

PROJECT ORGANISATION

SHEET NUMBER

Appendix C Action and Limit Levels

Action and Limit Levels for Air Quality

Parameters	Action Level	Limit Level
1-hour TSP Level in µg/m³	¹ For baseline level \leq 384 µg/m ³ , Action level = (baseline level * 1.3 + Limit level)/2; For baseline level > 384 µg/m ³ , Action level = Limit level	500 µg/m ³

Notes:

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

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

b) AM2 = (70*1.3 + 500) / 2 = 296 µg/m³.

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	Ionitoring	
DO in mg/L (Surface, Middle & Bottom) ²	Surface & Middle 5%-ile of baseline data for surface and middle layer. Bottom 5%-ile of baseline data for bottom layer.	Surface & Middle 4 mg/L or 1%-ile of baseline data for surface and middle layer. Bottom 2 mg/L or 1%-ile of baseline data for bottom layer.
SS in mg/L (depth-averaged ¹) ³	95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day	99%-ile of baseline data or 130% of upstream control station's SS recorded on the same day
Turbidity in NTU (depth-averaged ¹) ³	95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day	99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day
Notes:		

1. "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths;

2. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits;

3. For SS and turbidity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits

Action and Limit Levels for Ecology

Active Ardeid Night Roost Survey

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

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

1. Behavioural response of some kind more likely to occur

2. Flight with abandonment of the site becomes the most likely outcome of the disturbance

Ecological Monitoring of Birds

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

Air Quality Monitoring Equipment



SIBATA SCIENTIFIC TECHNOLOGY LTD. 1-1-62, Nakane, Soka, Saitama, 340-0005 Japan TEL. +81-48-933-1582 FAX. +81-48-933-1591

Date: January 23th, 2023

CALIBRATION CERTIFICATE

Equipment Name Code No. Quantity Serial No. Sensitivity Sensitivity Adjustment Scale Setting

- : Digital Dust Indicator, Model LD-5R
- : 080000-73
- : 1 unit
- : 2Y6548
- : 0.001 mg/m3
- : 545 CPM
- : November 15th, 2022.

We hereby certify that the above mentioned instrument has been calibrated satisfactory.

Sincerely

10ng Zhang (Signature) Tong Zhang Overseas & New Business Group VHO

Overseas Sales Department





Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report

Information of Calibrated Equipement								
Verification Test Date:	8-Apr-23	to	9-Apr-23		Next Verification Test Date:	8-Apr-24		
– Unit-under-Test- Model No.:		Sibata LD-5R		_				
– Unit-under-Test Serial No.:		2Y6548		_				
Our Report Refrence No.:	RP ⁻	T-23-HVS-004	45					
– Calibration Location:			E	Emax				

Standard Equipment Information

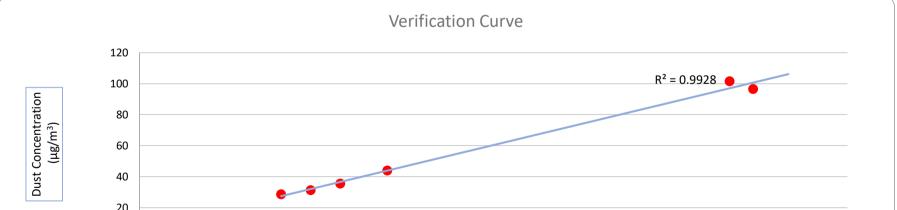
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5028A
Equipment serial no.:	1049	3702
Last Calibration Date:	8-Apr-23	31-Mar-23
Next Calibration Date:	7-Jun-23	30-Mar-24

Equipement Vertification Result

Verification		Duration			Duration Results from Calibrated Equipement	Results from Standard Equipment	
Test No.	Date	Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration (µg/m ³) y-axis
1	8/4/2023	7339.85	7342.85	180.00	2520	14	44
2	8/4/2023	7342.85	7345.85	180.00	2040	11	36
3	8/4/2023	7345.85	7348.85	180.00	6240	35	97
4	9/4/2023	7349.74	7352.74	180.00	1440	8	29
5	9/4/2023	7352.76	7355.76	180.00	1740	10	31
6	9/4/2023	7355.77	7358.77	180.00	6000	33	102

Linear Regression of y on x

Slope, K factor: 2.7466	Intercept:	5.4440	*Correlation Coefficient,R:	<u>0.9964</u>
Verification Test Result: Strong Correlation, Results were accepted.			If the Correlation Coefficient, R is <0.5. Check	ing and Re-verification are required.



20 0 0 10 15 5 20 25 30 35 40 Count/Minute Operated By: Andy Li 10-04-2023 Date: Project Technician, Environmental Checked By: 10-04-2023 Date: Tandy Tse Senior Consultant, Environmental



SIBATA SCIENTIFIC TECHNOLOGY LTD. 1-1-62, Nakane, Soka, Saitama, 340-0005 Japan TEL. +81-48-933-1582 FAX. +81-48-933-1591

Date: January 23th, 2023

CALIBRATION CERTIFICATE

Equipment Name Code No. Quantity Serial No. Sensitivity Sensitivity Adjustment Scale Setting

: Digital Dust Indicator, Model LD-5R

: 080000-73

: 1 unit

: 2Y6549

: 0.001 mg/m3

: 549 CPM

: November 15th, 2022.

We hereby certify that the above mentioned instrument has been calibrated satisfactory.

Sincerely

r Zhang (Signature) Tong Zhang Overseas & New Business Group **Overseas Sales Department**





Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report

Information of Calibrated Equipement							
Verification Test Date:	8-Apr-23	to	9-Apr-23	Next Verification Test Date:	8-Apr-24		
Unit-under-Test- Model No.:		Sibata LD-5R					
– Unit-under-Test Serial No.:		2Y6549					
– Our Report Refrence No.:	R	RPT-23-HVS-0046	6				
– Calibration Location:			Er	ax			

Standard Equipment Information

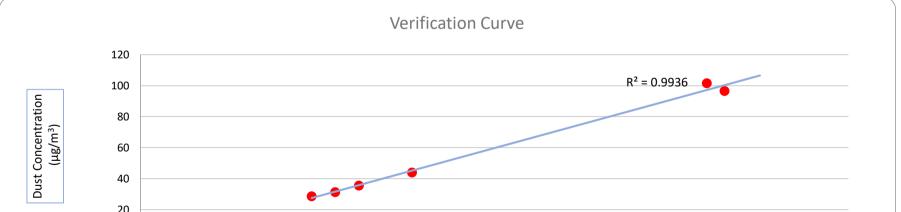
Verifica	ition Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard E	equipment Model No.:	TE-5170X	TE-5028A
	Equipment serial no.:	1049	3702
	Last Calibration Date:	8-Apr-23	31-Mar-23
	Next Calibration Date:	7-Jun-23	30-Mar-24

Equipement Vertification Result

Verification		Duration			Duration Results from Calibrated Equipement		Results from Standard Equipment
Test No.	Date	Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration (µg/m ³) y-axis
1	8/4/2023	7339.85	7342.85	180.00	2760	15	44
2	8/4/2023	7342.85	7345.85	180.00	2220	12	36
3	8/4/2023	7345.85	7348.85	180.00	5940	33	97
4	9/4/2023	7349.74	7352.74	180.00	1740	10	29
5	9/4/2023	7352.76	7355.76	180.00	1980	11	31
6	9/4/2023	7355.77	7358.77	180.00	5760	32	102

Linear Regression of y on x

Slope, K factor: <u>3</u> .	.1227 Intercept:	<u>-2.7291</u>	*Correlation Coefficient,R:	<u>0.9968</u>
Verification Test Result: Stron	g Correlation, Results were accepted.	*	If the Correlation Coefficient, R is <0.5. Check	ing and Re-verification are required.



20 0 0 10 15 5 20 25 30 35 40 Count/Minute Operated By: Andy Li 10-04-2023 Date: Project Technician, Environmental Checked By: 10-04-2023 Date: Tandy Tse Senior Consultant, Environmental

Noise Quality Monitoring Equipment



Certificate of Calibration

for

Sound Level Calibrator
RION
NC-74
34615222

Submitted by:

Customer: Acuity Sustainability Consulting Limited Address: Unit E, 12/F, Ford Glory Plaza, Nos. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

Upon receipt for calibration, the instrument was found to be:

\checkmark	Within
	Outside

Calibrated by:

the allowable tolerance.

The test equipments used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 16 March 2023

Date of calibration: 21 March 2023

Date of NEXT calibration: 20 March 2024

Calibration Technician

Date of issue: 21 March 2023

Certificate No.: APJ22-157-CC004

Certified by:

Mr. Ng Yan Wa Laboratory Manager



Page 1 of 2

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong Tel: (852) 2668 3423 Fax:(852) 2668 6946 Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com

(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

1. Calibration Precautions:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Specifications:

Calibration check

3. Calibration Conditions:

Air Temperature:	22.1 °C
Air Pressure:	1006 hPa
Relative Humidity:	61.7 %

4. Calibration Equipment:

Test Equipment	Туре	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV220120	HOKLAS

5. Calibration Results

5.1 Sound Pressure Level

Nominal value	Accept lower level dB	Accept upper level	Measured value
dB		dB	dB
94.0	93.6	94.4	93.9

Note:

The values given in this certification only related to the values measured at the time of the calibration.



Certificate No.: APJ22-157-CC004

Page 2 of 2



Cal Lab Limited 校正實驗室有限公司

Room 2103, Technology Plaza, 29-35 Sha Tsui Road, Tsuen Wan, NT, Hong Kong +852 25680106 Tel: Email: info@callab.com.hk Fax: +852 30116194 Website: www.callab.com.hk



N/A

Calibration Certificate No.: CC0292304

Customer Information

Customer: Acuity Sustainability Consulting Limited Address: Unit E, 12/F, Ford Glory Plaza, Nos. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

Equipment Identification

Equipment Description	Manufacturer	Model No.	Serial No.	Assigned equipment No.
Air Velocity Monitor	RS PRO	RS-90	210722153	ASCL-EQ-110
Certificate Information				
Date of Receipt:	24 April 2023		Calibration Condition:	23.3°C, 57%RH, 1002hPa
Date of Calibration:	5 May 2023		Adjustment:	N/A
Due Date of Calibration:	N/A		Appearance:	Good
Calibration Procedure:	SOP-112		Remark:	N/A

Remark:

Reference Equipment Identification

Equipment Description	Model	Serial No.	Expiration Date	
Hot Wire Anemometer	9535	T95351316004	11 August 2024	-

Result of Calibration

Air flow rate

Reference reading (m/s)	Measured reading (m/s)	Error (%)	Uncertainty (%FS)	Technical Requirement (m/s)	Technical Reference Doc.
1.02	1.03	1.0	3.6	± 0.33	Mfr's Spec.
2.99	2.97	-0.7	3.6	± 0.39	Mfr's Spec.
5.03	4.92	-2.2	3.6	± 0.45	Mfr's Spec.
6.98	6.86	-1.7	3.6	± 0.51	Mfr's Spec.
9.97	9.76	-2.1	3.6	± 0.60	Mfr's Spec.

CT-AFR-01

The estimated expanded uncertainties have been calculated in "Evaluation and expression of uncertainty in measurement" and give an internal estimated to have a level Note1: of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

Note2: The standard (s) and instrument used in the calibration are traceable to national or international recognized standard and are calibrated on a schedule to maintain the accuracy and good condition.

The result reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long term stability of the Note3: instrument.

Note4: The result shows in this calibration certificate relate only to the item calibrated, and the result only applies to the calibration item as received

Checked and Approved By:

Calibrated By:

Wing Cheng

Warren Yeung

Company Chop:



Certificate Issue Date: 5 May 2023

*** End of Certificate ***

CT-BEG-03

1. The certificate shall not be reproduced except in full, without written approval of Cal Lab Calibration

2. The certificate is issued subject to the latest Terms and Conditions, available at our web site

CC0292304 Page 1 of 1



Certificate of Calibration

for

Description:	Sound Level Calibrator
Manufacturer:	SVANTEK
Type No.:	SV33B
Serial No.:	83042

Submitted by:

Customer:	Acuity Sustainability Consulting Limited
Address:	Unit E, 12/F, Ford Glory Plaza,
	Nos. 37-39 Wing Hong Street,
	Cheung Sha Wan, Kowloon,
	Hong Kong

Upon receipt for calibration, the instrument was found to be:

\checkmark	Within
	Outside

the allowable tolerance.

The test equipments used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 2 May 2023

Date of calibration: 9 May 2023

Date of NEXT calibration: 8 May 2024

Calibrated by: Calibration Technician

Certified by:______

Mr. Ng Yan Wa

Laboratory Manager Page 1 of 2

Date of issue: 9 May 2023

Certificate No.: APJ22-157-CC005

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong Tel: (852) 2668 3423 Fax:(852) 2668 6946 Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com

(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

1. Calibration Precautions:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Specifications:

Calibration check

3. Calibration Conditions:

Air Temperature:	22.4 °C
Air Pressure:	1006 hPa
Relative Humidity:	60.9 %

4. Calibration Equipment:

Test Equipment	Туре	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV220120	HOKLAS

5. Calibration Results

5.1 Sound Pressure Level

Nominal value	Accept lower level	Accept upper level	Measured value
dB	dB	dB	dB
114.0	113.6	114.4	114.2

Note:

The values given in this certification only related to the values measured at the time of the calibration.



Certificate No.: APJ22-157-CC005

Certificate of Calibration

for

Description:	Sound Level Meter
Manufacturer:	NTi Audio
Type No.:	XL2 (Serial No.: A2A-13548-E0)
Microphone:	ACO 7052 (Serial No.:73912)
Preamplifier:	NTi Audio M2211 MA220 (Serial No.:5735)

Submitted by:

Customer: Acuity Sustainability Consulting Limited Address: Unit E, 12/F, Ford Glory Plaza, Nos. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

Upon receipt for calibration, the instrument was found to be:

✓ Within (31.5Hz − 8kHz)□ Outside

the allowable tolerance.

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 2 February 2023

Date of calibration: 6 February 2023

Date of NEXT calibration: 5 February 2024

Calibrated by:

Calibration Technician

Certified by:

Mr. Ng Yan Wa Laboratory Manager



Page 1 of 4

Certificate No.: APJ22-124-CC001

Date of issue: 6 February 2023

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong Tel: (852) 2668 3423 Fax:(852) 2668 6946 Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com

(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

1. Calibration Precaution:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Conditions:

Air Temperature:	23.9°C
Air Pressure:	1006 hPa
Relative Humidity:	47.9 %

3. Calibration Equipment:

	Туре	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. V	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	94.1	±0.4

Linearity

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.1	Ref
30-130	dBA	SPL	Fast	104	1000	104.1	±0.3
				114		114.1	±0.3

Time Weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	Fast	04	1000	94.1	Ref
30-130 dBA	. SFL	Slow	94	1000	94.1	±0.3	

Page 2 of 4

Certificate No.: APJ22-124-CC001

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong Tel: (852) 2668 3423 Fax:(852) 2668 6946 Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com



Frequency Response

Linear Response

Setting of Unit-under-test (UUT)				Appl	Applied value		IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	94.1	±2.0
					63	94.2	±1.5
					125	94.1	±1.5
					250	94.1	±1.4
30-130	dB	SPL	Fast	94	500	94.2	±1.4
					1000	94.1	Ref
					2000	94.5	±1.6
					4000	95.2	±1.6
					8000	94.9	+2.1; -3.1

A-weighting

Setting of Unit-under-test (UUT)				Appl	Applied value		IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	54.8	-39.4 ±2.0
					63	68.0	-26.2±1.5
					125	78.0	-16.1±1.5
					250	85.5	-8.6±1.4
30-130	dBA	SPL	Fast	94	500	91.0	-3.2 ± 1.4
					1000	94.1	Ref
					2000	95.7	$+1.2\pm1.6$
					4000	96.2	$+1.0 \pm 1.6$
					8000	93.9	-1.1+2.1; -3.1

C-weighting

Setting of Unit-under-test (UUT)			Appl	Applied value		IEC 61672 Class	
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	91.2	-3.0±2.0
					63	93.4	-0.8 ± 1.5
					125	94.0	-0.2 ± 1.5
					250	94.1	-0.0 ± 1.4
30-130	dBC	SPL	Fast	94	500	94.2	-0.0 ± 1.4
					1000	94.1	Ref
					2000	94.3	-0.2 ±1.6
					4000	94.4	-0.8 ± 1.6
					8000	92.0	-3.0 +2.1: -3.1

Certificate No.: APJ22-124-CC001



Page 3 of 4

(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

	1	
94 dB	31.5 Hz	\pm 0.10
	63 Hz	± 0.10
	125 Hz	± 0.10
	250 Hz	± 0.05
	500 Hz	± 0.10
	1000 Hz	\pm 0.05
	2000 Hz	\pm 0.05
	4000 Hz	± 0.05
	8000 Hz	± 0.10
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. (A+A)*L shall not be liable for any loss or damage resulting from the use of the equipment.



Certificate No.: APJ22-124-CC001



Manufacturer Calibration Certificate

The following instrument has been tested and calibrated to the manufacturer specifications. The calibration is traceable in accordance with ISO/IEC 17025 covering all instrument functions.

- Device Type: XL2 Audio and Acoustic Analyzer
- Serial Number: A2A-13663-F0

- Certificate Issued: 15 February 2023
- Certificate Number: 44972-A2A-13663-F0
- Results:

PASSED (for detailed report see next page)

Tested by:

Signature:

Stamp:

M. Frick Audio AG NI Im alten Rist 102 LI - 9494 Schaan www.nti-audio.com

Calibration of:	XL2 Audio and Acoustic Analyzer
Serial Number:	A2A-13663-F0
Date:	15 February 2023

· Detailed Calibration Test Results:

RMS Level @ 1kHz, XLR I	reference nput 0.1 1 10	actual 0.100 0.999 9.982	unit V V V	actual error ≤0.1% -0.1% -0.2%	XL2 tolerance ±0.5% ±0.5% ±0.5%	calibration uncertainty ² $\pm 0.10\%$ $\pm 0.09\%$ $\pm 0.09\%$
riddrood, rizi i input	20 Hz 1 20 kHz 1	0.995 1.003	V V	-0.5% 0.3%	±1.1% ±1.1%	±0.09% ±0.09%
Frequency	1000	1000.00	Hz	≤0.003%	±0.003%	±0.01%
Residual Noise	XLR	< 2 uV			<2 uV	±0.50%
THD+N @ 0 dBu, 1 kHz, X	(LR Input	-100.5	dB		typ100 dB	±0.50%

- 24.9 °C Temperature: Test Conditions: 19.8 % **Relative Humidity:**
- · Calibration Equipment Used:
- Agilent Multimeter, Typ 34401A, Serial No. MY 5300 4607 Last calibration: 15.09.2022, Next calibration: 15.09.2023 Calibrated by ELCAL to the national standards maintained at Swiss Federal Office of Metrology. SCS 0002

- FX100 Audio Analyzer, Serial No. 10408 Last Calibration: 11.10.2022, Next Calibration: 11.10.2023 Manufacturer calibration based on Agilent 34410, Serial No. MY47014254, Last Calibration: 26.05.2022, Next Calibration: 26.05.2023 which is calibrated by ELCAL to national standards maintained at Swiss Federal Office of Metrology. SCS 002

¹ The specified tolerance +/-0.1 dB @ 1V = +/-1.1%

² The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with the regulations of the GUM.

Certificate of Calibration

for

Description:	Sound Level Meter
Manufacturer:	NTi Audio
Type No.:	XL2 (Serial No.: A2A-17638-E0)
Microphone:	ACO 7052 (Serial No.:84413)
Preamplifier:	NTi Audio M2211 MA220 (Serial No.:7014)
	Submitted by:
Customer:	Acuity Sustainability Consulting Limited
Address:	Unit E, 12/F, Ford Glory Plaza,
	Nos. 37-39 Wing Hong Street,
	Cheung Sha Wan, Kowloon, Hong Kong

Upon receipt for calibration, the instrument was found to be:

✓ Within (31.5Hz - 8kHz)□ Outside

the allowable tolerance.

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 30 March 2023

Date of calibration: 04 April 2023

Date of NEXT calibration: 03 April 2024

Calibrated by:

Calibration Technician

Date of issue: 04 April 2023

Certificate No.: APJ22-164-CC001

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Page 1 of 4

(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

1. Calibration Precaution:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Conditions:

Air Temperature:	21.6 °C
Air Pressure:	1005 hPa
Relative Humidity:	71.6 %

3. Calibration Equipment:

	Туре	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

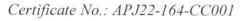
Setting of Unit-under-test (UUT)			Appl	ied value	UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	94.1	±0.4

Linearity

Setting of Unit-under-test (UUT)				Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.1	Ref
30-130	dBA	SPL	Fast	104	1000	104.1	±0.3
			114		114.1	±0.3	

Time Weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	94.1	Ref
50-150	dBA SPL	Slow	94	1000	94.1	±0.3	





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Frequency Response

Linear Response

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1					
Range, dB	Freq. W	/eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB				
					31.5	94.1	±2.0				
					63	94.1	±1.5				
					125	94.1	±1.5				
					250	94.0	±1.4				
30-130 dB	dB SPL	Fast	94	500	94.1	±1.4					
									1000	94.1	Ref
					2000	94.3	±1.6				
					4000	94.9	±1.6				
					8000	93.9	+2.1: -3.1				

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	54.7	-39.4 ±2.0
					63	67.9	-26.2±1.5
					125	78.0	-16.1±1.5
30-130 dBA					250	85.4	-8.6±1.4
	BA SPL	Fast	94	500	90.9	-3.2 ± 1.4	
					1000	94.1	Ref
				2000	95.5	$+1.2 \pm 1.6$	
			4000	95.9	$+1.0 \pm 1.6$		
					8000	92.8	-1.1+2.1; -3.1

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1									
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB								
					31.5	91.0	-3.0±2.0								
					63	93.3	-0.8 ± 1.5								
					125	93.9	-0.2 ± 1.5								
					250	94.1	-0.0 ± 1.4								
30-130	dBC	SPL	Fast	94	500	94.2	-0.0 ± 1.4								
														1000	94.1
					2000	94.2	-0.2 ± 1.6								
					4000	94.1	-0.8 ± 1.6								
					8000	90.9	-3.0 +2.1: -3.1								

Certificate No.: APJ22-164-CC001



Page 3 of 4

(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.10
	63 Hz	± 0.10
	125 Hz	± 0.05
	250 Hz	± 0.05
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
	8000 Hz	± 0.10
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. (A+A)*L shall not be liable for any loss or damage resulting from the use of the equipment.



Page 4 of 4

Certificate No.: APJ22-164-CC001

Water Quality Monitoring Equipment



Test Report No.:Date of Issue:Page No.:

: R-BC120002 : 05 December 2023 : 1 of 2

PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited

Unit E, 12/F, Ford Glory Plaza 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment :	YSI ProDSS (Multi-Parameters)	
Manufacturer :	YSI (a xylem brand)	
Serial Number :	22D100436	
Date of Received :	01 December 2023	
Date of Calibration :	04 December 2023	
Date of Next Calibration :	03 March 2024	
Request No. :	D-BC120002	

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

e Method
e 4500-H+ B
of international Accreditation New Zealand Technical Guide no. 3 Second edition March
rking Thermometer Calibration Procedure
e 2520 B
e 4500-O G (Membrane Electrode Method)
e 2130 B (Nephelometric Method)

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.13	0.13	Satisfactory
7.42	7.45	0.03	Satisfactory
10.01	10.02	0.01	Satisfactory

Tolerance of pH value should be less than \pm 0.2 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
36	35.5	-0.5	Satisfactory
25	24.8	-0.2	Satisfactory
15	15.1	0.1	Satisfactory

Tolerance of Temperature should be less than \pm 2.0 ($^{\circ}C$)

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.57	-4.30	Satisfactory
20	19.14	-4.30	Satisfactory
30	29.99	-0.03	Satisfactory

Tolerance of Salinity should be less than \pm 10.0 (%)

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-ning Assistant Manager



Test Report No.	: R-BC120002
Date of Issue	: 05 December 2023
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(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
7.99	8.35	0.36	Satisfactory
5.00	5.10	0.10	Satisfactory
2.58	2.40	-0.18	Satisfactory
0.10	0.20	0.10	Satisfactory

Tolerance of Dissolved oxygen should be less than \pm 0.5 (mg/L)

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.50		Satisfactory
10	9.88	-1.2	Satisfactory
20	18.35	-8.2	Satisfactory
100	95.10	-4.9	Satisfactory
800	736.55	-7.9	Satisfactory

Tolerance of Turbidity should be less than ± 10.0 (%)

Remark(s)

•The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards. •The results relate only to the calibrated equipment as received

•The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

"Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.

•The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

--- END OF REPORT ---



Test Report No. Date of Issue Page No.

: R-BD010030 : 25 January 2024 : 1 of 2

PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited

Unit E, 12/F, Ford Glory Plaza 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment :	YSI ProDSS (Multi-Parameters)	
Manufacturer :	YSI (a xylem brand)	
Serial Number :	22C106561	
Date of Received :	22 January 2024	
Date of Calibration :	24 January 2024	
Date of Next Calibration :	24 April 2024	
Request No. :	D-BD010030	

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

<u>Test Parameter</u>	Reference Method
pH value	APHA 21e 4500-H ⁺ B
Temperature	Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March
	2008: Working Thermometer Calibration Procedure
Salinity	APHA 21e 2520 B
Dissolved oxygen	APHA 23e 4500-O G (Membrane Electrode Method)
Turbidity	APHA 21e 2130 B (Nephelometric Method)

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.02	0.02	Satisfactory
7.42	7.45	0.03	Satisfactory
10.01	10.05	0.04	Satisfactory

Tolerance of pH value should be less than \pm 0.2 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
33	34.1	1.1	Satisfactory
19	18.7	-0.3	Satisfactory
11	11.5	0.5	Satisfactory

Tolerance of Temperature should be less than \pm 2.0 ($^{\circ}C$)

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result	
10	10.19	1.90	Satisfactory	
20	21.27	6.35	Satisfactory	
30	30.21	0.70	Satisfactory	

Tolerance of Salinity should be less than $\pm\,10.0$ (%)

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-ning Assistant Manager



Test Report No.	:R-BD010030
Date of Issue	: 25 January 2024
Page No.	: 2 of 2

(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
8.60	8.89	0.29	Satisfactory
5.33	5.70	0.37	Satisfactory
3.40	3.50	0.10	Satisfactory
0.34	0.26	-0.08	Satisfactory

Tolerance of Dissolved oxygen should be less than \pm 0.5 (mg/L)

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result	
0	0.50		Satisfactory	
10	9.88	-1.2	Satisfactory	
20	18.35	-8.2	Satisfactory	
100	95.10	-4.9	Satisfactory	
800	736.55	-7.9	Satisfactory	

Tolerance of Turbidity should be less than \pm 10.0 (%)

Remark(s)

•The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards. •The results relate only to the calibrated equipment as received

•The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

"Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.

