

Agreement No. CE 30/2018 (EP) Environmental Team for Kai Tak Sports Park – Design and Construction

Monthly EM&A Report for August 2024

September 2024

Culture, Sports and Tourism Bureau & Recreation Branch Kai Tak Sports Park Section Room 2307-2310, 23/F, Skyline Tower, 39 Wang Kwong Road, Kowloon Bay Kai Tak, Kowloon

Agreement No. CE 30/2018 (EP) Environmental Team for Kai Tak Sports Park – Design and Construction

Monthly EM&A Report for August 2024

September 2024





Environmental Permit No. EP-544/2017

Kai Tak Sports Park - Investigation

Independent Environmental Checker Verification

Reference Document/Plan	
Document/Plan to be-Certified/ Verified:	Monthly EM&A Report No. 65 (August 2024)
Date of Report:	13 September 2024
Date received by IEC:	13 September 2024

Reference EP Condition

Environmental Permit Condition:

Three hard copies and one electronic copy of the monthly EM&A Report shall be submitted to the Director within 10 working days after the end of each reporting month. The monthly EM&A Reports shall include a summary of all non-compliance with the recommendations in the approved EIA Report (Register No. AEIAR-204/2017) or this Permit. The submissions shall be certified by the ET Leader and verified by the IEC as complying with the requirements as set out in the EM&A Manual before submission to the Director. Additional copies of submission shall be provided upon request by the Director.

3.4

IEC Verification

I hereby verify that the above referenced document/plan complies with the above referenced condition of EP-544/2017.

Mandy 20.

Ms Mandy To Independent Environmental Checker

Date:

13 September 2024

Our ref: 0500384_IEC Verification Cert_KTSP_Monthly EM&A Rpt No.65.docx





Environmental Permit No. EP- 544/2017

Kai Tak Sports Park – Investigation

Environmental Team Leader Certification

Reference Document / Plan

Document/ Plan to be Certified:	Monthly EM&A Report for August 2024
Date of Report:	13 September 2024
Date received by ETL:	13 September 2024

Reference EP Condition

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ETL Certification

I hereby certify that the above reference document complies with the above referenced condition of EP-544/2017.

Sung Chan

Mr Sunny Chan Environmental Team Leader

Date: 13 September 2024

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Executive summary

The Project – hereby meaning the Designated Project (Items O.6 and O.7 Part I, Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO)), comprising the "Kai Tak Sports Park" (KTSP) project and the Hotel and Office (H/O) Development of NKIL 6607 adjoining the KTSP – is located in the Kai Tak Development (KTD) area in Kowloon.

An EIA Report for the Project (Register No. AEIAR-204/2017) was approved by the Environmental Protection Department (EPD) on 6 January 2017. The current Environmental Permit (EP) for the Project, namely No. EP-544/2017, was issued on 8 September 2017. These documents are available through the EIA Ordinance Register. The Project construction works commenced on 8 April 2019.

In February 2019, Mott MacDonald Hong Kong Limited was appointed by the Home Affairs Bureau (HAB), as the Environmental Team (ET) to implement the Environmental Monitoring & Audit (EM&A) programme for the construction phase and first year of operation of the Project in accordance with the approved EM&A Manual.

In July 2022, Home Affairs Bureau (HAB) has been reorganized as Culture, Sports and Tourism Bureau (CSTB).

This is the 65th Monthly EM&A Report for the construction phase of the Project which summaries findings of the EM&A programme during the reporting period from 1 to 31 August 2024.

Key Construction Works in the Reporting Period

A summary of construction activities undertaken during the reporting period is presented below:

KTSP

- Mobilization and lifting;
- Concreting;
- Excavation; and

• Landscape work.

- **H/O Development**
- Excavation;
- Concreting; and
- Landscape work.

Environmental Monitoring and Audit Progress

The monthly EM&A programme was undertaken by ET in accordance with the approved EM&A Manual. A summary of the monitoring activities during the reporting period is presented below:

Activity	Monitoring Locations	Date
Air Quality Monitoring (1-hour TSP)	AMS1-T, AMS1-T2*, AMS2, AMS4	1, 7, 13*, 19*, 23*, 29* Aug 2024
Noise Monitoring (L _{eq (30 min)})	NMS1-T, NMS1-T2*, NMS2, NMS4	1, 7, 13*, 19*, 29* Aug 2024
Weekly environmental site inspections	-	7, 14, 21, 27 Aug 2024
Landscape and visual site inspections	-	7, 21 Aug 2024

*Note:

During the reporting period, temporary impact monitoring stations, AMS1-T and NMS1-T, were no longer accessible from 13 August 2024, due to the relocation of the Agriculture, Fisheries and Conservation Department Kowloon Animal Management Centre. Alternative temporary air quality and noise impact monitoring stations, AMS1-T2 and NMS1-T2, were proposed by ET and agreed by IEC on 9 August 2024 and further approved by EPD on 28 August 2024 for conducting impact monitoring during the reporting period. The details of temporary monitoring stations are described in Section 2 and Section 3 respectively.

Breaches of Action and Limit Levels

Air Quality

There was no breach of Action or Limit Levels for air quality (1-hr TSP) during the reporting month.

Noise

No Action Levels exceedance for noise level was recorded during the reporting month.

Three Limit Levels exceedance for noise levels were recorded at NMS1-T2 during the reporting month. Exceedance investigations were conducted and summarised in **Appendix M**.

