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LIGHT PUBLIC HOUSING AT YAU POK ROAD, YUEN LONG

MONTHLY EM&A REPORT

FOR JULY 2025



RAMBOLL

LIGHT PUBLIC HOUSING AT YAU POK ROAD, YUEN LONG

MONTHLY EM&A REPORT FOR JULY 2025

Revision 1
Date **15/08/2025**

Prepared by **Theo Chan (Environmental Consultant)**

Certified by **Y H Hui (Environmental Team Leader)**

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18/08/2025

Mr. TSANG Xiang Han, Vincent
Housing Bureau
Secretary for Housing's Office
Special Duties Division
Dedicated Team on Light Public Housing
Vetting Unit and Administration Team

16/F, Revenue Tower
5 Gloucester Road, Wanchai,
Hong Kong

Dear Sir,

Light Public Housing at Yau Pok Road, Yuen Long
Independent Environmental Checker Consultancy Services
Verification of Environmental Monitoring and Audit (EM&A) Report (July 2025)

We refer to the captioned EM&A Report for July 2025, which was certified by Environmental Team Leader on 15 August 2025 *(Ref.: R9852_v1.0.doc)*.

Please note that we have no adverse comments on the captioned EM&A Report for July 2025. Therefore, the captioned EM&A Report for July 2025 is hereby verified in accordance with the requirement stipulated in Condition 3.5 of EP-629/2023 and Section 10.3 of the EM&A Manual submitted under Condition 3.1 of EP-629/2023. Noted that EP-629/2023 was surrendered on 13 January 2025 and replaced by FEP-01/629/2023.

Should you have any query, please feel free to contract the undersigned at 2186 7995 (chun-kwok.chan@egis-group.com).

Yours faithfully,

CHAN Chun Kwok
Independent Environmental Checker

cc.
ET Leader – Ramboll (Attn: Mr. Y H Hui) [By email: yhhui@ramboll.com]
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EXECUTIVE SUMMARY

i. This Monthly Environmental Monitoring and Audit (EM&A) Report is prepared for the project "Light Public Housing at Yau Pok Road, Yuen Long". Ramboll Hong Kong Limited has been appointed by the Contractor to undertake the Environmental Team (ET) services for the project and implement the EM&A programmes.

ii. As the project construction works was completed, a proposal for termination of construction phase EM&A programme was submitted in June 2025 to EPD for approval. The proposal was approved by EPD on 15 July 2025 (EPD's letter ref. (16) in Ax(1) to EP 2/N6/P/230). Accordingly, construction phase EM&A programme for the project was terminated on the same date.

iii. This Monthly EM&A Report summarises findings of the EM&A programme during the reporting period from 1 July 2025 to 31 July 2025. As informed by the Contractor, major activities in the reporting period were:

- Maintenance defect repair

Breaches of Action and Limit Levels

iv. No works related air quality exceedances were recorded in the reporting period.

v. No works related noise exceedances were recorded in the reporting period.

vi. No impact water quality monitoring were conducted in the reporting period.

Complaint Log

vii. No environmental complaints were received in the reporting period.

Notifications of any Summons and Successful Prosecutions

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

Reporting Change

ix. There were no reporting changes during the reporting period.

Future Key Issues

x. Nil.

1.0 INTRODUCTION

1.1 Background

1.1.1 The project site is bounded by Yau Pok Road to the east, Fairview Park to the west and north, farmland to the north-east, and Fairview Park Boulevard to the south, and is currently zoned Recreation under the Approved Mai Po and Fairview Park Outline Zoning Plan (OZP) No. S/YL-MP/6. The location of the project site is shown in **Figure 1**.

1.1.2 The Project is a Designated Project (DP) under Item P1, Part I of Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO), Cap. 499, "A residential or recreational development, other than New Territories exempted houses, within Deep Bay Buffer Zone 1 or 2". The Architectural Services Department as the Project Proponent has submitted a Project Profile (PP-652/2023) for direct application of environmental permit on 28 April 2023. Subsequently, the Director of Environmental Protection (DEP) has granted the Environmental Permit No. EP-629/2023 on 16 June 2023. The Environmental Permit was surrendered on 13 January 2025.

1.1.3 Ramboll Hong Kong Limited has been appointed as the Environmental Team (ET) to undertake the ET services for implementing the EM&A programmes for the project.

1.1.4 The main construction works commenced on 27 March 2024. This Monthly EM&A report summarises the key findings of the EM&A programme from 1 July 2025 to 31 July 2025 (reporting period) and is submitted to fulfil Condition 3.5 of the EP and Section 10.3 of the EM&A Manual submitted under Condition 3.1 of EP-629/2023.

1.1.5 This is the last monthly EM&A report for the project as EPD approved the proposal for termination of construction phase EM&A programme on 15 July 2025 (EPD's letter ref. (16) in Ax(1) to EP 2/N6/P/230).

1.2 Project Organisation

1.2.1 The project organisation structure with respect to the EM&A Programme is shown in **Figure 2**. The key personnel's contact name and phone numbers are listed in **Table 1**.

Table 1 Contact Information of Key Personnel

Party	Role	Post	Name	Telephone
Housing Bureau (HB)	Permit Holder	Project Manager (Light Public Housing) Special Duties 1	Mr. Vincent Tsang	3595 3877
Architectural Services Department (ASD)	Permit Holder*	Project Manager	Ms. Mandy Lam	2154 3145
Ronald Lu & Partners (Hong Kong) Limited	Engineer's Representative	Project Engineer	Mr. Alfred Woo	3189 9337
Egis Engineering & Consulting Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. C K Chan	2186 7995
Ramboll Hong Kong Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Y H Hui	3465 2850
Chevalier – China Railway Joint Venture (CCRJV)	Contractor	Site Agent	Mr. Gary Hui	9659 4427
		Environmental Officer (EO)	Mr. Marcus Lai	4446 1882

* Prior to the surrendering on 13 January 2025.

1.3 Construction Programme and Works Undertaken

1.3.1 The construction programme is shown in **Appendix A**. Major activities and the corresponding mitigation measures in the reporting period are presented in **Table 2**.

Table 2 Mitigation Measures for the Related Construction Work

Major Activities	Mitigation Measures
- Defect Repair	N/A

1.3.2 It is anticipated that no further works would be conducted.

1.4 Status of Environmental Licences, Notification and Permits

1.4.1 A summary of the relevant permits, licenses and/or notifications on

environmental protection for this Contract is presented in **Table 3**.

Table 3 Environmental Licenses, Notification and Permits

Permit/ Notification/ License No.	Valid Period		Status
	From	To	
Environmental Permit (EP)			
EP-629/2023	16 Jun 2023	N/A	Surrendered on 13 Jan 2025
FER-01/629/2023	8 Jan 2025	N/A	Valid
Notification of Carrying out Notifiable Works under Air Pollution Control (Construction Dust) Regulation			
500374	29 Nov 2023	N/A	Valid
Billing Account for Disposal of Construction Waste			
7049452	13 Dec 2023	N/A	Valid
Construction Noise Permit			
GW-RN0853-24	24 Jul 2024	23 Nov 2024	Replaced by GW-RN1371-24
GW-RN1371-24	24 Nov 2024	23 Mar 2025	Expired
Chemical Waste Producer Registration			
5213-541-C4921-01	21 Dec 2023	N/A	Valid
Wastewater Discharge License			
WT10002483-2023	15 Apr 2024	14 Apr 2029	Valid

2.0 AIR QUALITY

2.1 Monitoring Requirement

2.1.1 In accordance with the EM&A manual, 1-hour (1-hr) Total Suspended Particulates (TSP) levels were measured at the designated air quality monitoring stations to monitor the potential impacts of construction dust on air quality. For construction phase impact monitoring of 1-hr TSP, a sampling frequency of at least three times every 6 days shall be undertaken when the highest dust impacts are anticipated to occur based on the nature of the construction works.

2.2 Monitoring Equipment

2.2.1 Portable direct reading dust meters were used to carry out the 1-hr TSP monitoring at the designated monitoring stations. The 1-hr TSP sampling was determined by High Volume Sampler to check the validity and accuracy of the result measured by direct reading method.

2.2.2 The details of the air quality monitoring equipment used are listed in **Table 4** below.

Table 4 Air Quality Monitoring Equipment

Item	Brand	Model	Equipment	Serial No.
1	TSI	SidePak AM520	Portable direct reading dust meter	5201750012
2	TSI	SidePak AM520	Portable direct reading dust meter	5201750007
3	TSI	SidePak AM520	Portable direct reading dust meter	5201750006
4*	TISCH	TE-5170	High Volume Sampler	1260
5*	TISCH	TE-5025A	Calibration Kit	4064

* For comparison with the portable dust meter.

2.3 Monitoring Location

2.3.1 In accordance with the EM&A Manual, five air quality monitoring locations, namely AM1 to AM5 were designated (**Table 5**) and the location of the air monitoring stations are shown in **Figure 3**.

Table 5 Air Quality Monitoring Station

Station ID	ASR ID#	Location	Location of Measurement
AM1	A04	Fairview Park	Ground Level
AM2	A01	Fairview Park	Ground Level
AM3	A05A, A05B	Fairview Park	Ground Level
AM4	A06, A28	Fairview Park	Ground Level
AM5	A16A	Fairview Park	Ground Level

#The ASR IDs are referring to Table 4.3 of the Project Profile (PP-652/2023)

2.4 Monitoring Methodology

2.4.1 The monitoring procedure for air quality monitoring using portable meter method, in accordance with the manufacturer's instruction, shall be as below:

1. Press the "PAGE" key to switch on the equipment.
2. Press "UP" or "DOWN" key to select "Data Log" mode.
3. Press "UP" or "DOWN" key to select "Run Manual" mode.
4. Press the "Start/Stop" to start sampling. Light beep sound indicates the sampling in operation.
5. Place the zero cap to allow zero check sampling for 60 seconds. Proceed to next step if reading drops to zero, otherwise conduct zero calibration as per the equipment operation manual and repeat this step.
6. Press "Start/Stop" key to stop the zero-check sampling. Remove the zero cap.
7. Press the "Start/Stop" to start sampling. Record the start time of sampling and allow for sampling for 1 hour.
8. Press "Start/Stop" key to stop the sampling event after 1 hour.
9. Repeat steps 7-8 for the next sampling event.

Maintenance and Calibration

2.4.2 The portable direct reading dust meters would be checked before every monitoring event and calibrated annually. Calibration certificates of the portable meter direct dust meters are presented in **Appendix C**.

Weather condition

2.4.3 The weather conditions, including wind data and direction during the monitoring period were collected from the nearest weather station established by the Hong

Kong Observatory, the Hong Kong Wetland Park Station, and are provided in **Appendix F**.

Monitoring Schedule

2.4.4 The impact air quality monitoring was conducted at the designated monitoring station as scheduled. The schedule of air quality monitoring in reporting period is provided in **Appendix D**.

2.5 Monitoring Results

2.5.1 The impact air quality monitoring was conducted at the designated monitoring station as scheduled but terminated on 11 July 2025 with EPD's approval to terminate the construction phase EM&A programme on 15 July 2025.

2.5.2 No works related Action / Limit Level exceedances were recorded for 1-hr TSP at AM1 to AM5.

2.5.3 No adverse effects arose from the project related factors were noted during the reporting period.

2.5.4 The monitoring data of 1-hr TSP are summarized in **Table 6**. Detailed monitoring data are presented in **Appendix E**.

Table 6 Summary of Air Quality Monitoring Results

Station	Average (μg/ m^3)	Range (μg/ m^3)	Action Level (μg/ m^3)	Limit Level (μg/ m^3)
AM1	34	31 - 36	277	500
AM2	32	28 - 35	280	500
AM3	34	31 - 37	280	500
AM4	33	31 - 36	280	500
AM5	29	22 - 33	296	500

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

2.5.6 The Event and Action Plan for air quality is given in **Appendix G**.

3.0 NOISE

3.1 Monitoring Requirement

3.1.1 In accordance with the EM&A Manual, construction noise monitoring was conducted to monitor the construction noise arising from the construction activities. The regular monitoring frequency for each monitoring station shall be on a weekly basis and conducted between 0700 and 1900 on normal weekdays at the designated monitoring locations. As supplementary information for data auditing, statistical results such as L_{10} and L_{90} shall also be obtained for reference.

3.2 Monitoring Equipment

3.2.1 Sound level meters in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications were used for carrying out the noise monitoring. Immediately prior to and following each noise measurement, the accuracy of the sound level meter would be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. The details of the noise monitoring equipment used are listed in **Table 7** below.

Table 7 Noise Monitoring Equipment

Item	Brand	Model	Equipment	Serial No.
1	SVANTEK	SVAN 971	Sound Level Meter	87094
2	SCANTEK	SV35A	Sound Level Calibrator	64263

3.3 Monitoring Parameters, Frequency and Location

3.3.1 In accordance with the EM&A Manual, five noise quality monitoring stations, namely NM1 to NM5 was designated (**Table 8**) and the locations of the noise monitoring stations are shown in **Figure 3.** The details of the monitoring parameters described in **Table 9**.

Table 8 Noise Monitoring Station

Station ID	NSR ID#	Location	Location of Measurement
NM1	N1	Fairview Park	Ground Level*
NM2	N10	Bethel High School	Ground Level*
NM3	N4	Fairview Park	Ground Level*
NM4	N5	Fairview Park	Ground Level*
NM5	N20	Fairview Park	Ground Level*

*For Free Field measurement, +3dB(A) should be added to the measured results.
#The NSR IDs are referring to Table 4.4 of the Project Profile (PP-652/2023).

Table 9 Noise Monitoring Parameters, Frequency, and Duration

Station	Parameter	Frequency and Duration
NM1 to NM5	Leq $_{(30\ min)}$, (L_{10} and L_{90} will be recorded for reference)	At each station at 0700-1900 hours on normal weekdays at a frequency of once a week

3.4 Monitoring Methodology

3.4.1 The monitoring procedures are as follow:

- For free field measurement, the meter was positioned away from any nearby reflective surfaces and be at a position 1.2m above the ground. All records for free field noise levels were adjusted with a correction of +3 dB(A).
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
  - Frequency weighting:A
  - Time weighting: Fast
  - Measurement time: 5 minutes ($L_{eq\ (30\text{-}min)}$ would be determined for daytime noise by calculating the logarithmic average of six $L_{eq\ (5min)}$ data.)
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after recalibration 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.

- At the end of the monitoring period, the L_{eq}, L_{10} and L_{90} shall be recorded. In addition, site conditions and noise sources should be recorded on a standard record sheet.
- Noise monitoring would be cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. Supplementary monitoring would be conducted to ensure sufficient data is obtained.

Maintenance and Calibration

3.4.2 The sound level meter and calibrator should be calibrated annually by a HOKLAS laboratory. The calibration certificates are presented in **Appendix C**.

Monitoring Schedule

3.4.3 The noise monitoring was conducted at the designated monitoring stations as scheduled. The schedule of noise monitoring in the reporting period is provided in **Appendix D.**

3.5 Monitoring Results

3.5.1 The impact noise monitoring was conducted at the designated monitoring station as scheduled but terminated on 11 July 2025 with EPD's approval to terminate the construction phase EM&A programme on 15 July 2025.

3.5.2 No works related Action / Limit Level exceedances were recorded at NM1 to NM5.

3.5.3 No adverse effects that arose from the project related factors were noted during the reporting period.

3.5.4 The noise monitoring data are summarized in **Table 10**. Detailed monitoring data are presented in **Appendix E**.

Table 10 Summary of Noise Monitoring Results

Time Period	Station	Range* L_{eq} (30 min) dB(A)	Action Level	Limit Level dB(A)
0700-1900 hrs on normal weekdays	NM1	58 - 58	When one documented complaint is received	75
	NM2	57 - 58		70 / 65*
	NM3	57 - 59		75
	NM4	58 - 59		75
	NM5	52 - 54		75

* Free-field measurement for all stations (+3 dB(A) correction has been applied).
** Reduced to 65 dB(A) during school examination periods.

3.5.5 The Action and Limit Levels for noise impact monitoring have been set and are

presented in **Appendix B**.

3.5.6 The Event and Action Plan for noise is given in **Appendix G**.

4.0 WATER QUALITY

4.1 Monitoring Requirement

4.1.1 In accordance with the EM&A Manual, water quality monitoring at designated locations at the nearby inland water bodies are proposed to be carried out during the construction phase to monitor any sub-standard water discharge into the nearby water bodies from the site. Water quality monitoring is conducted for three days per week with sampling and measurement at the designated stations.

4.2 Monitoring Equipment

4.2.1 The details of the water quality monitoring equipment used is listed in **Table 11** below.

Table 11 Water Quality Monitoring Equipment

Model	Equipment	Serial Number
YSI ProDSS	Multi-Parameters (Dissolved Oxygen, Temperature, pH and Turbidity)	21K101469

4.2.2 Calibration certificates of the monitoring equipment are presented in **Appendix C**.

4.3 Monitoring Parameters, Frequency and Locations

4.3.1 Four designated water monitoring stations were proposed for monitoring during construction phase and the locations of the monitoring locations are shown in **Figure 3**. The details of the station are described in **Table 12** and **Table 13**.

Table 12 Water Quality Monitoring Stations

Station	Nature	Location	Coordinates	
			Easting	Northing
C1	Control	Fairview Park Nullah	837093	823201
W1	Impact		837506	823280
C3	Control	Ngau Tam Mei Drainage Channel	837779	823965
W3	Impact		837072	823299

Table 13 Water Quality Parameters and Monitoring Frequency

Station	Monitoring Parameters	Monitoring Frequency
C1 W1 C3 W3	- Temperature (°C); - pH; - Turbidity (NTU); - Water Depth (m); - Dissolved Oxygen (DO) (mg/L & % Saturation); and - Suspended Solids (SS) (mg/L).	3 days per week (36 hours interval was allowed between subsequent sets of measurement)

4.3.2 Water quality monitoring is conducted for three days per week The schedule of water quality monitoring in reporting period is provided in **Appendix D**.