•The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

--- END OF REPORT ----

Appendix E Environmental Monitoring Schedule

Environmental Monitoring Schedule (February 2024)

Sun	Mon	Tue	Wed	Thur	Fri	Sat
				1 AQM, NM	2 WQM Mid Flood (17:55) Mid Ebb (11:35)	3
4	5 AQM, NM, EMB (Day), WQM Mid Flood (18:01) Mid Ebb (08:49)	6	7 WQM Mid Flood (11:55) Mid Ebb (09:30)	8	9 AQM, WQM Mid Flood (13:15) Mid Ebb (08:13)	10
11	12 WQM Mid Flood (15:25) Mid Ebb (09:45)	13	14 WQM Mid Flood (16:35) Mid Ebb (10:30)	15 AQM, NM	16 WQM Mid Flood (18:00) Mid Ebb (11:19)	17
18	19 WQM Mid Flood (18:15) Mid Ebb (09:25)	20	21 AQM, NM, WQM Mid Flood (12:00) Mid Ebb (09:30)	22	23 WQM Mid Flood (13:08) Mid Ebb (08:00)	24
25	26 WQM Mid Flood (14:30) Mid Ebb (08:56)	27 AQM, NM	28 WQM, EMB (Night), ANRM Mid Flood (15:26) Mid Ebb (09:30)	29		

Remarks:

1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.

2. Air Quality Monitoring (AQM): 3 x 1-hour TSP Monitoring per 6 days.

- 3. Noise Monitoring (NM): Leq (30 min) during between 0700 1900.
- 4. Water Quality Monitoring (WQM): Once per day for 3 days per week.
- 5. Ecological Monitoring of Birds (EMB): Once per month.
- 6. Ardeid Night Roost Monitoring (ANRM): Once per month.
- 7. Air Quality Location: AM1 and AM2
- Noise Monitoring Location: CM1, CM2 and CM3
 Water Quality Monitoring Location: M1, M2, M3

Environmental Monitoring Schedule (March 2024)

Sun	Mon	Tue	Wed	Thur	Fri	Sat
					1 WQM Mid Flood (10:00) Mid Ebb (16:20)	2
3	4 WQM, AQM, NM, EMB (Day) Mid Flood (09:15) Mid Ebb (17:00)	5	6 WQM Mid Flood (09:50)	7	8 WQM, AQM Mid Flood (17:15) Mid Ebb (12:30)	9
10	11 WQM Mid Flood (09:00) Mid Ebb (13:15)	12	13 WQM Mid Flood (09:30) Mid Ebb (15:30)	14 AQM, NM	15 WQM Mid Flood (09:43) Mid Ebb (16:50)	16
17	18 WQM Mid Flood (12:40) Mid Ebb (17:55)	19	20 WQM, AQM, NM Mid Flood (09:20)	21	22 WQM Mid Flood (17:30) Mid Ebb (12:00)	23
24	25 WQM, ANRM Mid Flood (08:10) Mid Ebb (13:00)	26 AQM, NM	27 WQM, AQM Mid Flood (09:00) Mid Ebb (14:10)	28	29 WQM Mid Flood (08:50) Mid Ebb (15:20)	30
31						

Remarks:

- 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.
- 2. Air Quality Monitoring (**AQM**): 3 x 1-hour TSP Monitoring per 6 days.
- 3. Noise Monitoring (NM): Leq (30 min) during between 0700 1900.
- 4. Water Quality Monitoring (WQM): Once per day for 3 days per week.

- 5. Ecological Monitoring of Birds (EMB): Once per month.
- 6. Ardeid Night Roost Monitoring (ANRM): Once per month.
- 7. Air Quality Location: AM1 and AM2.
- 8. Noise Monitoring Location: CM1, CM2 and CM3.
- 9. Water Quality Monitoring Location: M1, M2, M3.

Environmental Monitoring Schedule (April 2024)

Sun	Mon	Tue	Wed	Thur	Fri	Sat
	1 WQM Mid Flood (11:30) Mid Ebb (17:00)	2 AQM, NM	3 WQM Mid Flood (12:30) Mid Ebb (18:00)	4	5 WQM Mid Flood (15:00) Mid Ebb (08:30)	6
7	8 WQM, AQM, NM Mid Flood (16:30) Mid Ebb (11:30)	9	10 WQM Mid Flood (08:30) Mid Ebb (13:30)	11	12 WQM, AQM Mid Flood (10:00) Mid Ebb (14:30)	13
14	15 WQM, EMB (Day), ANRM Mid Flood (11:40) Mid Ebb (17:00)	16	17 WQM Mid Flood (12:30) Mid Ebb (18:03)	18 AQM, NM	19 WQM Mid Flood (14:00) Mid Ebb (07:30)	20
21	22 WQM Mid Flood (16:00) Mid Ebb (11:50)	23	24 WQM, AQM, NM Mid Flood (08:30) Mid Ebb (13:03)	25	26 WQM Mid Flood (09:00) Mid Ebb (14:00)	27
28	29 WQM Mid Flood (10:50) Mid Ebb (15:03)	30 AQM, NM	31 WQM Mid Flood (11:00) Mid Ebb (17:00)			

Remarks:

1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.

- 2. Air Quality Monitoring (**AQM**): 3 x 1-hour TSP Monitoring per 6 days.
- 3. Noise Monitoring (NM): Leq (30 min) during between 0700 1900.
- 4. Water Quality Monitoring (**WQM**): Once per day for 3 days per week.

- 5. Ecological Monitoring of Birds (**EMB**): Once per month.
- 6. Ardeid Night Roost Monitoring (ANRM): Once per month.
- 7. Air Quality Location: AM1 and AM2.
- 8. Noise Monitoring Location: CM1, CM2 and CM3.
- 9. Water Quality Monitoring Location: M1, M2, M3.

Appendix F Environmental Monitoring Results

Air Quality Monitoring Results

1-hour TSP Monitoring Result for Contract No. SPW 02/2023 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1

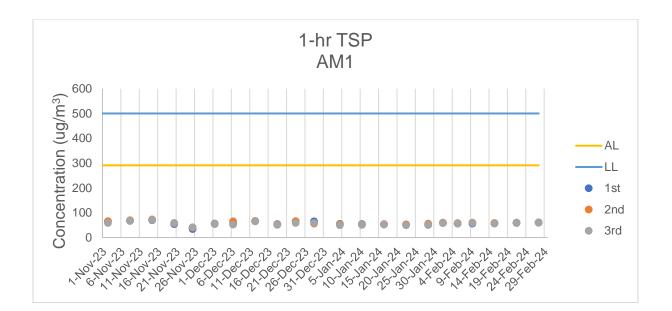
			1	1-hour TSP (µg/m³)			
Date	Weather	Start	1st	2nd	3rd	Action Level	Limit Level
	Condition	Time	Measurement	Measurement	Measurement	(ug/m ³)	(ug/m ³)
1/02/2024	sunny	9:10	59	60	58		
5/02/2024	sunny	8:22	56	58	56	291	
9/02/2024	sunny	9:33	56	60	59		500
15/02/2024	sunny	9:16	57	59	57	291	500
21/02/2024	sunny	8:33	59	60	60		
27/02/2024	sunny	9:21	60	61	61	ĺ	
		Min		56			
		Max		61			
		Average		59			

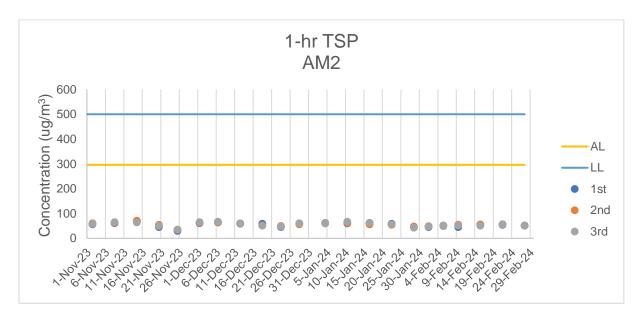
AM1 - Topfine Machinery (China) Co. Ltd.

AM2 - Squatter house at the west of Yuen Long STW

			1	-hour TSP (µg/m	l ³)		
Date	Weather	Start	1st	2nd	3rd	Action Level	Limit Level
	Condition	Time	Measurement	Measurement	Measurement	(ug/m ³)	(ug/m ³)
1/02/2024	sunny	13:21	45	49	48		
5/02/2024	sunny	13:22	50	52	51		
9/02/2024	sunny	13:44	45	55	52	296	500
15/02/2024	sunny	14:21	55	56	51	290	500
21/02/2024	sunny	13:01	54	57	56		
27/02/2024	sunny	13:22	51	52	52		
		Min		45			
		Max		57			
		Average		52			

Note: <u>Underline</u>: Exceedance of Action Level <u>Underline and Bold</u>: Exceedance of Limit Level





Air Quality Monitoring Results

Noise Monitoring Results

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

Date	Start Time	L _{eq} 30min dB(A)	L ₁₀ dB(A)	L ₉₀ dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
1/02/2024	10:13	62.3	64.4	58.4	0.3	sunny	75
5/02/2024	10:31	62.3	63.9	58.1	1.8	sunny	75
15/02/2024	11:14	64.4	66.3	59.1	3.4	sunny	75
21/02/2024	09:57	63.1	65.4	58.3	3.1	sunny	75
27/02/2024	10:23	63.5	66.6	58	2.5	sunny	75
	Max	64.4					
	Min	62.3					

CM1 - Squatter house to the north of YLSTW

CM2 - Squatter house to the west of YLSTW

			L ₁₀	L ₉₀	Wind Speed		Limit Level
Date	Start Time	L _{eg} 30min dB(A)	dB(A)	dB(A)	(m/s)	Weather	dB(A)
1/02/2024	13:21	61.1	64.5	58.2	2.2	sunny	75
5/02/2024	13:22	62.1	65.4	57.5	1.9	sunny	75
15/02/2024	14:21	62.9	65.9	59.2	2	sunny	75
21/02/2024	13:01	61.4	64.5	58.3	4	sunny	75
27/02/2024	13:22	63.1	66.3	57.2	2.1	sunny	75
	Max	63.1					
	Min	61.1					

CM3 - Squatter house to the east of YLSTW

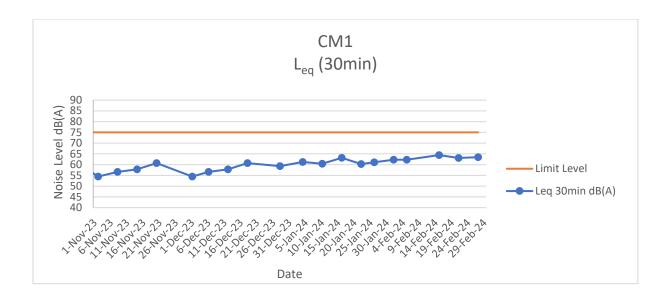
Date	Start Time	L _{eg} 30min dB(A)	L ₁₀ dB(A)	L ₉₀ dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
1/02/2024	14:41	62.3	65.2	58.6	3.4	sunny	75
5/02/2024	14:56	61.5	64.9	57.5	1.8	sunny	75
15/02/2024	15:17	62.2	66.5	58.2	2.4	sunny	75
21/02/2024	14:06	63.1	67.2	57.2	3.7	sunny	75
27/02/2024	14:38	61.9	65.3	56.5	3.6	sunny	75
	Max	63.1					
		a					

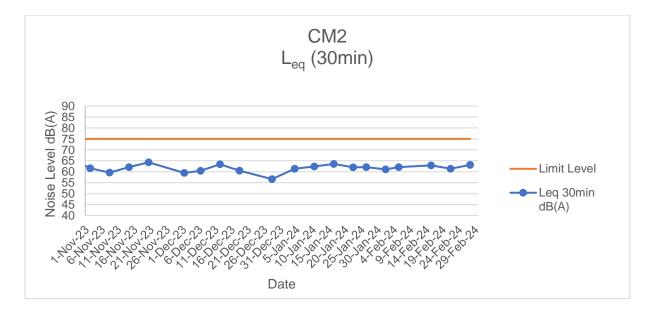
Min 61.5

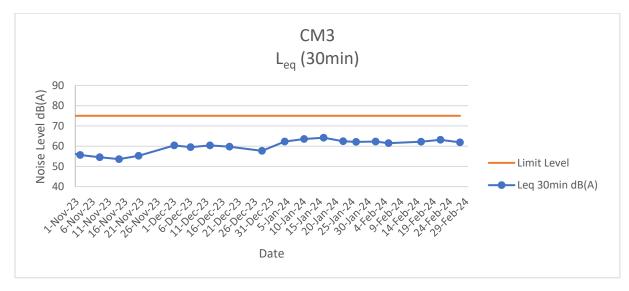
Note:

CM1, CM2 and CM3: Free-field measurement (+3dB(A) correction has been applied).

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







Noise Monitoring Results

Water Quality Monitoring Results

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Level (m)

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 | Current
Speed
(m/s) | Current
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(°) | pł | Ŧ | Salinity
 | (ppt) | | | | | DO (r | ng/L) | Turbidity | y (NTU)
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Solids | |
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 |
 | | | Value | Ave. | Value
 | Ave. | Value | Ave. | Value | Ave. | Value | Ave. | Value | Ave.
 | Value | Ave. |
| 2/02/2024 | Mid-Flood | Cloudy | Low | 17:56 | 2.7 | М | 1.35

 | 1
 | 0.085 | 166 334 | 7.26 | 7.26 | 3.44
 | 3 /7 | 20.9 | 20.00 | 35.6 | 35 11 | 2.68 | 2.67 | 22.40 | 22 425
 | 36 | 37 |
| 2/02/2024 | Mid-Flood | Cloudy | Low | 17:57 | 2.7 | М | 1.35

 | 2
 | 0.000 | 100.004 | 7.26 | 1.20 | 3.5
 | 5.47 | 20.9 | 20.30 | 35.2 | 55.44 | 2.65 | 2.07 | 22.45 | 22.425
 | 37 | 57 |
| 2/02/2024 | Mid-Flood | Cloudy | Low | 18:24 | 2.4 | М | 1.20

 | 1
 | 0.073 | 181 045 | 7.24 | 7 25 | 3.35
 | 3 37 | 20.9 | 20.95 | 34.8 | 34 51 | 2.62 | 2.60 | 18.59 | 18.4
 | 28 | 28 |
| 2/02/2024 | Mid-Flood | Cloudy | Low | 18:24 | 2.4 | М | 1.20

 | 2
 | 0.075 | 101.045 | 7.26 | 1.25 | 3.38
 | 5.57 | 21 | 20.35 | 34.2 | 54.51 | 2.57 | 2.00 | 18.21 | 10.4
 | 27 | 20 |
| 2/02/2024 | Mid-Flood | Cloudy | Low | 18:11 | 2.2 | М | 1.10

 | 1
 | 0.074 | 170 863 | 7.22 | 7 23 | 3.60
 | 3 56 | 20.9 | 20.90 | 36.3 | 35.84 | 3.46 | 3 /1 | 33.90 | 34.04
 | 46 | 47 |
| 2/02/2024 | Mid-Flood | Cloudy | Low | 18:13 | 2.2 | М | 1.10

 | 2
 | 0.074 | 173.005 | 7.24 | 1.25 | 3.52
 | 5.50 | 20.9 | 20.30 | 35.4 | 55.04 | 3.35 | 5.41 | 34.18 | 34.04
 | 47 | 77 |
| 2/02/2024 | Mid-Ebb | Cloudy | Low | 12:01 | 2.4 | М | 1.20

 | 1
 | 0.075 | 227.96 | 7.2 | 7.21 | 3.30
 | 2.24 | 21.1 | 21.15 | 34.0 | 2/ 11 | 2.56 | 2.57 | 19.55 | 10.6
 | 39 | 39 |
| 2/02/2024 | Mid-Ebb | Cloudy | Low | 12:01 | 2.4 | М | 1.20

 | 2
 | 0.075 | 337.00 | 7.21 | 1.21 | 3.37
 | 3.34 | 21.2 | 21.15 | 34.2 | 54.11 | 2.57 | 2.57 | 19.65 | 19.0
 | 38 | 39 |
| 2/02/2024 | Mid-Ebb | Cloudy | Low | 11:35 | 2.2 | М | 1.10

 | 1
 | 0.079 | 332 002 | 7.18 | 7 17 | 3.30
 | 3.26 | 21.1 | 21 15 | 36.0 | 35.08 | 2.71 | 2 71 | 16.71 | 16.6
 | 32 | 37 |
| 2/02/2024 | Mid-Ebb | Cloudy | Low | 11:36 | 2.2 | М | 1.10

 | 2
 | 0.079 | 552.992 | 7.16 | 1.17 | 3.21
 | 5.20 | 21.2 | 21.10 | 35.9 | 55.90 | 2.7 | 2.71 | 16.49 | 10.0
 | 42 | 57 |
| 2/02/2024 | Mid-Ebb | Cloudy | Low | 12:12 | 2 | М | 1.00

 | 1
 | 0.064 | 221 204 | 7.18 | 7 1 0 | 3.21
 | 2 26 | 21.1 | 21.10 | 36.7 | 25 71 | 3.58 | 2.59 | 36.89 | 26.05
 | 33 | 31 |
| 2/02/2024 | Mid-Ebb | Cloudy | Low | 12:12 | 2 | М | 1.00

 | 2
 | 0.004 | 521.254 | 7.17 | 7.10 | 3.3
 | 3.20 | 21.1 | 21.10 | 34.7 | 55.71 | 3.58 | 3.50 | 37.01 | 30.95
 | 28 | 31 |
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/02/2024 | /02/2024 Mid-Flood /02/2024 Mid-Ebb /02/2024 Mid-Flood /02/2024 Mid-Flood /02/2024 Mid-Flood /02/2024 Mid-Flood /02/2024 Mid-Flood | 02/2024 Mid-Flood Cloudy 02/2024 Mid-Ebb Cloudy | Date Tide Mode Weather Condition (02/2024 Mid-Flood Cloudy Low (02/2024 Mid-Ebb Cloudy Low | Date Tide Mode Weather Condition Time /02/2024 Mid-Flood Cloudy Low 17:56 /02/2024 Mid-Flood Cloudy Low 17:57 /02/2024 Mid-Flood Cloudy Low 18:24 /02/2024 Mid-Flood Cloudy Low 18:24 /02/2024 Mid-Flood Cloudy Low 18:13 /02/2024 Mid-Flood Cloudy Low 18:13 /02/2024 Mid-Flood Cloudy Low 18:13 /02/2024 Mid-Ebb Cloudy Low 12:01 /02/2024 Mid-Ebb Cloudy Low 11:36 /02/2024 Mid-Ebb Cloudy Low 12:12 | Date Tide Mode Weather Condition Time Depth
(m) 002/2024 Mid-Flood Cloudy Low 17:56 2.7 002/2024 Mid-Flood Cloudy Low 17:57 2.7 002/2024 Mid-Flood Cloudy Low 18:24 2.4 002/2024 Mid-Flood Cloudy Low 18:24 2.4 002/2024 Mid-Flood Cloudy Low 18:11 2.2 002/2024 Mid-Flood Cloudy Low 18:11 2.2 002/2024 Mid-Flood Cloudy Low 18:11 2.2 002/2024 Mid-Ebb Cloudy Low 12:01 2.4 002/2024 Mid-Ebb Cloudy Low 11:35 2.2 002/2024 Mid-Ebb Cloudy Low 11:35 2.2 002/2024 Mid-Ebb Cloudy Low 11:35 2.2 02/2024 Mid-Ebb Cloudy Low | Date Tide Mode Weather Sea
Condition Time Depth
(m) Monitoring
Level 002/2024 Mid-Flood Cloudy Low 17:56 2.7 M 002/2024 Mid-Flood Cloudy Low 17:57 2.7 M 002/2024 Mid-Flood Cloudy Low 18:24 2.4 M 002/2024 Mid-Flood Cloudy Low 18:24 2.4 M 002/2024 Mid-Flood Cloudy Low 18:11 2.2 M 002/2024 Mid-Flood Cloudy Low 18:13 2.2 M 002/2024 Mid-Ebb Cloudy Low 12:01 2.4 M 002/2024 Mid-Ebb Cloudy Low 11:35 2.2 M 002/2024 Mid-Ebb Cloudy Low 11:36 2.2 M 002/2024 Mid-Ebb Cloudy Low 11:36 2.2 M 002/2024 <t< td=""><td>Date Tide Mode Weather Sea
Condition Time Depth
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Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)

2. Red and Bold: Limit Level Exceedance (For Impact Station Only)

3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.

4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.

5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.

FUI FIOOD IIDE						
Monitoring	D	0	N	ΓU	S	S
Location	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167
For Ebb Tide						

Monitoring	D	0	N.	τU	S	S
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

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Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicat	Current Speed (m/s)	Current Direction (°)	pl	Η	Salinit	y (ppt)	Tempe (degr		DO Sat (%		DO (r	ng/L)	Turbidit	y (NTU)	Total Sus Solids (
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	5/02/2024	Mid-Flood	Cloudy	Low	18:01	2.4	М	1.20	1	0.081	177.548	7.16	7.15	6.17	6.17	20.9	20.95	44.0	44.62	3.31	3.36	18.92	18.925	18	17
M1	5/02/2024	Mid-Flood	Cloudy	Low	18:01	2.4	М	1.20	2	0.001	177.540	7.14	7.15	6.16	0.17	21	20.95	45.2	44.02	3.4	5.50	18.93	10.925	16	
M2	5/02/2024	Mid-Flood	Cloudy	Low	18:25	2.1	M	1.05	1	0.085	174.572	7.18	7.18	7.48	7.48	20.9	20.90	48.5	48.88	3.65	3.68	12.83	13	17	16
M2	5/02/2024	Mid-Flood	Cloudy	Low	18:25	2.1	M	1.05	2	0.005	174.572	7.17	7.10	7.48	7.40	20.9	20.30	49.2	40.00	3.7	5.00	13.17	15	14	10
M3	5/02/2024	Mid-Flood	Cloudy	Low	18:44	1.9	М	0.95	1	0.09	161.356	7.18	7.18	6.69	6.69	20.9	20.90	46.9	47.55	3.53	3.58	28.66	28.45	17	19
M3	5/02/2024	Mid-Flood	Cloudy	Low	18:45	1.9	M	0.95	2	0.03	101.550	7.18	7.10	6.68	0.03	20.9	20.30	48.1	47.55	3.62	5.50	28.24	20.45	20	13
M1	5/02/2024	Mid-Ebb	Cloudy	Low	9:19	2.4	M	1.20	1	0.061	330.207	7.13	7.14	6.04	6.05	21.0	21.00	43.2	42.49	3.25	3.20	18.61	18,745	18	18
M1	5/02/2024	Mid-Ebb	Cloudy	Low	9:20	2.4	М	1.20	2	0.001	330.207	7.14	7.14	6.06	0.05	21	21.00	41.8	42.45	3.14	5.20	18.88	10.745	17	10
M2	5/02/2024	Mid-Ebb	Cloudy	Low	8:49	2.2	М	1.10	1	0.078	324.869	7.15	7.15	6.20	6.21	21.0	21.00	42.0	41.43	3.16	3.12	10.68	10.685	14	14
M2	5/02/2024	Mid-Ebb	Cloudy	Low	8:49	2.2	М	1.10	2	0.078	524.009	7.14	7.15	6.22	0.21	21	21.00	40.8	41.43	3.07	5.12	10.69	10.005	14	-+
M3	5/02/2024	Mid-Ebb	Cloudy	Low	9:28	2	М	1.00	1	0.073	319.308	7.17	7.17	6.32	6.28	21.0	21.00	43.6	44.02	3.58	3.58	31.45	31.24	9	0
M3	5/02/2024	Mid-Ebb	Cloudy	Low	9:28	2	М	1.00	2	0.073	319.300	7.16	7.17	6.23	0.20	21	21.00	44.4	44.02	3.58	3.50	31.03	31.24	9	9

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)

2. Red and Bold: Limit Level Exceedance (For Impact Station Only)

3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.

4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.

5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.