Complaint Log

There was no complaint in relation to the environmental impact received during the reporting month.

Notifications of Summons and Successful Prosecutions

There were no notifications of summons or prosecutions received during this reporting period.

Reporting Changes

There was no reporting change during the reporting period.

Future Key Issues

The future key issues to be undertaken in the upcoming month are:

KTSP

- Mobilization and lifting;
- Concreting;
- Excavation; and
- Landscape work.

H/O Development

- Concreting; and
- Landscape work.

1 Introduction

1.1 Background

The Project – hereby meaning the Designated Project (Items O.6 and O.7 Part I, Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO)), comprising the "Kai Tak Sports Park" (KTSP) project and the Hotel and Office (H/O) Development of NKIL 6607 adjoining the KTSP – is located in the Kai Tak Development (KTD) area in Kowloon.

The key construction works of the Project include:

(i) KTSP project

- a. a multi-purpose Main Stadium with a spectator capacity of around 50,000;
- b. a Public Sports Ground, with a spectator capacity of around 5,000;
- c. an Indoor Sports Centre with a multi-purpose main arena with a seating capacity of up to 10,000 and an ancillary sports hall with a seating capacity of 500;
- retail and dining outlets with a gross floor area (GFA) of about 57,000 square metres (m²), a bowling centre with 40 lanes and a health and wellness centre with about 2,500 m² GFA;
- e. more than 8 hectares of public open space including landscaped deck structures across Shing Kai Road, passive amenities and park features, outdoor ball courts; and
- f. ancillary facilities such as car parks, toilets, changing rooms, etc.

(ii) H/O Development

- g. an office development;
- h. a 300-room hotel with a GFA of about 16,000 m²; and
- i. ancillary facilities such as retails, car parks, etc.

In February 2019, Mott MacDonald Hong Kong Limited (MMHK) was commissioned by the Home Affairs Bureau (HAB) under Agreement No. CE 30/2018 (EP) to undertake the Environmental Team (ET) services for carrying out the Environmental Monitoring & Audit (EM&A) programme during the construction phase and first year of operation of the Project in accordance with the approved Environmental Impact Assessment (EIA) Report (Register No.: AEIAR-204/2017), EM&A Manual (including any subsequent amendments) and EP (including any subsequent variations of it and/or any further environmental permit issued under the EIAO). The current EP (No. EP-544/2017) was issued by EPD on 8 September 2017.

In July 2022, Home Affairs Bureau (HAB) has been reorganized as Culture, Sports and Tourism Bureau (CSTB).

This is the 65th Monthly EM&A Report summarising the key findings of the construction phase EM&A programme from 1 to 31 August 2024 (the "reporting period") and is submitted to fulfil Condition 3.4 of the EP.

1.2 **Project Organisation**

The organisation chart and lines of communication with respect to the on-site environmental management structure of the key personnel are shown in <u>Appendix A</u>. The key personnel contact names and numbers are summarized in **Table 1.1**.

Party	Position	Name	Telephone	Fax	
Project Proponent (Culture, Sports	Project Director (Sports Park)	Edwin Wong (till 11 Aug 2024)	3586 3403	3586 0591	
and Tourism Bureau)		Lilian Cheung (from 12 Aug 2024)			
Supervising Officer's Representative (Culture, Sports and Tourism Bureau)	Senior Engineer	Keith Man	3586 3149	3586 0591	
Environmental Team	Environmental Team Leader	Sunny Chan	2828 5962	2827 1823	
(Mott MacDonald Hong Kong Limited)	Deputy Environmental Team Leader	Ken Wong	2828 5757	2827 1823	
Independent Environmental Checker (ERM Hong Kong Limited)	Independent Environmental Checker	Mandy To	2271 3000	3015 8052	
Contracted Party (Kai Tak Sports	Assistant Contract Manager	Eric Chung	3552 5003	2845 9295	
Park Limited)	Environmental Officer	Gary Yim	3552 5013	3552 5099	
Hotel and Office De	velopment				
Project Manager (Sanon Limited)	Senior Group Project Director	David Lee	2910 8368	2815 9949	
	Project Manager	William Chan	2910 8363	2815 9949	
Project Architect (P&T Architects & Engineers Limited)	Project Architect	Patrick Chan	2832 7205	-	
Contractor (Hip Hing Construction Co., Ltd.	Project Manager	Michael Wong	9671 9952	-	
24-hour Community Liaison Hotline	-	-	5587 6112	-	

Table 1.1: Contact Information of Key Personnel

1.3 Works Area and Construction Programme

The construction works commenced on 8 April 2019. The works area of the Project is shown in **Appendix B**. The Construction Works Programme of the Project is provided in **Appendix C**.

1.4 Construction Works undertaken during the Reporting Period

A summary of construction activities undertaken during this reporting period is presented below:

KTSP

- Mobilization and lifting;
- Concreting;
- Excavation; and
- Landscape work.

H/O Development

- Excavation;
- Concreting; and
- Landscape work.

2 Air Quality Monitoring

2.1 Introduction

In accordance with the EM&A Manual of the Project, baseline 1-hour Total Suspended Particulates (TSP) levels at air quality monitoring stations AMS1 and AMS2 were established. Impact 1-hour TSP monitoring was conducted for at least three times every 6 days.