4.4 Monitoring Methodology

Sampling Procedure

4.4.1 All in-situ monitoring instrument were checked and calibrated before use. DO meter and turbidimeter shall be calibrated by a HOKLAS accredited laboratory, and subsequently re-calibrated at 3 monthly intervals throughout all stages of the water quality monitoring.

Turbidity, DO, Temperature and pH

4.4.2 Wet bulb calibration for a DO meter shall be carried out before measurement at each monitoring location.

4.4.3 Place the entire probe into the water bodies and make sure all the probes are fully immersed during measurement.

Suspended Solids (SS)

4.4.4 The SS determination shall be carried in a HOKLAS accredited laboratory, and the testing method shall meet the technical specification listed in the table below, or the equivalent endorsed under the HOKLAS. The HOKLAS accredited laboratory shall has comprehensive quality assurance and quality control programmes, including conducting one duplicated sample analysis for every batch of 20 samples analysed.

4.4.5 Water samples were collected for the laboratory analysis of SS. The water samples for SS determination should be stored in high density polythene bottles with no preservative added, packed in ice (cooled to 4°C without being frozen) and keep in dark during both on-site temporary storage and shipment to the testing laboratory. The samples shall be delivered to the laboratory within 24 hours of collection and be analysed as soon as possible after collection.

4.4.6 The test method for SS determination is summarized in **Table 14** below.

Table 14 Laboratory Analysis for Suspended Solids (SS)

Parameter	Analytical Method	Limit of Reporting
Suspended Solids (SS)	In house method based on APHA 2540D; ALS Method Code: EA-025EA025	2 mg/L

4.5 Monitoring Results

4.5.1 With the submission of the proposal for termination of construction phase EM&A programme to EPD in June, the impact water quality monitoring also was completed in June 2025.

4.5.2 A 4-week post construction monitoring was commenced on 30 June. The post construction water quality monitoring was conducted at all designated monitoring stations in the reporting period. The detailed monitoring results would be provided in the Final EM&A Summary Report as per the EM&A Manual for the project.

4.5.3 The Event and Action Plan for water quality is given in **Appendix G**.

5.0 ECOLOGY

5.1 Monitoring Requirements

5.1.1 A number of mitigation measures will be implemented to minimize the potential impact to birds during construction phase. There will be no piling work and the Modular-In-Construction (MiC) method will be adopted. Ecological monitoring activities during the construction phase is a requirement under Condition 3.1 of the EP No. EP-629/2023. The ecological monitoring programme has been detailed in the EM&A Manual for the project prepared under the same EP condition. Ecology monitoring is a precautionary measure to verify the accuracy of impact assessment and detect any unpredictable impact arising from the proposed development, monthly monitoring of birds during the construction period is recommended.

5.2 Monitoring Methodology

5.2.1 Monitoring survey was conducted on 24 June 2025. Transect count method was used. The survey covered the sensitive habitats within 500m of the Project Site, with focus at the Ngau Tam Mei Drainage Channel (NTMDC) and the temporary ponds of Yau Mei Sun Tsuen (YMST) abutting the north-eastern boundary of the Project Site. Bird species and their abundance were recorded by habitat during the survey.

5.3 Monitoring Results

5.3.1 With the submission of the proposal for termination of construction phase EM&A programme to EPD in June, and EPD's approval on 15 July 2025, the ecological monitoring also was completed in June 2025.

6.0 WASTE MANAGEMENT

6.1 Monitoring Requirements

6.1.1 According to the EM&A Manual, it is the Contractor's responsibility to ensure that all wastes produced during the construction works for the project are handled, stored and disposed of in accordance with good waste management practices, EPD's regulations and requirements. An environmental management plan (EMP) should be prepared and submitted to the Supervisor for approval. The monitoring and auditing requirements of the EMP should be followed with regard to the management of C&D material. Site inspections would be undertaken by the ET at least once every week during the construction period.

6.2 Waste Management Status

6.2.1 Site audits were carried out on a weekly basis to monitor and audit to ensure that proper storage, transportation and disposal practices of waste materials generated during construction activities, such as C&D materials and general refuse are being implemented. The monthly summary of waste flow table is presented in **Appendix H**.

6.2.2 No outstanding issues were reported during the reporting period.

7.0 LANDSCAPE AND VISUAL

7.1 Audit Requirements

7.1.1 All measures undertaken by both the Contractor and the specialist Landscape Sub-Contractor during the construction phase and first year of the operational phase shall be audited by a Registered Landscape Architect or certified Arborist, as a member of the ET, on a regular basis to ensure compliance with the intended aims of the mitigation measures. The qualification of proposed Registered Landscape Architect or certified Arborist shall be submitted to the ER for approval and agreed with the IEC. Site inspections should be undertaken at least once every two weeks throughout the construction period and once every two months during the operational phase.

7.2 Results and Observations

7.2.1 Landscape and Visual Audit was undertaken bi-weekly and no outstanding issues were reported during the reporting period.

8.0 ENVIRONMENTAL AUDIT

8.1 Site Audits

8.1.1 Site audits should be carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.

8.1.2 In the reporting period, two site inspections with the Contractor were carried out on 7 and 15 July 2025.

8.1.3 No environmental issues were identified in the reporting period. Details of observations recorded during the site inspections are summarized in **Appendix J**.

8.2 Implementation Status of Environmental Mitigation Measures

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

9.0 ENVIRONMENTAL COMPLAINT AND NON-CONFORMANCE

9.1 Environmental Exceedance

9.1.1 No works related air quality exceedances were recorded in the reporting period.

9.1.2 No works related noise exceedances were recorded in the reporting period.

9.1.3 No works water quality impact monitoring was conducted in the reporting period.

9.2 Complaints, Notification of Summons and Prosecution

9.2.1 No environmental complaints, notifications of summons or successful prosecutions were received during the reporting period.

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

9.2.3 Cumulative statistic on complaints and successful prosecutions are summarized in **Table 20**.

Table 20 Cumulative Statistics on Complaints and Successful Prosecutions

Period	Complaints	Successful Prosecutions
July 2025	0	0
Total	4	0

10.0 FUTURE KEY ISSUES

10.1 Construction Programme

10.1.1 The construction programme is provided in **Appendix A**.

10.2 Key Issues for the Coming Month

10.2.1 There were no reporting changes during the reporting period.

10.2.2 Potential environmental impacts arising from the remaining construction activities are mainly associated with construction dust, noise, wastewater, water quality, ecology, landscape and visual impact issues.

10.3 Monitoring Schedules

10.3.1 With EPD's approval of the proposal for termination of construction phase EM&A programme on 15 July 2025, no further construction phase environmental monitoring is scheduled.

11.0 CONCLUSION AND RECOMMENDATIONS

11.1 Conclusion

11.1.1 The main construction works commenced on 27 March 2024. Accordingly, the construction phase EM&A programme for the Project also commenced on 27 March 2024.

11.1.2 No works related Action/Limit Level exceedances were recorded at the designate station for construction phase air quality monitoring carried out in the reporting period.

11.1.3 No works related Action/Limit Level exceedances were recorded at the designated station for construction noise monitoring carried out in the reporting period.

11.1.4 No impact monitoring for water quality was carried out in the reporting period.

11.1.5 The post construction water quality monitoring was conducted in the reporting period, and the results of the monitoring would be presented in the Final EM&A Summary Report.

11.1.6 In the reporting period, two environmental site audit and inspections were carried out. Recommendations on remedial actions were given to the Contractor for remediating the deficiencies identified during the site audit and inspections.

11.1.7 No ecological monitoring was conducted in the reporting period.

11.1.8 Audit and monitoring of the implementation of landscape and visual mitigation measures were conducted bi-weekly and no specific observations was identified.

11.1.9 No environmental complaints, notifications of summons or successful prosecutions, were received during the reporting period.

11.2 Recommendations

11.2.1 The recommended environmental mitigation measures, as proposed in the Project Profile and EM&A Manual have been effectively implemented to minimize the potential environmental impacts from the Project. The EM&A programme effectively monitored the environmental impacts generated from the construction activities and ensure the proper implementation of mitigation measures.

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

Air Quality Impact

- No specific observation was identified in the reporting period.

Construction Noise Impact

- No specific observation was identified in the reporting period.

Water Quality Impact

- No specific observation was identified in the reporting period.

Chemical and Waste Management

- No specific observation was identified in the reporting period.

Ecology

- No specific observation was identified in the reporting period.

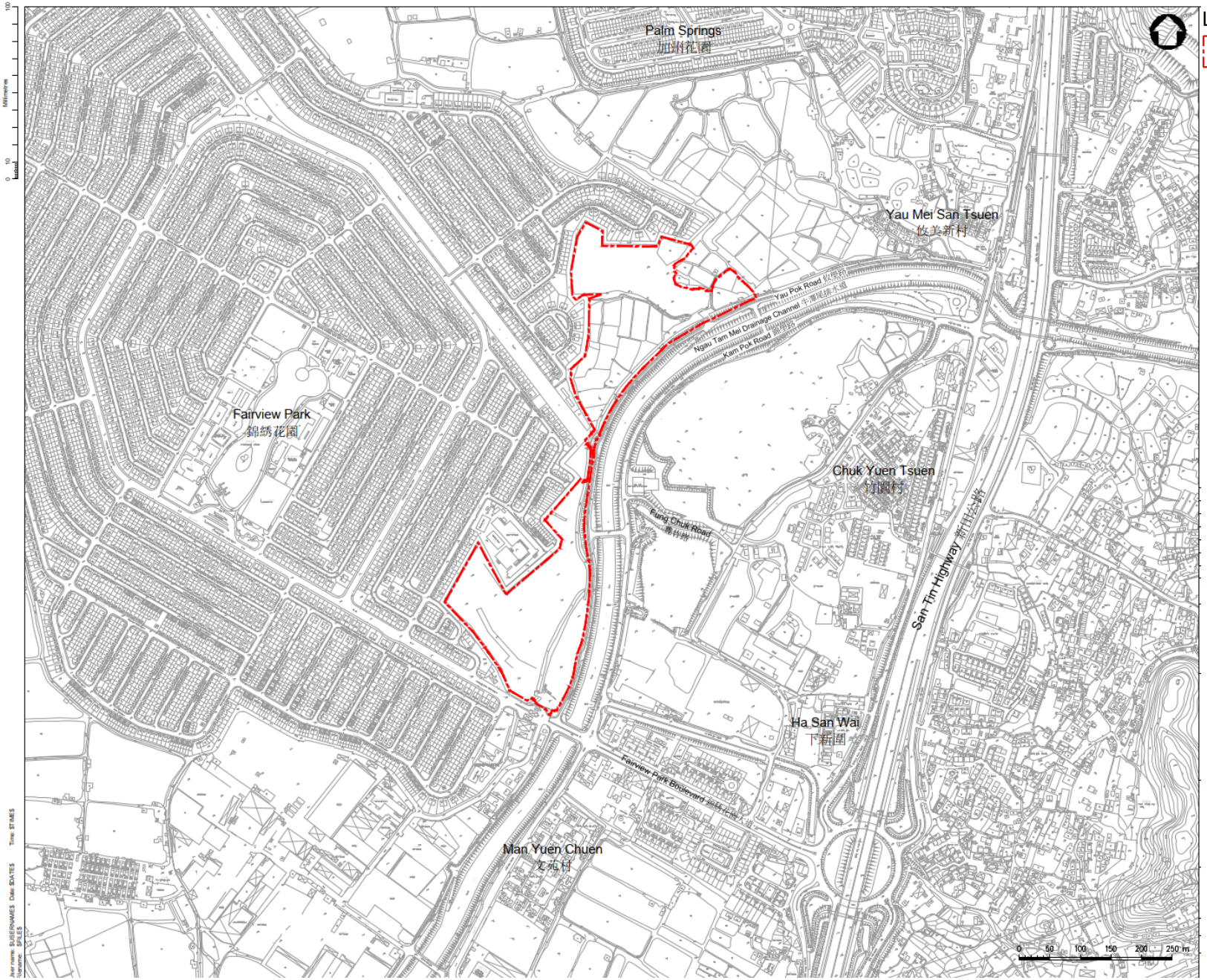
Landscape and Visual Impact

- No specific observation was identified in the reporting period.

Permit / License

- No specific observation was identified in the reporting period.

Figure 1 Location of the Project Site



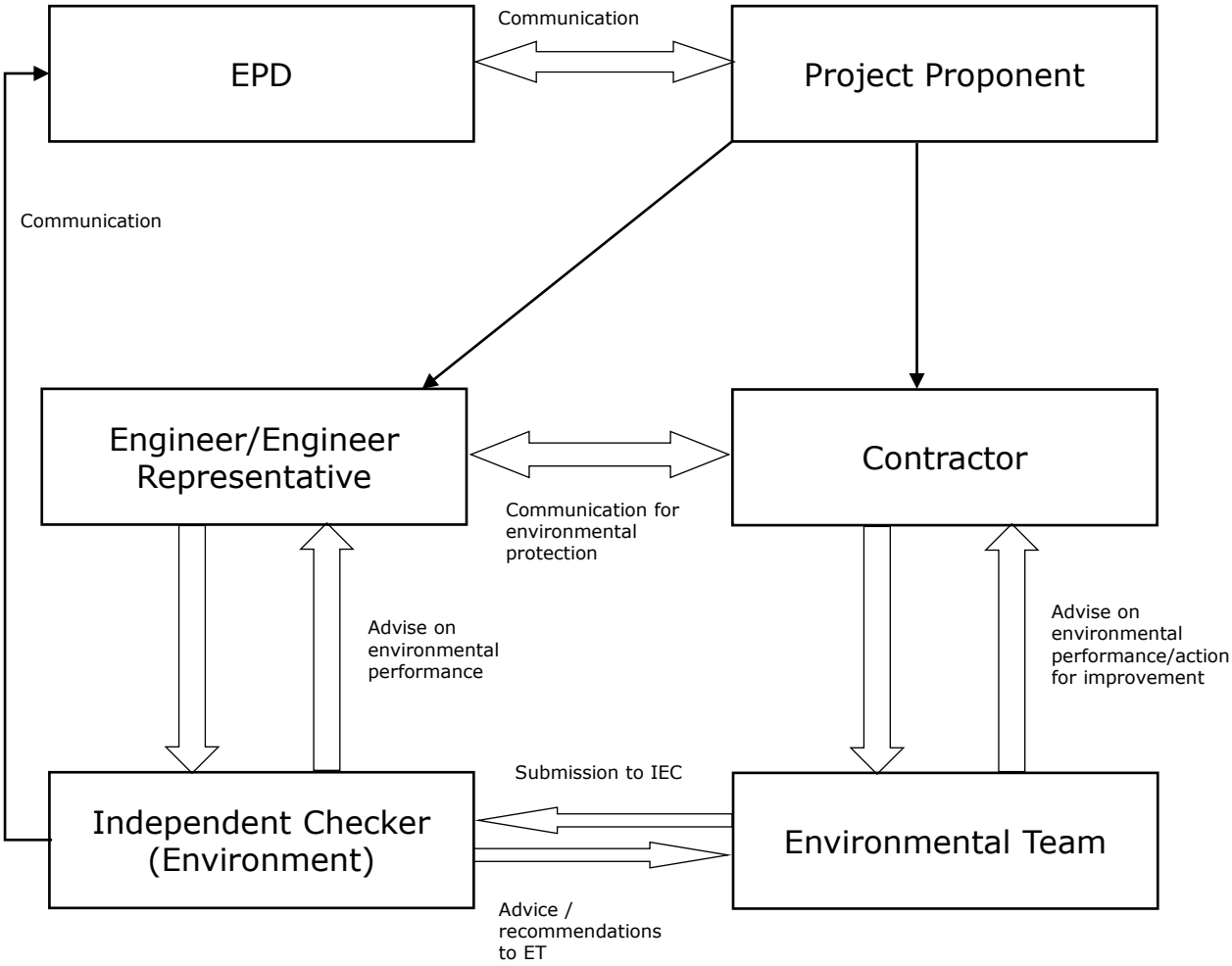
LEGEND 圖例:

PROJECT SITE 項目地點

RAMBOLL	Light Public Housing At Yau Pok Road, Yuen Long	Location of Project Site	Figure No.: 1
			Date: 5 Dec 2023 / Scale: As shown
			Drawn: MW / Check: YH

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Figure 2 Typical Construction Phase Environmental Monitoring and Audit Procedure



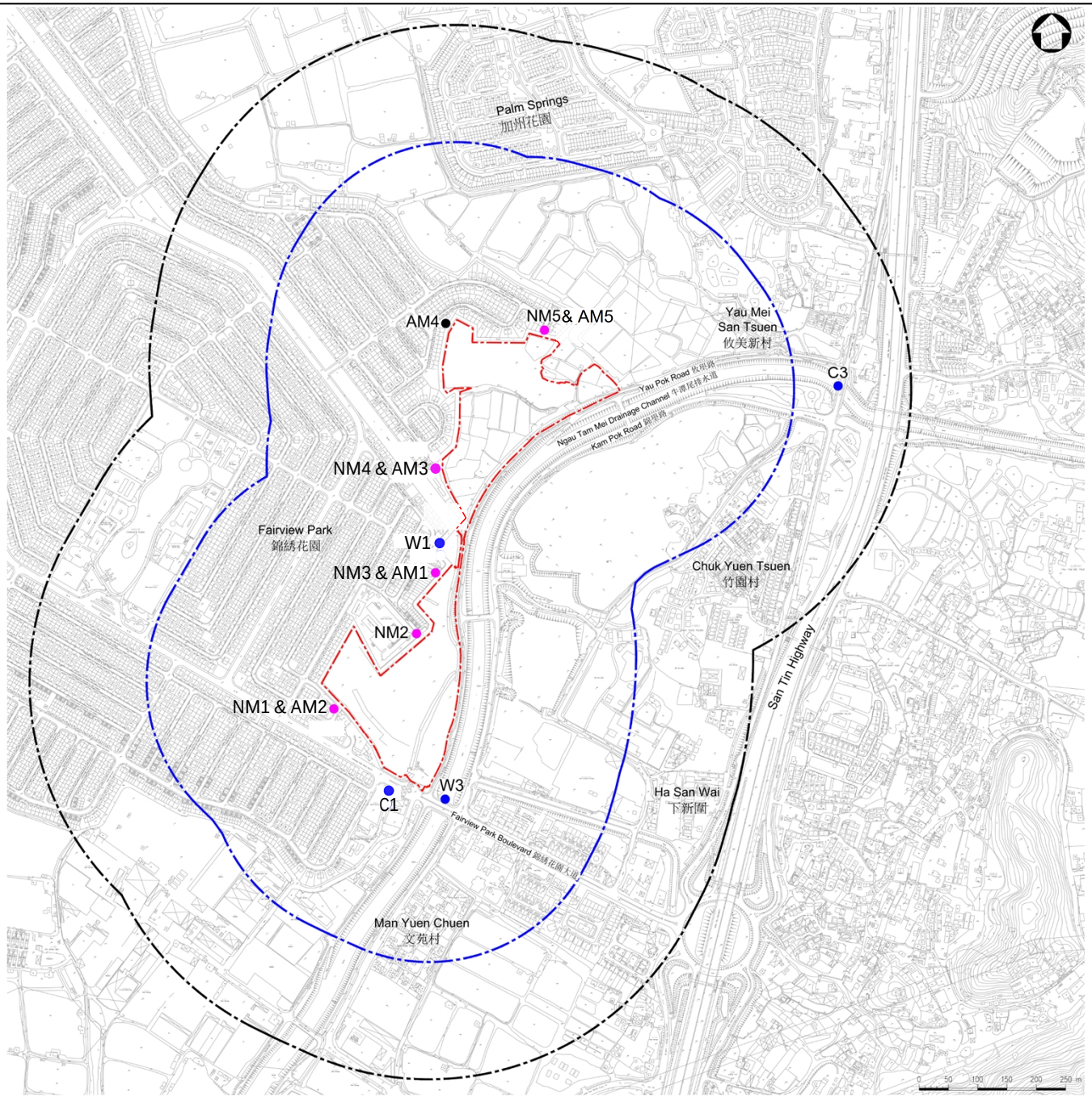
Notes:
Please refer to the EM&A Manual for duties and responsibilities of each party.