	FOI FIODU TIUE								
	Monitoring	D	0	N	TU	S	S		
	Location	AL	LL	AL	LL	AL	LL		
	M2(Impact Station)	1.88	1.79	43.0	52.4	81	112		
	M3(Impact Station)	3.28	3.14	74	78	104	167		
1	For Ebb Tide								
	Monitoring	D	0	N	TU	55			

Monitoring	D	0	N.	TU	S	s
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

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Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicat	Current Speed (m/s)	Current Direction (°)	pl	Ŧ	Salinit	y (ppt)	Tempe (degr		DO Sat (%		DO (r	ng/L)	Turbidit	y (NTU)	Total Sus Solids (
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	7/02/2024	Mid-Flood	Cloudy	Low	11:55	2.6	М	1.30	1	0.076	184.276	7.08	7.07	7.66	7.65	21.2	21.25	41.9	40.90	3.15	3.08	11.22	11.055	23	20
M1	7/02/2024	Mid-Flood	Cloudy	Low	11:56	2.6	М	1.30	2	0.070	104.270	7.06	1.07	7.63	7.05	21.3	21.25	39.9	40.90	3	5.00	10.89	11.055	16	20
M2	7/02/2024	Mid-Flood	Cloudy	Low	12:24	2.3	M	1.15	1	0.09	169.258	7.11	7.11	7.86	7.86	21.2	21.25	41.6	41.96	3.13	3.16	10.75	10.67	13	12
M2	7/02/2024	Mid-Flood	Cloudy	Low	12:25	2.3	M	1.15	2	0.03	103.230	7.1	7.11	7.86	7.00	21.3	21.25	42.3	41.30	3.18	5.10	10.59	10.07	10	12
M3	7/02/2024	Mid-Flood	Cloudy	Low	12:41	2.1	М	1.05	1	0.074	161.531	7.08	7.08	7.41	7.38	21.2	21.25	38.7	38.84	3.67	3.69	29.75	29.84	10	15
M3	7/02/2024	Mid-Flood	Cloudy	Low	12:41	2.1	М	1.05	2	0.074	101.551	7.08	7.00	7.35	7.30	21.3	21.25	39.0	30.04	3.71	3.09	29.93	29.04	19	15
M1	7/02/2024	Mid-Ebb	Cloudy	Low	9:58	2.5	M	1.25	1	0.069	323.895	7.13	7.13	7.42	7.39	21.4	21.45	40.8	40.17	3.07	3.02	14.31	14.17	22	18
M1	7/02/2024	Mid-Ebb	Cloudy	Low	9:59	2.5	М	1.25	2	0.009	323.095	7.13	7.13	7.35	1.55	21.5	21.45	39.5	40.17	2.97	3.02	14.03	14.17	14	10
M2	7/02/2024	Mid-Ebb	Cloudy	Low	9:30	2.4	М	1.20	1	0.065	308.871	7.12	7.13	7.37	7.42	21.4	21.40	41.9	41.83	3.15	3.15	10.81	10.98	16	14
M2	7/02/2024	Mid-Ebb	Cloudy	Low	9:31	2.4	М	1.20	2	0.005	300.071	7.14	1.13	7.46	1.42	21.4	21.40	41.8	41.05	3.14	5.15	11.15	10.90	11	1-+
M3	7/02/2024	Mid-Ebb	Cloudy	Low	9:48	2.4	M	1.20	1	0.063	342.093	7.11	7.10	7.31	7.27	21.4	21.45	43.6	42.69	3.48	3.48	31.24	31.045	15	14
M3	7/02/2024	Mid-Ebb	Cloudy	Low	9:48	2.4	М	1.20	2	0.003	342.093	7.09	7.10	7.22	1.21	21.5	21.45	41.8	42.09	3.48	3.40	30.85	31.045	13	14

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)

2. Red and Bold: Limit Level Exceedance (For Impact Station Only)

3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.

4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.

5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.

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Monitoring	D	0	N	TU	S	S		
Location	AL	LL	AL	LL	AL	LL		
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112		
M3(Impact Station)	3.28	3.14	74	78	104	167		
For Ebb Tide								
Manifesian	D	0	N	TU	22			

Monitoring	D	0	N.	τu	S	s
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

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 | Value | Ave. | Value | Ave. | Value | Ave.
 | Value | Ave. | Value | Ave.
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| 9/02/2024 | Mid-Flood | Cloudy | Low | 13:16 | 2.4 | М | 1.20 | 1 | 0.082 | 173 487
 | 7.1 | 7 1 1 | 7.05
 | 7.02
 | 21.0 | 21.00 | 40.8 | 10.96 | 3.07 | 3.08
 | 16.33 | 16 465 | 10 | 18
 |
| 9/02/2024 | Mid-Flood | Cloudy | Low | 13:17 | 2.4 | М | 1.20 | 2 | 0.002 | 110.401
 | 7.12 | 7.11 | 6.99
 | 1.02
 | 21 | 21.00 | 41.1 | 40.30 | 3.09 | 5.00
 | 16.6 | 10.405 | 25 | 10
 |
| 9/02/2024 | Mid-Flood | Cloudy | Low | 13:44 | 2.1 | М | 1.05 | 1 | 0.076 | 172 265
 | 7.18 | 7 17 | 5.94
 | 5 94
 | 21.0 | 21.00 | 40.7 | 40.90 | 3.06 | 3.08
 | 21.28 | 21 225 | 28 | 29
 |
| 9/02/2024 | Mid-Flood | Cloudy | Low | 13:44 | 2.1 | М | 1.05 | 2 | 0.070 | 172.205
 | 7.16 | 7.17 | 5.93
 | 5.54
 | 21 | 21.00 | 41.1 | 40.30 | 3.09 | 5.00
 | 21.17 | 21.225 | 30 | 23
 |
| 9/02/2024 | Mid-Flood | Cloudy | Low | 13:49 | 2 | М | 1.00 | 1 | 0.095 | 162 880
 | 7.16 | 7 17 | 6.34
 | 6 38
 | 21.0 | 21.00 | 39.5 | 30 10 | 3.48 | 3 / 2
 | 31.62 | 31 445 | 32 | 28
 |
| 9/02/2024 | Mid-Flood | Cloudy | Low | 13:50 | 2 | М | 1.00 | 2 | 0.035 | 102.003
 | 7.18 | 7.17 | 6.41
 | 0.50
 | 21.0 | 21.00 | 38.7 | 55.10 | 3.36 | 5.42
 | 31.27 | 31.443 | 23 | 20
 |
| 9/02/2024 | Mid-Ebb | Cloudy | Low | 8:41 | 2.4 | М | 1.20 | 1 | 0.081 | 314 678
 | 7.07 | 7.08 | 9.02
 | 9.01
 | 20.8 | 20.80 | 38.7 | 38.24 | 2.91 | 2.88
 | 10.65 | 10 / 05 | 20 | 25
 |
| 9/02/2024 | Mid-Ebb | Cloudy | Low | 8:41 | 2.4 | М | 1.20 | 2 | 0.001 | 514.070
 | 7.08 | 7.00 | 9.00
 | 3.01
 | 20.8 | 20.00 | 37.8 | 50.24 | 2.84 | 2.00
 | 10.34 | 10.435 | 30 | 25
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| 9/02/2024 | Mid-Ebb | Cloudy | Low | 8:13 | 2.1 | М | 1.05 | 1 | 0.077 | 330 808
 | 7.08 | 7.08 | 8.85
 | 8 90
 | 20.8 | 20.80 | 37.9 | 38 24 | 2.85 | 2.88
 | 11.58 | 11 / | 32 | 29
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| 9/02/2024 | Mid-Ebb | Cloudy | Low | 8:14 | 2.1 | М | 1.05 | 2 | 0.011 | 333.000
 | 7.08 | 7.00 | 8.94
 | 0.30
 | 20.8 | 20.00 | 38.6 | 30.24 | 2.9 | 2.00
 | 11.22 | 11.4 | 26 | 23
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| 9/02/2024 | Mid-Ebb | Cloudy | Low | 8:33 | 1.9 | М | 0.95 | 1 | 0.07 | 318 126
 | 7.12 | 7 1 2 | 6.41
 | 6 11
 | 20.8 | 20.85 | 41.0 | 41 70 | 3.67 | 3.67
 | 26.63 | 26 50 | 33 | 30
 |
| 9/02/2024 | Mid-Ebb | Cloudy | Low | 8:33 | 1.9 | М | 0.95 | 2 | 0.07 | 510.120
 | 7.12 | 1.12 | 6.46
 | 0.44
 | 20.9 | 20.00 | 42.4 | 41.70 | 3.67 | 5.07
 | 26.55 | 20.09 | 26 | 50
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Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)

2. Red and Bold: Limit Level Exceedance (For Impact Station Only)

3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.

4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.

5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.

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Monitoring	D	0	N	τu	S	S
Location	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167
For Ebb Tide						

Monitoring	D	0	N	TU	S	S
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

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Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicat	Current Speed (m/s)	Current Direction (°)	p	H	Salinit	y (ppt)	Tempe (degr		DO Sat (%	turation %)	DO (r	ng/L)	Turbidity	y (NTU)	Total Sus Solids (
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	12/02/2024	Mid-Flood	Cloudy	Low	15:26	2.4	М	1.20	1	0.081	165.007	7.07	7.06	9.27	9.26	21.2	21.25	39.6	39.37	2.98	2.96	11.06	10.975	25	26
M1	12/02/2024	Mid-Flood	Cloudy	Low	15:26	2.4	М	1.20	2	0.001	103.007	7.05	7.00	9.24	9.20	21.3	21.25	39.1	39.37	2.94	2.90	10.89	10.975	27	20
M2	12/02/2024	Mid-Flood	Cloudy	Low	15:59	1.8	M	0.90	1	0.073	174.053	7.1	7.11	6.80	6.81	21.2	21.20	38.2	37.17	2.87	2.80	18.48	18.43	34	28
M2	12/02/2024	Mid-Flood	Cloudy	Low	16:00	1.8	M	0.90	2	0.075	174.000	7.11	7.11	6.81	0.01	21.2	21.20	36.2	57.17	2.72	2.00	18.38	10.45	21	20
M3	12/02/2024	Mid-Flood	Cloudy	Low	16:11	1.7	М	0.85	1	0.081	183.585	7.17	7.17	8.45	8.48	21.2	21.25	37.0	36.24	3.67	3.69	34.56	34.425	29	25
M3	12/02/2024	Mid-Flood	Cloudy	Low	16:11	1.7	М	0.85	2	0.001	103.305	7.16	7.17	8.51	0.40	21.3	21.25	35.5	30.24	3.7	3.09	34.29	34.423	20	25
M1	12/02/2024	Mid-Ebb	Cloudy	Low	10:12	2.5	M	1.25	1	0.074	301.745	7.1	7.09	7.65	7.63	21.4	21.45	40.7	41.16	3.06	3.10	18.48	18.39	29	32
M1	12/02/2024	Mid-Ebb	Cloudy	Low	10:13	2.5	М	1.25	2	0.074	301.743	7.08	7.09	7.61	7.05	21.5	21.45	41.6	41.10	3.13	5.10	18.30	10.59	34	32
M2	12/02/2024	Mid-Ebb	Cloudy	Low	9:47	2.3	М	1.15	1	0.072	327.362	7.07	7.07	8.89	8.90	21.4	21.40	42.0	41.10	3.16	3.09	11.57	11.555	35	30
M2	12/02/2024	Mid-Ebb	Cloudy	Low	9:48	2.3	М	1.15	2	0.072	521.302	7.07	1.01	8.90	0.90	21.4	21.40	40.2	41.10	3.02	5.08	11.54	11.555	24	50
M3	12/02/2024	Mid-Ebb	Cloudy	Low	10:25	2.2	М	1.10	1	0.066	334.203	7.19	7.20	8.49	8.49	21.4	21.45	41.0	40.03	3.73	3.68	30.88	30.7	15	12
M3	12/02/2024	Mid-Ebb	Cloudy	Low	10:25	2.2	М	1.10	2	0.000	334.203	7.21	7.20	8.48	0.49	21.5	21.43	39.1	40.03	3.63	3.00	30.52	30.7	10	13

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)

2. Red and Bold: Limit Level Exceedance (For Impact Station Only)

3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.

4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.

5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.

FUI FIOOU LIDE						
Monitoring	D	0	N.	ΓU	S	S
Location	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167
For Ebb Tide						

Monitoring	D	0	N	ΓU	S	S
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

									Ð						In-s	itu Measu	rement							Labor Analy	
Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicat	Current Speed (m/s)	Current Direction (°)	pl	Η	Salinit	y (ppt)	Tempe (degr		DO Sat (%	turation %)	DO (r	ng/L)	Turbidity	y (NTU)	Total Sus Solids (
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	14/02/2024	Mid-Flood	Sunny	Low	16:35	2.5	М	1.25	1	0.08	183.701	7.09	7.08	6.29	6.30	20.8	20.80	41.0	41.03	3.08	3.09	15.56	15.715	32	34
M1	14/02/2024	Mid-Flood	Sunny	Low	16:35	2.5	М	1.25	2	0.00	103.701	7.07	7.00	6.31	0.30	20.8	20.00	41.1	41.03	3.09	3.08	15.87	15.715	36	34
M2	14/02/2024	Mid-Flood	Sunny	Low	17:01	2.2	M	1.10	1	0.075	189.386	7.1	7.10	6.79	6.78	20.8	20.80	40.6	39.97	3.05	3.01	20.06	19.95	46	38
M2	14/02/2024	Mid-Flood	Sunny	Low	17:02	2.2	M	1.10	2	0.075	103.300	7.09	7.10	6.77	0.70	20.8	20.00	39.4	55.57	2.96	5.01	19.84	13.35	30	50
M3	14/02/2024	Mid-Flood	Sunny	Low	17:07	2.3	M	1.15	1	0.087	182.918	7.18	7.17	7.31	7.27	20.8	20.80	37.6	37.71	3.67	3.72	26.88	26.77	39	44
M3	14/02/2024	Mid-Flood	Sunny	Low	17:08	2.3	М	1.15	2	0.087	102.910	7.16	7.17	7.23	1.21	20.8	20.00	37.8	37.71	3.76	3.72	26.66	20.77	48	44
M1	14/02/2024	Mid-Ebb	Sunny	Low	10:58	2.4	M	1.20	1	0.066	337.031	7.04	7.03	6.48	6.51	20.8	20.85	40.7	41.23	3.06	3.10	12.32	12.39	26	31
M1	14/02/2024	Mid-Ebb	Sunny	Low	10:58	2.4	M	1.20	2	0.000	337.031	7.02	7.05	6.54	0.51	20.9	20.05	41.8	41.23	3.14	3.10	12.46	12.55	35	31
M2	14/02/2024	Mid-Ebb	Sunny	Low	10:32	2.2	М	1.10	1	0.059	306.207	7.1	7.11	6.43	6.43	20.8	20.85	39.8	39.30	2.99	2.96	19.59	19.555	38	37
M2	14/02/2024	Mid-Ebb	Sunny	Low	10:33	2.2	М	1.10	2	0.009	500.207	7.11	7.11	6.42	0.43	20.9	20.00	38.8	53.50	2.92	2.90	19.52	13.000	35	57
M3	14/02/2024	Mid-Ebb	Sunny	Low	11:05	2.1	М	1.05	1	0.061	326.472	7.07	7.07	6.88	6.89	20.8	20.85	38.0	37.64	3.55	3.52	31.87	31.71	29	26
M3	14/02/2024	Mid-Ebb	Sunny	Low	11:05	2.1	М	1.05	2	0.001	520.472	7.07	1.01	6.89	0.09	20.9	20.05	37.2	37.04	3.48	3.52	31.55	31.71	22	20

Remark

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2. Red and Bold: Limit Level Exceedance (For Impact Station Only)

3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.

4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.

5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.

FUI FIDDU TIUE						
Monitoring	D	0	N	TU	S	is
Location	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167
For Ebb Tide						
Monitoring	D	0	N	TU	c	°C .

Monitoring	D	0	N.	τu	S	s
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

									te						In-s	itu Measu	rement							Labora Analy	-
Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicat	Current Speed (m/s)	Current Direction (°)	р	н	Salinit	y (ppt)	Tempe (degr			turation %)	DO (r	ng/L)	Turbidity	y (NTU)	Total Sus Solids (
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	16/02/2024	Mid-Flood	Cloudy	Low	18:02	2.6	M	1.30	1	0.079	173.816	7.07	7.07	8.51	8.47	22.4 22.5	22.45	40.4	39.70	3.04	2.99	11.49	11.3	33	34
M1	16/02/2024	Mid-Flood	Cloudy	Low	18:02	2.6	M	1.30	2	0.073	175.010	7.07	1.01	8.42	0.47	22.5	22.43	39.0	39.70	2.93	2.99	11.11	11.5	34	34
M2	16/02/2024	Mid-Flood	Cloudy	Low	18:31	2.2	М	1.10	1	0.092	175.153	7.07	7.08	9.73	9.69	22.4	22.40	43.6	43.03	3.28	3.24	12.73	12.86	35	32
M2	16/02/2024	Mid-Flood	Cloudy	Low	18:32	2.2	M	1.10	2	0.032	175.155	7.09	7.00	9.64	3.03	22.4	22.40	42.4	43.03	3.19	5.24	12.99	12.00	28	52
M3	16/02/2024	Mid-Flood	Cloudy	Low	18:44	2.1	M	1.05	1	0.092	162,109	7.11	7.12	6.69	6.67	22.4	22.40	39.8	39.90	3.67	3.68	26.91	26.845	19	25
M3	16/02/2024	Mid-Flood	Cloudy	Low	18:44	2.1	М	1.05	2	0.092	102.109	7.12	1.12	6.65	0.07	22.4	22.40	40.0	39.90	3.68	3.00	26.78	20.045	30	25
M1	16/02/2024	Mid-Ebb	Cloudy	Low	11:51	2.4	M	1.20	1	0.069	335.625	7.04	7.03	8.09	8.12	21.9	21.90	41.0	41.70	3.08	3.14	9.90	9.81	28	27
M1	16/02/2024	Mid-Ebb	Cloudy	Low	11:52	2.4	M	1.20	2	0.009	333.025	7.02	1.03	8.14	0.12	21.9	21.90	42.4	41.70	3.19	5.14	9.72	9.01	26	21
M2	16/02/2024	Mid-Ebb	Cloudy	Low	11:19	2.4	М	1.20	1	0.069	321.97	7.08	7.09	9.17	9.20	21.9	21.95	40.4	40.96	3.04	3.08	15.42	15.38	28	28
M2	16/02/2024	Mid-Ebb	Cloudy	Low	11:19	2.4	М	1.20	2	0.009	521.97	7.09	1.09	9.22	3.20	22.0	21.90	41.5	40.90	3.12	5.00	15.34	10.00	28	20
M3	16/02/2024	Mid-Ebb	Cloudy	Low	11:46	2.2	М	1.10	1	0.079	207 601	7.05	7.04	7.22	7 22	21.9	21.05	41.6	41.26	3.39	2 42	28.86	20.04	27	24
M3	16/02/2024	Mid-Ebb	Cloudy	Low	11:46	2.2	М	1.10	2	0.076	307.091	7.03	1.04	7.21	1.22	22.0	21.95	41.1	41.30	3.45	3.42	29.22	29.04	20	24
					-			-	1	0.078	307.691	7.03	7.04 od Tide		7.22		21.95		41.36		3.42		29.04		Ξ

Remark

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5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.

	FOI FIODU TIUE						
	Monitoring	D	0	N	TU	S	S
	Location	AL	LL	AL	LL	AL	LL
	M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
	M3(Impact Station)	3.28	3.14	74	78	104	167
1	For Ebb Tide						
	Monitoring	D	0	N	TU		c

Monitoring	D	0	N.	τu	S	s
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

									Ð						In-s	itu Measu	rement							Labor Anal	
Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicat	Current Speed (m/s)	Current Direction (°)	pł	Ŧ	Salinit	y (ppt)	Tempe (degr		DO Sat (%		DO (r	ng/L)	Turbidity	y (NTU)	Total Sus Solids (
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	19/02/2024	Mid-Flood	Cloudy	Low	18:15	2.6	М	1.30	1	0.091	162.043	7.3	7.30	5.64	5.67	22.2	22.20	41.8	40.96	3.14	3.08	14.89	14.725	17	18
M1	19/02/2024	Mid-Flood	Cloudy	Low	18:16	2.6	М	1.30	2	0.031	102.045	7.29	7.30	5.69	5.07	22.2	22.20	40.2	40.90	3.02	3.00	14.56	14.725	18	10
M2	19/02/2024	Mid-Flood	Cloudy	Low	18:49	2.4	М	1.20	1	0.078	168.322	7.28	7.29	5.66	5.62	22.2	22.25	39.5	39.90	2.97	3.00	15.43	15.49	21	20
M2	19/02/2024	Mid-Flood	Cloudy	Low	18:50	2.4	М	1.20	2	0.070	100.322	7.3	1.23	5.58	5.02	22.3	22.25	40.3	55.50	3.03	5.00	15.55	10.45	19	20
M3	19/02/2024	Mid-Flood	Cloudy	Low	18:40	2.2	М	1.10	1	0.076	169.132	7.25	7.25	4.89	4.90	22.2	22.20	38.3	38.37	3.67	3.72	33.35	33.225	18	17
M3	19/02/2024	Mid-Flood	Cloudy	Low	18:40	2.2	М	1.10	2	0.070	109.132	7.25	1.25	4.90	4.90	22.2	22.20	38.4	30.37	3.77	3.72	33.10	55.225	16	17
M1	19/02/2024	Mid-Ebb	Cloudy	Low	9:49	2.4	М	1.20	1	0.068	303.45	7.21	7.20	4.93	4.96	22.1	22.10	44.3	43.29	3.33	3.26	15.63	15.76	20	20
M1	19/02/2024	Mid-Ebb	Cloudy	Low	9:50	2.4	М	1.20	2	0.000	303.45	7.19	7.20	4.98	4.90	22.1	22.10	42.3	43.29	3.18	3.20	15.89	15.76	19	20
M2	19/02/2024	Mid-Ebb	Cloudy	Low	9:26	2.2	М	1.10	1	0.072	322.52	7.21	7.20	5.39	5.42	22.1 22.1	22.10	42.3	42.56	3.18	3.20	17.46	17.54	16	17
M2	19/02/2024	Mid-Ebb	Cloudy	Low	9:26	2.2	М	1.10	2	0.072	322.32	7.19	1.20	5.44	J.42	22.1	22.10	42.8	42.50	3.22	3.20	17.62	17.54	17	17
M3	19/02/2024	Mid-Ebb	Cloudy	Low	9:53	2.1	М	1.05	1	0.065	342.626	7.26	7.26	5.21	5.17	22.1	22.15	39.1	39.04	3.45	3.54	34.70	34.735	20	15
M3	19/02/2024	Mid-Ebb	Cloudy	Low	9:53	2.1	М	1.05	2	0.065	342.020	7.25	1.20	5.13	5.17	22.2	22.15	39.0	39.04	3.63	3.34	34.77	34.735	10	15
Remark												For Flor	nd Tide												

Remark

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2. Red and Bold: Limit Level Exceedance (For Impact Station Only)

3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.

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5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.

T OF T IOOU TILLE						
Monitoring	D	0	N	ΓU	S	S
Location	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167
For Ebb Tide						
Monitoring	D	0	N	TU	c	c

Monitoring	D	0	N.	τu	S	s
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

									te						In-s	itu Measu	irement							Labor Anal	
Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicat	Current Speed (m/s)	Current Direction (°)	р	н	Salinit	y (ppt)	Tempe (degr		DO Sat (%		DO (n	ng/L)	Turbidity	y (NTU)	Total Sus Solids	spended (mg/L)
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	21/02/2024	Mid-Flood	Cloudy	Low	12:00	2.8	М	1.40	1	0.09	186.683	7.33	7.33	3.85	3.84	22.0	22.00	46.6	46.08	3.5	3.47	12.72	12.715	26	27
M1	21/02/2024	Mid-Flood	Cloudy	Low	12:01	2.8	М	1.40	2	0.00	100.000	7.32	1.55	3.83	5.04	22	22.00	45.6	40.00	3.43	5.47	12.71	12.715	27	21
M2	21/02/2024	Mid-Flood	Cloudy	Low	12:40	2.5	М	1.25	1	0.092	172.101	7.22	7.21	4.60	4.64	22.0	22.05	43.6	43.96	3.28	3.31	17.63	17.81	25	26
M2	21/02/2024	Mid-Flood	Cloudy	Low	12:41	2.5	М	1.25	2	0.032	172.101	7.2	1.21	4.67	4.04	22.1	22.00	44.3	43.30	3.33	5.51	17.99	17.01	27	20
M3	21/02/2024	Mid-Flood	Cloudy	Low	12:55	2.3	М	1.15	1	0.082	167.251	7.26	7.26	3.99	3.99	22.0	22.00	42.3	41.36	3.59	3.68	27.66	27.59	31	31
M3	21/02/2024	Mid-Flood	Cloudy	Low	12:55	2.3	М	1.15	2	0.002	107.251	7.25	7.20	3.98	3.99	22.0	22.00	40.4	41.50	3.77	3.00	27.52	21.59	31	51
M1	21/02/2024	Mid-Ebb	Cloudy	Low	9:56	2.5	М	1.25	1	0.072	341.336	7.31	7.32	3.86	3.85	21.9	21.95	39.2	40.17	2.95	3.02	16.50	16.485	28	33
M1	21/02/2024	Mid-Ebb	Cloudy	Low	9:57	2.5	М	1.25	2	0.072	341.330	7.33	1.52	3.83	3.00	22.0	21.95	41.1	40.17	3.09	3.02	16.47	10.405	37	- 33
M2	21/02/2024	Mid-Ebb	Cloudy	Low	9:30	2.2	М	1.10	1	0.081	307.535	7.25	7.25	4.55	4.52	21.9 22.0	21.95	40.8	41.16	3.07	3.10	18.12	18	41	41
M2	21/02/2024	Mid-Ebb	Cloudy	Low	9:30	2.2	М	1.10	2	0.001	307.555	7.24	1.25	4.49	4.02	22.0	21.95	41.5	41.10	3.12	5.10	17.88	10	40	41
M3	21/02/2024	Mid-Ebb	Cloudy	Low	9:48	2.1	М	1.05	1	0.059	307.711	7.28	7.28	4.58	4.57	21.9	21.95	39.8	40.50	3.63	3.70	26.93	26.96	24	19
M3	21/02/2024	Mid-Ebb	Cloudy	Low	9:49	2.1	М	1.05	2	0.059	307.711	7.27	1.28	4.56	4.57	22.0	21.95	41.2	40.50	3.77	3.70	26.99	20.96	14	19
Remark												For Flo	od Tide												

Remark

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3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.

4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.

5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.