2.2 Monitoring Parameters, Frequency and Duration

Table 2.1 summarises the monitoring parameters, frequency and duration of impact air quality monitoring.

Table 2.1: Air Quality Monitoring Parameters, Frequency and Duration

Parameter	Frequency and Duration
1-hour TSP	3 times every six-days

2.3 Monitoring Locations

According to the EM&A Manual, a total of five air quality monitoring stations are identified for impact monitoring. Of these, two air sensitive receivers (AMS3 and AMS5) are planned residential use and were not available for baseline monitoring; the same two are also currently not available for impact monitoring.

Table 2.2 describes the impact air quality monitoring stations and **Figure 2.1** shows their locations.

Table 2.2: Construction Dust Monitoring Locations

Monitoring Station	Location	Status
AMS1	Hong Kong Society for the Blind Workshop, Roof Floor	Existing Air Sensitive Receiver (not accessible from 1 September 2022)
AMS2	Sky Tower, Podium of Tower 7	Existing Air Sensitive Receiver
AMS4	Retail Building in front of The Henley, Rooftop	Existing Air Sensitive Receiver
AMS3	Kai Tak Area 2B Site 4 (2B4) (residential use)	Planned Air Sensitive Receiver
AMS5	Kai Tak Area 1L Site 3 (1L3) (residential use)	Planned Air Sensitive Receiver

During the reporting period, monitoring locations AMS2 and AMS4 were set up at the proposed locations for impact monitoring.

Permission on setting up and carrying out impact monitoring works at AMS3 and AMS5 will be sought once each respective development is completed and occupied.

The impact monitoring station AMS1 was no longer open for impact monitoring from 1 September 2022, due to relocation of the Hong Kong Society for the Blind Workshop.

Temporary air quality monitoring station, AMS1-T, was used to conduct dust monitoring during the reporting period. Details of temporary alternative monitoring location was presented in

Temporary Alternative Proposal for Monitoring Station as proposed by ET and agreed by IEC dated 6 January 2021.

During the reporting period, temporary monitoring station AMS1-T, was no longer accessible from 13 August 2024, due to the relocation of the Agriculture, Fisheries and Conservation Department Kowloon Animal Management Centre. Alternative temporary air quality monitoring station, AMS1-T2 was proposed by ET and agreed by IEC on 9 August 2024 and further approved by EPD on 28 August 2024 for conducting impact monitoring during the reporting period.

The details of temporary monitoring stations are described in **Table 2.3** and the location of temporary monitoring station is shown in **Figure 2.1**.

Monitoring Station	Location	Status
AMS1-T	Agriculture, Fisheries and Conservation Department Kowloon Animal Management Centre, 102 Sung Wong Toi Road	Existing Air Sensitive Receiver (not accessible from 13 August 2024)
AMS1-T2	Shing Kai Road Garden	Existing Air Sensitive Receiver (from 13 August 2024)

Table 2.3: Temporary Construction Dust Monitoring Location

2.4 Monitoring Action and Limit Levels

The Action and Limit Levels for 1-hr TSP are provided in Table 2.4.

Table 2.4: Action and Limit Levels for 1-hour TSP

Monitoring Station	Action Level, µg/m ³	Limit Level, µg/m³	
AMS1 – Hong Kong Society for the Blind Workshop, Roof Floor	283	500	
AMS2 – Sky Tower, Podium of Tower 7	280	500	
AMS3 - Kai Tak Area 2B Site 4 (2B4) (residential use)	287*	500	
AMS4 - Kai Tak Area 1K Site 3 (1K3) (residential use)	287*	500	
AMS5 - Kai Tak Area 1L Site 3 (1L3) (residential use)	287*	500	

*Remarks: the Action Level for AMS3, AMS4 and AMS5 were derived from an alternative monitoring station AMS3-4-5 during the baseline monitoring.

The event and action plan is provided in Appendix D.

If exceedance(s) at these stations is/are recorded by the ET of the Project, it will carry out an investigation and findings will be reported in the monthly EM&A Report.

2.5 Monitoring Schedule for the Reporting Period

The schedule for air quality monitoring at AMS1-T, AMS1-T2, AMS2 and AMS4 in the reporting period is presented in <u>Appendix E</u>.

2.6 Monitoring Equipment

Portable direct reading dust meters were used to carry out the 1-hour TSP monitoring. The brand(s) and model(s) of the equipment used for air quality monitoring stations AMS1-T, AMS2 and AMS4 under this Project are given in **Table 2.5**.

Table 2.5: 1-hour TSP Monitoring Equipment

Equipment	Brand	Model No.
Portable direct reading dust meter	Sibata Digital Dust Monitor	LD-3B (S/N: 235780, 235786, 6Z7784)

2.7 Monitoring Methodology

Field Monitoring

The measuring procedures of the 1-hour TSP dust meter are in accordance with the Manufacturer's Instruction Manual as follows:

- Turn the power on.
- Close the air collecting opening cover.
- Push the "TIME SETTING" switch to [BG].
- Push "START/STOP" switch to perform background measurement for 6 seconds.
- Turn the knob at SENSI ADJ position to insert the light scattering plate.
- Leave the equipment for 1 minute upon "SPAN CHECK" is indicated in the display.
- Push "START/STOP" switch to perform automatic sensitivity adjustment. This measurement takes 1 minute.
- Pull out the knob and return it to MEASURE position.
- Setting time period of 1 hour for the 1-hour TSP measurement.
- Push "START/STOP" to start the 1-hour TSP measurement.
- Regular checking of the time period setting to ensure monitoring time of 1 hour.