Submission from ET to IEC:
•Implementation status proforma on mitigation action;
•Proactive environmental protection proforma for construction method alternative;
•Regulatory compliance proforma listing licenses/permit compliance;
•Site inspection proforma;
•Complaint report;
•EM&A report for endorsement;
•Effectiveness of EIA recommendations.

Advice / Recommendations from IEC to ET:
•Advise on environmental performance
•Return/sign off audit proformas
•Environmental concerns recommendations on construction methods

	RAMBOLL	Light Public Housing at Yau Pok Road, Yuen Long	Typical Construction Phase Environmental Monitoring and Audit Procedures	Figure No.: 2
				Date: Aug 2024 / Scale: N/A
				Drawn : MW / Check: YH

Figure 3 Locations of Air Quality, Noise and Water Quality Monitoring Stations



LEGEND 圖例:

- PROJECT SITE 項目地點
- 500m ASSESSMENT AREA FOR AIR QUALITY AND WATER QUALITY 500米空氣質素及水質評估範圍
- 300m ASSESSMENT AREA FOR NOISE 300米噪音評估範圍
- AIR QUALITY MONITORING STATIONS 空氣質素監察站
- NOISE MONITORING STATIONS 噪音監察站
- WATER QUALITY MONITORING STATIONS 水質監察站

RAMBOLL

Light Public Housing At Yau Pok Road, Yuen Long

Locations of Construction Phase Air Quality, Noise and Water Quality Monitoring Stations

Figure No.: 3

Date: 13 /12 / 2023

Scale: As shown

Drawn : MW

Check: YH

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Appendix A Construction Programme

Contract No. SS M518
Design & Construction of Light Public Housing at Yau Pok Road, Yuen Long, at Tuen Mun Area 3A, and Choi Hing Road, Ngau Tau Kok

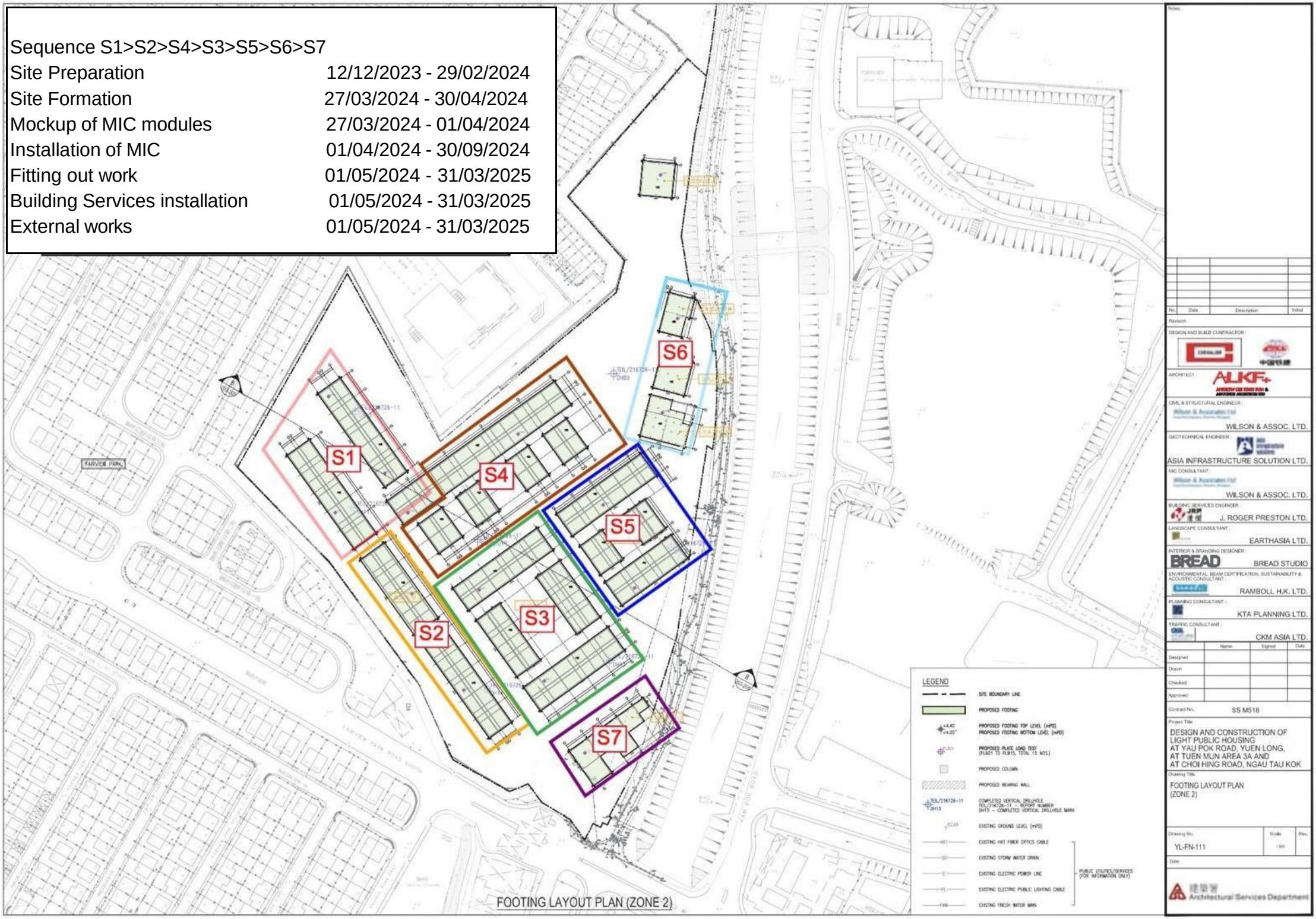
Yau Pok Road, Yuen Long Construction Works Schedule

Construction Works	Dec 2023	Jan 2024	Feb 2024	Mar 2024	Apr 2024	May 2024	Jun 2024	Jul 2024	Aug 2024	Sep 2024	Oct 2024	Nov 2024
Site Preparation work												
Site Formation												
Mock up of Mic modules												
Installation of Mic modules												
Fitting out work												
Building Services installation												
External works												

Construction Works	Dec 2024	Jan 2025	Feb 2025	Mar 2025
Site Preparation work				
Site Formation				
Mock up of Mic modules				
Installation of Mic modules				
Fitting out work				
Building Services installation				
External works				

Note: The major nosiy / disturbing activities are site formation, mock up of MIC modules and installation of MIC modules, which would be completed before October 2024, therefore the peak wintering season (between October and March) for migratory birds would not be affected. Fitting out work, building services installation and external works are not nosiy / disturbing activities and would not adversely affect the migratory birds.

Sequence S1>S2>S4>S3>S5>S6>S7	
Site Preparation	12/12/2023 - 29/02/2024
Site Formation	27/03/2024 - 30/04/2024
Mockup of MIC modules	27/03/2024 - 01/04/2024
Installation of MIC	01/04/2024 - 30/09/2024
Fitting out work	01/05/2024 - 31/03/2025
Building Services installation	01/05/2024 - 31/03/2025
External works	01/05/2024 - 31/03/2025



FOOTING LAYOUT PLAN (ZONE 2)

Notes :

No.	Date	Description	Initial

Revision

DESIGN AND BUILD CONTRACTOR :

ARCHITECT :

CIVIL & STRUCTURAL ENGINEER :
WILSON & ASSOC. LTD.

GEOTECHNICAL ENGINEER :
ASIA INFRASTRUCTURE SOLUTION LTD.

MIC CONSULTANT :
WILSON & ASSOC. LTD.

BUILDING SERVICES ENGINEER :
J. ROGER PRESTON LTD.

LANDSCAPE CONSULTANT :
EARTHASIA LTD.

INTERIOR & BRANDING DESIGNER :
BREAD STUDIO

ENVIRONMENTAL, BEAM CERTIFICATION, SUSTAINABILITY & ACOUSTIC CONSULTANT :
RAMBOLL H.K. LTD.

PLANNING CONSULTANT :
KTA PLANNING LTD.

TRAFFIC CONSULTANT :
CKM ASIA LTD.

	Name	Signed	Date
Designed			
Drawn			
Checked			
Approved			

Contract No. SS M518

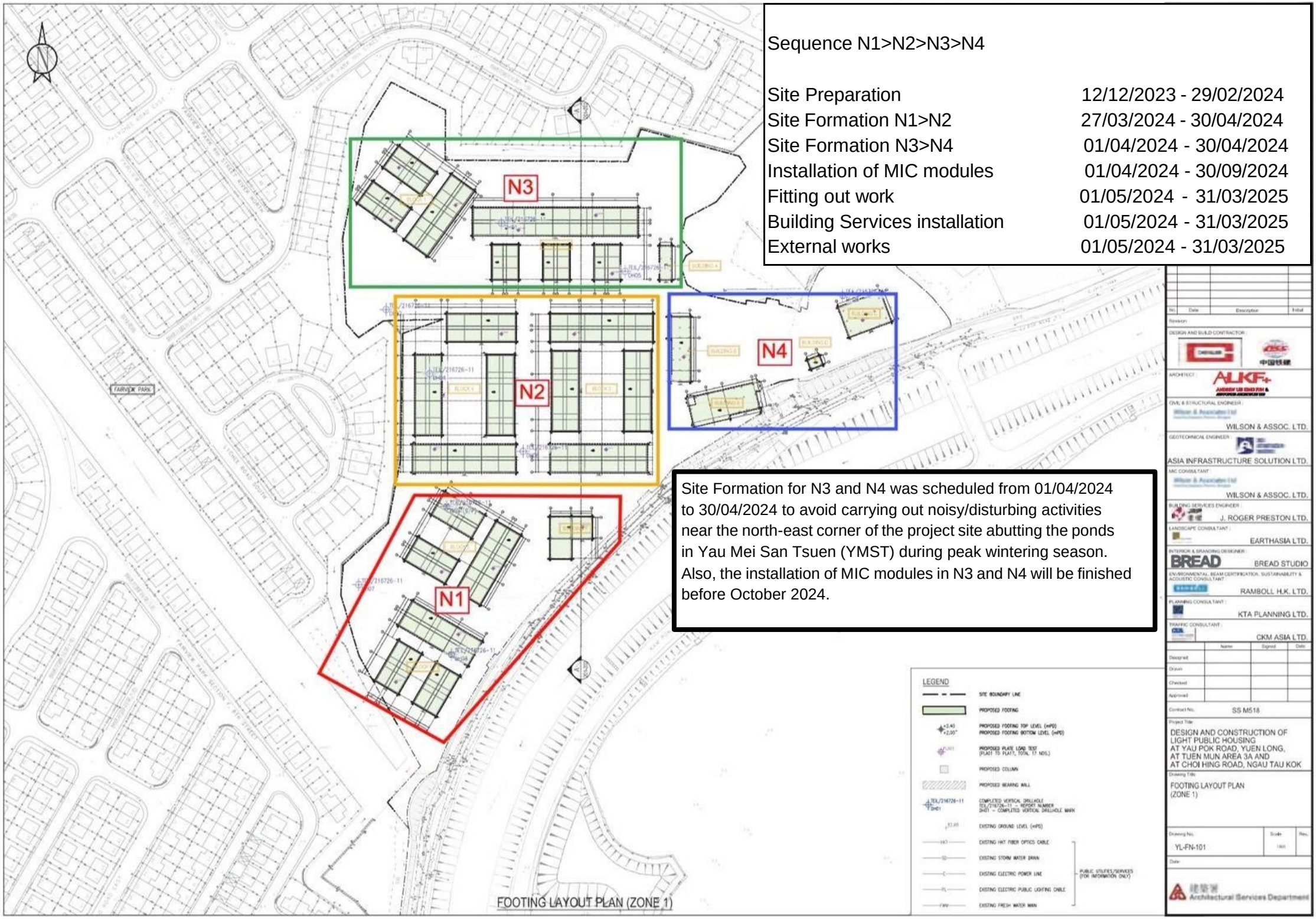
Project Title
DESIGN AND CONSTRUCTION OF LIGHT PUBLIC HOUSING AT YAU POK ROAD, YUEN LONG, AT TUEN MUN AREA 3A AND AT CHOI HING ROAD, NGAU TAU KOK

Drawing Title
FOOTING LAYOUT PLAN (ZONE 2)

Drawing No. YL-FN-111 | Scale 1:800 | Rev.

Date

Architectural Services Department



Sequence N1>N2>N3>N4

Site Preparation	12/12/2023 - 29/02/2024
Site Formation N1>N2	27/03/2024 - 30/04/2024
Site Formation N3>N4	01/04/2024 - 30/04/2024
Installation of MIC modules	01/04/2024 - 30/09/2024
Fitting out work	01/05/2024 - 31/03/2025
Building Services installation	01/05/2024 - 31/03/2025
External works	01/05/2024 - 31/03/2025

Site Formation for N3 and N4 was scheduled from 01/04/2024 to 30/04/2024 to avoid carrying out noisy/disturbing activities near the north-east corner of the project site abutting the ponds in Yau Mei San Tsuen (YMST) during peak wintering season. Also, the installation of MIC modules in N3 and N4 will be finished before October 2024.

DESIGN AND BUILD CONTRACTOR :
ARCHITECT :
CIVIL & STRUCTURAL ENGINEER : WILSON & ASSOC. LTD.
GEOTECHNICAL ENGINEER : ASIA INFRASTRUCTURE SOLUTION LTD.
MIC CONSULTANT : WILSON & ASSOC. LTD.
BUILDING SERVICES ENGINEER : J. ROGER PRESTON LTD.
LANDSCAPE CONSULTANT : EARTHASIA LTD.
INTERIOR & BRANDING DESIGNER : BREAD STUDIO
ENVIRONMENTAL, BEAM CERTIFICATION, SUSTAINABILITY & ACOUSTIC CONSULTANT : RAMBOLL H.K. LTD.
PLANNING CONSULTANT : KTA PLANNING LTD.
TRAFFIC CONSULTANT : CKM ASIA LTD.

Contract No. SS M518

Project Title
DESIGN AND CONSTRUCTION OF LIGHT PUBLIC HOUSING AT YAU POK ROAD, YUEN LONG, AT TUEN MUN AREA 3A AND AT CHOI HING ROAD, NGAU TAU KOK

Drawing Title
FOOTING LAYOUT PLAN (ZONE 1)

Drawing No. YL-FN-101

Architectural Services Department

Appendix B Action and Limit Levels

Appendix B - Action and Limit Levels

Action / Limit Levels for Air Quality

Monitoring Statiton	Action Level	Limit Level
AM1	277 μg/m^3	500 μg/m^3
AM2	280 μg/m^3	500 μg/m^3
AM3	280 μg/m^3	500 μg/m^3
AM4	280 μg/m^3	500 μg/m^3
AM5	296 μg/m^3	500 μg/m^3

Note:

1. Action level = (baseline level * 1.3 + Limit level)/2; For baseline level > 384 μg/m3 , Action level = Limit level

Action and Limit Levels for Construction Noise

Monitoring Statiton	Time Period	Action Level	Limit Level
NM1 to NM5	0700 to 1900 on normal weekdays	When one documented complaint is received	Leq(30min) 75 dB(A) [3]
	Restricted hours		Same as CNP

Note:

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.