T OF T IOOU TIDE						
Monitoring	C	0	N.	τu	S	S
Location	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167
For Ebb Tide						
Monitoring	Г	n N	N	TU	s	s

Monitoring	D	0	N.	τu	S	s
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

									e						In-s	itu Measu	irement							Labor Anal	
Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicat	Current Speed (m/s)	Current Direction (°)	p	Η	Salinit	y (ppt)	Tempe (degr		DO Sat (%	turation %)	DO (r	ng/L)	Turbidit	y (NTU)	Total Sus Solids (spended (mg/L)
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	23/02/2024	Mid-Flood	Cloudy	Low	13:08	2.7	М	1.35	1	0.085	170.234	7.24	7.23	4.07	4.12	21.9	21.95	37.9	37.51	2.85	2.81	25.97	25.825	30	29
M1	23/02/2024	Mid-Flood	Cloudy	Low	13:09	2.7	М	1.35	2	0.005	170.234	7.22	1.23	4.16	4.12	22	21.95	37.1	57.51	2.77	2.01	25.68	23.025	27	29
M2	23/02/2024	Mid-Flood	Cloudy	Low	13:41	2.3	M	1.15	1	0.084	167.848	7.24	7.25	5.23	5.27	21.9	21.95	42.8	43.29	3.22	3.28	19.49	19.37	25	26
M2	23/02/2024	Mid-Flood	Cloudy	Low	13:42	2.3	M	1.15	2	0.004	107.040	7.26	1.25	5.3	5.21	22	21.35	43.8	45.25	3.33	5.20	19.25	13.57	27	20
M3	23/02/2024	Mid-Flood	Cloudy	Low	13:44	2.1	M	1.05	1	0.082	182.21	7.24	7.24	5.31	5.31	21.9	21.95	47.7	49.61	3.59	3.73	31.22	31.34	32	29
M3	23/02/2024	Mid-Flood	Cloudy	Low	13:45	2.1	М	1.05	2	0.062	102.21	7.24	1.24	5.30	5.51	22.0	21.95	51.5	49.01	3.87	3.73	31.46	31.34	25	29
M1	23/02/2024	Mid-Ebb	Cloudy	Low	8:44	2.5	M	1.25	1	0.07	329.479	7.23	7.23	4.72	4.72	22.1	22.10	42.8	43.23	3.22	3.22	22.55	22.51	27	26
M1	23/02/2024	Mid-Ebb	Cloudy	Low	8:44	2.5	М	1.25	2	0.07	329.479	7.22	1.23	4.72	4.72	22.1	22.10	43.6	43.23	3.21	3.22	22.47	22.51	24	20
M2	23/02/2024	Mid-Ebb	Cloudy	Low	8:00	2.3	М	1.15	1	0.06	332.532	7.24	7.25	5.23	5.24	22.1	22.10	35.9	35.25	2.7	2.64	20.36	20.195	26	26
M2	23/02/2024	Mid-Ebb	Cloudy	Low	8:00	2.3	М	1.15	2	0.00	002.002	7.25	1.25	5.24	5.24	22.1	22.10	34.6	55.25	2.58	2.04	20.03	20.195	25	20
M3	23/02/2024	Mid-Ebb	Cloudy	Low	8:36	2.2	М	1.10	1	0.065	329.815	7.21	7.20	5.49	5.50	22.1	22.15	46.3	47.55	3.48	3.58	28.77	28.56	24	18
M3	23/02/2024	Mid-Ebb	Cloudy	Low	8:37	2.2	М	1.10	2	0.005	329.015	7.19	7.20	5.50	5.50	22.2	22.15	48.8	47.55	3.67	3.50	28.35	20.00	11	10

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)

2. Red and Bold: Limit Level Exceedance (For Impact Station Only)

3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.

4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.

5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.

	FOI FIODU TIDE						
	Monitoring	D	00	N	TU	S	S
	Location	AL	LL	AL	LL	AL	LL
	M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
	M3(Impact Station)	3.28	3.14	74	78	104	167
1	For Ebb Tide						
	Maaibaaiaa	F	2	N.C.	T11	c	۰ ۲

Monitoring	D	0	N.	τu	S	s
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

									Ð						In-s	itu Measu	rement							Labor Anal	
Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicat	Current Speed (m/s)	Current Direction (°)	pl	H	Salinit	/ (ppt)	Tempe (degr		DO Sat (%	turation %)	DO (r	ng/L)	Turbidit	y (NTU)	Total Sus Solids (spended (mg/L)
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	26/02/2024	Mid-Flood	Cloudy	Low	14:30	2.5	М	1.25	1	0.075	186.792	7.24	7.23	4.39	4.39	22.3	22.30	44.7	43.76	3.36	3.29	25.97	26.04	36	36
M1	26/02/2024	Mid-Flood	Cloudy	Low	14:30	2.5	M	1.25	2	0.075	100.732	7.22	1.23	4.38	4.39	22.3	22.30	42.8	43.70	3.22	3.29	26.11	20.04	35	30
M2	26/02/2024	Mid-Flood	Cloudy	Low	15:01	2.2	M	1.10	1	0.088	170.988	7.25	7.26	4.31	4.29	22.3	22.30	37.9	36.97	2.85	2.78	22.89	22.68	32	33
M2	26/02/2024	Mid-Flood	Cloudy	Low	15:02	2.2	M	1.10	2	0.000	170.300	7.26	1.20	4.26	4.23	22.3	22.50	36.0	50.57	2.71	2.70	22.47	22.00	34	55
M3	26/02/2024	Mid-Flood	Cloudy	Low	15:11	2.1	M	1.05	1	0.09	182.704	7.22	7.22	4.48	4.53	22.3	22.30	42.0	42.56	3.78	3.71	34.59	34.705	40	34
M3	26/02/2024	Mid-Flood	Cloudy	Low	15:11	2.1	М	1.05	2	0.09	182.704	7.22	1.22	4.57	4.55	22.3	22.30	43.1	42.30	3.63	3.71	34.82	34.703	28	34
M1	26/02/2024	Mid-Ebb	Cloudy	Low	9:33	2.5	M	1.25	1	0.059	308.224	7.21	7.21	4.55	4.57	22.1	22.15	45.4	45.69	3.41	3.44	22.63	22.665	29	28
M1	26/02/2024	Mid-Ebb	Cloudy	Low	9:34	2.5	М	1.25	2	0.059	300.224	7.21	1.21	4.59	4.57	22.2	22.15	46.0	45.05	3.46	5.44	22.70	22.005	27	20
M2	26/02/2024	Mid-Ebb	Cloudy	Low	8:56	2.3	М	1.15	1	0.071	324.22	7.24	7.25	4.64	4.69	22.1	22.15	41.4	41.90	3.11	3.15	21.77	21.595	38	36
M2	26/02/2024	Mid-Ebb	Cloudy	Low	8:56	2.3	M	1.15	2	0.071	524.22	7.26	1.25	4.73	4.09	22.2	22.10	42.4	41.90	3.19	5.15	21.42	21.090	34	50
M3	26/02/2024	Mid-Ebb	Cloudy	Low	9:41	2.2	M	1.10	1	0.063	314.962	7.26	7.26	4.49	4.51	22.1	22.10	39.6	39.37	3.55	3.61	35.64	35.485	30	29
M3	26/02/2024	Mid-Ebb	Cloudy	Low	9:41	2.2	M	1.10	2	0.003	314.902	7.25	7.20	4.53	4.51	22.1	22.10	39.1	39.37	3.66	3.01	35.33	33.403	27	29

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)

2. Red and Bold: Limit Level Exceedance (For Impact Station Only)

3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.

4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.

5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.

T OF T IOOU TILE						
Monitoring	C	0	N.	TU	S	s
Location	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167
For Ebb Tide						
Monitoring	Г	n N	N	TU	s	s

Monitoring	D	0	N.	τu	S	s
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Date								Ð						In-s	itu Measu	rement							Anal	atory lysis
Julio	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicat	Current Speed (m/s)	Current Direction (°)	p⊦	1	Salinity	(ppt)	Tempe (degro		DO Sat (%		DO (n	ng/L)	Turbidity	y (NTU)	Total Sus Solids	spended (mg/L)
											Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
02/2024	Mid-Flood	Cloudy	Low	15:26	2.6	М	1.30	1	0.093	171 085	7.21	7 21	6.33	6 35	22.7	22 70	43.6	13 56	3.28	3.28	25.89	25.01	25	29
02/2024	Mid-Flood	Cloudy	Low	15:26	2.6	М	1.30	2	0.035	171.005	7.2	1.21	6.37	0.55		22.70	43.5	43.50	3.27	3.20	25.93	23.91	32	29
02/2024	Mid-Flood	Cloudy	Low	15:58	2.4	М	1.20	1	0.084	161 217	7.19	7 18	5.49	5 47	22.7	22 70	41.8	42 16	3.14	3 17	26.60	26 445	30	29
02/2024	Mid-Flood	Cloudy	Low	15:59	2.4	М	1.20	2	0.004	101.217	7.17	7.10	5.45	3.47		22.10	42.6	42.10	3.2	5.17	26.29	20.443	28	23
02/2024	Mid-Flood	Cloudy	Low	16:11	2.2	М	1.10	1	0.088	181 506	7.18	7 10	7.40	7 30	22.7	22 70	46.3	46 35	3.48	3 / 9	38.73	38 7/5	37	36
02/2024	Mid-Flood	Cloudy	Low	16:12	2.2	М	1.10	2	0.000	101.550	7.19	7.13	7.38	1.55	22.7	22.10	46.4	40.00	3.49	5.45	38.76	30.743	35	50
02/2024	Mid-Ebb	Cloudy	Low	9:57	2.5	М	1.25	1	0.067	341 525	7.2	7 20	6.47	6 / 9	22.9	22.05	37.5	37.24	2.82	2.80	21.83	21 715	32	33
02/2024	Mid-Ebb	Cloudy	Low	9:58	2.5	М	1.25	2	0.007	341.323	7.2	7.20	6.51	0.43	23.0	22.35	37.0	57.24	2.78	2.00	21.60	21.715	34	55
02/2024	Mid-Ebb	Cloudy	Low	9:30	2.2	М	1.10	1	0.058	333 761	7.18	7 19	6.03	6.06	22.9	22.95	35.8	35.64	2.69	2.68	23.44	23 295	36	34
02/2024	Mid-Ebb	Cloudy	Low	9:31	2.2	М	1.10	2	0.000	333.701	7.2	7.13	6.08	0.00	23.0	22.35	35.5	33.04	2.67	2.00	23.15	23.235	32	34
02/2024	Mid-Ebb	Cloudy	Low	10:11	2.1	М	1.05	1	0.072	3/13 315	7.19	7 20	7.84	7 88	22.9	22.05	44.7	11 69	3.36	3 36	37.55	37 605	30	30
02/2024	Mid-Ebb	Cloudy	Low	10:12	2.1	М	1.05	2	0.072	5-45.515	7.21	1.20	7.91	1.00	23.0	22.95	44.7	4.09	3.36	5.50	37.66	57.005	29	50
02/2 02/2 02/2 02/2 02/2 02/2 02/2 02/2	2024 2024 2024 2024 2024 2024 2024 2024 2024 2024 2024 2024 2024 2024 2024 2024 2024 2024 2024 2024	2024 Mid-Flood 2024 Mid-Ebb 2024 Mid-Ebb	2024 Mid-Flood Cloudy 2024 Mid-Ebb Cloudy	2024 Mid-Flood Cloudy Low 2024 Mid-Ebb Cloudy Low	2024 Mid-Flood Cloudy Low 15:26 2024 Mid-Flood Cloudy Low 15:58 2024 Mid-Flood Cloudy Low 15:59 2024 Mid-Flood Cloudy Low 16:11 2024 Mid-Flood Cloudy Low 16:12 2024 Mid-Flood Cloudy Low 16:12 2024 Mid-Ebb Cloudy Low 9:57 2024 Mid-Ebb Cloudy Low 9:58 2024 Mid-Ebb Cloudy Low 9:30 2024 Mid-Ebb Cloudy Low 9:31 2024 Mid-Ebb Cloudy Low 9:31 2024 Mid-Ebb Cloudy Low 10:11	Z024 Mid-Flood Cloudy Low 15:26 2.6 2024 Mid-Flood Cloudy Low 15:28 2.6 2024 Mid-Flood Cloudy Low 15:58 2.4 2024 Mid-Flood Cloudy Low 15:59 2.4 2024 Mid-Flood Cloudy Low 16:11 2.2 2024 Mid-Flood Cloudy Low 16:12 2.2 2024 Mid-Flood Cloudy Low 9:57 2.5 2024 Mid-Ebb Cloudy Low 9:58 2.5 2024 Mid-Ebb Cloudy Low 9:30 2.2 2024 Mid-Ebb Cloudy Low 9:31 2.2 2024 Mid-Ebb Cloudy Low 9:31 2.2 2024 Mid-Ebb Cloudy Low 10:11 2.1	2024 Mid-Flood Cloudy Low 15:26 2.6 M 2024 Mid-Flood Cloudy Low 15:26 2.6 M 2024 Mid-Flood Cloudy Low 15:58 2.4 M 2024 Mid-Flood Cloudy Low 15:59 2.4 M 2024 Mid-Flood Cloudy Low 16:11 2.2 M 2024 Mid-Flood Cloudy Low 9:57 2.5 M 2024 Mid-Ebb Cloudy Low 9:58 2.5 M 2024 Mid-Ebb Cloudy Low 9:30 2.2 M 2024 Mid-Ebb Cloudy Low 9:31 2.2 M 2024 Mid-Ebb Cloudy Low 9:31 2.2 M 2024 Mid-Ebb Cloudy Low 9:31 2.2 M 2024 Mid-Ebb Cloudy Low 10:11	Z024 Mid-Flood Cloudy Low 15:26 2.6 M 1.30 2024 Mid-Flood Cloudy Low 15:26 2.6 M 1.30 2024 Mid-Flood Cloudy Low 15:58 2.4 M 1.20 2024 Mid-Flood Cloudy Low 15:59 2.4 M 1.20 2024 Mid-Flood Cloudy Low 16:11 2.2 M 1.10 2024 Mid-Flood Cloudy Low 16:12 2.2 M 1.10 2024 Mid-Flood Cloudy Low 9:57 2.5 M 1.25 2024 Mid-Ebb Cloudy Low 9:58 2.5 M 1.25 2024 Mid-Ebb Cloudy Low 9:30 2.2 M 1.10 2024 Mid-Ebb Cloudy Low 9:31 2.2 M 1.10 2024 Mid-Ebb Cloudy	2024 Mid-Flood Cloudy Low 15:26 2.6 M 1.30 1 2024 Mid-Flood Cloudy Low 15:26 2.6 M 1.30 2 2024 Mid-Flood Cloudy Low 15:26 2.6 M 1.30 2 2024 Mid-Flood Cloudy Low 15:58 2.4 M 1.20 1 2024 Mid-Flood Cloudy Low 16:11 2.2 M 1.10 1 2024 Mid-Flood Cloudy Low 16:12 2.2 M 1.10 2 2024 Mid-Flood Cloudy Low 9:57 2.5 M 1.25 1 2024 Mid-Ebb Cloudy Low 9:58 2.5 M 1.25 2 2024 Mid-Ebb Cloudy Low 9:30 2.2 M 1.10 1 2024 Mid-Ebb Cloudy Low <td>2024 Mid-Flood Cloudy Low 15:26 2.6 M 1.30 1 0.093 2024 Mid-Flood Cloudy Low 15:26 2.6 M 1.30 1 0.093 2024 Mid-Flood Cloudy Low 15:26 2.6 M 1.30 2 0.093 2024 Mid-Flood Cloudy Low 15:58 2.4 M 1.20 1 0.084 2024 Mid-Flood Cloudy Low 16:11 2.2 M 1.10 1 0.088 2024 Mid-Flood Cloudy Low 16:12 2.2 M 1.10 2 0.088 2024 Mid-Flood Cloudy Low 9:57 2.5 M 1.25 1 0.067 2024 Mid-Ebb Cloudy Low 9:58 2.5 M 1.25 2 0.067 2024 Mid-Ebb Cloudy Low 9:30</td> <td>2024 Mid-Flood Cloudy Low 15:26 2.6 M 1.30 1 0.093 171.085 2024 Mid-Flood Cloudy Low 15:26 2.6 M 1.30 1 0.093 171.085 2024 Mid-Flood Cloudy Low 15:26 2.6 M 1.30 2 0.093 171.085 2024 Mid-Flood Cloudy Low 15:58 2.4 M 1.20 1 0.084 161.217 2024 Mid-Flood Cloudy Low 16:12 2.2 M 1.10 1 0.088 181.596 2024 Mid-Flood Cloudy Low 16:12 2.2 M 1.10 2 0.088 181.596 2024 Mid-Ebb Cloudy Low 9:57 2.5 M 1.25 1 0.067 341.525 2024 Mid-Ebb Cloudy Low 9:30 2.2 M 1.10</td> <td>Z024 Mid-Flood Cloudy Low 15:26 2.6 M 1.30 1 0.093 171.085 7.21 2024 Mid-Flood Cloudy Low 15:26 2.6 M 1.30 1 0.093 171.085 7.21 2024 Mid-Flood Cloudy Low 15:58 2.4 M 1.20 1 0.084 161.217 7.19 2024 Mid-Flood Cloudy Low 15:59 2.4 M 1.20 2 0.084 161.217 7.19 2024 Mid-Flood Cloudy Low 16:12 2.2 M 1.10 1 0.088 181.596 7.18 2024 Mid-Flood Cloudy Low 9:57 2.5 M 1.25 1 0.067 341.525 7.2 2024 Mid-Ebb Cloudy Low 9:57 2.5 M 1.25 2 0.067 341.525 7.2 7.2 7.2</td> <td>Mid-Flood Cloudy Low 15:26 2.6 M 1.30 1 0.093 171.085 7.21 7.21 2024 Mid-Flood Cloudy Low 15:26 2.6 M 1.30 1 0.093 171.085 7.21 7.21 7.21 7.21 7.21 7.21 7.21 7.21 7.21 7.21 7.18 7.19 7.18 7.19 7.18 7.19 7.19 7.19 7.19 7.19 7.19 7.19 7.19 7.20 7.20 7.20 7.20 7.20 7.20 7.20 7.20 7.20 7.20 7.19 7.18 7.19 7.18 7.19 7.19 7.19 7.19 7.19 7.19 7.19 7.20</td> <td>$\begin{array}{ c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{array}{ c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{array}{ c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{array}{ c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{array}{ c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{array}{ c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{array}{ c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{array}{ c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{array}{ c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{array}{ c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{array}{ c c c c c c c c c c c c c c c c c c c$</td>	2024 Mid-Flood Cloudy Low 15:26 2.6 M 1.30 1 0.093 2024 Mid-Flood Cloudy Low 15:26 2.6 M 1.30 1 0.093 2024 Mid-Flood Cloudy Low 15:26 2.6 M 1.30 2 0.093 2024 Mid-Flood Cloudy Low 15:58 2.4 M 1.20 1 0.084 2024 Mid-Flood Cloudy Low 16:11 2.2 M 1.10 1 0.088 2024 Mid-Flood Cloudy Low 16:12 2.2 M 1.10 2 0.088 2024 Mid-Flood Cloudy Low 9:57 2.5 M 1.25 1 0.067 2024 Mid-Ebb Cloudy Low 9:58 2.5 M 1.25 2 0.067 2024 Mid-Ebb Cloudy Low 9:30	2024 Mid-Flood Cloudy Low 15:26 2.6 M 1.30 1 0.093 171.085 2024 Mid-Flood Cloudy Low 15:26 2.6 M 1.30 1 0.093 171.085 2024 Mid-Flood Cloudy Low 15:26 2.6 M 1.30 2 0.093 171.085 2024 Mid-Flood Cloudy Low 15:58 2.4 M 1.20 1 0.084 161.217 2024 Mid-Flood Cloudy Low 16:12 2.2 M 1.10 1 0.088 181.596 2024 Mid-Flood Cloudy Low 16:12 2.2 M 1.10 2 0.088 181.596 2024 Mid-Ebb Cloudy Low 9:57 2.5 M 1.25 1 0.067 341.525 2024 Mid-Ebb Cloudy Low 9:30 2.2 M 1.10	Z024 Mid-Flood Cloudy Low 15:26 2.6 M 1.30 1 0.093 171.085 7.21 2024 Mid-Flood Cloudy Low 15:26 2.6 M 1.30 1 0.093 171.085 7.21 2024 Mid-Flood Cloudy Low 15:58 2.4 M 1.20 1 0.084 161.217 7.19 2024 Mid-Flood Cloudy Low 15:59 2.4 M 1.20 2 0.084 161.217 7.19 2024 Mid-Flood Cloudy Low 16:12 2.2 M 1.10 1 0.088 181.596 7.18 2024 Mid-Flood Cloudy Low 9:57 2.5 M 1.25 1 0.067 341.525 7.2 2024 Mid-Ebb Cloudy Low 9:57 2.5 M 1.25 2 0.067 341.525 7.2 7.2 7.2	Mid-Flood Cloudy Low 15:26 2.6 M 1.30 1 0.093 171.085 7.21 7.21 2024 Mid-Flood Cloudy Low 15:26 2.6 M 1.30 1 0.093 171.085 7.21 7.21 7.21 7.21 7.21 7.21 7.21 7.21 7.21 7.21 7.18 7.19 7.18 7.19 7.18 7.19 7.19 7.19 7.19 7.19 7.19 7.19 7.19 7.20 7.20 7.20 7.20 7.20 7.20 7.20 7.20 7.20 7.20 7.19 7.18 7.19 7.18 7.19 7.19 7.19 7.19 7.19 7.19 7.19 7.20	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)

2. Red and Bold: Limit Level Exceedance (For Impact Station Only)

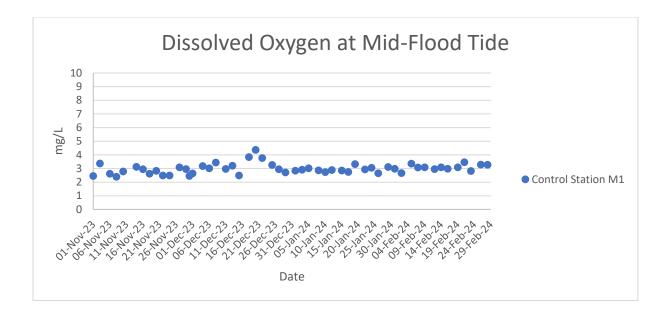
3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.

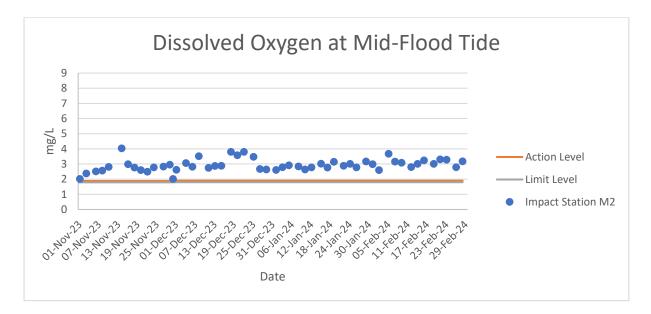
4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.

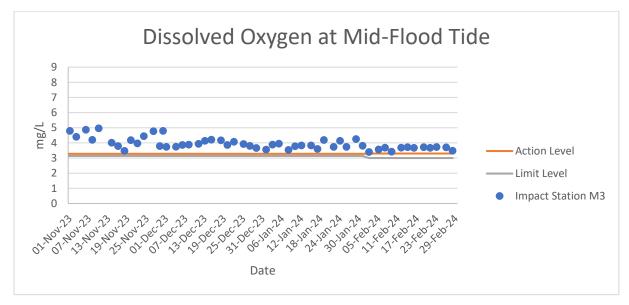
5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.