Maintenance and Calibration

- The 1-hour dust meter would be checked at 3-month intervals and calibrated at 1-year intervals throughout all stages of the air quality monitoring.
- Calibration records for direct dust meters are given in <u>Appendix F</u>.

2.8 Monitoring Results

The monitoring results for 1-hour TSP at AMS1-T, AMS1-T2, AMS2 and AMS4 are summarized in **Table 2.6**. Detailed impact air quality monitoring results are presented in <u>Appendix G</u>.

Table 2.6: Summary of 1-hour TSP Monitoring Results During the Reporting Period

Monitoring Station	Average, µg/m³	Min, μg/m³	Max, µg/m³	Action Level, μg/m³	Limit Level, µg/m³
AMS1-T/ AMS1-T2	41	28	56	283	500
AMS2	33	25	50	280	500
AMS4	32	22	49	287	500

There was no Action and Limit Level exceedance of 1-hr TSP level recorded at station AMS1-T, AMS1-T2, AMS2 and AMS4 by the ET during the reporting period.

2.9 Wind Data

Wind data at Kai Tak automatic weather station collected from the Hong Kong Observatory (HKO) were used for the air quality monitoring and they are shown in <u>Appendix H</u>. It is considered that the wind data obtained at the existing Kai Tak wind station are representative of the Project area and could be used for undertaking the construction phase baseline and impact air quality monitoring programme for the Project.

The proposed use of the existing wind data from Kai Tak automatic weather station collected from HKO for wind data collection instead of setting up wind monitoring equipment near the monitoring stations was proposed by ET and agreed by IEC in accordance with the requirements as stated in Section 3.4.7 of the EM&A Manual of the Project.

3 Noise Monitoring

3.1 Introduction

In accordance with the EM&A Manual, impact noise monitoring was conducted at least once per week for each noise monitoring location during the construction phase of the Project.

3.2 Monitoring Parameters, Frequency and Duration

Table 3.1 summarises the monitoring parameters, frequency and duration of impact noise monitoring.

Table 3.1: Noise Monitoring Parameters, Frequency and Duration

Parameter	Frequency and Duration	
30-minutes measurement at each monitoring station between 0700 and 1900 on normal weekdays (Monday to Saturday). L_{eq} , L_{10} and L_{90} would be recorded.	At least once per week	

3.3 Monitoring Locations

According to the approved EM&A Manual, a total of seven noise monitoring stations were identified for the impact monitoring locations. Of these, four noise sensitive receivers are planned residential use (NMS1A, NMS2A, NMS3 and NMS5). **Table 3.2** describes the details of the monitoring stations and **Figure 3.1** shows the locations of noise monitoring stations.

Table 3.2: Construction Noise Monitoring Locations

Monitoring Station	Location Description	Status
NMS1	Hong Kong Society for the Blind	Existing Noise Sensitive
	Workshop, Roof Floor	Receiver
		(not accessible from 1 September 2022)
NMS2	Sky Tower, Podium of Tower 7	Existing Noise Sensitive
	•	Receiver
NMS4	Retail Building in front of The Henley, Rooftop	Existing Noise Sensitive Receiver
NMS1A	Sung Wong Toi Road Public	Planned Noise Sensitive
	Housing Site	Receiver
NMS2A	Sung Wong Toi Road CDA Site	Planned Noise Sensitive
	(mixed use)	Receiver
NMS3	Kai Tak Area 2B Site 4 (2B4)	Planned Noise Sensitive
	(residential use)	Receiver
NMS5	Kai Tak Area 1L Site 3 (1L3)	Planned Noise Sensitive
	(residential use)	Receiver

During the reporting period, monitoring locations NMS2 and NMS4 were set up at the proposed locations for impact monitoring.

Since NMS1A & NMS2A are planned (i.e. not existing) noise sensitive receivers, noise monitoring should be carried out initially at NMS1 and NMS2 respectively before the population intake of the planned developments. Once the planned developments are completed and occupied, NMS1A shall replace NMS1, while NMS2A shall replace NMS2. It is proposed that

the baseline noise level and Limit Level at NMS1A and NMS2A will be the same as those derived from the baseline monitoring data recorded at NMS1 and NMS2 respectively.

Permission on setting up and carrying out impact monitoring works at NMS3 and NMS5 will be sought once each respective development is completed and occupied.

During the reporting period, monitoring station NMS1 was no longer open for impact monitoring from 1 September 2022, due to relocation of the Hong Kong Society for the Blind Workshop. Temporary noise monitoring station, NMS1-T, was used to conduct noise monitoring during the reporting period. Details of temporary alternative monitoring locations are presented in Temporary Alternative Proposal for Monitoring Station as proposed by ET and agreed by IEC dated 6 January 2021.

During the reporting period, temporary monitoring station NMS1-T, was no longer accessible from 13 August 2024, due to the relocation of the Agriculture, Fisheries and Conservation Department Kowloon Animal Management Centre. Alternative temporary noise monitoring station, NMS1-T2 was proposed by ET and agreed by IEC on 9 August 2024 and further approved by EPD on 28 August 2024 for conducting impact monitoring during the reporting period.