3. Reduce to 10 dB(A) for schools and 65 dB(A) during school examination periods.

Action and Limit Levels for Water Quality

Monitoring Statiton	DO (mg/L)		Turbidity (NTU)		SS (mg/L)	
	AL	LL	AL	LL	AL	LL
W1	3.22	3.14	42.7	45.3	63.1	74.3
W3	3.36	3.34	51.7	51.8	66.5	67.7

Appendix C Calibration Certificates of Air, Noise and Water Quality Monitoring Equipment

LPok2560716

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

SUB-CONTRACTING REPORT

CONTACT	: MR ALLEN CHAN	WORK ORDER	: **HK2520487**
CLIENT	: **ENVIRONMENTAL PIONEERS & SOLUTION LTD**		
ADDRESS	: FLAT A, 8/F, CHAI WAN INDUSTRIAL CENTRE, 20 LEE CHUNG STREET, CHAI WAN, HONG KONG HONG KONG	SUB-BATCH DATE RECEIVED DATE OF ISSUE	: 1 : 21-MAY-2025 : 2-JUN-2025
PROJECT	: ----	NO. OF SAMPLES CLIENT ORDER	: 1 : ----

General Comments

- **Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.**
- **Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.**
- **Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition.**
- **Calibration was subcontracted to and analysed by Action-United Environmental Services & Consulting (AUES).**

Signatories

This document has been signed by those names that appear on this report and are the authorised signatories

Signatories	*Position*
Richard Fung	Managing Director

This report supersedes any previous report(s) with the same work order number.

All pages of this report have been checked and approved for release.

ALS Technichem (HK) Pty Ltd
Part of the **ALS Laboratory Group**

11/F. Chung Shun Knitting Centre 1 - 3 Wing Yip Street Kwai Chung N.T. Hong Kong
Tel. +852 2610 1044 Fax. +852 2610 2021 **www.alsglobal.com**

WORK ORDER	: HK2520487
SUB-BATCH	: 1
CLIENT	: ENVIRONMENTAL PIONEERS & SOLUTION LTD
PROJECT	: ----

ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2520487-001	S/N:5201750006	Equipments	21-May-2025	S/N:5201750006

-------- END OF REPORT --------

Equipment Verification Report (TSP)

Equipment Calibrated:

Type:	Laser Dust monitor
Manufacturer:	TSI AM520
Serial No.	5201750006
Equipment Ref:	NA
Job Order	HK2520487

Standard Equipment:

Standard Equipment:	Higher Volume Sampler (TSP)
Location & Location ID:	AUES office (calibration room)
Equipment Ref:	HVS 018
Last Calibration Date:	8 May 2025

Equipment Verification Results:

Verification Date: 26 May 2025

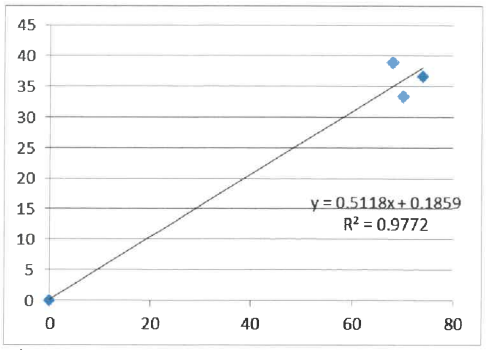
Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in ug/m^3 (Standard Equipment)	Concentration in ug/m^3 (Calibrated Equipment)	Tolerance (ug/m^3)
2hr00min	09:55 ~ 11:55	25.5	1014.7	38.9	68.0	+29.1
2hr00min	12:00 ~ 14:00	25.5	1014.7	33.6	70.0	+36.4
2hr01min	14:06 ~ 16:07	25.5	1014.7	36.8	74.0	+37.2

Linear Regression of Y or X

Slope (K-factor): 0.5118 (μg/m^3)/CPM

Correlation Coefficient (R) 0.9885

Date of Issue 30 May 2025



Remarks:

1. **Strong** Correlation (R>0.8)
2. Factor 0.5118 (μg/m^3)/CPM should be applied for TSP monitoring

*If R<0.5, repair or re-verification is required for the equipment

Operator : Jeff Ip Signature : Date : 30 May 2025

QC Reviewer : Ben Tam Signature : Date : 30 May 2025

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location :	Gold King Industrial Building, Kwai Chung	Date of Calibration:	8-May-25
Location ID :	Calibration Room - TISCH Higher Volume Sampler (Model TE-5170) S/N:1260	Next Calibration Date:	8-Aug-25

CONDITIONS

Sea Level Pressure (hPa)	1008	Corrected Pressure (mm Hg)	756
Temperature (°C)	26.4	Temperature (K)	299

CALIBRATION ORIFICE

Make->	TISCH	Qstd Slope ->	2.09671
Model->	5025A	Qstd Intercept ->	-0.01852
Calibration Date->	16-Dec-24	Expiry Date->	16-Dec-25

CALIBRATION

Plate No.	H20 (L) (in)	H2O (R) (in)	H20 (in)	Qstd (m3/min)	I (chart)	IC corrected	LINEAR REGRESSION
18	6.9	6.9	13.8	1.772	46	45.77	Slope = 27.0243
13	5.3	5.3	10.6	1.554	40	39.80	Intercept = -2.3103
10	4.2	4.2	8.4	1.384	35	34.83	Corr. coeff. = 0.9992
8	2.3	2.3	4.6	1.027	25	24.88	
5	1.4	1.4	2.8	0.803	20	19.90	

Calculations :

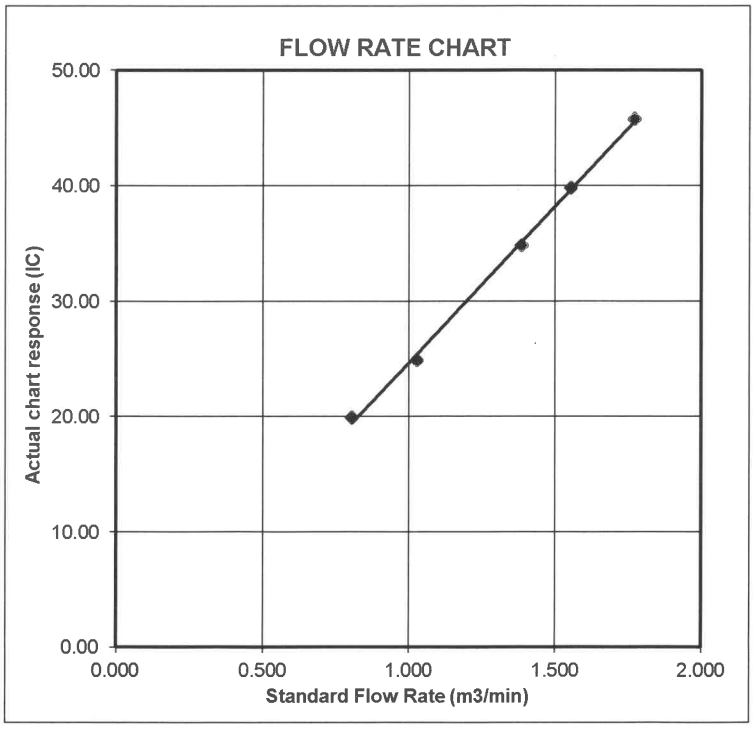
Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b]
IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate
IC = corrected chart respones
I = actual chart response
m = calibrator Qstd slope
b = calibrator Qstd intercept
Ta = actual temperature during calibration (deg K)
Pstd = actual pressure during calibration (mm Hg)

For subsequent calculation of sampler flow:

1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)

m = sampler slope
b = sampler intercept
I = chart response
Tav = daily average temperature
Pav = daily average pressure



TISCH Environmental

RECALIBRATION DUE DATE:
December 16, 2025

Certificate of Calibration

Calibration Certification Information				
Cal. Date:	December 16, 2024	**Rootsmeter S/N:** 438320	**Ta:** 293	°K
Operator:	Jim Tisch		**Pa:** 749.0	mm Hg
Calibration Model #:	TE-5025A	**Calibrator S/N:** **4064**		

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4600	3.2	2.00
2	3	4	1	1.0300	6.4	4.00
3	5	6	1	0.9220	8.0	5.00
4	7	8	1	0.8770	8.8	5.50
5	9	10	1	0.7250	12.8	8.00

Data Tabulation

Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H\left(Ta/Pa\right)}$ (y-axis)
0.9981	0.6836	1.4159	0.9957	0.6820	0.8845
0.9938	0.9649	2.0024	0.9915	0.9626	1.2509
0.9917	1.0756	2.2388	0.9893	1.0730	1.3985
0.9906	1.1296	2.3480	0.9883	1.1269	1.4668
0.9853	1.3590	2.8318	0.9829	1.3557	1.7690
QSTD	**m=**	**2.09671**	**QA**	**m=**	**1.31292**
	b=	**-0.01852**		**b=**	**-0.01157**
	r=	**0.99999**		**r=**	**0.99999**

Calculations

Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	**Va=**	ΔVol((Pa-ΔP)/Pa)
Qstd=	Vstd/ΔTime	**Qa=**	Va/ΔTime

For subsequent flow rate calculations:

Qstd= $1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$

Qa= $1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)-b\right)$

Standard Conditions	
Tstd:	298.15 °K
Pstd:	760 mm Hg

Key
ΔH: calibrator manometer reading (in H2O)
ΔP: rootsmeter manometer reading (mm Hg)
Ta: actual absolute temperature (°K)
Pa: actual barometric pressure (mm Hg)
b: intercept
m: slope

RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

Tisch Environmental, Inc.
145 South Miami Avenue
Village of Cleves, OH 45002

www.tisch-env.com
TOLL FREE: (877)263-7610
FAX: (513)467-9009

TSI P/N 2300157

CERTIFICATE OF CALIBRATION AND TESTING

TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA
Tel: 1-800-874-2811 1-651-490-2811 Fax: 1-651-490-3824 http://www.tsi.com

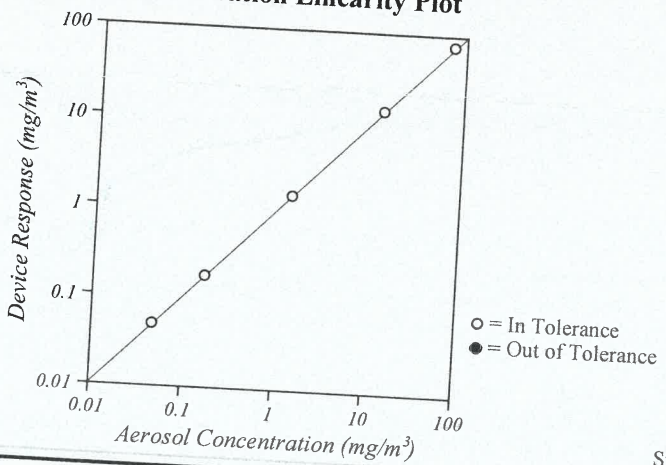
Environment Conditions		
Temperature	73.55 (23.1)	°F (°C)
Relative Humidity	28.5	%RH
Barometric Pressure	29.13 (986.5)	inHg (hPa)

Model	AM520
Serial Number	5201933006

☒ As Left ☐ As Found

☒ In Tolerance ☐ Out of Tolerance

Concentration Linearity Plot



System ID: DTII01-02

CONCENTRATION

Unit: mg/m3

#	STANDARD	MEASURED	ALLOWABLE RANGE	#	STANDARD	MEASURED	ALLOWABLE RANGE
1	0.046	0.046	0.032~0.060	4	12.916	12.990	11.624~14.208
2	0.165	0.163	0.140~0.190	5	71.514	72.238	64.363~78.665
3	1.378	1.360	1.240~1.516				

TSI Incorporated does hereby certify that all materials, components, and workmanship used in the manufacture of this equipment are in strict accordance with the applicable specifications agreed upon by TSI and the customer and with all published specifications. All performance and acceptance tests required under this contract were successfully conducted according to required specifications. There is no NIST standard for optical mass measurements. Calibration of this instrument performed by TSI has been done using emery oil and has been nominally adjusted to respirable mass per standard ISO 12103-1, A1 test dust (Arizona dust). Our calibration ratio is greater than 4:1

Measurement Variable	System ID	Last Cal.	Cal. Due
DC Voltage	E010539	06-11-24	12-31-25
Microbalance	M001324	12-12-24	12-31-26
Flowmeter	E002471	05-20-24	05-31-25

Measurement Variable	System ID	Last Cal.	Cal. Due
Photometer	E005612	10-29-24	10-31-25
Pressure	E003511	10-30-24	10-31-25
DC Voltage	E003315	01-09-23	01-31-28

David Farrell
Calibrated

April 15, 2025
Date

綜合試驗有限公司
SOILS & MATERIALS ENGINEERING CO., LTD.
香港新界葵涌永基路22-24號好爸爸創科大廈
Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong
Tel: (852) 2873 6860 Fax: (852) 2555 7533 E-mail: smec@cigismec.com Website: www.cigismec.com

HOKLAS 028 CAL

CERTIFICATE OF CALIBRATION

Certificate No.: 25CA0219 01-01 **Page** 1 **of** 2

Item tested

Description:	Sound Level Meter (Class 1)	,	Microphone
Manufacturer:	SVANTEK, Poland	,	BSWA
Type/Model No.:	971	,	231
Serial/Equipment No.:	61421	,	550847
Adaptors used:	-	,	-

Item submitted by

Customer Name:	Environmental Pioneers & Solutions Limited
Address of Customer:	Flat A, 8/F, Chaiwan Industrial Centre, 20 Lee Chung Street, Chai Wan, Hong Kong
Request No.:	-
Date of receipt:	19-Feb-2025

Date of test: 21-Feb-2025

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Multi function sound calibrator	B&K 4226	2288444	28-Aug-2025	CIGISMEC
Signal generator	DS 360	33873	06-Mar-2025	CEPREI

Ambient conditions

Temperature:	21 ± 1 °C
Relative humidity:	55 ± 10 %
Air pressure:	1005 ± 5 hPa

Test specifications

1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.

2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.

3, The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory: Feng Junqi **Date:** 22-Feb-2025 **Company Chop:** SOILS AND MATERIALS ENGINEERING COMPANY LTD. 綜合試驗有限公司

Comments: The results 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 instrument. The results apply to the item as received.

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HOKLAS 028 CAL

CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 25CA0219 01-01 **Page** 2 **of** 2

1, Electrical Tests

The electrical tests were perfomed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

Test:	Subtest:	Status:	Expanded Uncertainty (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
	C	Pass	0.8	
	Lin	Pass	1.6	
Linearity range for Leq	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings	A	Pass	0.3	
	C	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100μs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor $1/10^3$ at 4kHz	Pass	0.3	
	1 ms burst duty factor $1/10^4$ at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

2, Acoustic tests

The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

Test:	Subtest	Status	Expanded Uncertainty (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
	Weighting A at 8000 Hz	Pass	0.5	

3, Response to associated sound calibrator

N/A

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

- End -

Calibrated by: Fung Chi Yip **Date:** 21-Feb-2025

Checked by: Chan Yuk Yiu **Date:** 22-Feb-2025

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

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SMECLab

Sound level meter type:	971	Serial No.	61421	Date	21-Feb-2025
Microphone type:	231	Serial No.	550847		
				Report:	25CA0219 01-01

SELF GENERATED NOISE TEST

The noise test is performed in the most sensitive range of the SLM with the microphone replaced by an equivalent impedance.

Noise level in A weighting	15.8	dB
Noise level in C weighting	15.8	dB
Noise level in Lin (Z)	20.3	dB

LINEARITY TEST

The linearity is tested relative to the reference sound pressure level using a continuous sinusoidal signal of frequency 4 kHz. The measurement is made on the reference range for indications at 5 dB intervals starting from the 94 dB reference sound pressure level. And until within 5 dB of the upper and lower limits of the reference range, the measurements shall be made at 1 dB intervals.(SLM set to LEQ/SPL)

Reference/Expected level	Actual level		Tolerance	Deviation	
	non-integrated	integrated		non-integrated	integrated
dB	dB	dB	+/- dB	dB	dB
94.0	94.0	94.0	0.7	0.0	0.0
99.0	99.0	99.0	0.7	0.0	0.0
104.0	104.0	104.0	0.7	0.0	0.0
109.0	109.0	109.0	0.7	0.0	0.0
114.0	114.0	114.0	0.7	0.0	0.0
119.0	119.0	119.0	0.7	0.0	0.0
124.0	124.0	124.0	0.7	0.0	0.0
125.0	125.0	125.0	0.7	0.0	0.0
126.0	126.0	126.0	0.7	0.0	0.0
127.0	127.0	127.0	0.7	0.0	0.0
128.0	128.0	128.0	0.7	0.0	0.0
89.0	89.0	89.0	0.7	0.0	0.0
84.0	84.0	84.0	0.7	0.0	0.0
79.0	79.0	79.0	0.7	0.0	0.0
74.0	74.0	74.0	0.7	0.0	0.0
69.0	69.0	69.0	0.7	0.0	0.0
64.0	64.0	64.0	0.7	0.0	0.0
59.0	59.0	59.0	0.7	0.0	0.0
54.0	54.0	54.0	0.7	0.0	0.0
49.0	49.0	49.0	0.7	0.0	0.0
44.0	43.9	43.9	0.7	-0.1	-0.1
39.0	38.9	38.9	0.7	-0.1	-0.1
34.0	33.7	33.7	0.7	-0.3	-0.3
33.0	32.7	32.7	0.7	-0.3	-0.3
32.0	31.6	31.6	0.7	-0.4	-0.4
31.0	30.6	30.6	0.7	-0.4	-0.4

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SMECLab

Sound level meter type: 971 Serial No. 61421 Date 21-Feb-2025
Microphone type: 231 Serial No. 550847
Report: 25CA0219 01-01

30.0	29.5	29.5	0.7	-0.5	-0.5

Measurements for an indication of the reference SPL on all other ranges which include it

Other ranges	Expected level	Actual level	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
30-128	94.0	94.0	0.7	0.0
40-142	94.0	94.0	0.7	0.0

Measurements on all level ranges for indications 2 dB below the upper limit and 2 dB above the lower limit

Ranges	Reference/Expected level	Actual level	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
30-128	32.0	31.6	0.7	-0.4
	126.0	126.0	0.7	0.0
40-142	42.0	41.8	0.7	-0.2
	140.0	139.9	0.7	-0.1

FREQUENCY WEIGHTING TEST

The frequency response of the weighting netwoks are tested at octave intervals over the frequency ranges 31.5 Hz to 12500 Hz. The signal level at 1000 Hz is set to give an indication of the reference SPL.