FULFIOOD TIDE						
Monitoring	D	0	N	TU	S	S
Location	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167
For Ebb Tide						
	-					

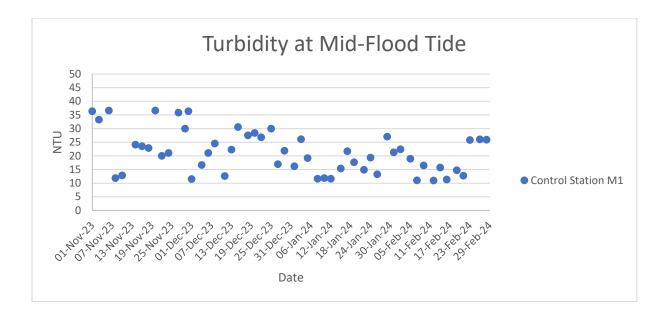
Monitoring	D	0	N.	ΓU	S	S
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

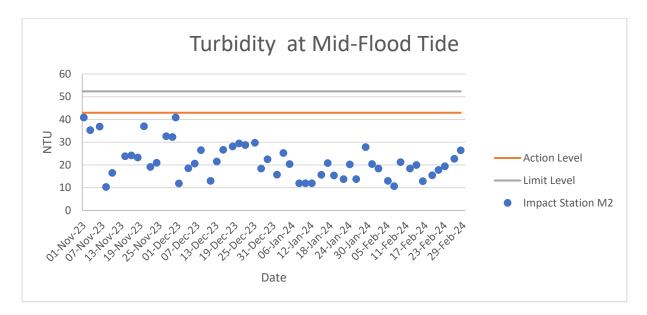


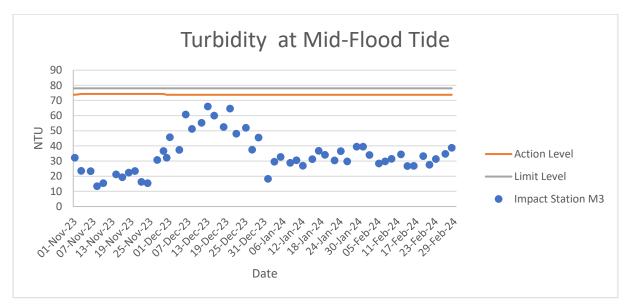




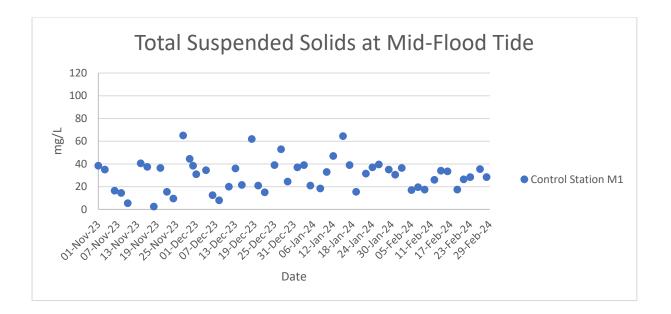
Water Quality Monitoring Results

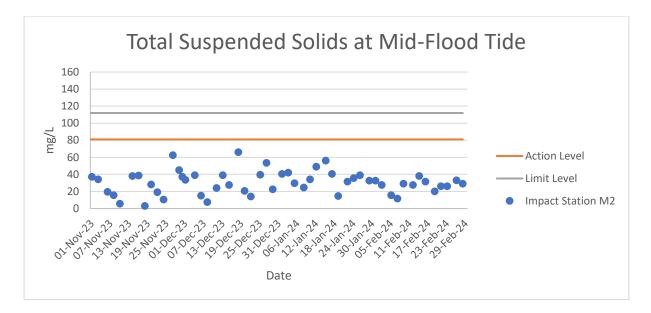


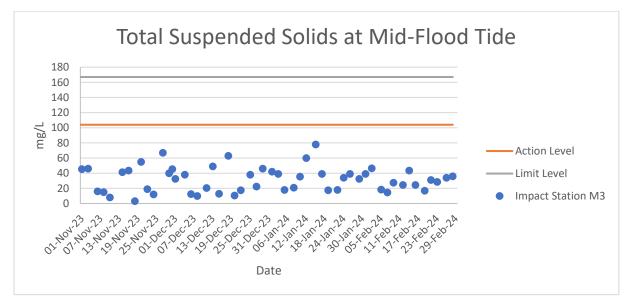




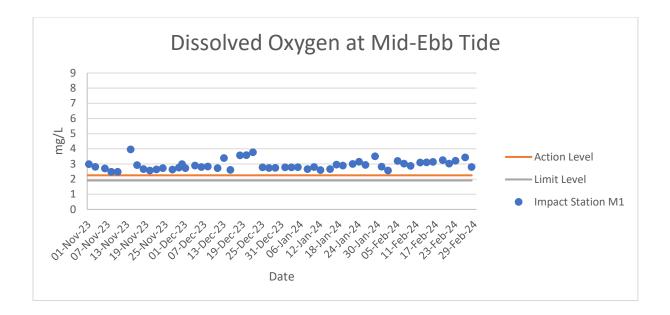
Water Quality Monitoring Results

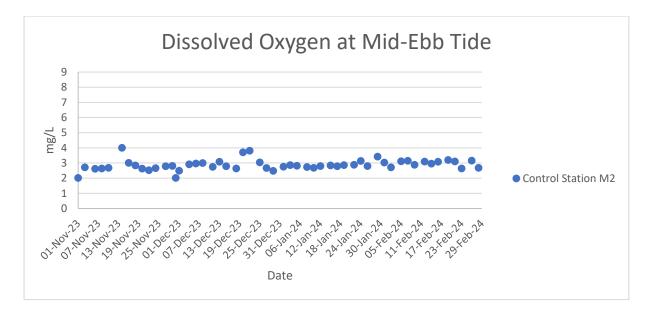


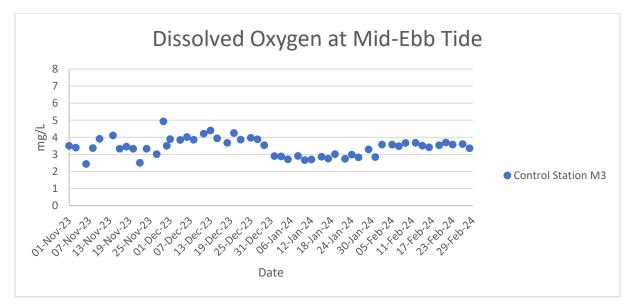




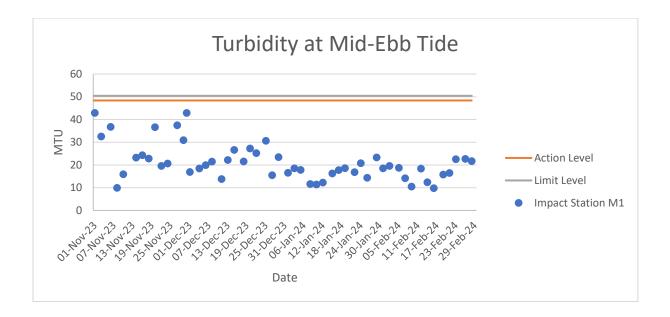
Water Quality Monitoring Results

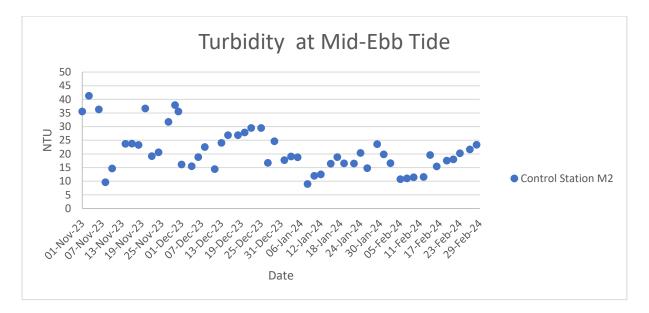


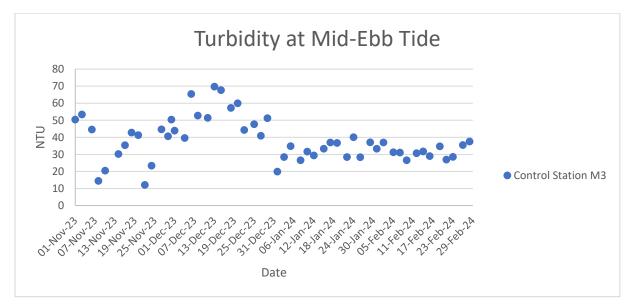




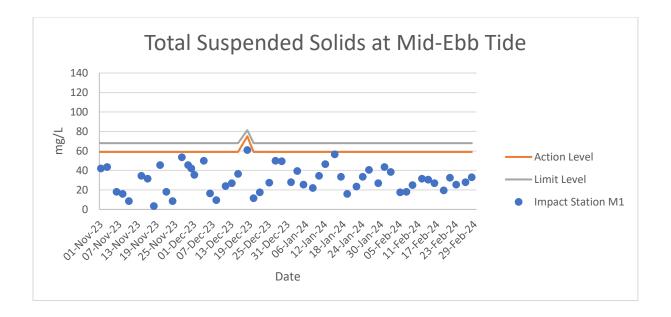
Water Quality Monitoring Results

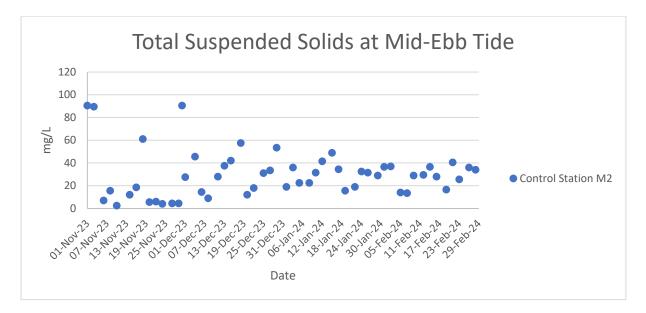


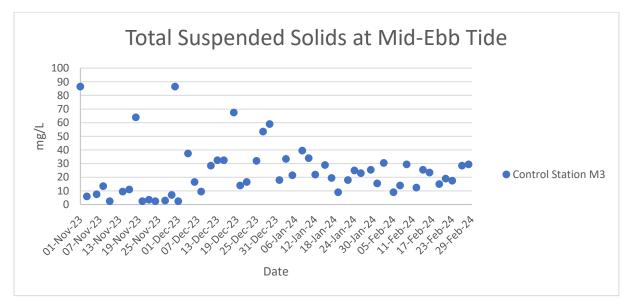




Water Quality Monitoring Results







Water Quality Monitoring Results

Ecology Monitoring Results for Contract No. SPW 02/2023 Environmental Team for Construction of Yuen long Effluent Polishing Plant Stage 1

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
05/02/2024	Daytime	Dry	FLW	Point Count	FLW1	Little Grebe	Tachybaptus ruficollis	1	Common	R	LC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW1	Common Sandpiper	Actitis hypoleucos	2	Common	PM,WV	-	-	-	LC	LC	Ν	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW1	Chinese Pond Heron	Ardeola bacchus	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW1	White Wagtail	Motacilla alba	1	Common	PM,WV	-	-	-	LC	LC	N	Ν
05/02/2024	Daytime	Dry	FLW	Point Count	FLW1	Great Cormorant	Phalacrocorax carbo	4	Common	WV	PRC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW1	Olive-backed Pipit	Anthus hodgsoni	4	Common	PM,WV	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Point Count	FLW1	Spotted Dove	Spilopelia chinensis	4	Abundant	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Point Count	FLW1	Collared Crow	Corvus torquatus	1	Uncommon	R	LC	-	-	NT	VU	Y	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW1	Black-collared Starling	Gracupica nigricollis	15	Common	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Point Count	FLW1	Red-throated Pipit	Anthus cervinus	2	Common	M, WV	LC	-	-	-	-	Y	Ν
28/02/2024	Night-time	Dry	FLW	Point Count	FLW1	Black-crowned Night Heron	Nycticorax nycticorax	1	Common	R,WV	-	-	-	LC	LC	Ν	Y
28/02/2024	Night-time	Dry	FLW	Point Count	FLW1	Common Sandpiper	Actitis hypoleucos	1	Common	PM,WV	-	-	-	LC	LC	Ν	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW2	Great Cormorant	Phalacrocorax carbo	1	Common	WV	PRC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW2	Plain Prinia	Prinia inornata	1	Common	R	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	FLW	Point Count	FLW2	Crested Myna	Acridotheres cristatellus	10	Common	R	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	FLW	Point Count	FLW2	Dusky Warbler	Phylloscopus fuscatus	1	Common	PM,WV	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	FLW	Point Count	FLW2	White-breasted Waterhen	Amaurornis phoenicurus	1	Common	R	-	-	-	LC	LC	Ν	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW2	Black-faced Bunting	Emberiza spodocephala	2	Common	PM,WV	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Point Count	FLW2	Yellow-bellied Prinia	Prinia flaviventris	2	Common	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Point Count	FLW2	Black-collared Starling	Gracupica nigricollis	5	Common	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Point Count	FLW2	Common Greenshank	Tringa nebularia	2	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW2	Little Egret	Egretta garzetta	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW2	Common Myna	Acridotheres tristis	4	Uncommon	R	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	FLW	Point Count	FLW2	Grey Heron	Ardea cinerea	1	Common	WV	PRC	-	-	LC	LC	Y	Y

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
05/02/2024	Daytime	Dry	FLW	Point Count	FLW2	Black Kite	Milvus migrans	1	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW2	Common Kingfisher	Alcedo atthis	1	Common	PM,WV	-	-	-	LC	LC	Ν	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW3	Little Egret	Egretta garzetta	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW3	Yellow-bellied Prinia	Prinia flaviventris	1	Common	R	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	FLW	Point Count	FLW3	Dusky Warbler	Phylloscopus fuscatus	1	Common	PM,WV	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	FLW	Point Count	FLW3	White Wagtail	Motacilla alba	1	Common	PM,WV	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	FLW	Point Count	FLW3	Chinese Pond Heron	Ardeola bacchus	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW3	Great Cormorant	Phalacrocorax carbo	3	Common	WV	PRC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW3	Oriental Magpie Robin	Copsychus saularis	1	Abundant	R	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	FLW	Point Count	FLW3	Red-throated Flycatcher	Ficedula albicilla	1	Uncommon	PM,WV	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	FLW	Point Count	FLW4	Black Kite	Milvus migrans	2	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW4	Common Moorhen	Gallinula chloropus	2	Common	R	-	-	-	LC	LC	Ν	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW4	Plain Prinia	Prinia inornata	3	Common	R	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	FLW	Point Count	FLW4	Great Cormorant	Phalacrocorax carbo	2	Common	WV	PRC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW4	Black-collared Starling	Gracupica nigricollis	8	Common	R	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	FLW	Point Count	FLW4	White-breasted Waterhen	Amaurornis phoenicurus	1	Common	R	-	-	-	LC	LC	Ν	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW4	Spotted Dove	Spilopelia chinensis	1	Abundant	R	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	FLW	Point Count	FLW4	Little Egret	Egretta garzetta	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW4	Yellow-bellied Prinia	Prinia flaviventris	1	Common	R	-	-	-	LC	LC	Ν	Ν
28/02/2024	Night-time	Dry	FLW	Point Count	FLW4	Savanna Nightjar	Caprimulgus affinis	1	Uncommon	R.PM	-	-	-	DD	-	Ν	Ν
28/02/2024	Night-time	Dry	FLW	Point Count	FLW4	Grey Heron	Ardea cinerea	1	Common	WV	PRC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW5	Crested Myna	Acridotheres cristatellus	12	Common	R	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	FLW	Point Count	FLW5	Common Moorhen	Gallinula chloropus	1	Common	R	-	-	-	LC	LC	Ν	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW5	Eastern Cattle Egret	Bubulcus coromandus	3	Common	R.PM	-	-	-	LC	LC	Y	Y

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
05/02/2024	Daytime	Dry	FLW	Point Count	FLW5	Little Egret	Egretta garzetta	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW5	Masked Laughingthrush	Pterorhinus perspicillatus	3	Abundant	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Point Count	FLW5	White-breasted Waterhen	Amaurornis phoenicurus	3	Common	R	-	-	-	LC	LC	Ν	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW5	Little Grebe	Tachybaptus ruficollis	2	Common	R	LC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW5	Spotted Dove	Spilopelia chinensis	2	Abundant	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Point Count	FLW5	Grey Heron	Ardea cinerea	2	Common	WV	PRC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW5	Chinese Pond Heron	Ardeola bacchus	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW5	Black-collared Starling	Gracupica nigricollis	15	Common	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Point Count	FLW5	White Wagtail	Motacilla alba	1	Common	PM,WV	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Point Count	FLW5	Chinese Bulbul	Pycnonotus sinensis	3	Abundant	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Point Count	FLW5	Eurasian Collared Dove	Streptopelia decaocto	4	Common	-	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Point Count	FLW5	Eurasian Tree Sparrow	Passer montanus	8	Abundant	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Point Count	FLW5	Dusky Warbler	Phylloscopus fuscatus	1	Common	PM,WV	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Point Count	FLW5	Scaly-breasted Munia	Lonchura punctulata	15	Common	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Point Count	FLW5	Olive-backed Pipit	Anthus hodgsoni	1	Common	PM,WV	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Point Count	FLW5	Long-tailed Shrike	Lanius schach	1	Common	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Point Count	FLW5	Common Kingfisher	Alcedo atthis	1	Common	PM,WV	-	-	-	LC	LC	Ν	Y
28/02/2024	Night-time	Dry	FLW	Point Count	FLW5	White-breasted Waterhen	Amaurornis phoenicurus	2	Common	R	-	-	-	LC	LC	Ν	Y
28/02/2024	Night-time	Dry	FLW	Point Count	FLW5	Chinese Pond Heron	Ardeola bacchus	3	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW6	Large-billed Crow	Corvus macrorhynchos	1	Common	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Point Count	FLW6	Crested Myna	Acridotheres cristatellus	2	Common	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Point Count	FLW6	Black-collared Starling	Gracupica nigricollis	6	Common	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Point Count	FLW6	Grey Heron	Ardea cinerea	1	Common	WV	PRC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW6	Azure-winged Magpie	Cyanopica cyanus	2	Introduced	R	-	-	-	LC	LC	Ν	N

Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern⁴	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
05/02/2024	Daytime	Dry	FLW	Point Count	FLW6	White-breasted Waterhen	Amaurornis phoenicurus	1	Common	R	-	-	-	LC	LC	Ν	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW6	Greater Coucal	Centropus sinensis	1	Common	R	-	Class II	VU	LC	LC	Y	Ν
05/02/2024	Daytime	Dry	FLW	Point Count	FLW6	Chinese Pond Heron	Ardeola bacchus	4	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW6	Common Tailorbird	Orthotomus sutorius	1	Common	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Point Count	FLW6	Swinhoe's White-eye	Zosterops simplex	8	Abundant	R	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	FLW	Point Count	FLW6	Dusky Warbler	Phylloscopus fuscatus	1	Common	PM,WV	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	FLW	Point Count	FLW6	Tufted Duck	Aythya fuligula	9	Uncommon	WV	LC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW6	Little Grebe	Tachybaptus ruficollis	2	Common	R	LC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW6	White-throated Kingfisher	Halcyon smyrnensis	1	Common	R	-	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW7	Common Kingfisher	Alcedo atthis	1	Common	PM,WV	-	-	-	LC	LC	Ν	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW7	Little Egret	Egretta garzetta	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW7	White-breasted Waterhen	Amaurornis phoenicurus	1	Common	R	-	-	-	LC	LC	Ν	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW7	Black-collared Starling	Gracupica nigricollis	20	Common	R	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	FLW	Point Count	FLW7	Spotted Dove	Spilopelia chinensis	7	Abundant	R	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	FLW	Point Count	FLW7	Eurasian Collared Dove	Streptopelia decaocto	6	Common	-	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	FLW	Point Count	FLW7	Chinese Pond Heron	Ardeola bacchus	7	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW7	Azure-winged Magpie	Cyanopica cyanus	13	Introduced	R	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	FLW	Point Count	FLW7	Asian Koel	Eudynamys scolopaceus	1	Common	R	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	FLW	Point Count	FLW7	Great Cormorant	Phalacrocorax carbo	3	Common	WV	PRC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW7	Eastern Cattle Egret	Bubulcus coromandus	16	Common	R.PM	-	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Point Count	FLW7	Crested Myna	Acridotheres cristatellus	5	Common	R	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	FLW	Point Count	FLW7	Dusky Warbler	Phylloscopus fuscatus	1	Common	PM,WV	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	FLW	Point Count	FLW7	Red-whiskered Bulbul	Pycnonotus jocosus	4	Abundant	R	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	FLW	Point Count	FLW7	White Wagtail	Motacilla alba	1	Common	PM,WV	-	-	-	LC	LC	Ν	Ν

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
05/02/2024	Daytime	Dry	NSW	Point Count	NSW1	Eurasian Tree Sparrow	Passer montanus	12	Abundant	R	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	NSW	Point Count	NSW1	Crested Myna	Acridotheres cristatellus	8	Common	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	NSW	Point Count	NSW1	Great Cormorant	Phalacrocorax carbo	275	Common	WV	PRC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	NSW1	White Wagtail	Motacilla alba	1	Common	PM,WV	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	NSW	Point Count	NSW1	Black Kite	Milvus migrans	2	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	NSW1	Great Egret	Ardea alba	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	NSW1	Barn Swallow	Hirundo rustica	12	Abundant	PM,SV	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	NSW	Point Count	NSW1	Dusky Warbler	Phylloscopus fuscatus	1	Common	PM,WV	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	NSW	Point Count	NSW1	Little Egret	Egretta garzetta	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	NSW1	Common Kingfisher	Alcedo atthis	1	Common	PM,WV	-	-	-	LC	LC	Ν	Y
05/02/2024	Daytime	Dry	NSW	Point Count	NSW1	Common Tailorbird	Orthotomus sutorius	1	Common	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	NSW	Point Count	NSW1	Eurasian Teal	Anas crecca	5	Common	WV	RC	-	-	LC	LC	Y	Y
28/02/2024	Night-time	Dry	NSW	Point Count	NSW1	Savanna Nightjar	Caprimulgus affinis	1	Uncommon	R.PM	-	-	-	DD	-	Ν	N
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Black-crowned Night Heron	Nycticorax nycticorax	3	Common	R,WV	-	-	-	LC	LC	Ν	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Red-billed Blue Magpie	Urocissa erythroryncha	2	Common	R	-	-	-	-	-	Ν	N
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Black-headed Gull	Chroicocephalus ridibundus	4	Common	WV	PRC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	White Wagtail	Motacilla alba	3	Common	PM,WV	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Dusky Warbler	Phylloscopus fuscatus	1	Common	PM,WV	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Yellow-browed Warbler	Phylloscopus inornatus	1	Common	WV,Sp	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Black-winged Stilt	Himantopus himantopus	7	Common	РМ	RC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Common Greenshank	Tringa nebularia	2	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Pied Avocet	Recurvirostra avosetta	18	Abundant	WV	RC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Grey Heron	Ardea cinerea	3	Common	WV	PRC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Chinese Pond Heron	Ardeola bacchus	3	Common	R	PRC (RC)	-	-	LC	LC	Y	Y

Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count		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
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Common Tailorbird	Orthotomus sutorius	1	Common	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Lesser Black-backed Gull	Larus fuscus	1	Common	WV,M	LC	-	-	-	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Marsh Sandpiper	Tringa stagnatilis	1	Common	PM,WV	RC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Northern Shoveler	Spatula clypeata	4	Abundant	WV	RC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Oriental Magpie Robin	Copsychus saularis	2	Abundant	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Common Sandpiper	Actitis hypoleucos	1	Common	PM,WV	-	-	-	LC	LC	Ν	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Common Redshank	Tringa totanus	3	Common	PM	RC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Japanese Tit	Parus minor	2	Common	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Great Cormorant	Phalacrocorax carbo	3	Common	WV	PRC	-	-	LC	LC	Y	Y
28/02/2024	Night-time	Dry	NSW	Point Count	SP/NSW1	Black-crowned Night Heron	Nycticorax nycticorax	8	Common	R,WV	-	-	-	LC	LC	Ν	Y
28/02/2024	Night-time	Dry	NSW	Point Count	SP/NSW1	Chinese Pond Heron	Ardeola bacchus	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW2	Dusky Warbler	Phylloscopus fuscatus	1	Common	PM,WV	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW2	Yellow-bellied Prinia	Prinia flaviventris	1	Common	R	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW2	Northern Shoveler	Spatula clypeata	6	Abundant	WV	RC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW2	Black-faced Spoonbill	Platalea minor	1	Common	WV	PGC	Class II	EN	EN	EN	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW2	Common Moorhen	Gallinula chloropus	2	Common	R	-	-	-	LC	LC	Ν	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW2	Yellow-browed Warbler	Phylloscopus inornatus	1	Common	WV,Sp	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW2	Pied Avocet	Recurvirostra avosetta	3	Abundant	WV	RC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW2	Common Kingfisher	Alcedo atthis	1	Common	PM,WV	-	-	-	LC	LC	Ν	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW2	Grey Heron	Ardea cinerea	1	Common	WV	PRC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW2	Great Egret	Ardea alba	2	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW2	Chinese Pond Heron	Ardeola bacchus	3	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW2	Common Redshank	Tringa totanus	3	Common	РМ	RC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW2	Eurasian Teal	Anas crecca	2	Common	WV	RC	-	-	LC	LC	Y	Y

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
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW2	Great Cormorant	Phalacrocorax carbo	3	Common	WV	PRC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW2	Common Greenshank	Tringa nebularia	1	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW2	Plain Prinia	Prinia inornata	2	Common	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW2	Japanese Tit	Parus minor	2	Common	R	-	-	-	LC	LC	N	N
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW2	Swinhoe's White-eye	Zosterops simplex	3	Abundant	R	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW2	Black-winged Stilt	Himantopus himantopus	4	Common	РМ	RC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW2	Common Tailorbird	Orthotomus sutorius	2	Common	R	-	-	-	LC	LC	N	N
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW2	Black-crowned Night Heron	Nycticorax nycticorax	2	Common	R,WV	-	-	-	LC	LC	Ν	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW2	Black Kite	Milvus migrans	1	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Great Cormorant	Phalacrocorax carbo	88	Common	WV	PRC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Common Sandpiper	Actitis hypoleucos	2	Common	PM,WV	-	-	-	LC	LC	Ν	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Oriental Magpie	Pica serica	1	Common	R	-	-	-	-	LC	N	N
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Black-collared Starling	Gracupica nigricollis	30	Common	R	-	-	-	LC	LC	N	N
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Common Moorhen	Gallinula chloropus	5	Common	R	-	-	-	LC	LC	N	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Pied Avocet	Recurvirostra avosetta	78	Abundant	WV	RC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Common Greenshank	Tringa nebularia	3	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Black-headed Gull	Chroicocephalus ridibundus	3	Common	WV	PRC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Grey Heron	Ardea cinerea	2	Common	WV	PRC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Great Egret	Ardea alba	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Lesser Black-backed Gull	Larus fuscus	1	Common	WV,M	LC	-	-	-	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Eurasian Teal	Anas crecca	5	Common	WV	RC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Black-winged Stilt	Himantopus himantopus	8	Common	РМ	RC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Common Redshank	Tringa totanus	6	Common	РМ	RC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	White-breasted Waterhen	Amaurornis phoenicurus	1	Common	R	-	-	-	LC	LC	Ν	Y