The details of temporary monitoring station are described in **Table 3.3** and the location of noise monitoring station is shown in **Figure 3.1**

Monitoring Station	Location Description	Status	Type of Measurement
NMS1-T	Agriculture, Fisheries and Conservation Department Kowloon Animal Management Centre, 102 Sung Wong Toi Road	Exiting Noise Sensitive Receiver (not accessible from 13 August 2024)	Façade
NMS1-T2	138 To Kwa Wan Road	Exiting Noise Sensitive Receiver (from 13 August 2024)	Façade

Table 3.3: Temporary Construction Noise Monitoring Location

3.4 Action and Limit Levels

The Action and Limit Levels for construction noise are defined in Table 3.4.

Monitoring Station	Time Period	Action Level	Limit Level
NMS1-T			
NMS1-T2	0700 – 1900 hours on	When one documented	
NMS2	normal weekdays	complaint is received	75 dB(A)
NMS4			

The event and action plan is provided in Appendix D.

If exceedance(s) at these stations is/are recorded by the ET of the Project, it will carry out an investigation and findings will be reported in the monthly EM&A Report.

3.5 Monitoring Schedule for the Reporting Period

The schedule for noise monitoring in the reporting period is presented in Appendix E.

3.6 Monitoring Equipment

Noise monitoring was performed using sound level meters at each designed monitoring station. The sound level meters deployed comply with the International Electrotechnical Commission Publications (IEC) 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator was deployed to check the sound level meters at a known sound pressure level. Brand and model of the equipment used for noise monitoring under this Project is given in **Table 3.5**

Table 3.5: Noise Monitoring Equipment

Equipment	Brand	Model No.
Integrated Sound Level Meter	Rion	NL-52 (S/N 00175561)
Acoustic Calibrator	LARSON DAVIS	CAL200 (S/N 11334)

3.7 Monitoring Methodology

- Façade and Free Field measurements were made at the monitoring locations.
- For Façade measurement, the microphone head of the sound level meter was positioned 1m exterior of the noise sensitive façade and lowered sufficiently so that the building's external wall acts as a reflecting surface.
- For free field, the microphone of the Sound Level Meter was set at least 1.2 m above the ground.
- A correction of +3dB(A) was made for free field measurement.
- The battery condition was checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - frequency weighting: A
 - time weighting: Fast
 - time measurement: 30-minute intervals (between 0700-1900 on normal weekdays)
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94 dB at 1 kHz. If the difference in the calibration level before and after measurement was more than 1 dB, the measurement would be considered invalid and repeated after the recalibration or repair of the equipment.
- During the monitoring period, the L_{eq}, L₁₀ and L₉₀ were recorded. In addition, any site observations and noise sources were recorded on a standard record sheet.
- Noise measurements were not made in presence of fog, rain, wind with a steady speed exceeding 5m/s or wind with gusts exceeding 10m/s.

Maintenance and Calibration

- The microphone head of the sound level meter and calibrator is cleaned with soft cloth at quarterly intervals.
- The sound level meter and calibrator are sent to the supplier or HOKLAS laboratory to check and calibrate at yearly intervals.
- Calibration records are shown in <u>Appendix F</u>.

3.8 Monitoring Results

The monitoring results for construction noise are summarized in **Table 3.6**. Detailed impact noise monitoring results and relevant graphical plots are presented in <u>Appendix G</u>.

 Table 3.6: Summary of Construction Noise Monitoring Results During the Reporting

 Period

	Γ	leasured Noise Le	vel L _{eq (30 mins)} , dB(A	4)
Monitoring Station	Average	Min	Max	Limit Level
NMS1-T/ NMS1-T2	75	70	79	75
NMS2	70	69	71	75
NMS4	66	64	68	75

No noise exceedances were recorded at stations NMS1-T, NMS2 and NMS4 by ET during the reporting period.

Three Limit Level exceedances for noise levels were recorded at station NMS1-T2 during the reporting period. Exceedance investigations were conducted and the detail was shown in **Appendix M**.

4 Environmental Site and Audit

4.1 Site Inspection

Site inspections were carried out by ET on a weekly basis to monitor the implementation of proper environmental pollution control mitigation measures for the Project. Key observations were recorded in the site inspection checklist and passed to the Contracted Party together with the appropriate recommended mitigation measures where necessary. During the reporting period, site inspections were carried out on 7, 14, 21 and 27 August 2024. Joint IEC site inspections were carried out on 21 and 27 August 2024.

Bi-weekly landscape and visual site audit was carried out on 7 and 21 August 2024. The landscape and visual audit have been audited by Registered Landscape Architect (RLA). No major observations of landscape and visual impact were identified. The result findings were summarised in **Appendix K**.

Key observations during the site inspections are described in Table 4.1.