Frequency weighting A:

Frequency	Ref. level	Expected level	Actual level	Tolerance(dB)		Deviation
Hz	dB	dB	dB	+	-	dB
1000.0	94.0	94.0	94.0	0.0	0.0	0.0
31.6	94.0	54.6	54.8	1.5	1.5	0.2
63.1	94.0	67.8	67.9	1.5	1.5	0.1
125.9	94.0	77.9	77.9	1.0	1.0	0.0
251.2	94.0	85.4	85.4	1.0	1.0	0.0
501.2	94.0	90.8	90.8	1.0	1.0	0.0
1995.0	94.0	95.2	95.2	1.0	1.0	0.0
3981.0	94.0	95.0	95.1	1.0	1.0	0.1
7943.0	94.0	92.9	93.1	1.5	3.0	0.2
12590.0	94.0	89.7	89.6	3.0	6.0	-0.1

Frequency weighting C:

Frequency	Ref. level	Expected level	Actual level	Tolerance(dB)		Deviation
Hz	dB	dB	dB	+	-	dB
1000.0	94.0	94.0	94.0	0.0	0.0	0.0
31.6	94.0	91.0	91.0	1.5	1.5	0.0
63.1	94.0	93.2	93.2	1.5	1.5	0.0
125.9	94.0	93.8	93.8	1.0	1.0	0.0
251.2	94.0	94.0	94.0	1.0	1.0	0.0
501.2	94.0	94.0	94.0	1.0	1.0	0.0
1995.0	94.0	93.8	93.8	1.0	1.0	0.0
3981.0	94.0	93.2	93.2	1.0	1.0	0.0

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SMECLab

Sound level meter type: 971 Serial No. 61421 Date 21-Feb-2025
Microphone type: 231 Serial No. 550847
Report: 25CA0219 01-01

7943.0	94.0	91.0	91.1	1.5	3.0	0.1
12590.0	94.0	87.8	87.7	3.0	6.0	-0.1

Frequency weighting Z:

Frequency	Ref. level	Expected level	Actual level	Tolerance(dB)		Deviation
Hz	dB	dB	dB	+	-	dB
1000.0	94.0	94.0	94.0	0.0	0.0	0.0
31.6	94.0	94.0	94.0	1.5	1.5	0.0
63.1	94.0	94.0	94.0	1.5	1.5	0.0
125.9	94.0	94.0	94.0	1.0	1.0	0.0
251.2	94.0	94.0	94.0	1.0	1.0	0.0
501.2	94.0	94.0	94.0	1.0	1.0	0.0
1995.0	94.0	94.0	94.0	1.0	1.0	0.0
3981.0	94.0	94.0	93.9	1.0	1.0	-0.1
7943.0	94.0	94.0	93.9	1.5	3.0	-0.1
12590.0	94.0	94.0	93.9	3.0	6.0	-0.1

TIME WEIGHTING FAST TEST

Time weighting F is tested on the reference range with a single sinusoidal burst of duration 200 ms at a frequency 2000 Hz and an amplitude which produces an indication 4 dB below the upper limit of the primary indicator range when the signal is continuous. (Weight A, Maximum hold)

Ref. level	Expected level	Actual level	Tolerance(dB)		Deviation
dB	dB	dB	+	-	dB
124.0	123.0	123.0	1.0	1.0	0.0

TIME WEIGHTING SLOW TEST

Time weighting S is tested on the reference range with a single sinusoidal burst of duration 500 ms at a frequency 2000 Hz and an amplitude which produces an indication 4 dB below the upper limit of the primary indicator range when the signal is continuous. (Weight A, Maximum hold)

Ref. level	Expected level	Actual level	Tolerance(dB)		Deviation
dB	dB	dB	+	-	dB
124.0	119.9	119.9	1.0	1.0	0.0

PEAK RESPONSE TEST

The onset time of the peak detector is tested on the reference range by comparing the response to a 100 us rectangular test pulse with the response to a 10 ms reference pulse of the same amplitude. The amplitude of the 10 ms reference pulse is such as to produce an indication 1 dB below the upper limit of the primary indicator range.

Positive polarities: (Weighting C, set the generator signal to single, Lcpeak)

Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
127.0	127.0	127.4	2.0	0.4

Negative polarities:

Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation
dB	dB	dB	+/- dB	dB

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SMECLab

Sound level meter type: 971 Serial No. 61421 Date 21-Feb-2025
Microphone type: 231 Serial No. 550847
Report: 25CA0219 01-01

127.0	127.0	127.4	2.0	0.4

RMS ACCURACY TEST

The RMS detector accuracy is tested on the reference range for a crest factor of 3.

Test frequency: 2000 Hz
Amplitude: 2 dB below the upper limit of the primary indicator range.
Burst repetition frequency: 40 Hz
Tone burst signal: 11 cycles of a sine wave of frequency 2000 Hz. (Set to INT)

	Ref. Level	Expected level	Tone burst signal	Tolerance	Deviation
Time wighting	dB	dB	indication(dB)	+/- dB	dB
Slow	125.0+6.6	125.0	124.8	0.5	-0.2

TIME WEIGHTING IMPULSE TEST

Time weighting I is tested on the reference range (Set the SLM to LAImax)
Test frequency: 2000 Hz
Amplitude: The upper limit of the primary indicator range.

Single sinusoidal burst of duration 5 ms:

Ref. Level	Single burst indication		Tolerance	Deviation
dB	Expected (dB)	Actual (dB)	+/- dB	dB
128.0	119.2	119.1	2.0	-0.1

Repeated at 100 Hz

Ref. Level	Repeated burst indication		Tolerance	Deviation
dB	Expected (dB)	Actual (dB)	+/- dB	dB
128.0	125.3	125.1	1.0	-0.2

TIME AVERAGING TEST

This test compares the SLM reading for continuous sine signals with readings obtained from a sine tone burst sequence having the same RMS level. The test level is 30 dB below the upper limit of the linearity range and repeated for Type 1 SLM with 40 dB below the upper limit of the linearity.

Frequency of tone burst: 4000 Hz
Duration of tone burst: 1 ms

Repetition Time	Level of tone burst	Expected Leq	Actual Leq	Tolerance	Deviation	Remarks
msec	dB	dB	dB	+/- dB	dB	
1000	98.0	98.0	97.5	1.0	-0.5	60s integ.
10000	88.0	88.0	87.5	1.0	-0.5	6min. integ.

PULSE RANGE AND SOUND EXPOSURE LEVEL TEST

The test tone burst signal is superimposed on a baseline signal corresponding to the lower limit of reference range

Test frequency: 4000 Hz
Integration time: 10 sec

The integrating sound level meter set to Leq:

Duration	Rms level of	Expected	Actual	Tolerance	Deviation
msec	tone burst (dB)	dB	dB	+/- dB	dB
10	98.0	68.0	68.0	1.7	0.0

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SMECLab

Sound level meter type: 971 Serial No. 61421 Date 21-Feb-2025
Microphone type: 231 Serial No. 550847
Report: 25CA0219 01-01

The integrating sound level meter set to SEL:

Duration	Rms level of	Expected	Actual	Tolerance	Deviation
msec	tone burst (dB)	dB	dB	+/- dB	dB
10.0	98.0	78.0	78.0	1.7	0.0

OVERLOAD INDICATION TEST

For SLM capable of operating in a non-integrating mode.

Test frequency: 2000 Hz
Amplitude: 2 dB below the upper limit of the primary indicator range.
Burst repetition frequency: 40 Hz
Tone burst signal: 11 cycles of a sine wave of frequency 2000 Hz.

Level	Level reduced by	Further reduced	Difference	Tolerance	Deviation
at overload (dB)	1 dB	3 dB	dB	dB	dB
125.3	124.3	121.3	3.0	1.0	0.0

For integrating SLM, with the instrument indicating Leq.

For integrating SLM, with the instrument indicating Leq and set to the reference range. The test signal as following:
The test tone burst signal is superimposed on a baseline signal corresponding to the lower limit of reference range

Test frequency: 4000 Hz
Integration time: 10 sec
Single burst duration: 1 msec

Rms level	Level reduced by	Expected level	Actual level	Tolerance	Deviation
at overload (dB)	1 dB	dB	dB	dB	dB
128.6	127.6	87.6	87.6	2.2	0.0

ACOUSTIC TEST

The acoustic test of the complete SLM is tested at the frequency 125 Hz and 8000 Hz using a B&K type 4226 Multifunction Acoustic Calibrator. The test is performed in A weighting.

Frequency	Expected level	Actual level	Tolerance (dB)		Deviation
Hz	dB	Measured (dB)	+	-	dB
1000	94.0	94.0	0.0	0.0	0.0
125	77.9	78.0	1.0	1.0	0.1
8000	92.9	92.5	1.5	3.0	-0.4

---------END---------

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Tel: (852) 2873 6860 Fax: (852) 2555 7533 E-mail: smec@cigismec.com Website: www.cigismec.com

HOKLAS 028
CAL

CERTIFICATE OF CALIBRATION

Certificate No.: 24CA1120 01-02 **Page:** 1 **of** 2

Item tested

Description:	Acoustical Calibrator (Class 1)
Manufacturer:	SVANTEK
Type/Model No.:	SV30A
Serial/Equipment No.:	29085
Adaptors used:	-

Item submitted by

Curstomer:	Environmental Pioneers & Solutions Limited
Address of Customer:	Flat A, 8/F, Chaiwan Industrial Centre, 20 Lee Chung Street, Chai Wan, Hong Kong
Request No.:	-
Date of receipt:	20-Nov-2024

Date of test: 23-Nov-2024

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	3257888	30-Jul-2025	SCL
Preamplifier	B&K 2673	3353200	29-Jun-2025	CEPREI
Measuring amplifier	B&K 2610	2346941	27-Jun-2025	CEPREI
Signal generator	DS 360	33873	06-Mar-2025	CEPREI
Digital multi-meter	34401A	US36087050	20-Jun-2025	CEPREI
Audio analyzer	8903B	GB41300350	19-Jun-2025	CEPREI
Universal counter	53132A	MY40003662	26-Jun-2025	CEPREI

Ambient conditions

Temperature:	21 ± 1 °C
Relative humidity:	55 ± 10 %
Air pressure:	1005 ± 5 hPa

Test specifications

1, The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.

2, The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.

3, The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

Test results

Details of the performed measurements are presented on **page 2** of this certificate.

Approved Signatory: Feng Junqi **Date:** 25-Nov-2024 **Company Chop:** SOILS AND MATERIALS ENGINEERING COMPANY LTD. 綜合試驗有限公司

Comments: The results reported in this certificate refer to the conditon of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument. The results apply to the item as received.

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CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 24CA1120 01-02 **Page:** 2 **of** 2

1, Measured Sound Pressure Level

The output Sound Pressure Level in the calibrator head was measured at the setting and frequency shown using a calibrated laboratory standard microphone and insert voltage technique. The results are given in below with the estimated uncertainties.

(Output level in dB re 20 μPa)

Frequency Shown Hz	Output Sound Pressure Level Setting dB	Measured Output Sound Pressure Level dB	Estimated Expanded Uncertainty dB
1000	94.00	93.28	0.10

2, Sound Pressure Level Stability - Short Term Fluctuations

The Short Term Fluctuations was determined by measuring the maximum and minimum of the fast weighted DC output of the B&K 2610 measuring amplifier over a 20 second time interval as required in the standard. The Short Term Fluctuation was found to be:

At 1000 Hz **STF = 0.019dB**

Estimated expanded uncertainty 0.005 dB

3, Actual Output Frequency

The determination of actual output frequency was made using a B&K 4180 microphone together with a B&K 2673 preamplifier connected to a B&K 2610 measuring amplifier. The AC output of the B&K 2610 was taken to an universal counter which was used to determine the frequency averaged over 20 second of operation as required by the standard. The actual output frequency at 1 KHz was:

At 1000 Hz **Actual Frequency = 1000.0Hz**

Estimated expanded uncertainty 0.1 Hz Coverage factor k = 2.2

4, Total Noise and Distortion

For the Total Noise and Distortion measurement, the unfiltered AC output of the B&K 2610 measuring amplifier was connected to an Agilent Type 8903 B distortion analyser. The TND result at 1 KHz was:

At 1000 Hz **TND = 1.2 %**

Estimated expanded uncertainty 0.7 %

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

- End -

Calibrated by: Fung Chi Yip **Date:** 23-Nov-2024

Checked by: Chan Yuk Yiu **Date:** 25-Nov-2024

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

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Appendix D Environmental Monitoring Schedules

Post-Construction and Impact Monitoring for Light Public Housing at Yau Pok Road, Yuen Long

Post-Construction and Impact Monitoring Schedule for July 2025

Sunday	*Monday*	*Tuesday*	*Wednesday*	*Thursday*	*Friday*	*Saturday*
Jun 29	**Jun 30**	**Jul 01**	**Jul 02**	**Jul 03**	**Jul 04**	**Jul 05**
	*Noise **1hr-TSP *** Water		*** Water		*** Water	*Noise **1hr-TSP
Jul 06	**Jul 07**	**Jul 08**	**Jul 09**	**Jul 10**	**Jul 11**	**Jul 12**
	*** Water		*** Water		*Noise **1hr-TSP *** Water	
Jul 13	**Jul 14**	**Jul 15**	**Jul 16**	**Jul 17**	**Jul 18**	**Jul 19**
	*** Water		*** Water		*** Water	
Jul 20	**Jul 21**	**Jul 22**	**Jul 23**	**Jul 24**	**Jul 25**	**Jul 26**
	*** Water		*** Water		*** Water	
Jul 27	**Jul 28**	**Jul 29**	**Jul 30**	**Jul 31**	**Aug 01**	**Aug 02**

* Noise Impact Monitoring at NM1, NM2, NM3, NM4 & NM5

** 1hr-TSP Impact Monitoring at AM1, AM2, AM3, AM4 & AM5

*** Water Quality Post-Construction Monitoring at W1, W3, C1, C3

Appendix E Monitoring Results

Appendix E - Monitoring Result (Air Quality)

Monitoring Station: AM1

Date	Weather	Time	1-hr TSP
05/07/2025	Cloudy	09:32	35
05/07/2025	Cloudy	10:32	33
05/07/2025	Cloudy	11:32	31
11/07/2025	Cloudy	09:36	36
11/07/2025	Cloudy	10:36	31
11/07/2025	Cloudy	11:36	35
		Average	34
		Maximum	36
		Minimum	31
		Action Level	277
		Limit Level	500

Monitoring Station: AM2

Weather	Time	1-hr TSP
Cloudy	09:47	31
Cloudy	10:47	33
Cloudy	11:47	31
Cloudy	09:51	28
Cloudy	10:51	35
Cloudy	11:51	32
	Average	32
	Maximum	35
	Minimum	28
	Action Level	280
	Limit Level	500

Monitoring Station: AM3

Weather	Time	1-hr TSP
Cloudy	09:59	36
Cloudy	10:59	31
Cloudy	11:59	33
Cloudy	10:03	37
Cloudy	11:03	32
Cloudy	12:03	35
	Average	34
	Maximum	37
	Minimum	31
	Action Level	280
	Limit Level	500

Monitoring Station: AM4

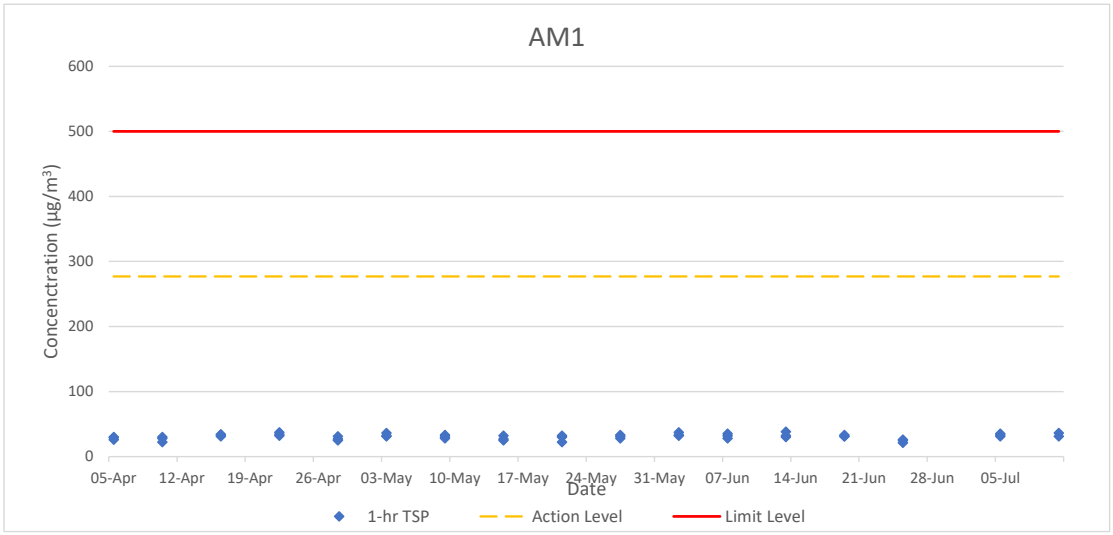
Date	Weather	Time	1-hr TSP
05/07/2025	Cloudy	14:14	32
05/07/2025	Cloudy	15:14	36
05/07/2025	Cloudy	16:14	32
11/07/2025	Cloudy	14:18	33
11/07/2025	Cloudy	15:18	31
11/07/2025	Cloudy	16:18	35
		Average	33
		Maximum	36
		Minimum	31
		Action Level	280
		Limit Level	500