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05/02/2024	Daytime	Dry	FLW	Transect	FLW	Black-faced Bunting	Emberiza spodocephala	3	Common	PM,WV	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Great Cormorant	Phalacrocorax carbo	4	Common	WV	PRC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Grey Heron	Ardea cinerea	1	Common	WV	PRC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Black-collared Starling	Gracupica nigricollis	25	Common	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Crested Myna	Acridotheres cristatellus	15	Common	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Plain Prinia	Prinia inornata	2	Common	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Yellow-bellied Prinia	Prinia flaviventris	1	Common	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Spotted Dove	Spilopelia chinensis	3	Abundant	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Eurasian Coot	Fulica atra	2	Uncommon	W	RC	-	-	-	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Chinese Bulbul	Pycnonotus sinensis	3	Abundant	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Black Kite	Milvus migrans	2	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Eurasian Collared Dove	Streptopelia decaocto	2	Common	-	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Transect	FLW	White-throated Kingfisher	Halcyon smyrnensis	1	Common	R	-	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Stejneger's Stonechat	Saxicola stejnegeri	1	Common	PM,WV	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Transect	FLW	White-breasted Waterhen	Amaurornis phoenicurus	1	Common	R	-	-	-	LC	LC	Ν	Y
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Zitting Cisticola	Cisticola juncidis	2	Common	PM.WV	LC	-	-	LC	LC	Y	N
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Common Moorhen	Gallinula chloropus	1	Common	R	-	-	-	LC	LC	Ν	Y
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Great Cormorant	Phalacrocorax carbo	2	Common	WV	PRC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Azure-winged Magpie	Cyanopica cyanus	3	Introduced	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Transect	FLW	White Wagtail	Motacilla alba	2	Common	PM,WV	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Chinese Pond Heron	Ardeola bacchus	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Common Kingfisher	Alcedo atthis	1	Common	PM,WV	-	-	-	LC	LC	Ν	Y
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Dusky Warbler	Phylloscopus fuscatus	1	Common	PM,WV	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Black-collared Starling	Gracupica nigricollis	15	Common	R	-	-	-	LC	LC	Ν	N

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05/02/2024	Daytime	Dry	FLW	Transect	FLW	Great Egret	Ardea alba	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Chinese Bulbul	Pycnonotus sinensis	8	Abundant	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Great Cormorant	Phalacrocorax carbo	1	Common	WV	PRC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Swinhoe's White-eye	Zosterops simplex	4	Abundant	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Black Kite	Milvus migrans	2	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Azure-winged Magpie	Cyanopica cyanus	3	Introduced	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Transect	FLW	White Wagtail	Motacilla alba	1	Common	PM,WV	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Oriental Magpie Robin	Copsychus saularis	1	Abundant	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Black Kite	Milvus migrans	1	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Little Ringed Plover	Charadrius dubius	1	Common	WV,PM	-	-	-	LC	LC	Ν	Y
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Common Kingfisher	Alcedo atthis	1	Common	PM,WV	-	-	-	LC	LC	Ν	Y
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Crested Myna	Acridotheres cristatellus	12	Common	R	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Common Myna	Acridotheres tristis	3	Uncommon	R	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Spotted Dove	Spilopelia chinensis	1	Abundant	R	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Eastern Yellow Wagtail	Motacilla tschutschensis	2	Common	PM,WV	-	-	-	LC	LC	Ν	Ν
05/02/2024	Daytime	Dry	FLW	Transect	FLW	Little Egret	Egretta garzetta	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
28/02/2024	Night-time	Dry	FLW	Transect	FLW	Savanna Nightjar	Caprimulgus affinis	2	Uncommon	R.PM	-	-	-	DD	-	Ν	N
05/02/2024	Daytime	Dry	NSW	Transect	NSW	Black-headed Gull	Chroicocephalus ridibundus	40	Common	WV	PRC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Transect	NSW	Common Tailorbird	Orthotomus sutorius	1	Common	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	NSW	Transect	NSW	Little Egret	Egretta garzetta	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Transect	NSW	Black-winged Stilt	Himantopus himantopus	12	Common	РМ	RC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Transect	NSW	Chinese Pond Heron	Ardeola bacchus	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Transect	NSW	Common Redshank	Tringa totanus	2	Common	РМ	RC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Transect	NSW	Great Cormorant	Phalacrocorax carbo	1	Common	WV	PRC	-	-	LC	LC	Y	Y

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05/02/2024	Daytime	Dry	NSW	Transect	NSW	Great Egret	Ardea alba	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Transect	NSW	Spotted Dove	Spilopelia chinensis	2	Abundant	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	NSW	Transect	NSW	House Swift	Apus nipalensis	10	Abundant, Common	SpM,R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	NSW	Transect	NSW	Oriental Magpie Robin	Copsychus saularis	1	Abundant	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	NSW	Transect	NSW	Pied Avocet	Recurvirostra avosetta	6	Abundant	WV	RC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Transect	NSW	Grey Heron	Ardea cinerea	1	Common	WV	PRC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	NSW	Transect	NSW	Common Sandpiper	Actitis hypoleucos	1	Common	PM,WV	-	-	-	LC	LC	Ν	Y
05/02/2024	Daytime	Dry	NSW	Transect	NSW	Greater Coucal	Centropus sinensis	1	Common	R	-	Class II	VU	LC	LC	Y	N
05/02/2024	Daytime	Dry	NSW	Transect	NSW	Japanese Tit	Parus minor	2	Common	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	NSW	Transect	NSW	White-breasted Waterhen	Amaurornis phoenicurus	1	Common	R	-	-	-	LC	LC	Ν	Y
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Common Moorhen	Gallinula chloropus	27	Common	R	-	-	-	LC	LC	Ν	Y
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Northern Shoveler	Spatula clypeata	14	Abundant	WV	RC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Grey Heron	Ardea cinerea	8	Common	WV	PRC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Eurasian Teal	Anas crecca	25	Common	WV	RC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Pied Avocet	Recurvirostra avosetta	21	Abundant	WV	RC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Japanese Tit	Parus minor	2	Common	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Common Redshank	Tringa totanus	7	Common	РМ	RC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Great Egret	Ardea alba	2	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Common Greenshank	Tringa nebularia	8	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Black-winged Stilt	Himantopus himantopus	25	Common	РМ	RC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Great Cormorant	Phalacrocorax carbo	6	Common	WV	PRC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Little Ringed Plover	Charadrius dubius	2	Common	WV,PM	-	-	-	LC	LC	Ν	Y
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Red-billed Blue Magpie	Urocissa erythroryncha	3	Common	R	-	-	-	-	-	Ν	N
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Azure-winged Magpie	Cyanopica cyanus	15	Introduced	R	-	-	-	LC	LC	Ν	N

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
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	White-throated Kingfisher	Halcyon smyrnensis	: 1	Common	R	-	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	House Swift	Apus nipalensis	25	Abundant, Common	SpM,R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Lesser Black-backed Gull	Larus fuscus	3	Common	WV,M	LC	-	-	-	LC	Y	Y
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Chinese Pond Heron	Ardeola bacchus	4	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Dusky Warbler	Phylloscopus fuscatus	2	Common	PM,WV	-	-	-	LC	LC	N	N
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Common Kingfisher	Alcedo atthis	1	Common	PM,WV	-	-	-	LC	LC	Ν	Y
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Plain Prinia	Prinia inornata	2	Common	R	-	-	-	LC	LC	N	N
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Common Sandpiper	Actitis hypoleucos	2	Common	PM,WV	-	-	-	LC	LC	N	Y
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	White-breasted Waterhen	Amaurornis phoenicurus	1	Common	R	-	-	-	LC	LC	N	Y
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Black-headed Gull	Chroicocephalus ridibundus	45	Common	WV	PRC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Crested Myna	Acridotheres cristatellus	40	Common	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Black-crowned Night Heron	Nycticorax nycticorax	2	Common	R,WV	-	-	-	LC	LC	N	Y
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Oriental Magpie	Pica serica	3	Common	R	-	-	-	-	LC	Ν	N
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Spotted Dove	Spilopelia chinensis	2	Abundant	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	White Wagtail	Motacilla alba	1	Common	PM,WV	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Tufted Duck	Aythya fuligula	4	Uncommon	WV	LC	-	-	LC	LC	Y	Y
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Chinese Bulbul	Pycnonotus sinensis	6	Abundant	R	-	-	-	LC	LC	Ν	N
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Yellow-browed Warbler	Phylloscopus inornatus	1	Common	WV,Sp	-	-	-	LC	LC	N	N
05/02/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Red-whiskered Bulbul	Pycnonotus jocosus	3	Abundant	R	-	-	-	LC	LC	N	N

Notes:

1. All wild birds are protected under Wild Animals Protection Ordinance (Cap. 170).

2. AFCD (2021). Hong Kong Biodiversity Database.

3. Carey et al. (2001): R=resident; WV=winter visitor; SV=summer visitor; PM=passage migrant; Sp=spring; A=autumn;

4. Fellowes et al. (2002): GC=Global Concern; 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

7. IUCN 2021. The IUCN Red List of Threatened Species. Version 2020-3.

8. Wetland-dependent species (including wetland-dependent species and waterbirds).

9. 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 (5 February 2024 & 28 February 2024)

Scientific Name	Count	Р	Ln(P)	P*Ln(P)	P*Ln(P) ²
Spatula clypeata	10	0.01006036	-4.599152114	-0.04627	0.212799
Anas crecca	12	0.01207243	-4.416830557	-0.05332	0.235514
Aythya fuligula	9	0.00905433	-4.704512629	-0.0426	0.200394
Tachybaptus ruficollis	5	0.00503018	-5.292299294	-0.02662	0.140887
Platalea minor	1	0.00100604	-6.901737207	-0.00694	0.047922
Nycticorax nycticorax	14	0.01408451	-4.262679877	-0.06004	0.255922
Ardeola bacchus	27	0.02716298	-3.605900341	-0.09795	0.353187
Bubulcus coromandus	19	0.01911469	-3.957298227	-0.07564	0.29934
Ardea cinerea	11	0.0110664	-4.503841934	-0.04984	0.224477
Ardea alba	4	0.00402414	-5.515442846	-0.02219	0.122415
Egretta garzetta	6	0.00603622	-5.109977737	-0.03084	0.157617
Phalacrocorax carbo	382	0.38430584	-0.956316598	-0.36752	0.351464
Milvus migrans	6	0.00603622	-5.109977737	-0.03084	0.157617
Amaurornis phoenicurus	10	0.01006036	-4.599152114	-0.04627	0.212799
Gallinula chloropus	10	0.01006036	-4.599152114	-0.04627	0.212799
Himantopus himantopus	19	0.01911469	-3.957298227	-0.07564	0.29934
Recurvirostra avosetta	99	0.09959759	-2.306617357	-0.22973	0.529907
Actitis hypoleucos	6	0.00603622	-5.109977737	-0.03084	0.157617
Tringa totanus	12	0.01207243	-4.416830557	-0.05332	0.235514
Tringa stagnatilis	1	0.00100604	-6.901737207	-0.00694	0.047922
Tringa nebularia	8	0.00804829	-4.822295665	-0.03881	0.187159
Chroicocephalus ridibundus	7	0.00704225	-4.955827058	-0.0349	0.172959
Larus fuscus	2	0.00201207	-6.208590026	-0.01249	0.077559
Streptopelia decaocto	10	0.01006036	-4.599152114	-0.04627	0.212799
Spilopelia chinensis	14	0.01408451	-4.262679877	-0.06004	0.255922
Centropus sinensis	1	0.00100604	-6.901737207	-0.00694	0.047922
Eudynamys scolopaceus	1	0.00100604	-6.901737207	-0.00694	0.047922
Caprimulgus affinis	2	0.00201207	-6.208590026	-0.01249	0.077559
Halcyon smyrnensis	1	0.00100604	-6.901737207	-0.00694	0.047922
Alcedo atthis	5	0.00503018	-5.292299294	-0.02662	0.140887
Lanius schach	1	0.00100604	-6.901737207	-0.00694	0.047922
Cyanopica cyanus	15	0.01509054	-4.193687006	-0.06329	0.265398
Urocissa erythroryncha	2	0.00201207	-6.208590026	-0.01249	0.077559
Pica serica	1	0.00100604	-6.901737207	-0.00694	0.047922
Corvus torquatus	1	0.00100604	-6.901737207	-0.00694	0.047922
Corvus macrorhynchos	1	0.00100604	-6.901737207	-0.00694	0.047922
Parus minor	4	0.00402414	-5.515442846	-0.02219	0.122415
Pycnonotus jocosus	4	0.00402414	-5.515442846	-0.02219	0.122415
Pycnonotus sinensis	3	0.00301811	-5.803124918	-0.01751	0.101639
Hirundo rustica	12	0.01207243	-4.416830557	-0.05332	0.235514
Phylloscopus inornatus	2	0.00201207	-6.208590026	-0.01249	0.077559
Phylloscopus fuscatus	8	0.00804829	-4.822295665	-0.03881	0.187159
Prinia flaviventris	5	0.00503018	-5.292299294	-0.02662	0.140887
Prinia inornata	6	0.00603622	-5.109977737	-0.03084	0.157617

Scientific Name	Count	Р	Ln(P)	P*Ln(P)	P*Ln(P) ²
Orthotomus sutorius	5	0.00503018	-5.292299294	-0.02662	0.140887
Pterorhinus perspicillatus	3	0.00301811	-5.803124918	-0.01751	0.101639
Zosterops simplex	11	0.0110664	-4.503841934	-0.04984	0.224477
Acridotheres cristatellus	37	0.03722334	-3.290819294	-0.1225	0.40311
Acridotheres tristis	4	0.00402414	-5.515442846	-0.02219	0.122415
Gracupica nigricollis	99	0.09959759	-2.306617357	-0.22973	0.529907
Copsychus saularis	3	0.00301811	-5.803124918	-0.01751	0.101639
Ficedula albicilla	1	0.00100604	-6.901737207	-0.00694	0.047922
Passer montanus	20	0.02012072	-3.906004933	-0.07859	0.306979
Lonchura punctulata	15	0.01509054	-4.193687006	-0.06329	0.265398
Motacilla alba	8	0.00804829	-4.822295665	-0.03881	0.187159
Anthus hodgsoni	5	0.00503018	-5.292299294	-0.02662	0.140887
Anthus cervinus	2	0.00201207	-6.208590026	-0.01249	0.077559
Emberiza spodocephala	2	0.00201207	-6.208590026	-0.01249	0.077559
Total	994	1	-298.6230826	-2.7048	10.13144
Richness	58				
SS	10.131				
SQ	7.3159				
Н	2.7048				
S ² H	0.0029				

Appendix F.2.2 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Point Count Method) in All Habitats (5 February 2024 & 28 February 2024)

Scientific Name	Count	Р	Ln(P)	P*Ln(P)	P*Ln(P) ²
Spatula clypeata	10	0.015174507	-4.18814	-0.06355	0.266168
Anas crecca	12	0.018209408	-4.00582	-0.07294	0.292199
Aythya fuligula	9	0.013657056	-4.2935	-0.05864	0.251756
Tachybaptus ruficollis	5	0.007587253	-4.88129	-0.03704	0.180781
Platalea minor	1	0.001517451	-6.49072	-0.00985	0.063929
Nycticorax nycticorax	14	0.02124431	-3.85167	-0.08183	0.315166
Ardeola bacchus	27	0.040971168	-3.19489	-0.1309	0.418205
Bubulcus coromandus	19	0.028831563	-3.54628	-0.10224	0.36259
Ardea cinerea	11	0.016691958	-4.09283	-0.06832	0.279611
Ardea alba	4	0.006069803	-5.10443	-0.03098	0.15815
Egretta garzetta	6	0.009104704	-4.69896	-0.04278	0.201034
Phalacrocorax carbo	382	0.579666161	-0.5453	-0.31609	0.172367
Milvus migrans	6	0.009104704	-4.69896	-0.04278	0.201034
Himantopus himantopus	19	0.028831563	-3.54628	-0.10224	0.36259
Recurvirostra avosetta	99	0.150227618	-1.8956	-0.28477	0.539815
Tringa totanus	12	0.018209408	-4.00582	-0.07294	0.292199
Tringa stagnatilis	1	0.001517451	-6.49072	-0.00985	0.063929
Tringa nebularia	8	0.012139605	-4.41128	-0.05355	0.23623
Chroicocephalus ridibundus	7	0.010622155	-4.54481	-0.04828	0.219404
Larus fuscus	2	0.003034901	-5.79758	-0.0176	0.102009
Centropus sinensis	1	0.001517451	-6.49072	-0.00985	0.063929
Halcyon smyrnensis	1	0.001517451	-6.49072	-0.00985	0.063929
Corvus torquatus	1	0.001517451	-6.49072	-0.00985	0.063929
Anthus cervinus	2	0.003034901	-5.79758	-0.0176	0.102009
Total	659	1	-109.555	-1.69432	5.272963
Richness	24				
SS	5.272963				
SQ	2.870725				
Н	1.694321				
S ² H	0.0036718				

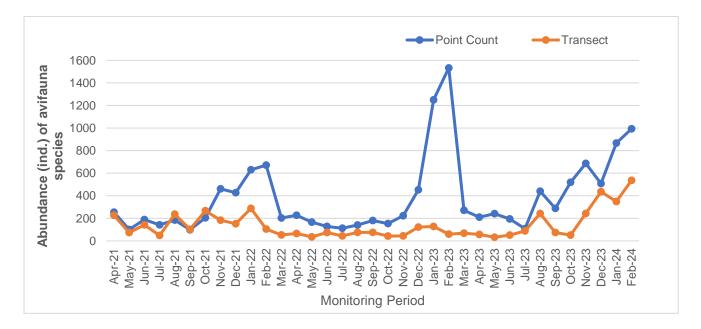
Appendix F.2.3 Ecological Bird Monitoring Diversity (All avifauna species in Transect Walk Method) in All Habitats (5 February 2024 & 28 February 2024)

Scientific Name	Count	Р	Ln(P)	P*Ln(P)	P*Ln(P) ²
Spatula clypeata	14	0.0261194	-3.64508	-0.09521	0.34704
Anas crecca	25	0.04664179	-3.06526	-0.14297	0.43824
Aythya fuligula	4	0.00746269	-4.89784	-0.03655	0.17902
Nycticorax nycticorax	2	0.00373134	-5.59099	-0.02086	0.11664
Ardeola bacchus	6	0.01119403	-4.49237	-0.05029	0.22591
Ardea cinerea	10	0.01865672	-3.98155	-0.07428	0.29576
Ardea alba	4	0.00746269	-4.89784	-0.03655	0.17902
Egretta garzetta	2	0.00373134	-5.59099	-0.02086	0.11664
Phalacrocorax carbo	14	0.0261194	-3.64508	-0.09521	0.34704
Milvus migrans	5	0.00932836	-4.6747	-0.04361	0.20385
Amaurornis phoenicurus	3	0.00559701	-5.18552	-0.02902	0.1505
Gallinula chloropus	28	0.05223881	-2.95193	-0.15421	0.4552
Fulica atra	2	0.00373134	-5.59099	-0.02086	0.11664
Himantopus himantopus	37	0.06902985	-2.67322	-0.18453	0.49329
Recurvirostra avosetta	27	0.05037313	-2.9883	-0.15053	0.44983
Charadrius dubius	3	0.00559701	-5.18552	-0.02902	0.1505
Actitis hypoleucos	3	0.00559701	-5.18552	-0.02902	0.1505
Tringa totanus	9	0.01679104	-4.08691	-0.06862	0.28046
Tringa nebularia	8	0.01492537	-4.20469	-0.06276	0.26387
Chroicocephalus ridibundus	85	0.15858209	-1.84148	-0.29203	0.53776
Larus fuscus	3	0.00559701	-5.18552	-0.02902	0.1505
Streptopelia decaocto	2	0.00373134	-5.59099	-0.02086	0.11664
Spilopelia chinensis	8	0.01492537	-4.20469	-0.06276	0.26387
Centropus sinensis	1	0.00186567	-6.28413	-0.01172	0.07368
Caprimulgus affinis	2	0.00373134	-5.59099	-0.02086	0.11664
Apus nipalensis	35	0.06529851	-2.72879	-0.17819	0.48623
Halcyon smyrnensis	2	0.00373134	-5.59099	-0.02086	0.11664
Alcedo atthis	3	0.00559701	-5.18552	-0.02902	0.1505
Cyanopica cyanus	21	0.0391791	-3.23961	-0.12693	0.41119
Urocissa erythroryncha	3	0.00559701	-5.18552	-0.02902	0.1505
Pica serica	3	0.00559701	-5.18552	-0.02902	0.1505
Parus minor	4	0.00746269	-4.89784	-0.03655	0.17902
Pycnonotus jocosus	3	0.00559701	-5.18552	-0.02902	0.1505
Pycnonotus sinensis	17	0.03171642	-3.45092	-0.10945	0.37771
Phylloscopus inornatus	1	0.00186567	-6.28413	-0.01172	0.07368
Phylloscopus fuscatus	3	0.00559701	-5.18552	-0.02902	0.1505
Cisticola juncidis	2	0.00373134	-5.59099	-0.02086	0.11664
Prinia flaviventris	1	0.00186567	-6.28413	-0.01172	0.07368
Prinia inornata	4	0.00746269	-4.89784	-0.03655	0.17902
Orthotomus sutorius	1	0.00186567	-6.28413	-0.01172	0.07368
Zosterops simplex	4	0.00746269	-4.89784	-0.03655	0.17902
Acridotheres cristatellus	67	0.125	-2.07944	-0.25993	0.54051
Acridotheres tristis	3	0.00559701	-5.18552	-0.02902	0.1505
Gracupica nigricollis	40	0.07462687	-2.59525	-0.19368	0.50264
Copsychus saularis	2	0.00373134	-5.59099	-0.02086	0.11664
Saxicola stejnegeri	1	0.00186567	-6.28413	-0.01172	0.07368
Motacilla tschutschensis	2	0.00373134	-5.59099	-0.02086	0.11664
Motacilla alba	4	0.00746269	-4.89784	-0.03655	0.17902
Emberiza spodocephala	3	0.00559701	-5.18552	-0.02902	0.1505
Total	536	1	-232.857	-3.153	11.352

Scientific Name	Count	Р	Ln(P)	P*Ln(P)	P*Ln(P) ²
Richness	49				
SS	11.06816791				
SQ	9.79753				
Н	3.1301				
S ² H	0.00245				

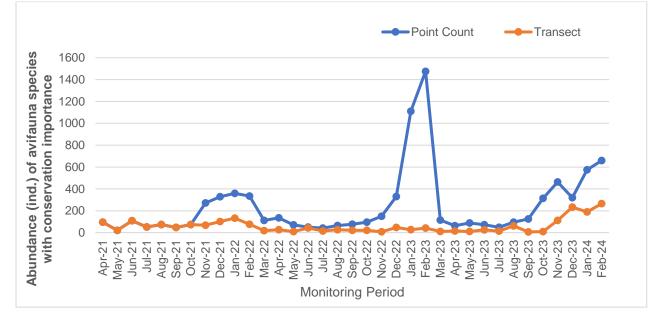
Appendix F.2.4 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance
in Transect Walk Method) in All Habitats (5 February 2024 & 28 February 2024)

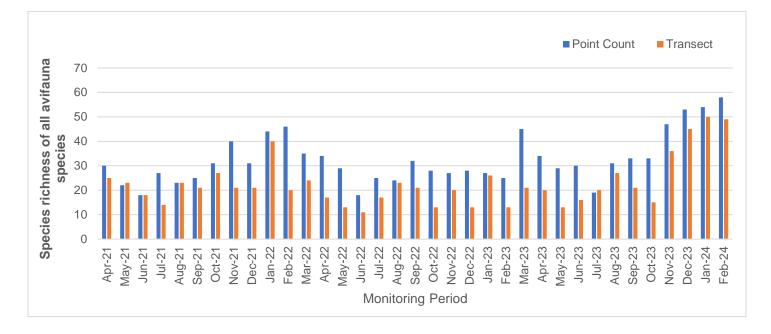
Scientific Name	Count	Р	Ln(P)	P*Ln(P)	P*Ln(P)2
Spatula clypeata	14	0.05283	-2.94067	-0.155356	0.456852
Anas crecca	25	0.09434	-2.36085	-0.222722	0.525814
Aythya fuligula	4	0.015094	-4.19344	-0.063297	0.265432
Nycticorax nycticorax	2	0.007547	-4.88658	-0.03688	0.180217
Ardeola bacchus	6	0.022642	-3.78797	-0.085765	0.324877
Ardea cinerea	10	0.037736	-3.27714	-0.123666	0.405271
Ardea alba	4	0.015094	-4.19344	-0.063297	0.265432
Egretta garzetta	2	0.007547	-4.88658	-0.03688	0.180217
Phalacrocorax carbo	14	0.05283	-2.94067	-0.155356	0.456852
Milvus migrans	5	0.018868	-3.97029	-0.074911	0.297419
Fulica atra	2	0.007547	-4.88658	-0.03688	0.180217
Himantopus himantopus	37	0.139623	-1.96881	-0.274891	0.541208
Recurvirostra avosetta	27	0.101887	-2.28389	-0.232699	0.531459
Charadrius dubius	3	0.011321	-4.48112	-0.05073	0.227325
Tringa totanus	9	0.033962	-3.38251	-0.114878	0.388574
Tringa nebularia	8	0.030189	-3.50029	-0.105669	0.369872
Chroicocephalus ridibundus	85	0.320755	-1.13708	-0.364723	0.414719
Larus fuscus	3	0.011321	-4.48112	-0.05073	0.227325
Centropus sinensis	1	0.003774	-5.57973	-0.021056	0.117484
Halcyon smyrnensis	2	0.007547	-4.88658	-0.03688	0.180217
Cisticola juncidis	2	0.007547	-4.88658	-0.03688	0.180217
Total	265	1	-78.9119	-2.344145	6.717
Richness	21				
SS	6.717				
SQ	5.495				
Н	2.344				
S ² H	0.005				