Inspection Date	Key Observations	Recommendations / Actions	Close-Out Date / Status
Kai Tak Sports Park			
7 Aug 2024	Accumulation of general refuse was observed at northern site.	The contractor was reminded to clear the general refuse regularly.	14 Aug 2024
7 Aug 2024	Dry haul road was observed at northern site.	The contractor was reminded to provide water spraying for haul road to maintain wet surface.	14 Aug 2024
14 Aug 2024	Accumualtion of general refuse and stagnant water were observed at southern site.	The contractor was reminded to clear the general refuse and stagnant water to keep the site dry and tidy.	21 Aug 2024
14 Aug 2024	Chemical containers without drip tray was observed at southern site.	The contractor was reminded to provide drip tray for chemical container on site.	21 Aug 2024
21 Aug 2024	Accumulation of general refuse was observed at northern site.	The contractor was reminded to clear the general refuse regularly.	27 Aug 2024
21 Aug 2024	A generator with faded colour NRMM label was observed at northern site.	The contractor was reminded to display new NRMM label for the generator.	27 Aug 2024
27 Aug 2024	Chemical container without drip tray was observed at northern site.	The contractor was reminded to provide drip tray for the chemical container.	4 Sep 2024
27 Aug 2024	Breaking work without water spraying was observed at northern site.	The contractor was reminded to provide water spraying for breaking work.	4 Sep 2024

Table 4.1: Summary of Site Inspections and Recommendations

Inspection Date	Key Observations	Recommendations / Actions	Close-Out Date / Status
Hotel and Office Development			
7 Aug 2024	Nil	N/A	N/A
14 Aug 2024	Nil	N/A	N/A
21 Aug 2024	Nil	N/A	N/A
27 Aug 2024	Nil	N/A	N/A

4.2 Advice on the Solid and Liquid Waste Management Status

KTSP

The Contracted Party was registered as a chemical waste producer for the Project. Construction and demolition (C&D) material sorting was carried out on site. Sufficient numbers of receptacles were provided for general refuse collection and sorting. Excavated inert C&D materials were reused to minimise the disposal of C&D waste to public fill.

The Contracted Party was reminded to maintain on site waste sorting and recording system and maximize reuse / recycling of C&D wastes, whenever these are generated.

H/O Development

Construction and demolition (C&D) material sorting was carried out on site. Sufficient numbers of receptacles were provided for general refuse collection and sorting. Excavated inert C&D materials were designated for on temporary site storage and collected for the disposal to public fill.

The Contractor was reminded to maintain on site waste sorting and maximize reuse / recycling of C&D wastes, whenever these are generated.

The monthly summary of waste flow table is detailed in Appendix I.

4.3 Environmental Licenses and Permits

The valid environmental licenses and permits for the Project during the reporting period are summarized in **Appendix J**.

4.4 Implementation Status of Environmental Mitigation Measures

In response to the site audit findings, the Contracted Party carried out corrective actions.

A summary of the environmental mitigation measures implementation status is presented in **Appendix K**. Most of the necessary mitigation measures were implemented properly.

4.5 Summary of Exceedance of the Environmental Quality Performance Limit

Air Quality

No Action and Limit Level exceedances of 1-hour TSP level was recorded at AMS1-T, AMS1-T2, AMS2 and AMS4 during the reporting period.

Noise

No Action Level exceedances of for noise levels was recorded at NMS1-T, NMS1-T2, NMS2 and NMS4 during the reporting month.

Three Limit Levels exceedance for noise levels were recorded at NMS1-T2 during the reporting month. Exceedance investigations were conducted and summarised in **Appendix M**.

4.6 Summary of Complaints, Notification of Summons and Successful Prosecution

Complaints

There was no complaint received in relation to the environmental impact during the reporting month.

Notification of Summons and Successful Prosecution

No notification of summons or prosecutions was received during the reporting period.

Statistics on notifications of summons and successful prosecutions are summarized in **Appendix L**.

5 Future Key Issues

5.1 Construction Programme for the Coming Months

As informed by the Contracted Party, the major construction activities for the next reporting period (September 2024) are summarized in **Table 5.1**.

Site Area	Description of Activities					
 Kai Tak Sports Park 	 Mobilization and lifting; 					
	Concreting;Excavation;					
	 Landscape work 					
 Hotel and Office Development 	 Concreting; and 					
	 Landscape Work. 					

The tentative schedule for weekly site inspection and monitoring for air quality and noise for the next reporting period is provided in <u>Appendix E</u>.

6 Conclusions

6.1 Conclusions

General

The construction works for the Project commenced on 8 April 2019.

The ET of the Project has implemented the air quality and noise environmental impact monitoring under the construction phase EM&A programme during the reporting period.

Breaches of Action and Limit Levels

Air Quality

No Action or Limit Level exceedances of 1-hour TSP level was recorded during the reporting period.

Noise

No Action Level exceedances for noise level was recorded during the reporting period.

Three Limit Levels exceedance for noise levels were recorded at NMS1-T2 during the reporting month. Exceedance investigations were conducted and summarised in **Appendix M**.

Environmental Site Inspections

Environmental site inspections were carried out four times during the reporting period. Recommendations on remedial actions were given to the Contracted Party for the deficiencies identified during the site inspections.