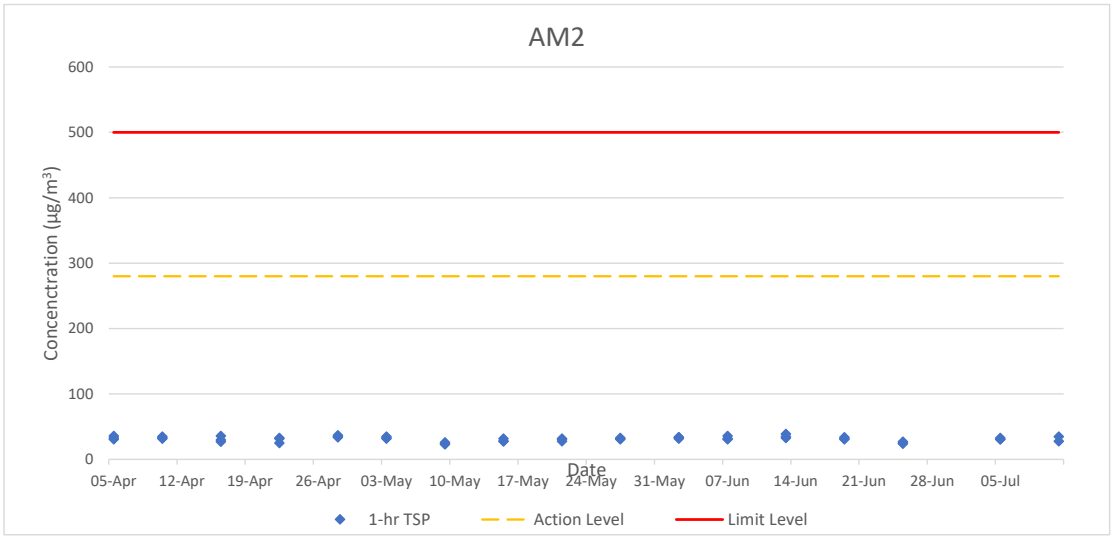
Monitoring Station: AM5

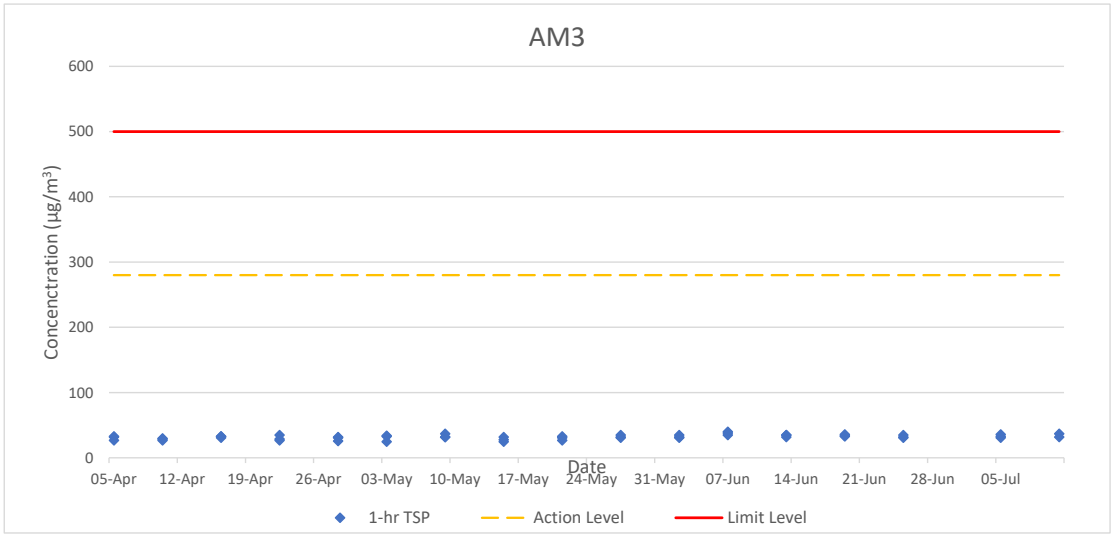
Weather	Time	1-hr TSP
Cloudy	14:36	22
Cloudy	15:36	30
Cloudy	16:36	25
Cloudy	14:40	31
Cloudy	15:40	33
Cloudy	16:40	33
	Average	29
	Maximum	33
	Minimum	22
	Action Level	296
	Limit Level	500

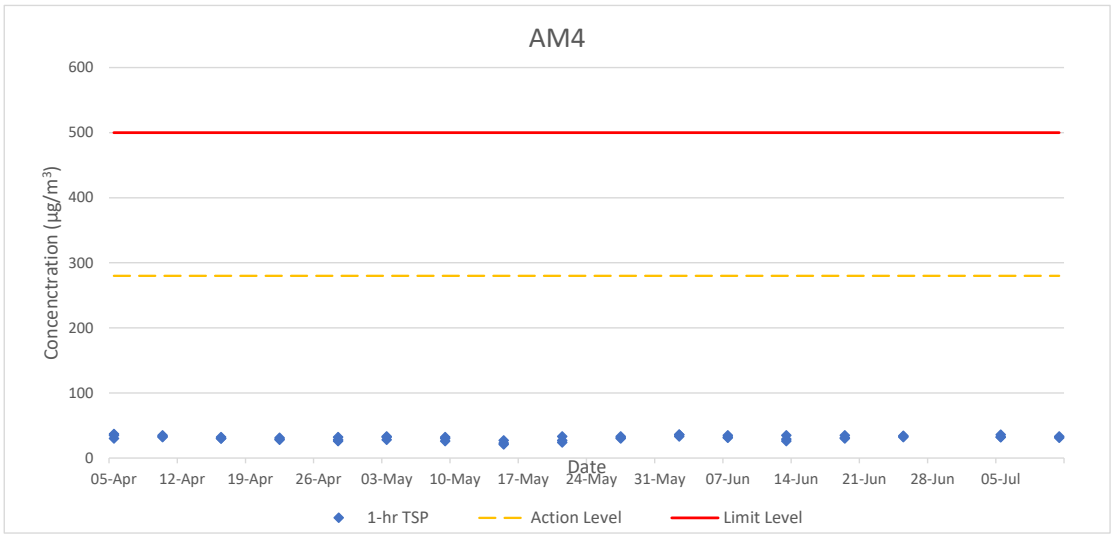
Unit: µg/m3

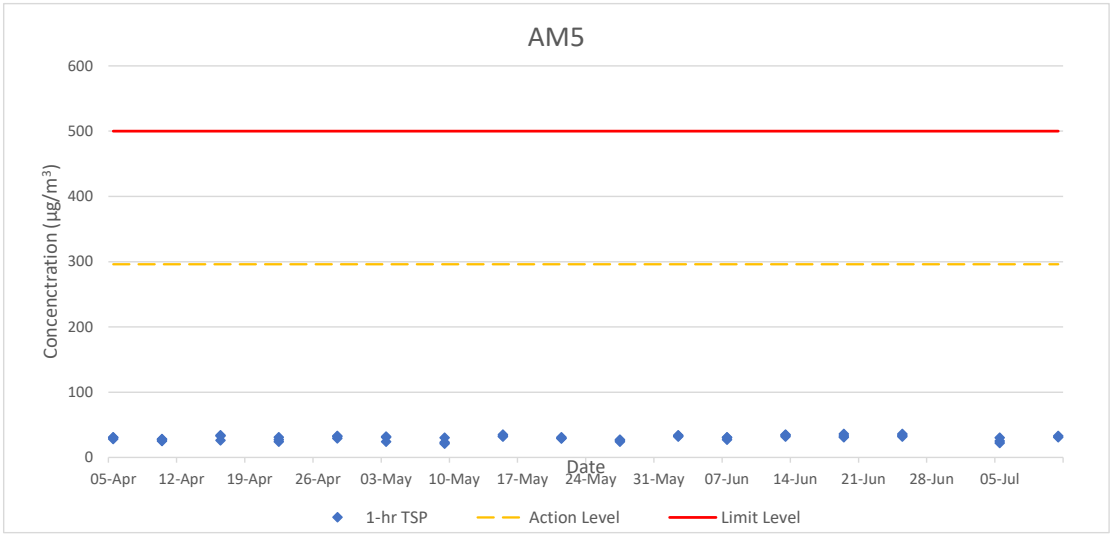
Appendix E - Monitoring Result (Air Quality)








AM4
600
500
400
300
200
100
0
Concenctration (µg/m³)
05-Apr
12-Apr
19-Apr
26-Apr
03-May
10-May
17-May
24-May
31-May
07-Jun
14-Jun
21-Jun
28-Jun
05-Jul
Date
1-hr TSP
Action Level
Limit Level


AM5
600
500
400
300
200
100
0
Concenctration (µg/m³)
05-Apr
12-Apr
19-Apr
26-Apr
03-May
10-May
17-May
24-May
31-May
07-Jun
14-Jun
21-Jun
28-Jun
05-Jul
Date
1-hr TSP
Action Level
Limit Level

Appendix E - Monitoring Result (Noise)

Monitoring Station: NM1

Date	Time	Leq (30 min)(dB(A))	L10(dB(A))	L90(dB(A))
05/07/2025	09:38	58	60	53
11/07/2025	09:41	58	59	51

Note: +3dB for Free Field is added.

Monitoring Station: NM2

Date	Time	Leq (30 min)(dB(A))	L10(dB(A))	L90(dB(A))
05/07/2025	10:13	57	60	53
11/07/2025	10:16	58	59	51

Note: +3dB for Free Field is added.

Monitoring Station: NM3

Date	Time	Leq (30 min)(dB(A))	L10(dB(A))	L90(dB(A))
05/07/2025	10:48	57	59	48
11/07/2025	10:51	59	60	45

Note: +3dB for Free Field is added.

Monitoring Station: NM4

Date	Time	Leq (30 min)(dB(A))	L10(dB(A))	L90(dB(A))
05/07/2025	11:23	58	61	46
11/07/2025	11:26	59	61	46

Note: +3dB for Free Field is added.

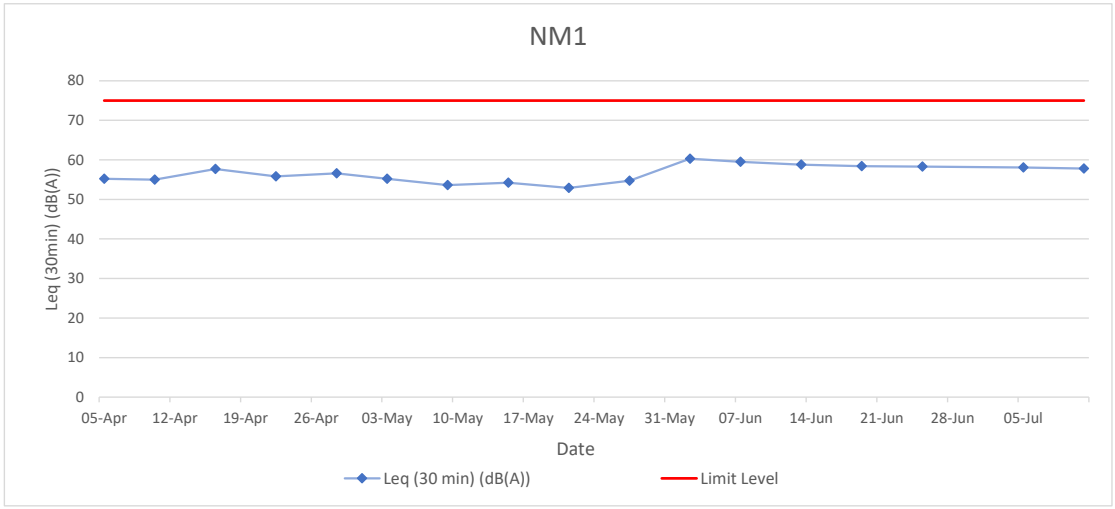
Monitoring Station: NM5

Date	Time	Leq (30 min)(dB(A))	L10(dB(A))	L90(dB(A))
05/07/2025	11:58	52	54	44
11/07/2025	12:01	54	55	43

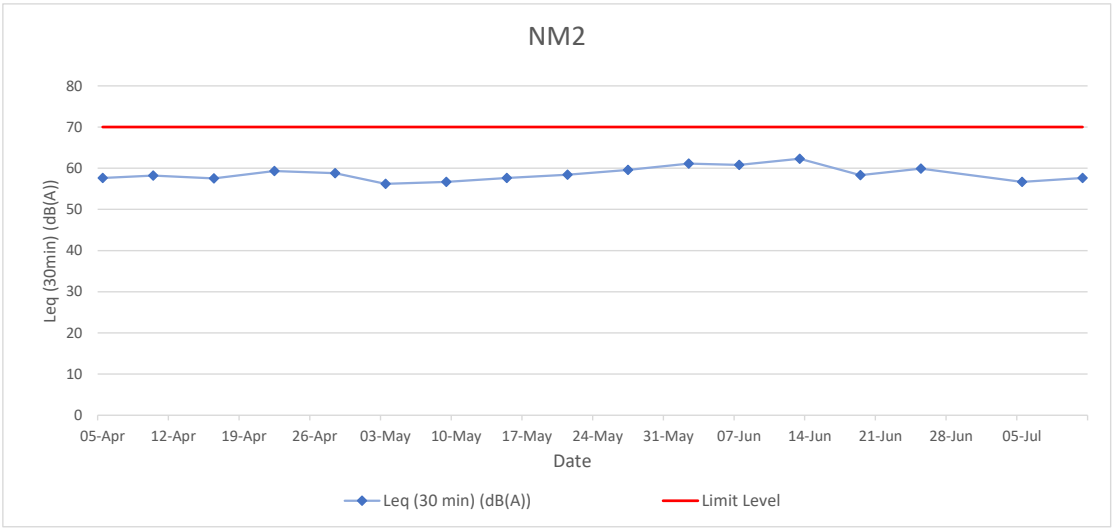
Note: +3dB for Free Field is added.

Limit Level: 75 dB(A), reduced to 70 dB(A) for NM2

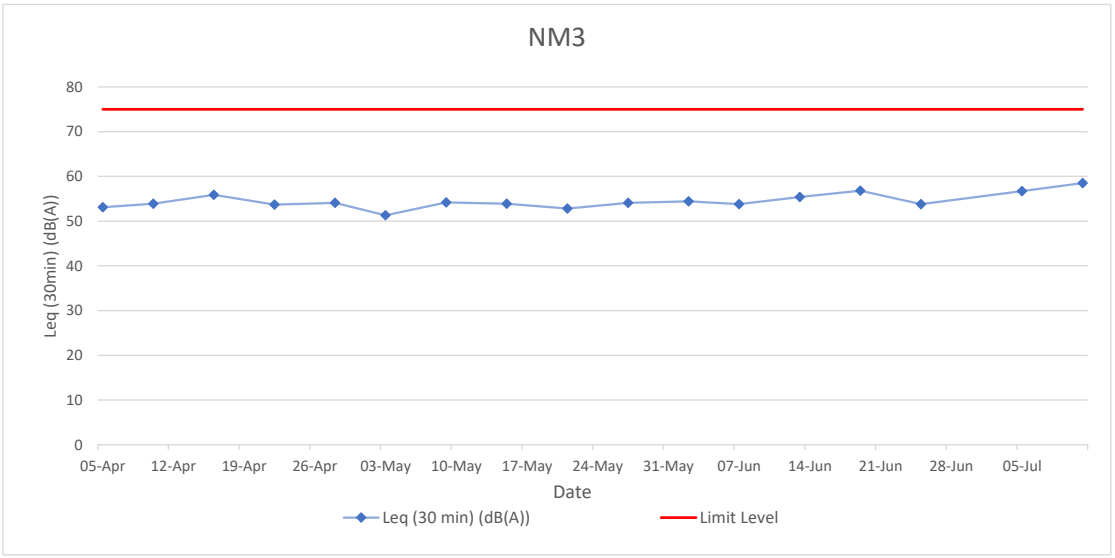
Appendix E - Monitoring Result (Noise)



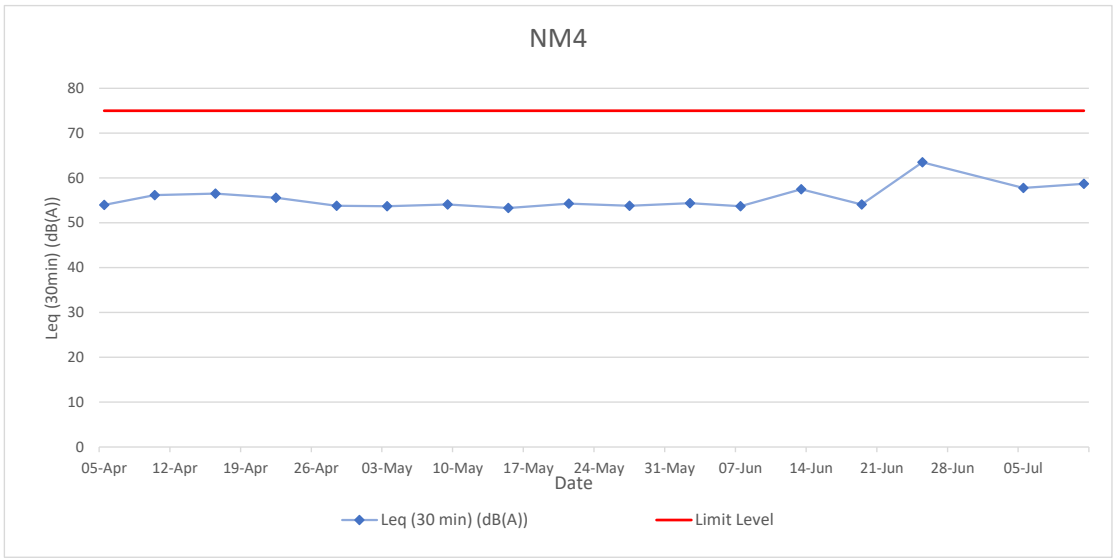
Note: +3dB for Free Field is added.