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

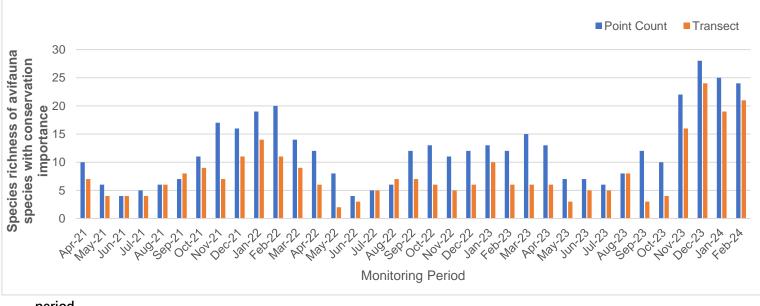
Appendix F.3.2 Abundance of avifauna species with conservation importance throughout the monitoring period



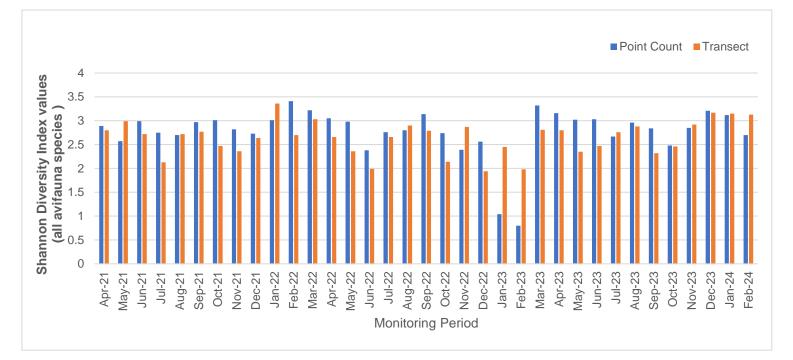


Appendix F.4.1 Species richness of all avifauna species throughout the monitoring period

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

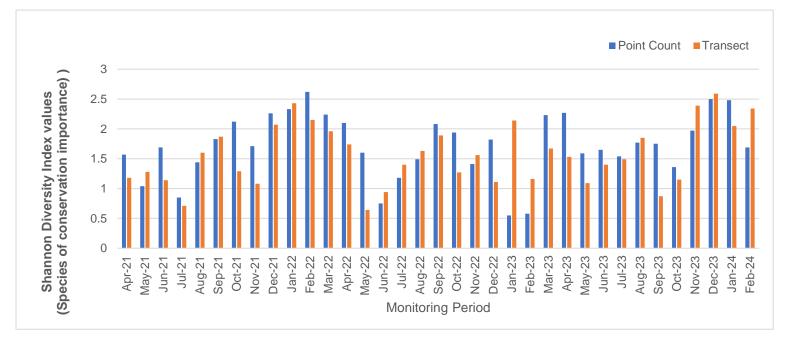






Appendix F.5.1 Shannon Diversity Index values of all avifauna species throughout the monitoring period

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	February 2017	February 2024			
Total	642	994			
Richness	58	58			
н	3.324	2.705			
S ² H	0.00193	0.00286			
t	8.942				
df	1635.1870				
Crit	1.961				
р	1.01E-18				
CI	0.088 0.107				

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

Months	February 2017	February 2024			
Total	2	536			
Richness	1	49			
Н	0	3.1301			
S ² H	0	0.00245			
t	63.184				
df	536.0				
Crit	1.964				
р	1.55E-250				
CI	0	0.099			

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

Months	February 2017	February 2024		
Total	447	659		
Richness	26	24		
Н	2.679	1.694		
S ² H	0.002	0.00367		
t	13.073			
df	1093.9355			
Crit	1.962			
р	2.15E-36			
CI	0.089 0.121			

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

Months	February 2017	February 2024			
Total	2	265			
Richness	1	21			
н	0	2.344			
S²H	0	0.00475			
t	33.999				
df	265.0				
Crit	1.969				
р	1.25E-98				
CI	0 0.138				

Appendix G Wind Data

Date	Wind Speed (m/s)	Wind Direction
1/2/2024 0:00	0.0	N
1/2/2024 1:00	0.0	NE
1/2/2024 2:00	0.0	NE
1/2/2024 3:00	0.1	N
1/2/2024 4:00	1.1	NE
1/2/2024 5:00	0.0	E
1/2/2024 6:00	0.0	E
1/2/2024 7:00	1.7	NW
1/2/2024 8:00	0.0	NW
1/2/2024 9:00	1.9	N
1/2/2024 10:00	0.0	E
1/2/2024 11:00	0.9	NE
1/2/2024 12:00	1.1	N
1/2/2024 13:00	2.0	NE
1/2/2024 14:00	0.1	W
1/2/2024 15:00	2.1	W
1/2/2024 16:00	1.9	NW
1/2/2024 17:00	0.0	SW
1/2/2024 18:00	1.3	S
1/2/2024 19:00	1.2	E
1/2/2024 20:00	0.6	S
1/2/2024 21:00	0.0	W
1/2/2024 22:00	0.0	W
1/2/2024 23:00	0.0	SE
1/2/2024 0:00	0.0	NE
2/2/2024 1:00	1.1	W
2/2/2024 2:00	0.0	SE

Date	Wind Speed (m/s)	Wind Direction
2/2/2024 3:00	0.0	SW
2/2/2024 4:00	0.0	N
2/2/2024 5:00	0.0	SE
2/2/2024 6:00	0.0	N
2/2/2024 7:00	0.2	SE
2/2/2024 8:00	0.0	E
2/2/2024 9:00	1.5	NE
2/2/2024 10:00	1.9	Ν
2/2/2024 11:00	2.1	E
2/2/2024 12:00	2.2	N
2/2/2024 13:00	3.8	W
2/2/2024 14:00	2.2	N
2/2/2024 15:00	0.9	NW
2/2/2024 16:00	2.3	Ν
2/2/2024 17:00	2.5	SE
2/2/2024 18:00	1.9	NE
2/2/2024 19:00	3.6	E
2/2/2024 20:00	2.0	NE
2/2/2024 21:00	2.0	NE
2/2/2024 22:00	3.4	SE
2/2/2024 23:00	0.0	E
2/2/2024 0:00	3.2	E
3/2/2024 1:00	2.8	E
3/2/2024 2:00	2.1	E
3/2/2024 3:00	2.1	SE
3/2/2024 4:00	0.0	NE
3/2/2024 5:00	2.2	NE

Date	Wind Speed (m/s)	Wind Direction
3/2/2024 6:00	1.3	E
3/2/2024 7:00	0.0	N
3/2/2024 8:00	2.0	E
3/2/2024 9:00	3.0	NE
3/2/2024 10:00	3.2	NE
3/2/2024 11:00	4.0	NE
3/2/2024 12:00	1.9	E
3/2/2024 13:00	2.1	E
3/2/2024 14:00	4.5	E
3/2/2024 15:00	2.7	NE
3/2/2024 16:00	2.1	E
3/2/2024 17:00	1.2	W
3/2/2024 18:00	2.2	W
3/2/2024 19:00	1.6	S
3/2/2024 20:00	1.1	SW
3/2/2024 21:00	0.0	S
3/2/2024 22:00	1.6	SE
3/2/2024 23:00	1.7	W
3/2/2024 0:00	0.0	E
4/2/2024 1:00	0.0	NE
4/2/2024 2:00	1.9	E
4/2/2024 3:00	1.9	NE
4/2/2024 4:00	1.4	NE
4/2/2024 5:00	1.1	NE
4/2/2024 6:00	2.3	NE
4/2/2024 7:00	2.0	E
4/2/2024 8:00	2.3	Ν

Date	Wind Speed (m/s)	Wind Direction
4/2/2024 9:00	2.2	NE
4/2/2024 10:00	3.8	NE
4/2/2024 11:00	2.0	NE
4/2/2024 12:00	2.2	E
4/2/2024 13:00	1.4	N
4/2/2024 14:00	1.7	NE
4/2/2024 15:00	0.7	NE
4/2/2024 16:00	1.8	NE
4/2/2024 17:00	1.5	N
4/2/2024 18:00	2.0	E
4/2/2024 19:00	0.0	E
4/2/2024 20:00	0.2	E
4/2/2024 21:00	1.9	NE
4/2/2024 22:00	0.0	NE
4/2/2024 23:00	1.9	W
4/2/2024 0:00	1.7	NE
5/2/2024 1:00	0.6	NE
5/2/2024 2:00	1.7	N
5/2/2024 3:00	2.0	N
5/2/2024 4:00	0.0	E
5/2/2024 5:00	1.7	E
5/2/2024 6:00	1.5	E
5/2/2024 7:00	2.4	NE
5/2/2024 8:00	3.1	NE
5/2/2024 9:00	0.2	NW
5/2/2024 10:00	2.2	NE
5/2/2024 11:00	1.5	NW

Date	Wind Speed (m/s)	Wind Direction
5/2/2024 12:00	2.8	NE
5/2/2024 13:00	2.1	NW
5/2/2024 14:00	2.1	E
5/2/2024 15:00	1.8	NE
5/2/2024 16:00	2.0	NW
5/2/2024 17:00	1.5	N
5/2/2024 18:00	0.0	SE
5/2/2024 19:00	2.1	NW
5/2/2024 20:00	2.2	W
5/2/2024 21:00	0.3	W
5/2/2024 22:00	0.0	SE
5/2/2024 23:00	0.2	NE
5/2/2024 0:00	0.3	NE
6/2/2024 1:00	0.0	NE
6/2/2024 2:00	2.1	E
6/2/2024 3:00	3.5	NE
6/2/2024 4:00	1.9	NE
6/2/2024 5:00	3.5	E
6/2/2024 6:00	2.8	SW
6/2/2024 7:00	2.1	S
6/2/2024 8:00	3.5	NW
6/2/2024 9:00	1.4	N
6/2/2024 10:00	1.7	NE
6/2/2024 11:00	2.2	E
6/2/2024 12:00	2.0	E
6/2/2024 13:00	3.4	SE
6/2/2024 14:00	1.9	NE

Date	Wind Speed (m/s)	Wind Direction
6/2/2024 15:00	3.7	NE
6/2/2024 16:00	1.4	S
6/2/2024 17:00	3.6	SE
6/2/2024 18:00	1.9	SE
6/2/2024 19:00	2.1	NE
6/2/2024 20:00	0.9	NE
6/2/2024 21:00	2.2	SE
6/2/2024 22:00	1.9	E
6/2/2024 23:00	3.0	NE
6/2/2024 0:00	2.0	NE
7/2/2024 1:00	1.7	NE
7/2/2024 2:00	2.2	NE
7/2/2024 3:00	1.0	SW
7/2/2024 4:00	1.7	E
7/2/2024 5:00	1.4	NE
7/2/2024 6:00	2.1	E
7/2/2024 7:00	1.4	NW
7/2/2024 8:00	2.9	NW
7/2/2024 9:00	3.2	W
7/2/2024 10:00	2.6	N
7/2/2024 11:00	3.7	NW
7/2/2024 12:00	4.8	NW
7/2/2024 13:00	4.6	NW
7/2/2024 14:00	1.5	NW
7/2/2024 15:00	1.9	NW
7/2/2024 16:00	1.8	NW
7/2/2024 17:00	3.8	NE

Date	Wind Speed (m/s)	Wind Direction
7/2/2024 18:00	2.2	NE
7/2/2024 19:00	4.0	E
7/2/2024 20:00	2.2	E
7/2/2024 21:00	2.8	N
7/2/2024 22:00	1.8	SE
7/2/2024 23:00	3.1	NE
7/2/2024 0:00	1.7	NE
8/2/2024 1:00	2.2	E
8/2/2024 2:00	3.2	E
8/2/2024 3:00	4.6	E
8/2/2024 4:00	3.5	E
8/2/2024 5:00	3.0	NE
8/2/2024 6:00	0.7	SW
8/2/2024 7:00	4.1	E
8/2/2024 8:00	4.8	NE
8/2/2024 9:00	3.6	E
8/2/2024 10:00	1.7	E
8/2/2024 11:00	3.9	E
8/2/2024 12:00	2.0	E
8/2/2024 13:00	4.1	NE
8/2/2024 14:00	0.2	NW
8/2/2024 15:00	3.9	NE
8/2/2024 16:00	3.9	N
8/2/2024 17:00	3.1	NE
8/2/2024 18:00	3.4	N
8/2/2024 19:00	1.7	S
8/2/2024 20:00	5.0	E

Date	Wind Speed (m/s)	Wind Direction
8/2/2024 21:00	3.5	N
8/2/2024 22:00	2.5	E
8/2/2024 23:00	2.1	E
8/2/2024 0:00	3.5	E
9/2/2024 1:00	3.3	NE
9/2/2024 2:00	3.1	E
9/2/2024 3:00	2.4	E
9/2/2024 4:00	4.7	E
9/2/2024 5:00	4.3	NE
9/2/2024 6:00	2.3	NE
9/2/2024 7:00	3.4	E
9/2/2024 8:00	4.2	E
9/2/2024 9:00	3.5	NE
9/2/2024 10:00	2.9	E
9/2/2024 11:00	3.9	NE
9/2/2024 12:00	2.1	NE
9/2/2024 13:00	1.9	E
9/2/2024 14:00	2.1	E
9/2/2024 15:00	3.4	W
9/2/2024 16:00	3.8	NW
9/2/2024 17:00	2.1	Ν
9/2/2024 18:00	2.6	Ν
9/2/2024 19:00	2.4	NE
9/2/2024 20:00	2.1	NE
9/2/2024 21:00	0.0	W
9/2/2024 22:00	1.8	NE
9/2/2024 23:00	1.8	NW

Date	Wind Speed (m/s)	Wind Direction
9/2/2024 0:00	2.4	N
10/2/2024 1:00	2.7	NE
10/2/2024 2:00	2.2	E
10/2/2024 3:00	2.1	NE
10/2/2024 4:00	3.3	E
10/2/2024 5:00	3.8	E
10/2/2024 6:00	3.3	N
10/2/2024 7:00	1.8	E
10/2/2024 8:00	2.1	E
10/2/2024 9:00	2.2	E
10/2/2024 10:00	3.7	NE
10/2/2024 11:00	4.4	S
10/2/2024 12:00	2.6	NE
10/2/2024 13:00	3.2	E
10/2/2024 14:00	1.8	N
10/2/2024 15:00	3.5	W
10/2/2024 16:00	2.4	W
10/2/2024 17:00	2.8	SW
10/2/2024 18:00	0.7	SW
10/2/2024 19:00	0.3	SE
10/2/2024 20:00	0.0	S
10/2/2024 21:00	0.0	S
10/2/2024 22:00	0.0	S
10/2/2024 23:00	0.0	SE
10/2/2024 0:00	1.5	S
11/2/2024 1:00	0.0	SE
11/2/2024 2:00	0.0	SE

Date	Wind Speed (m/s)	Wind Direction
11/2/2024 3:00	0.0	SE
11/2/2024 4:00	1.2	S
11/2/2024 5:00	0.0	S
11/2/2024 6:00	0.0	SW
11/2/2024 7:00	0.0	E
11/2/2024 8:00	0.0	NE
11/2/2024 9:00	1.7	NE
11/2/2024 10:00	2.1	E
11/2/2024 11:00	2.7	N
11/2/2024 12:00	4.6	NE
11/2/2024 13:00	2.6	N
11/2/2024 14:00	3.9	E
11/2/2024 15:00	2.9	NE
11/2/2024 16:00	0.9	S
11/2/2024 17:00	1.4	W
11/2/2024 18:00	1.9	E
11/2/2024 19:00	1.9	E
11/2/2024 20:00	0.0	SE
11/2/2024 21:00	0.0	NW
11/2/2024 22:00	0.0	NW
11/2/2024 23:00	1.3	NW
11/2/2024 0:00	0.0	SE
12/2/2024 1:00	2.1	NE
12/2/2024 2:00	0.0	W
12/2/2024 3:00	0.0	E
12/2/2024 4:00	2.2	N
12/2/2024 5:00	2.0	NE

Date	Wind Speed (m/s)	Wind Direction
12/2/2024 6:00	3.5	NE
12/2/2024 7:00	2.1	E
12/2/2024 8:00	6.9	N
12/2/2024 9:00	2.8	SE
12/2/2024 10:00	5.0	NE
12/2/2024 11:00	4.0	E
12/2/2024 12:00	8.6	E
12/2/2024 13:00	2.1	S
12/2/2024 14:00	4.4	NE
12/2/2024 15:00	2.9	E
12/2/2024 16:00	4.1	E
12/2/2024 17:00	2.0	E
12/2/2024 18:00	1.5	N
12/2/2024 19:00	0.0	E
12/2/2024 20:00	0.0	NW
12/2/2024 21:00	0.0	NE
12/2/2024 22:00	0.0	SE
12/2/2024 23:00	0.0	W
12/2/2024 0:00	1.8	NE
13/2/2024 1:00	0.0	S
13/2/2024 2:00	1.6	E
13/2/2024 3:00	0.0	NE
13/2/2024 4:00	0.0	N
13/2/2024 5:00	0.0	NE
13/2/2024 6:00	0.0	E
13/2/2024 7:00	0.0	NE
13/2/2024 8:00	0.9	E

Date	Wind Speed (m/s)	Wind Direction
13/2/2024 9:00	3.1	S
13/2/2024 10:00	3.8	NE
13/2/2024 11:00	2.0	E
13/2/2024 12:00	3.1	NE
13/2/2024 13:00	3.6	E
13/2/2024 14:00	2.1	SE
13/2/2024 15:00	1.7	E
13/2/2024 16:00	2.1	E
13/2/2024 17:00	1.9	N
13/2/2024 18:00	1.6	S
13/2/2024 19:00	0.3	S
13/2/2024 20:00	0.0	N
13/2/2024 21:00	0.0	N
13/2/2024 22:00	0.0	SW
13/2/2024 23:00	0.0	W
13/2/2024 0:00	0.0	NE
14/2/2024 1:00	0.0	S
14/2/2024 2:00	0.0	E
14/2/2024 3:00	0.0	NE
14/2/2024 4:00	0.0	E
14/2/2024 5:00	0.0	E
14/2/2024 6:00	0.0	SE
14/2/2024 7:00	1.0	SE
14/2/2024 8:00	0.0	SE
14/2/2024 9:00	2.1	E
14/2/2024 10:00	0.0	NW
14/2/2024 11:00	2.0	NE

Date	Wind Speed (m/s)	Wind Direction
14/2/2024 12:00	0.5	SE
14/2/2024 13:00	1.9	W
14/2/2024 14:00	1.8	NW
14/2/2024 15:00	3.1	NW
14/2/2024 16:00	2.1	NW
14/2/2024 17:00	2.0	NW
14/2/2024 18:00	1.6	SE
14/2/2024 19:00	0.2	SE
14/2/2024 20:00	0.0	E
14/2/2024 21:00	1.2	NE
14/2/2024 22:00	0.0	E
14/2/2024 23:00	0.7	NE
14/2/2024 0:00	0.0	SE
15/2/2024 1:00	0.2	NE
15/2/2024 2:00	1.7	NW
15/2/2024 3:00	0.0	E
15/2/2024 4:00	0.0	SW
15/2/2024 5:00	0.0	E
15/2/2024 6:00	0.0	SE
15/2/2024 7:00	0.0	N
15/2/2024 8:00	0.0	E
15/2/2024 9:00	1.8	E
15/2/2024 10:00	0.0	NE
15/2/2024 11:00	0.4	N
15/2/2024 12:00	2.7	NW
15/2/2024 13:00	4.6	N
15/2/2024 14:00	2.1	NW

Date	Wind Speed (m/s)	Wind Direction
15/2/2024 15:00	6.0	NW
15/2/2024 16:00	4.9	W
15/2/2024 17:00	3.8	NW
15/2/2024 18:00	2.3	W
15/2/2024 19:00	0.4	SW
15/2/2024 20:00	1.0	S
15/2/2024 21:00	0.0	S
15/2/2024 22:00	8.8	S
15/2/2024 23:00	0.0	SE
15/2/2024 0:00	1.3	S
16/2/2024 1:00	0.0	S
16/2/2024 2:00	0.0	S
16/2/2024 3:00	0.0	NE
16/2/2024 4:00	1.1	S
16/2/2024 5:00	0.3	S
16/2/2024 6:00	0.0	S
16/2/2024 7:00	0.0	S
16/2/2024 8:00	0.4	E
16/2/2024 9:00	2.7	NE
16/2/2024 10:00	2.9	NE
16/2/2024 11:00	4.6	NE
16/2/2024 12:00	1.6	NW
16/2/2024 13:00	3.0	E
16/2/2024 14:00	2.2	SE
16/2/2024 15:00	3.2	NE
16/2/2024 16:00	2.7	E
16/2/2024 17:00	2.1	E

Date	Wind Speed (m/s)	Wind Direction
16/2/2024 18:00	2.3	S
16/2/2024 19:00	2.2	S
16/2/2024 20:00	3.8	SE
16/2/2024 21:00	0.5	N
16/2/2024 22:00	2.0	SE
16/2/2024 23:00	0.0	SE
16/2/2024 0:00	0.0	S
17/2/2024 1:00	1.9	E
17/2/2024 2:00	0.0	SE
17/2/2024 3:00	2.5	NE
17/2/2024 4:00	2.0	SW
17/2/2024 5:00	2.1	NE
17/2/2024 6:00	1.1	E
17/2/2024 7:00	1.7	N
17/2/2024 8:00	0.0	NE
17/2/2024 9:00	2.1	NE
17/2/2024 10:00	3.0	NE
17/2/2024 11:00	2.2	N
17/2/2024 12:00	2.9	S
17/2/2024 13:00	1.7	N
17/2/2024 14:00	1.1	E
17/2/2024 15:00	3.4	SE
17/2/2024 16:00	4.0	E
17/2/2024 17:00	2.1	E
17/2/2024 18:00	0.0	S
17/2/2024 19:00	2.6	S
17/2/2024 20:00	0.0	E

Date	Wind Speed (m/s)	Wind Direction
17/2/2024 21:00	1.7	E
17/2/2024 22:00	2.2	E
17/2/2024 23:00	0.1	NE
17/2/2024 0:00	0.0	W
18/2/2024 1:00	0.0	N
18/2/2024 2:00	0.0	S
18/2/2024 3:00	0.0	NE
18/2/2024 4:00	0.0	NE
18/2/2024 5:00	0.3	S
18/2/2024 6:00	1.8	W
18/2/2024 7:00	0.0	W
18/2/2024 8:00	1.2	SE
18/2/2024 9:00	1.4	Ν
18/2/2024 10:00	1.3	W
18/2/2024 11:00	2.0	SE
18/2/2024 12:00	2.5	SW
18/2/2024 13:00	0.2	N
18/2/2024 14:00	1.8	NE
18/2/2024 15:00	1.3	NW
18/2/2024 16:00	1.4	NE
18/2/2024 17:00	1.7	NE
18/2/2024 18:00	2.1	S
18/2/2024 19:00	2.0	NE
18/2/2024 20:00	0.0	S
18/2/2024 21:00	0.0	SE
18/2/2024 22:00	0.0	E
18/2/2024 23:00	1.8	SE

Date	Wind Speed (m/s)	Wind Direction
18/2/2024 0:00	0.0	S
19/2/2024 1:00	2.2	NW
19/2/2024 2:00	0.0	NE
19/2/2024 3:00	0.0	NE
19/2/2024 4:00	0.0	E
19/2/2024 5:00	0.0	SW
19/2/2024 6:00	0.1	E
19/2/2024 7:00	0.2	SW
19/2/2024 8:00	1.3	E
19/2/2024 9:00	0.3	S
19/2/2024 10:00	1.4	SE
19/2/2024 11:00	1.3	W
19/2/2024 12:00	0.3	SW
19/2/2024 13:00	2.6	SE
19/2/2024 14:00	3.0	SW
19/2/2024 15:00	2.2	W
19/2/2024 16:00	2.1	SE
19/2/2024 17:00	2.0	SE
19/2/2024 18:00	1.2	S
19/2/2024 19:00	2.2	SE
19/2/2024 20:00	0.0	S
19/2/2024 21:00	1.8	SE
19/2/2024 22:00	0.2	E
19/2/2024 23:00	0.0	SW
19/2/2024 0:00	0.0	SW
20/2/2024 1:00	1.9	W
20/2/2024 2:00	0.0	S

Date	Wind Speed (m/s)	Wind Direction
20/2/2024 3:00	0.0	SW
20/2/2024 4:00	1.9	W
20/2/2024 5:00	0.6	N
20/2/2024 6:00	0.1	N
20/2/2024 7:00	0.0	SE
20/2/2024 8:00	0.0	W
20/2/2024 9:00	2.1	NE
20/2/2024 10:00	1.4	W
20/2/2024 11:00	2.7	W
20/2/2024 12:00	1.8	E
20/2/2024 13:00	1.7	SW
20/2/2024 14:00	3.6	W
20/2/2024 15:00	2.1	E
20/2/2024 16:00	2.1	W
20/2/2024 17:00	1.6	W
20/2/2024 18:00	2.7	NW
20/2/2024 19:00	1.4	S
20/2/2024 20:00	2.2	SE
20/2/2024 21:00	2.5	S
20/2/2024 22:00	1.6	SE
20/2/2024 23:00	1.9	SE
20/2/2024 0:00	2.5	SE
21/2/2024 1:00	1.4	S
21/2/2024 2:00	0.6	S
21/2/2024 3:00	1.1	SE
21/2/2024 4:00	0.8	S
21/2/2024 5:00	0.3	S

Date	Wind Speed (m/s)	Wind Direction
21/2/2024 6:00	0.1	S
21/2/2024 7:00	0.8	S
21/2/2024 8:00	1.3	SE
21/2/2024 9:00	2.1	SE
21/2/2024 10:00	1.8	SE
21/2/2024 11:00	2.2	SW
21/2/2024 12:00	3.1	SE
21/2/2024 13:00	3.3	SE
21/2/2024 14:00	3.3	S
21/2/2024 15:00	3.3	E
21/2/2024 16:00	1.5	S
21/2/2024 17:00	1.7	N
21/2/2024 18:00	1.2	S
21/2/2024 19:00	1.8	SW
21/2/2024 20:00	0.0	SW
21/2/2024 21:00	1.3	Ν
21/2/2024 22:00	0.0	N
21/2/2024 23:00	1.3	S
21/2/2024 0:00	0.8	SE
22/2/2024 1:00	0.0	SE
22/2/2024 2:00	0.0	S
22/2/2024 3:00	1.4	SE
22/2/2024 4:00	1.3	SE
22/2/2024 5:00	1.2	E
22/2/2024 6:00	0.0	NE
22/2/2024 7:00	0.0	NE
22/2/2024 8:00	1.9	NE