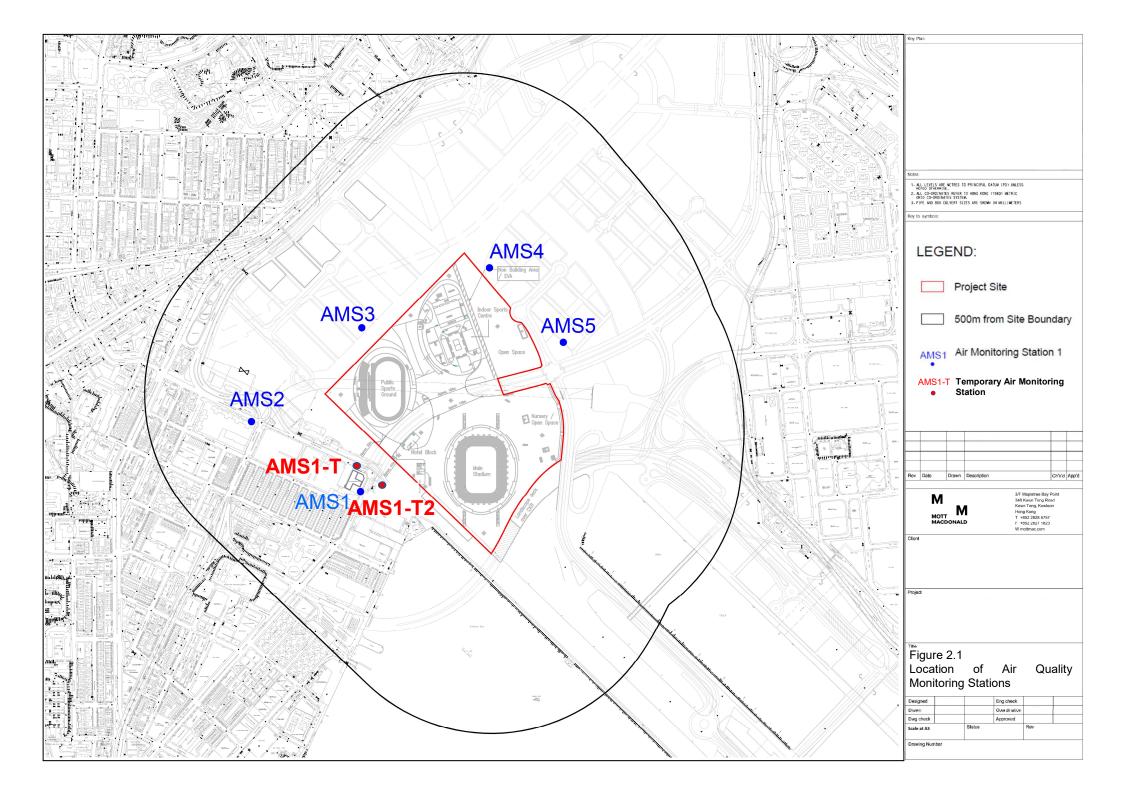
Complaints

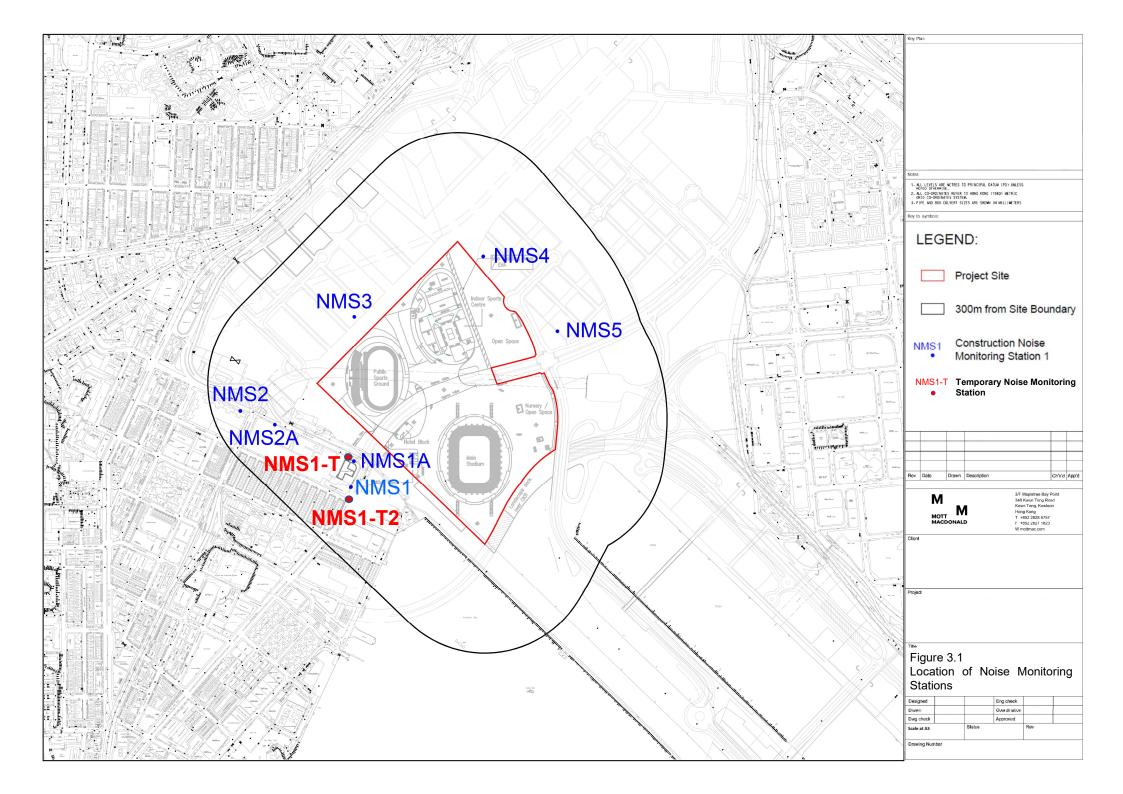
There was no complaint received in relation to the environmental impact during the reporting period.