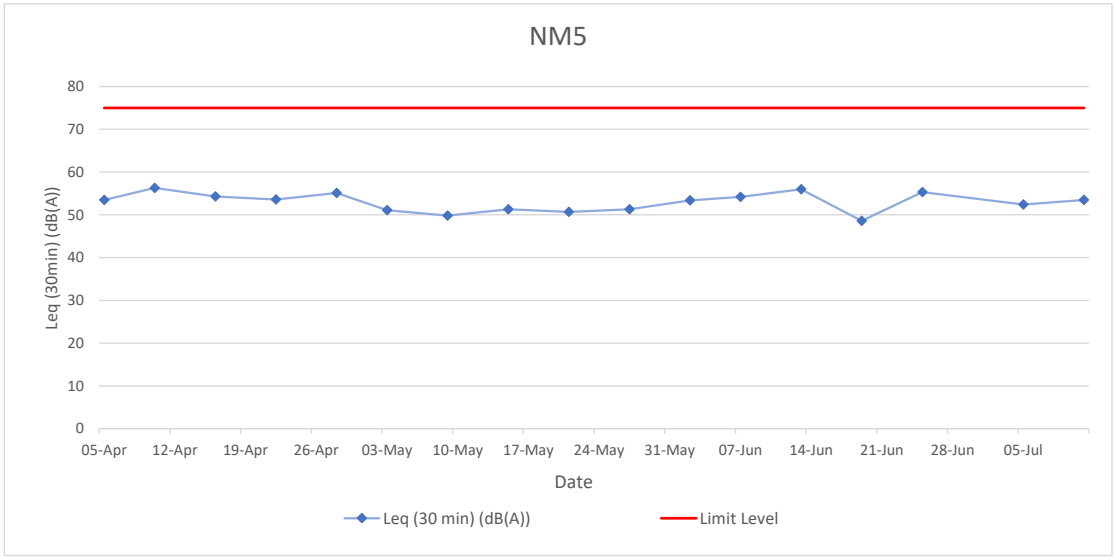
Note: +3dB for Free Field is added. Limit Level reduced to 70 dB(A) for schools.



Note: +3dB for Free Field is added.



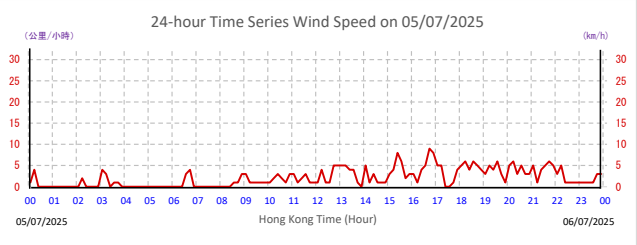
Note: +3dB for Free Field is added.

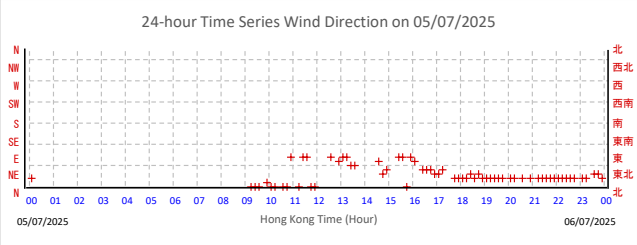


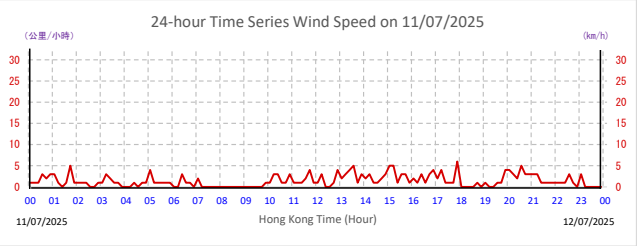
Note: +3dB for Free Field is added.

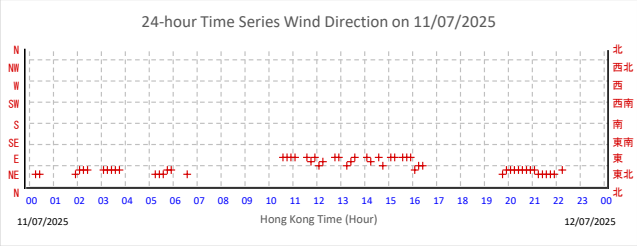
Appendix F Weather and Meteorological Conditions

Appendix F - Weather









Appendix G Event and Action Plan

Appendix G Event and Action Plan for Air Quality

EVENT	ACTION			
	ET Leader	**IEC**	**ER**	**CONTRACTOR**
Action Level				
Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures 2. Inform ER, IEC and Contractor 3. Repeat measurement to confirm finding 4. Increase monitoring frequency to daily	1. Check monitoring data submitted by ET 2. Check Contractor's working method	1. Notify Contractor	1.Rectify any unacceptable practice 2. Amend working methods if appropriate
Exceedance for two or more consecutive samples	1. Identify source, investigate the causes of exceedance and propose remedial measures 2. Inform ER, IEC and Contractor 3. Repeat measurements to confirm findings 4. Increase monitoring frequency to daily 5. Discuss with IEC and Contractor on remedial actions 6. If exceedance continues, arrange meeting with IEC and ER 7. If exceedance stops, cease additional monitoring	1. Checking monitoring data submitted by ET 2. Check Contractor's working method 3. Discuss with ET Leader and Contractor on possible remedial measures 4. Advise the ER on the effectiveness of the proposed remedial measures 5. Supervisor implementation of remedial measures	1. Confirm receipt of notification of failure in writing 2. Notify Contractor 3. Ensure remedial measures properly implemented	1. Submit proposals for remedial actions to IEC within 3 working days of notification 2. Implement the agreed proposals 3. Amend proposal if appropriate

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

Appendix G Event and Action Plan for Construction Noise Monitoring

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

Appendix G Event and Action Plan for Water Quality Monitoring

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
ACTION LEVEL				
Action level being exceeded by one sampling day	1.Identify source(s) of impact; 2.Inform IEC, contractor and ER; 3.Check monitoring data, all plant, equipment and Contractor's working methods; 4.Discuss mitigation measures with IEC and Contractor; and 5.Repeat measurement on next day of exceedance.	1.Discuss with ET and Contractor on the mitigation measures. 2.Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; and 3.Assess the effectiveness of the implemented mitigation measures.	1. Discuss with IEC on the proposed mitigation measures; and 2. Make agreement on the mitigation measures to be implemented.	1. Inform the ER and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice, if any; 3. Check all plant and equipment; 4. Consider changes of working methods; 5. Discuss with ET and IEC and propose mitigation measures; 6. Implement the agreed mitigation measures.
Action level being exceeded by two or more consecutive sampling days	1.Identify source(s) of impact; 2.Inform IEC, contractor and ER; 3.Check monitoring data, all plant, equipment and Contractor's working methods; 4.Discuss mitigation measures with IEC, ER and Contractor; 5.Ensure mitigation measures are implemented; 6.Prepare to increase the monitoring frequency to daily; 7.Repeat measurement on next day of exceedance.	1. Discuss with ET and Contractor on the mitigation measures. 2. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; and 3. Assess the effectiveness of the implemented mitigation measures.	1. Discuss with IEC on the proposed mitigation measures; and 2. Make agreement on the mitigation measures to be implemented. 3. Assess the effectiveness of the implemented mitigation measures.	1. Inform the ER and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment and 4. Consider changes of working methods; 5. Discuss with ET and IEC and propose mitigation measures to IEC and ER within 3 working days; 6. Implement the agreed mitigation measures.

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Limit Level				
Limit level being exceeded by one sampling day	1. Repeat measurement on next day of exceedance to confirm findings; 2. Identify source(s) of impact; 3. Inform IEC, contractor, ER and EPD; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Ensure mitigation measures are implemented; and 6. Discuss mitigation measures with IEC, ER and Contractor;	1. Check monitoring data submitted by ET and Contractor's working methods; 2. Discuss with ET and Contractor on possible mitigation measures; and 3. Review the proposed mitigation measures submitted by Contractor and advise the ER accordingly.	1. Confirm receipt of notification of failure in writing; 2. Discuss with IEC, ET and Contractor on the proposed mitigation; 3. Request Contractor to critically review the working methods; 4. Make agreement on mitigation measures to be implemented; and 5. Ensure mitigation measures are properly implemented.	1. Inform the ER and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment and consider changes of working methods; 4. Discuss with ET, IEC and ER and propose mitigation measures to ER and IEC within 3 working days; and 5. Implement the agreed mitigation measures.
Limit level being exceeded by two or more consecutive sampling days	1. Repeat measurement on next day of exceedance to confirm findings; 2. Identify source(s) of impact; 3. Inform IEC, contractor, ER and EPD; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC, ER and Contractor; 6. Ensure mitigation measures are implemented; and 7. Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days.	1. Check monitoring data submitted by ET and Contractor's working methods. 2. Discuss with ET and Contractor on possible mitigation measures; 3. Review the proposed mitigation measures submitted by Contractor and advise the ER accordingly; and 4. Supervise the implementation of mitigation measures.	1. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 2. Request Contractor to critically review the working methods; 3. Make agreement on the mitigation measures to be implemented; 4. Ensure mitigation measures are properly implemented; and 5. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until no exceedance of Limit level.	1. Inform the ER and confirm notification of the non-compliance in writing; 2. Take immediate action to avoid further exceedance; 3. Discuss with ET, IEC and ER and propose mitigation measures to ER and IEC within 3 working days; 4. Implement the agreed mitigation measures; 5. Resubmit proposals of mitigation measures if problem still not under control; and 6. As directed by the ER, to slow down or to stop all or part of the construction activities until no exceedance of Limit level.

Appendix H Waste Flow Table

Architectural Services Department	Form No. D/OI.03/09.002

Contract No. / Works Order No.: - **SSM518** **Final Submission** No

Monthly Summary Waste Flow Table for 2025 [year] [to be submitted not later than the 15th day of each month following reporting month]

(All quantities shall be rounded off to 3 decimal places.)

Month	Actual Quantities of Inert Construction Waste Generated Monthly				
	(a)=(b)+(c)+(d)+(e) Total Quantity Generated	(b) Broken Concrete (see Note 4)	(c) Reused in the Contract	(d) Reused in other Projects	(e) Disposed of as Public Fill
	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)
Jan	0.234	0.000	0.000	0.000	0.234
Feb	0.026	0.000	0.000	0.000	0.026
Mar	0.020	0.000	0.000	0.000	0.020
Apr	0.000	0.000	0.000	0.000	0.000
May	0.000	0.000	0.000	0.000	0.000
Jun	0.000	0.000	0.000	0.000	0.000
Sub-total	0.280	0.000	0.000	0.000	0.280
Jul	0.000	0.000	0.000	0.000	0.000
Aug					
Sep					
Oct					
Nov					
Dec					
Total	0.280	0.000	0.000	0.000	0.280

Month	Actual Quantities of Non-inert Construction Waste Generated Monthly												
	Timber		Metals		Paper/ cardboard packaging		Plastics (see Note 3)		Chemical Waste		Other Recyclable Materials _____ (pls. specify)		General Refuse disposed of at Landfill
	(in '000kg)		(in '000kg)		(in '000kg)		(in '000kg)		(in '000kg)		(in '000kg)		(in '000m^3)
	generated	recycled	generated	recycled	generated	recycled	generated	recycled	generated	recycled	generated	recycled	generated
Jan	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.956
Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.150
Mar	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.124
Apr	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.039
May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007
Jun	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Sub-total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.274
Jul	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Aug													
Sep													
Oct													
Nov													
Dec													
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.274

Notes:
(1) The performance targets are given in the Particular Specification on Environmental Management Plan.
(2) The waste flow table shall also include construction waste that are specified in the Contract to be imported for use at the site.
(3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
(4) Broken concrete for recycling into aggregates.
(5) If necessary, use the conversion factor: 1 full load of dumping truck being equivalent to 6.5 m^3 by volume.

Appendix I Summaries of Environmental Complaint Warning Summon and Notification of Successful Prosecution

Environmental Complaints Log

Complaint Log	Date of Complaint	Received from	Location	Details of Complaint	Outcome	Status
YPR-E001	11-Oct-2024	EPD	Construction Site at Yau Pok Road, Yuen Long (area facing Fairview Park)	投訴人投訴錦繡花園對面的簡約公屋地盤有工人施工及操作機械並發出噪音, 有工人於露天地方小便	A complaint was received via EPD's email (EPD File Ref.: N06-RN-00027658-24) on 16 October 2024 that noise was generated by CCRJV's workers and equipment on 11 October 2024. Open urination by workers was also reported. After investigation, the following activities were carried out on 11 October 2024: 1) Generator was operated for lighting in indoor MIC units and offices due to meetings and inspections 2) Water spraying was carried out for dust suppression and daily cleaning 3) Floor sweeping for daily general cleaning 4) Water pumps were operated to remove stagnant water to settlement tank for recycling use (e.g. water spaying) All these activities strictly complied with the conditions of CCRJV's Construction Noise Permit. Suspected workers of open urination were educated and warned to use toilets provided by CCRJV to maintain site hygiene and cleanliness.	Investigation result was provided to EPD on 21-Oct-2024, and EPD has no comment on it.

Complaint Log	Date of Complaint	Received from	Location	Details of Complaint	Outcome	Status
YPR-E002	6-Nov-2024	EPD	Construction Site at Yau Pok Road, Yuen Long (along Fairview Park)	投訴人投訴攸壆路簡約公屋地盤近日有大量泥水流到攸壆路，造成污染及嚴重滋擾駕駛人士，要求跟進及回覆。	A complaint was received via EPD's email (EPD File Ref.: N06/RN/00030712-24) on 8 November 2024 that leakage of muddy water from construction site to Yau Pok Road on 6 November 2024. After investigation, the following activities were carried out on 6 November 2024: 1) Concreting 2) Loading and unloading of materials A site inspection was conducted by ET and the contractor on 8 November 2024. ET has surveyed the construction site, noting that no direct discharge of muddy water from the site to Yau Pok Road and the surrounding area was observed.	Investigation result was submitted to EPD on 13-Dec-2024, and EPD has no comment on it.
YPR-E003	6-Nov-2024	EPD	Construction Site at Yau Pok Road, Yuen Long (area facing Fairview Park)	投訴人在 6/11 22:32 留言投訴錦繡花園出面的簡約公屋地盤仍然開工中，開動掘泥機，造成噪音滋擾，要求儘快跟進及回覆。	A complaint was received via EPD's email (EPD File Ref.: N06/RN/00030712-24) on 8 November 2024 stating that noise was generated by the operating excavator at night (22:32) on 6 November 2024. In accordance with the information provided by the Contractor, no construction works were scheduled to proceed after 19:00 on 6 November 2024. The contractor was recommended to implement the mitigation measures and good site practices. • Ensure that all frontline workers are fully aware of and adhere to the restricted working hours under NCO and CNP; • Offer training sessions for frontline workers on best practices for noise control and compliance with CNP; and • Schedule noisy activities during non-restricted hours to avoid disruptions to nearby residents.	Investigation result was submitted to EPD on 13-Dec-2024, and EPD has no comment on it.

Complaint Log	Date of Complaint	Received from	Location	Details of Complaint	Outcome	Status
YPR-E004	3-Nov-2024	EPD	Construction Site at Yau Pok Road, Yuen Long (area facing Fairview Park)	Two excavators were operated on Nov 3 (sunday). Videos were taken on 8:21 am - 10:41 am. The work was continued in the afternoon but I didn't take video.	A complaint was received via EPD's email (EPD File Ref.: N06/RN/00031635-24) on 18 November 2024 stating that noise was generated by the operating excavator on 3 November 2024 (Sunday). In accordance with the information provided by the Contractor, no construction works were scheduled to proceed on 3 November 2024. The contractor was recommended to implement the mitigation measures and good site practices. • Ensure that all frontline workers are fully aware of and adhere to the restricted working hours under NCO and CNP; • Offer training sessions for frontline workers on best practices for noise control and compliance with CNP; and • Schedule noisy activities during non-restricted hours to avoid disruptions to nearby residents.	Investigation result was submitted to EPD on 13-Dec-2024, and EPD has no comment on it.