Date	Wind Speed (m/s)	Wind Direction
22/2/2024 9:00	1.9	NE
22/2/2024 10:00	1.8	N
22/2/2024 11:00	1.8	NE
22/2/2024 12:00	2.0	S
22/2/2024 13:00	2.4	SW
22/2/2024 14:00	2.1	SW
22/2/2024 15:00	1.5	W
22/2/2024 16:00	2.0	S
22/2/2024 17:00	1.9	S
22/2/2024 18:00	1.7	W
22/2/2024 19:00	0.5	S
22/2/2024 20:00	0.6	S
22/2/2024 21:00	0.0	N
22/2/2024 22:00	1.9	N
22/2/2024 23:00	0.0	N
22/2/2024 0:00	0.8	N
23/2/2024 1:00	2.2	W
23/2/2024 2:00	2.1	NW
23/2/2024 3:00	2.5	N
23/2/2024 4:00	0.0	W
23/2/2024 5:00	1.2	SE
23/2/2024 6:00	3.8	NE
23/2/2024 7:00	2.2	E
23/2/2024 8:00	1.4	E
23/2/2024 9:00	3.1	NE
23/2/2024 10:00	4.9	E
23/2/2024 11:00	4.5	N

Date	Wind Speed (m/s)	Wind Direction
23/2/2024 12:00	3.3	NE
23/2/2024 13:00	3.6	NE
23/2/2024 14:00	3.6	NE
23/2/2024 15:00	3.0	E
23/2/2024 16:00	3.7	SE
23/2/2024 17:00	1.9	E
23/2/2024 18:00	2.0	E
23/2/2024 19:00	0.3	S
23/2/2024 20:00	0.2	N
23/2/2024 21:00	1.9	NE
23/2/2024 22:00	3.3	NE
23/2/2024 23:00	2.0	N
23/2/2024 0:00	3.2	NE
24/2/2024 1:00	2.8	E
24/2/2024 2:00	2.2	NE
24/2/2024 3:00	1.9	NE
24/2/2024 4:00	2.3	E
24/2/2024 5:00	2.8	NE
24/2/2024 6:00	2.1	NE
24/2/2024 7:00	3.6	SE
24/2/2024 8:00	3.8	N
24/2/2024 9:00	2.2	NE
24/2/2024 10:00	3.3	E
24/2/2024 11:00	2.1	NE
24/2/2024 12:00	3.1	E
24/2/2024 13:00	3.5	SE
24/2/2024 14:00	2.2	Ν

Date	Wind Speed (m/s)	Wind Direction
24/2/2024 15:00	3.2	E
24/2/2024 16:00	3.3	SE
24/2/2024 17:00	3.2	N
24/2/2024 18:00	2.2	N
24/2/2024 19:00	2.8	N
24/2/2024 20:00	1.0	SE
24/2/2024 21:00	2.2	NE
24/2/2024 22:00	2.8	NE
24/2/2024 23:00	1.1	S
24/2/2024 0:00	2.7	N
25/2/2024 1:00	2.0	E
25/2/2024 2:00	4.0	E
25/2/2024 3:00	2.0	NE
25/2/2024 4:00	2.6	N
25/2/2024 5:00	2.2	Ν
25/2/2024 6:00	3.1	NE
25/2/2024 7:00	2.5	N
25/2/2024 8:00	2.0	NE
25/2/2024 9:00	0.3	W
25/2/2024 10:00	2.1	E
25/2/2024 11:00	2.2	NE
25/2/2024 12:00	2.2	NE
25/2/2024 13:00	3.3	E
25/2/2024 14:00	2.2	NE
25/2/2024 15:00	3.1	NW
25/2/2024 16:00	1.7	Ν
25/2/2024 17:00	2.7	N

Date	Wind Speed (m/s)	Wind Direction
25/2/2024 18:00	2.0	NE
25/2/2024 19:00	2.3	NE
25/2/2024 20:00	3.5	E
25/2/2024 21:00	1.0	N
25/2/2024 22:00	1.9	NE
25/2/2024 23:00	0.2	NE
26/2/2024 0:00	1.7	SE
26/2/2024 1:00	0.1	N
26/2/2024 2:00	1.8	NE
26/2/2024 3:00	2.2	NE
26/2/2024 4:00	1.9	SE
26/2/2024 5:00	4.4	SE
26/2/2024 6:00	3.9	E
26/2/2024 7:00	1.0	SW
26/2/2024 8:00	1.8	NE
26/2/2024 9:00	2.1	NE
26/2/2024 10:00	3.6	E
26/2/2024 11:00	3.8	N
26/2/2024 12:00	2.1	NE
26/2/2024 13:00	1.8	N
26/2/2024 14:00	0.8	W
26/2/2024 15:00	1.1	W
26/2/2024 16:00	6.9	W
26/2/2024 17:00	2.6	Ν
26/2/2024 18:00	2.2	W
26/2/2024 19:00	2.1	NW
26/2/2024 20:00	2.1	Ν

Date	Wind Speed (m/s)	Wind Direction
26/2/2024 21:00	2.8	W
26/2/2024 22:00	2.8	W
26/2/2024 23:00	3.9	NW
27/2/2024 0:00	4.9	N
27/2/2024 1:00	1.9	E
27/2/2024 2:00	4.4	N
27/2/2024 3:00	2.9	N
27/2/2024 4:00	3.5	E
27/2/2024 5:00	4.2	NE
27/2/2024 6:00	3.6	NE
27/2/2024 7:00	4.5	E
27/2/2024 8:00	4.1	NE
27/2/2024 9:00	3.6	E
27/2/2024 10:00	1.9	SE
27/2/2024 11:00	3.9	N
27/2/2024 12:00	3.4	NW
27/2/2024 13:00	2.3	NW
27/2/2024 14:00	1.7	NW
27/2/2024 15:00	4.6	NW
27/2/2024 16:00	4.6	NW
27/2/2024 17:00	2.7	SW
27/2/2024 18:00	2.3	W
27/2/2024 19:00	1.9	W
27/2/2024 20:00	2.0	NW
27/2/2024 21:00	1.9	N
27/2/2024 22:00	2.1	NW
27/2/2024 23:00	0.0	SW

Date	Wind Speed (m/s)	Wind Direction
28/2/2024 0:00	2.0	NW
28/2/2024 1:00	1.9	W
28/2/2024 2:00	1.9	W
28/2/2024 3:00	2.4	NW
28/2/2024 4:00	3.4	N
28/2/2024 5:00	0.0	S
28/2/2024 6:00	1.6	NW
28/2/2024 7:00	0.0	SE
28/2/2024 8:00	2.0	NE
28/2/2024 9:00	2.0	SE
28/2/2024 10:00	2.2	NE
28/2/2024 11:00	2.5	E
28/2/2024 12:00	2.0	NW
28/2/2024 13:00	3.1	NW
28/2/2024 14:00	3.5	W
28/2/2024 15:00	2.5	NW
28/2/2024 16:00	2.0	N
28/2/2024 17:00	1.9	NW
28/2/2024 18:00	2.3	NW
28/2/2024 19:00	3.4	W
28/2/2024 20:00	2.1	NW
28/2/2024 21:00	1.9	W
28/2/2024 22:00	0.0	W
28/2/2024 23:00	1.6	SW
29/2/2024 0:00	0.0	NW
29/2/2024 1:00	1.8	NW
29/2/2024 2:00	0.0	NW

Date	Wind Speed (m/s)	Wind Direction
29/2/2024 3:00	1.5	NW
29/2/2024 4:00	0.4	SE
29/2/2024 5:00	1.6	N
29/2/2024 6:00	2.0	W
29/2/2024 7:00	3.4	NW
29/2/2024 8:00	1.8	NW
29/2/2024 9:00	2.0	NW
29/2/2024 10:00	0.2	N
29/2/2024 11:00	2.9	NW
29/2/2024 12:00	3.7	W
29/2/2024 13:00	3.7	NW
29/2/2024 14:00	4.0	SW
29/2/2024 15:00	4.3	W
29/2/2024 16:00	2.2	E
29/2/2024 17:00	2.8	E
29/2/2024 18:00	2.2	NE
29/2/2024 19:00	5.0	NE
29/2/2024 20:00	2.0	SE
29/2/2024 21:00	4.0	E
29/2/2024 22:00	4.2	E
29/2/2024 23:00	2.8	SE
1/3/2024 0:00	1.1	Ν

Appendix H Event and Action Plan

Event and Action Plan for Air Quality (Construction Dust)

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

Event and Action Plan for Water Quality Monitoring

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

Event and Action Plan for Ecology Monitoring

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

Appendix I Waste Flow Table

Waste Flov	w Table for Year	2024									
		Actual Quantities of Inert C&D Materials Generated Monthly					Actual Quantities of Non-inert C&D Wastes Generated Monthly				
Monthly Ending	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
2024 Jan	11180.54	Nil	Nil	Nil	11103.51	Nil	Nil	0.17	Nil	Nil	76.86
2024 Feb	39611.72	Nil	Nil	Nil	39511.96	Nil	Nil	0.01	Nil	Nil	99.74
Total	50792.26	Nil	Nil	Nil	50615.47	Nil	Nil	0.18	Nil	Nil	176.60

Note:

The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
 Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.
 Disposal Records to Government facilities is updated till 21st January 2024.

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

Appendix J Implementation Status of Environmental Mitigation Measures

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

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

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

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

EIA Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Status
	Storage of Waste		
	Recommendations to minimise the impacts include:		
	• Waste, such as soil, should be handled and stored well to ensure secure containment, thus minimising the potential of pollution;		Implemented
6.6.1.7	Maintain and clean storage areas routinely;		Implemented
	• Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; and	Construction Sites	Implemented
	Different locations should be designated to stockpile each material to enhance reuse.		Implemented
	Collection of Waste Licensed waste haulers should be employed for the collection and transportation of waste generated. The following measures should be ended	nforced to minimise the potential ac	verse impacts:
	Remove waste in timely manner;		Implemented
	Waste collectors should only collect wastes prescribed by their permits;		Implemented
6.6.1.8	• Impacts during transportation, such as dust and odour, should be mitigated by the use of covered trucks or in enclosed containers;		Implemented
	Obtain relevant waste disposal permits from the appropriate authorities, in accordance with the WDO (Cap. 354), Waste Disposal (Charges for Disposal of Construction Waste) Regulation (Cap. 345) and the Land (Miscellaneous Provisions) Ordinance (Cap. 28);	Construction Sites	Implemented
	Waste should be disposed of at licensed waste disposal facilities; and		Implemented
	Maintain records of quantities of waste generated, recycled and disposed.		Implemented
	Transportation of Waste		
6.6.1.10	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
	Construction and Demolition Material		
6.6.1.12	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
	The excavated material arising from site formation and foundation works should be reused on-site as backfilling material and for lands requirements are listed below:	caping works as far as practicable	. Other mitigation
	A WMP, which becomes part of the EMP, should be prepared in accordance with ETWB TCW No.19/2005;		Implemented
6.6.1.13	• A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be adopted for easy tracking; and	Construction Sites	Implemented
	• In order to monitor the disposal of C&D materials at public filling facilities and landfills and to control fly-tipping, a trip-ticket system should be adopted (refer to DEVB TCW 06/2010).		Implemented

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

EIA Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Status
6.6.1.27	Suitable containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall employ a licensed collector to transport and dispose of the chemical wastes, to the licensed CWTC, or other licensed facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Construction and Operation Phases	Implemented
6.6.1.28	It is recommended to place clearly labelled recycling bins at designated locations with convenient access. Other general refuse should be separated from chemical and industrial waste by providing separated bins or skips for storage to maximise the recyclable volume. A reputable licensed waste collector should be employed to remove general refuse on a daily basis to minimise odour, pest and litter impacts.	Construction and Operation Phases	Implemented
6.6.1.29	Should buildings be found with potential ACM, sufficient and reasonable lead time shall be allowed for preparation, vetting and implementation of Asbestos Investigation Report and Asbestos Abatement Plan in accordance with Air Pollution Control Ordinance before commencement of any demolition or site clearance work.	Demolition	N/A
	Land Contamination		
7.8.1.2 - 7.8.1.3;7.8.2.1	Prior to the commencement of the SI works, a review of the Contamination Assessment Plan (CAP) should be conducted to confirm whether the proposed SI works (e.g. sampling locations, testing parameters etc.) are still valid. Supplementary CAP(s), presenting findings of the review, the latest site conditions and updated sampling strategy and testing protocol, should be submitted to EPD for endorsement. The SI works should be carried out according to EPD's agreed supplementary CAP(s).SI works should be carried out according to the supplementary CAP endorsed by EPD. Following completion of SI works and receipt of laboratory test results, Contamination Assessment Report(s) ((CAR)(s)) should be prepared to present the findings of the SI works and to discuss the presence, nature and extent of contamination. If contamination is identified, Remedial Action Plan(s) ((RAP)(s)) which provides details of the remedial actions for the identified contaminated soil and / or groundwater should be endorsed by EPD. The possible remediation methods are detailed in Section 5.2 of the CAP provided in Appendix 7.1 of the EIA Report, Remediation action, if necessary, will be carried out according to EPD endorsed RAP(s) and Remediation Report(s) (RR(s)) will be submitted after completion of the remediation action. The RR(s) should be endorsed by EPD prior to the commencement of construction works at the respective identified contaminated areas (if any).	Existing YLSTW /Construction Phase (after decommissioning of the concerned facilities / areas but prior to the construction works at the concerned facilities / areas)	Implemented
	The mitigation measures will be recommended in the RAP and would typically include the following:		·
	• Excavation profiles must be properly designed and executed with attention to the relevant requirements for environment, health and safety;		Implemented
	• Excavation shall be carried out during dry season as far as possible to minimise contaminated runoff from contaminated soils; Supply of suitable clean backfill material (or treated soil) after excavation;		N/A
7.8.3.1	• 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
7.8.3.1	• 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;	Project Site / Construction Phase	Implemented
	Speed control for the trucks carrying contaminated materials shall be enforced;		Implemented
	Vehicle wheel and body washing facilities at the site's exist points shall be established and used; and		Implemented
	• Pollution control measures for air emissions (e.g. from biopile blower and handling of cement), noise emissions (e.g. from blower or earthmoving equipment), and water discharges (e.g. runoff control from treatment facility) shall be implemented and complied with relevant regulations and guidelines.		Implemented

EIA Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Status
	Ecological Impact (Terrestrial and Aquatic) (Construction Phase)		
	Avoidance of Recognised Site of Conservation Importance		
8.10.2.1	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
	Avoidance of Demolition Works Using Breakers Mounted on Excavators and Percussive Piling during Dry Season		
8.10.2.3 – 8.10.2.4	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
	Restriction of Construction Hours		
8.10.2.5	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
	Minimising Construction Noise Disturbance Impacts through Consideration of Alternative Construction Methods		
8.10.3.2 – 8.10.3.3	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
	Minimising Construction Noise Disturbance Impacts through Use of Noise Barriers		
8.10.3.6 – 8.10.3.8	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	Construction sites / Construction Phase	Implemented
	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.		
	Use of Quality Powered Mechanical Equipment		
8.10.3.9	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		
	Preservation of Existing Vegetation (CM1) 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
	Transplanting of Affected Trees (CM2) 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
Table 10.11	Compensatory Tree Planting (CM3) 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
	Control of Night-time Lighting Glare (CM4) 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
	Erection of Decorative Screen Hoarding (CM5) Site hoardings, if any, shall be painted in dull green colour	Project site / Construction Phase	Implemented
	Management of Construction Activities and Facilities (CM6) 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)		·
	• 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;		N/A
11.5.6.9-	• 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;	Project site / Construction Phase	N/A
11.5.6.12	• 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	1 11450	N/A
	Physical barriers such as concrete blocks shall be set up at the 15m zone in order to avoid those construction plants or vehicles from colliding to the digester / gas holder units in use.		N/A

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

Note:

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

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

Appendix K Weather and Meteorological Conditions

January 2024 Weather

Station: Wetland Park

	Mean		Air Temperatur	e	Mean	Total
Date	Pressure	Maximum	Mean	Minimum	Relative Humidity	Rainfall
	(hPa)	(deg. C)	(deg. C)	(deg. C)	(%)	(mm)
			January 2024			
1	1019.5	28.4	21.8	18.4	74	0
2	1019	25.3	20.1	17.1	77	0
3	1020.3	25.6	19.8	14.7	68	0
4	1021.1	24.5	17.3	12.4	67	0
5	1020.2	26.1	19.3	14.5	81	0
6	1020.1	29.2	20.7	15.7	81	0
7	1020.8	26.8	21.1	17.4	76	0
8	1019.4	26.9	21.1	16.7	73	0
9	1017.1	28.6	22.4	17.6	78	0
10	1018.9	26.3	21.3	18	68	0
11	1020.1	25.3	19.9	16.7	67	0
12	1019	25.3	19.4	16.1	82	0
13	1019.9	25.7	20.2	16.6	65	0
14	1021	29.7	21	16.8	66	0
15	1021.1	30.4	21.7	15.6	73	0
16	1022	26.4	20.7	17.8	73	0
17	1020.5	23.9	20.3	16.5	76	0
18	1017.5	28.6	22.6	18.7	78	0
19	1016	29.7	21.9	17.2	83	0
20	1016.5	28.9	22.1	17.7	81	0
21	1020.9	23.4	19.3	14.7	65	0
22	1024.1	19.3	15.1	9.8	71	0
23	1029.6	11.3	8.2	6.3	78	4.5
24	1030	14.7	9.1	6.1	56	0
25	1029.2	18.6	12.7	9.1	52	0
26	1027.6	20.4	15.3	11.6	57	0
27	1026.3	20.1	15.8	12.9	65	0.5
28	1027	16.1	13.4	11.1	83	1.5
29	1023.7	20.9	16.5	13.2	80	0
30	1020.6	24	20	17.3	88	0
31	1019.1	24.9	21.9	19.4	90	0

Note (From Hong Kong Observatory):

1. # Data incomplete

2. Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected

Source: Hong Kong Observatory

February 2024 Weather

Station: Hong Kong Observatory

			Air Temperature		Mean Relative	Total Dainfall
Date	Mean Pressure (hPa)	Maximum (deg. C)	Mean (deg. C)	Minimum (deg. C)	Humidity (%)	Total Rainfall (mm)
			February 2024			
1	1018	23.9	21.1	19.8	92	0.2
2	1017.6	25.7	21.7	18.6	88	Trace
3	1018.8	22.5	19.6	17.7	85	Trace
4	1017.3	20.5	19.8	19.3	92	Trace
5	1018.8	21.7	20.4	19.6	86	Trace
6	1019.6	20.3	19.1	18	86	0.6
7	1017.3	18.4	16.8	14.7	90	Trace
8	1018.8	14.8	13	11.6	84	2.2
9	1023.5	14.2	12.7	11	77	0.6
10	1026.5	18.6	14.4	11.3	72	0.5
11	1026.9	22.8	17.4	13.6	60	0
12	1025.8	21.2	18.1	15.5	55	0
13	1023.2	22.8	19.2	16.8	71	0
14	1020.2	25.1	21	18.3	78	0
15	1019	26	22.3	19.7	70	0
16	1019.7	22	20.4	19.4	77	Trace
17	1017.4	21.2	19.5	17.8	82	Trace
18	1015.2	23.6	21.6	19.9	87	0
19	1015.1	25.1	22.7	21.1	88	0
20	1014.7	26	23.9	22	87	0
21	1014.5	27.8	24.5	22.5	82	0
22	1016.6	25.2	23.6	22.4	87	0
23	1019.9	22.9	20.4	19.3	85	Trace
24	1021.1	21.6	18.8	17.5	73	Trace
25	1020.7	19.2	17.1	15.6	71	0
26	1021.1	21.1	18.2	16.8	76	Trace
27	1020.9	19.5	17.6	15.9	73	Trace
28	1018	19.3	18.3	17.5	85	Trace
29	1017.6	22	18.7	16.2	85	Trace

Note (From Hong Kong Observatory):

Trace means rainfall less than 0.05 mm

Source: Hong Kong Observatory

Remark: The corresponding weather station at Wetland Park were unavailable at the time of preparation of this report. The corresponding month's weather will be provided in the next reporting month.

Appendix L 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

Appendix M Summary of the ET Leader's Site Environmental Audit in the Reporting Month

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

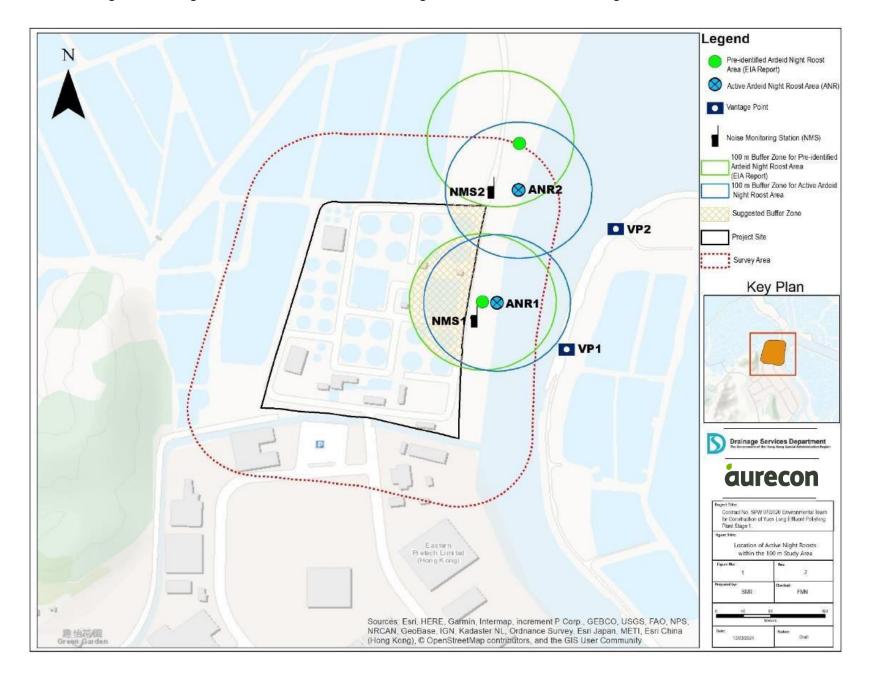
Summary of ET Leader's Site Environmental Audit in the Reporting Month

Appendix N Outstanding Issues and Deficiencies

Parameters	Outstanding Issues	Deficiencies
Air Quality	NA	Any items of deficiencies can be referred to Appendix M .
Noise	NA	
Water Quality	NA	
Chemical and Waste Management	NA	
Land Contamination	NA	
Landscape and Visual Impact	NA	
Permit / Licenses	NA	
Others	NA	

Summary of Outstanding Issues and Deficiencies in the Reporting Month

Appendix O Active Night Roost Monitoring Area and Vantage Points; and Noise Monitoring Stations



0.1 Map of the Monitoring Area, Vantage Points for Observation of Active Night Roosts and Noise Monitoring Stations

O.2 Survey Photos

O.2.1 Pre-roosting Aggregate

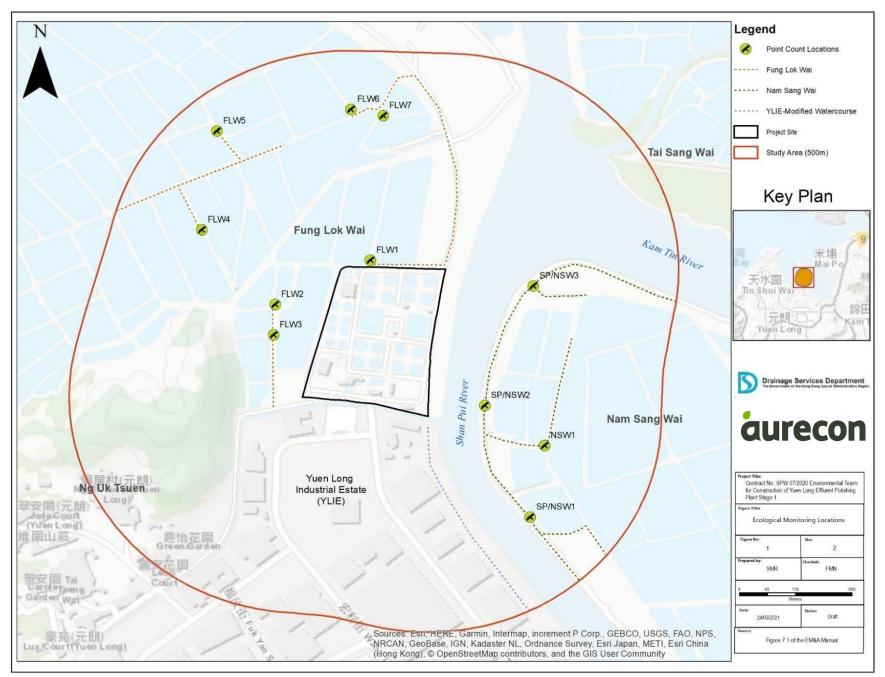


Appendix O.2.1a: Pre-roost aggregate of Chinese Pond Heron *Ardeola bacchus* and Little Egret *Egretta garzetta* in the mudflat northeast side of the Project boundary observed on 28 February 2024 around 17:50



Appendix O.2.2a: Active night roost on *Sonneratia apetala* and *S. caseolaris* mangrove roosting substrate in the mudflat northeast side of the Project boundary observed on 28 February 2024 around 18:26.

Appendix P Ecological Bird Monitoring Area with Locations of Point Count Sites and Transect Route



Appendix P: Ecological bird monitoring area with the locations of point count sites and transect routes

Prepared by:

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