Appendix J Summary of Observations and Findings made in Site Audit and Inspection in the Reporting Period

Summary of Site Audit in Reporting Month

Parameter	Date	Observations and Reminders
Air Quality	N/A	No particular observation
Noise	N/A	No particular observation
Water Quality	N/A	No particular observation
Chemical and Waste Management	N/A	No particular observation
Ecology	N/A	No particular observation
Landscape and Visual	N/A	No particular observation
Permits/ Licences	N/A	No particular observation

Appendix K Notification of Exceedance (Not used)

Appendix L Implementation Status of Environment Mitigation Measures

EM&A Log Ref.	PP (2023) / EIA (2014)[1]	Recommended Environmental Protection Measures/ Mitigation Measures in Construction Phase	Objectives of the recommended measures & main concerns to address	Implementation Status
Air Quality				
A1	PP: 6.2.1 EIA: 3.9.1	Dust and gaseous emissions mitigation measures as stipulated in the Air Pollution Control (Construction Dust) Regulation, Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation and Air Pollution Control (Fuel Restriction) Regulation;	Air Pollution (Construction Dust) Regulation, Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation, Air Pollution (Fuel Restriction) Regulation	✓
A2	PP: 6.2.1 EIA: 3.9.1	The designated haul road should be hard paved to minimize fugitive dust emission;	Air Pollution (Construction Dust) Regulation	✓
A3	PP: 6.2.1 EIA: 3.9.1	During the site formation works, the active works areas should be water sprayed with water browser or sprayed manually hourly during construction period. The Contractor should ensure that the amount of water spraying is just enough to dampen the exposed surfaces without over-watering which could result in surface water runoff;	Air Pollution (Construction Dust) Regulation	✓
A4	PP: 6.2.1 EIA: 3.9.1	Dump trucks for transporting dusty materials should be totally enclosed using impervious sheeting;	Air Pollution (Construction Dust) Regulation	✓
A5	PP: 6.2.1 EIA: 3.9.1	Any excavated dusty materials or stockpile of dusty materials should be covered entirely by impervious sheeting or sprayed with water so as to maintain the entire surface wet, and recovered or backfilled or reinstated as soon as possible;	Air Pollution (Construction Dust) Regulation	✓
A6	PP: 6.2.1 EIA: 3.9.1	Dusty materials remaining after a stockpile is removed should be wetted with water;	Air Pollution (Construction Dust) Regulation	✓
A7	PP: 6.2.1 EIA: 3.9.1	The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with e.g. concrete, bituminous materials or hardcore or similar;	Air Pollution (Construction Dust) Regulation	✓
A8	PP: 6.2.1 EIA: 3.9.1	The Contractor shall only transport adequate amount of fill materials to the Project Site to minimize stockpiling of fill materials on-site, thus reducing fugitive dust emission due to wind erosion;	Air Pollution (Construction Dust) Regulation	✓
A9	PP: 6.2.1 EIA: 3.9.1	Should temporary stockpiling of dusty materials be required, it shall be either covered entirely by impervious sheeting, placed in an area sheltered on the top and the 3 sides; or sprayed with water so as to maintain the entire surface wet;	Air Pollution (Construction Dust) Regulation	✓
A10	PP: 6.2.1 EIA: 3.9.1	All dusty materials shall be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty material wet;	Air Pollution (Construction Dust) Regulation	✓

[1] PP (2023) = approved Project Profile (PP-652/2023); EIA (2014) = approved EIA Report (AEIAR-182/2014)

EM&A Log Ref.	PP (2023) / EIA (2014)[1]	Recommended Environmental Protection Measures/ Mitigation Measures in Construction Phase	Objectives of the recommended measures & main concerns to address	Implementation Status
A11	PP: 6.2.1 EIA: 3.9.1	Vehicle speed to be limited to 10 kph except on completed access roads;	Air Pollution (Construction Dust) Regulation	✓
A12	PP: 6.2.1 EIA: 3.9.1	The portion of road leading only to a construction site that is within 30 m of a designated vehicle entrance or exit should be kept clear of dusty materials;	Air Pollution (Construction Dust) Regulation	✓
A13	PP: 6.2.1 EIA: 3.9.1	Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites;	Air Pollution (Construction Dust) Regulation	✓
A14	PP: 6.2.1 EIA: 3.9.1	The load of dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle;	Air Pollution (Construction Dust) Regulation	✓
A15	PP: 6.2.1 EIA: 3.9.1	The working area of excavation should be sprayed with water immediately before, during and immediately after (as necessary) the operations so as to maintain the entire surface wet;	Air Pollution (Construction Dust) Regulation	✓
A16	PP: 6.2.1 EIA: 3.9.1	Use of effective dust screens, sheeting or netting to be provided to enclose dry scaffolding which may be provided from the ground floor level of the building or if a canopy is provided at the first floor level, from the first floor level, up to the highest level (maximum three floors high for this Project) of the scaffolding where scaffolding is erected around the perimeter of a building under construction; and	Air Pollution (Construction Dust) Regulation	✓
A17	PP: 6.2.1	Electric power supply shall be provided for on-site machinery as far as practicable.	Air Pollution (Construction Dust) Regulation	✓
Noise				
N1	PP: 6.3.1-6.3.4 EIA: 4.8.1	Adoption of quieter construction method;	Noise control	✓
N2	PP: 6.3.1-6.3.4 EIA: 4.8.1	Use of QPMEs;	Noise control	✓
N3	PP: 6.3.1-6.3.4 EIA: 4.8.2, 4.8.3	Use of movable noise barriers and noise enclosure;	Noise control	✓
N4	PP: 6.3.1-6.3.4 EIA: 4.8.4	Scheduling of works; and	Noise control	✓

EM&A Log Ref.	PP (2023) / EIA (2014)[1]	Recommended Environmental Protection Measures/ Mitigation Measures in Construction Phase	Objectives of the recommended measures & main concerns to address	Implementation Status
N5	PP: 6.3.1-6.3.4 EIA: 4.8.4	Implementation of good site practices and noise management.	Noise control	✓
Water Quality				
W1	PP: 6.4.1 EIA: 5.6.1.1	High loading of suspended solids (SS) in construction site runoff shall be prevented through proper site management;	Stormwater and Non-point Source Pollution Control, ProPECC PN2/23	✓
W2	PP: 6.4.1 EIA: 5.6.1.1	The boundary of critical work areas shall be surrounded by ditches or embankment;	Stormwater and Non-point Source Pollution Control, ProPECC PN2/23	✓
W3	PP: 6.4.1 EIA: 5.6.1.1	Accidental release of soil or refuse into the adjoining land should be prevented by the provision of site earth bunds, etc. at the Project Site boundary. These facilities should be constructed in advance of site formation works and roadworks;	Stormwater and Non-point Source Pollution Control, ProPECC PN2/23	✓
W4	PP: 6.4.1 EIA: 5.6.1.1	Consideration should be given to plan construction activities to allow the use of natural topography of the PS as a barrier to minimize uncontrolled non-point source discharge of construction site runoff;	Stormwater and Non-point Source Pollution Control, ProPECC PN2/23	✓
W5	PP: 6.4.1 EIA: 5.6.1.1	Temporary ditches, earth bunds should be provided to facilitate directed and controlled discharge of runoff into storm drains via sand/ silt removal facilities such as sand traps, silt traps and sediment retention basin. Oil and grease removal facilities should also be provided where appropriate, for example, in area near plant workshop/ maintenance areas;	Stormwater and Non-point Source Pollution Control, ProPECC PN2/23	✓
W6	PP: 6.4.1 EIA: 5.6.1.1	Sand and silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly, and at the onset of and after each rainstorm to ensure that these facilities area functioning properly;	Stormwater and Non-point Source Pollution Control, ProPECC PN2/23	✓
W7	PP: 6.4.1 EIA: 5.6.1.1	Slope exposure should be minimized where practicable especially during the wet season. Exposed soil surfaces should be protected from rainfall through covering temporarily exposed slope surfaces or stockpiles with tarpaulin or the like;	Stormwater and Non-point Source Pollution Control, ProPECC PN2/23	✓
W8	PP: 6.4.1 EIA: 5.6.1.1	Haul roads should be protected by crushed rock, gravel or other granular materials to minimize discharge of contaminated runoff;	Stormwater and Non-point Source Pollution Control, ProPECC PN2/23	✓
W9	PP: 6.4.1 EIA: 5.6.1.1	Slow down water run-off flowing across exposed soil surfaces;	Stormwater and Non-point Source Pollution Control, ProPECC PN2/23	✓
W10	PP: 6.4.1 EIA: 5.6.1.1	Plant workshop/ maintenance areas should be bunded and constructed on a hard standing. Sediment traps and oil interceptors should be provided at appropriate locations;	Stormwater and Non-point Source Pollution Control, ProPECC PN2/23	✓
W11	PP: 6.4.1 EIA: 5.6.1.1	Manholes (including newly constructed ones) should be adequately covered or temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system;	Stormwater and Non-point Source Pollution Control, ProPECC PN2/23	✓

EM&A Log Ref.	PP (2023) / EIA (2014)[1]	Recommended Environmental Protection Measures/ Mitigation Measures in Construction Phase	Objectives of the recommended measures & main concerns to address	Implementation Status
W12	PP: 6.4.1 EIA: 5.6.1.1	Construction works should be programmed to minimize soil excavation works where practicable during rainy conditions;	Stormwater and Non-point Source Pollution Control, ProPECC PN2/23	✓
W13	PP: 6.4.1 EIA: 5.6.1.1	Chemical stores should be contained (bunded) to prevent any spills from contact with water bodies. All fuel tanks and/ or storage areas should be provided with locks and be sited on hard surface;	Stormwater and Non-point Source Pollution Control, ProPECC PN2/23	✓
W14	PP: 6.4.1EIA: 5.6.1.1	Chemical waste arising from the Project Site should be properly stored, handled, treated and disposed of in compliance with the requirements stipulated under the Waste Disposal (Chemical Waste) (General) Regulation;	Stormwater and Non-point Source Pollution Control, ProPECC PN2/23	✓
W15	PP: 6.4.1 EIA: 5.6.1.1	Drainage facilities must be adequate for the controlled release of storm flows;	Stormwater and Non-point Source Pollution Control, ProPECC PN2/23	✓
W16	PP: 6.4.1 EIA: 5.6.1.1	Appropriate peripheral drainage system shall be constructed along the Project Site boundary to divert away surface runoff in accordance with requirements stipulated in ProPECC PN 2/23 to collect surface runoff and discharge it into the nearby existing stormwater drains nearby roadside of Yau Pok Road, and via which into the existing NTMDC;	Stormwater and Non-point Source Pollution Control, ProPECC PN2/23	✓
W17	PP: 6.4.1 EIA: 5.6.1.1	Temporary drains, sedimentation basins, sand traps and similar facilities shall be provided during the construction works in accordance with the ProPECC PN 2/23; and	Stormwater and Non-point Source Pollution Control, ProPECC PN2/23	✓
W18	PP: 6.4.1 EIA: 5.6.1.1	The Contractor shall apply for a discharge licence under the WPCO and the discharge shall comply with the terms and conditions of the licence;	Stormwater and Non-point Source Pollution Control, ProPECC PN2/23	✓
W19	PP: 6.4.1 EIA: 5.6.1.2	Sewage generated from the construction workforce should be contained in chemical toilets before connection to public foul sewer becomes available. Chemical toilets should be provided at a minimum rate of about 1 per 50 workers. The facility should be serviced and cleaned by a specialist contractor at regular intervals;	Stormwater and Non-point Source Pollution Control, ProPECC PN2/23	✓
W20	PP: 6.4.1 EIA: 5.6.1.2	Vehicle wheel washing facilities should be provided at the site exit such that mud, debris, etc. deposited onto the vehicle wheels or body can be washed off before the vehicles are leaving the site area;	Stormwater and Non-point Source Pollution Control, ProPECC PN2/23	✓
W21	PP: 6.4.1 EIA: 5.6.1.2	Section of the 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;	Stormwater and Non-point Source Pollution Control, ProPECC PN2/23	✓

EM&A Log Ref.	PP (2023) / EIA (2014)[1]	Recommended Environmental Protection Measures/ Mitigation Measures in Construction Phase	Objectives of the recommended measures & main concerns to address	Implementation Status
W22	PP: 6.4.1 EIA: 5.6.1.2	Although use of bentonite in diaphragm wall and bore-pile construction is not expected, in case bentonite slurries is generated it should be reconditioned and reused as far as practicable;	Stormwater and Non-point Source Pollution Control, ProPECC PN2/23	✓
W23	PP: 6.4.1 EIA: 5.6.1.2	Spent bentonite should be kept in a separate slurry collection system for disposal at a marine spoil grounds subject to obtaining a marine dumping licence from EPD. If used bentonite slurry is to be disposed of through public drainage system, it should be treated to meet the respective applicable effluent standards for discharges into sewers, storm drains or the receiving waters; and	Stormwater and Non-point Source Pollution Control, ProPECC PN2/23	✓
W24	PP: 6.4.1 EIA: 5.6.1.3	Spillage of fuel oils or other polluting fluids should be prevented at source. It is recommended that all stocks should be stored inside proper containers and sited on sealed areas, preferably surrounded by bunds.	Stormwater and Non-point Source Pollution Control, ProPECC PN2/23	✓
Ecology				
E1	PP: 6.5.1 – 6.5.3 EIA: 8.8	Plan construction sequence carefully to minimise site formation in the northeastern corner of the PS where it abuts the temporary ponds in YMST in peak wintering season for migratory birds (i.e. October - March);	Avoidance of disturbance	✓
E2	PP: 6.5.1 – 6.5.3 EIA: 8.8	Provide screening / barriers along the Project Site boundary to reduce the visual disturbance arising from the construction activities to nearby habitats such as NTMDC and the temporary ponds in YMST;	Avoidance of disturbance	✓
E3	PP: 6.5.1 – 6.5.3 EIA: 8.8	Demarcate the construction site clearly and regularly check the boundaries to ensure that they are not breached;	Avoidance of disturbance	✓
E4	PP: 6.5.1 – 6.5.3 EIA: 8.8	Brief site workers and other staff the sensitivity of the surrounding areas before commencement of the works, and instruct them not to disturb any areas nearby;	Avoidance of disturbance	✓
E5	PP: 6.5.1 – 6.5.3 EIA: 8.8	Use quiet PME and movable noise barriers wherever necessary;	Avoidance of disturbance	✓
E6	PP: 6.5.1 – 6.5.3 EIA: 8.8	Phasing of construction activities to minimise concurrent operation of PME;	Avoidance of disturbance	✓
E7	PP: 6.5.1 – 6.5.3 EIA: 8.8– 6.5.3	Use only well-maintained plant on-site.	Avoidance of disturbance	✓
E8	PP: 6.5.1 – 6.5.3 EIA: 8.8	Ensure the plant to be serviced regularly during the construction program;	Avoidance of disturbance	✓
E9	PP: 6.5.1 – 6.5.3 EIA: 8.8	Machines and plant (such as trucks) that may be in intermittent use to be shut down between work periods or to be throttled down to a minimum;	Avoidance of disturbance	✓

EM&A Log Ref.	PP (2023) / EIA (2014)[1]	Recommended Environmental Protection Measures/ Mitigation Measures in Construction Phase	Objectives of the recommended measures & main concerns to address	Implementation Status
E10	PP: 6.5.1 – 6.5.3 EIA: 8.8	Plant known to emit noise strongly in one direction to be, wherever possible, orientated so that the noise is directed away from the NTMDC and the wetlands in YMST project;	Avoidance of disturbance	✓
E11	PP: 6.5.1 – 6.5.3 EIA: 8.8	Material stockpiles and other structures to be effectively utilized, wherever practicable, in screening noise from on-site construction activities	Avoidance of disturbance	✓
E12	PP: 6.5.1 – 6.5.3 EIA: 8.8	Comply with NCO and implement general good site practices;	Avoidance of disturbance	✓
E13	PP: 6.5.1 – 6.5.3 EIA: 8.8	Implement dust control measures e.g. hard paving of the haul road, frequent watering, covering dusty materials, careful site formation scheduling etc.;	Avoidance of disturbance	✓
E14	PP: 6.5.1 – 6.5.3 EIA: 8.8	Controlled wastewater discharge to the nearby water bodies in accordance with the guidelines stipulated in EPD's ProPECC PN2/23 to properly control site run-off and drainage and to minimise the potential water quality impact;	Avoidance of disturbance	✓
E15	PP: 6.5.1 – 6.5.3 EIA: 8.8	Provide a properly designed temporary drainage system within the construction site to direct discharge away from the watercourses downstream to nearby drainage channel. The drainage system will be equipped with sand/silt removal facilities to treat the surface runoff;	Avoidance of disturbance	✓
E16	PP: 6.5.1 – 6.5.3 EIA: 8.8	Provide portable chemical toilets for site workers. Ensure that chemical toilets are used and properly maintained, and that licensed contractors are employed to collect and dispose of the waste off-site at approved locations;	Avoidance of disturbance	✓
E17	PP: 6.5.1 – 6.5.3 EIA: 8.8	Implementation of measures to minimise magnitude of construction runoff and to avoid/ minimise the potential impact of spillage events, if any;	Avoidance of disturbance	✓
E18	PP: 6.5.1 – 6.5.3 EIA: 8.8	Excavated materials will be covered and/or properly disposed of as soon as possible to avoid being washed into nearby water bodies; and	Avoidance of disturbance	✓
E19	PP: 6.5.1 – 6.5.3 EIA: 8.8	Other mitigation measures proposed for potential impacts on water quality for this Project.	Avoidance of disturbance	✓
Landscape and Visual				
LV1	PP: 6.6.1 EIA: 11.10.1	Proper protection of existing trees designated to retained in-situ;	Avoid impacts on adjacent landscape	✓
LV2	PP: 6.6.1 EIA: 11.10.1	Optimisations of construction areas and providing temporary landscape on temporary construction;	Avoid impacts on adjacent landscape	✓
LV3	PP: 6.6.1 EIA: 11.10.1	Preservation of marsh and reedbed;	Avoid impacts on adjacent landscape	✓

EM&A Log Ref.	PP (2023) / EIA (2014)[1]	Recommended Environmental Protection Measures/ Mitigation Measures in Construction Phase	Objectives of the recommended measures & main concerns to address	Implementation Status
LV4	PP: 6.6.1 EIA: 11.10.1	Define works area and temporary works area to minimise the extent of construction works area and its residual impacts during construction;	Avoid impacts on adjacent landscape	✓
LV5	PP: 6.6.1 EIA: 11.10.1	Protection of watercourse/ channels of higher ecological value;	Avoid impacts on adjacent landscape	✓
LV6	PP: 6.6.1 EIA: 11.10.1	Good site practice should be adopted to minimize landscape and visual impact, for example to adopt suitable height and design of temporary barriers / noise barrier to help blend in with the surrounding environment, retention of existing trees as screen planting, control of night-time lighting by hooding all lights, and reduction of construction period to practical minimum.	Avoid impacts on adjacent landscape	✓
Cultural Heritage				
CH1	PP 6.7.2	As a precautionary measure, the Antiquities and Monuments Office (AMO) should be informed immediately in case of discovery of antiquities or supposed antiquities in the course of works, so that appropriate mitigation measures, if needed, can be timely formulated and implemented in agreement with AMO.	Preserve any terrestrial archaeology or built heritage resources.	N/A
Waste Management				
WM1	PP: 6.8.1-6.8.5 EIA: 7.5	All C&D materials generated should be sorted into different categories on-site for recycling and reuse as fill materials as far as practicable prior to disposal at public filling reception facilities and landfills. To prohibit illegal dumping and landfilling of C&D materials, the dump trucks engaged on site should be equipped with GPS or equivalent automatic system for real time tracking and monitoring of their travel routings, parking locations and disposal activities.	Waste management	✓
WM2	PP: 6.8.1-6.8.5 EIA: 7.5	Chemical wastes should be handled, stored and disposed of properly and in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Waste management, ProPECC PN2/23, Water Pollution Control Ordinance	✓
WM3	PP: 6.8.1-6.8.5 EIA: 7.4.5	General refuse should be stored in enclosed bins or compaction units. A reputable waste collector should be employed by the contractor to remove general refuse from the Project Site on a daily basis or every other day to minimise odour, pest and litter impacts.	Waste management, Air Pollution Control (Open Burning) Regulation	✓