Notifications of Summons and Successful Prosecutions

There were no notifications of summons or prosecutions received during the reporting period.

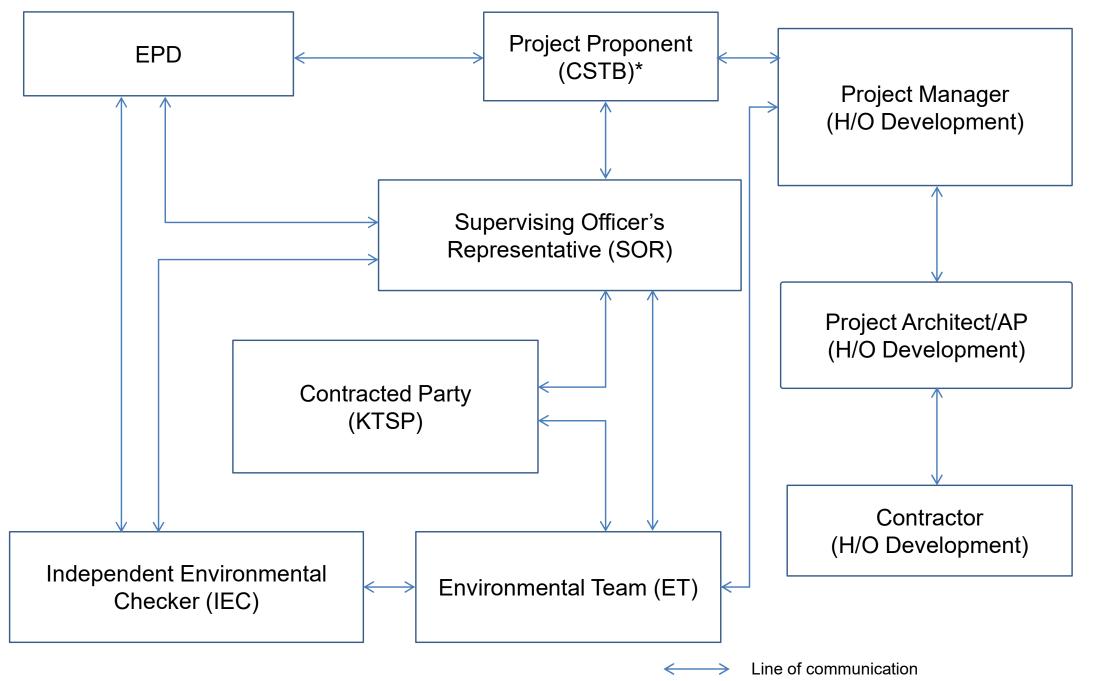
Figures



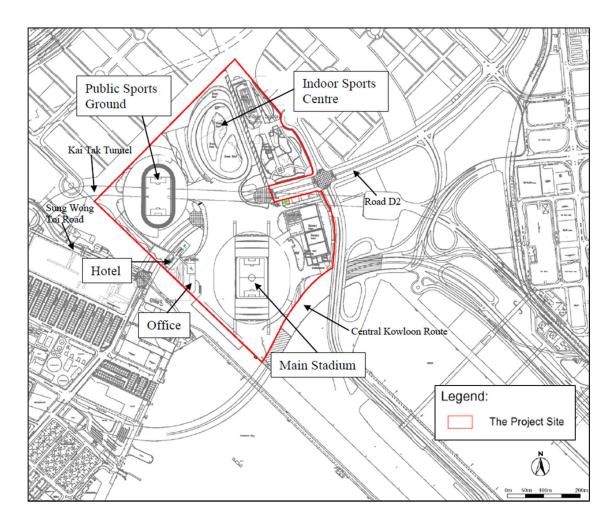


Appendix A. Project Organization for Environmental Works

Project Organisation for Environmental Works



* Home Affairs Bureau (HAB) reorganized as Culture, Sports and Tourism Bureau (CSTB) in July 2022



Appendix B. Location of Works Areas

Appendix C. Construction Programme

Construction Programme (Aug 2024 to Nov 2024)

Kai Tak Sports Park

		2024										
Construction Activities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Plants Mobilization										l.		
Loading/ Unloading of Materials												-
Excavation												
C&D Waste Disposal								-	1	1		
Concreting									1	l í		
Lifting									1			-
C&D Materials Internal Transportation									1		-	-
Landscape Work												
Impact Water Sampling (PSG)								14	24.	1		

Hotel and Office Development

	2024											
Construction Activities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Loading/Unloading of Materials							1			1		
Concreting												
Landscape Work												
C&D Waste Disposal										1		

Appendix D. Event and Action Plan

Should non-compliance of the air quality criteria occur, actions in accordance with the Event and Action Plan in **Table D.1** and **Table D.2** shall be carried out.

Table D.1:	Event and Action Plan for Construction Air Quality	(Action Level)
------------	--	----------------

Event	Action						
	ET	IEC	SOR	Contracted Party			
Action Level							
Exceedance for one sample	 Inform IEC, SOR and Contracted Party; Identify source, investigate the causes of exceedance and propose remedial measures; Repeat measurement to confirm finding. 	 Check monitoring data submitted by ET; Check Contracted Party's working method. 	1. Notify Contracted Party.	 Rectify any unacceptable practice; Amend working methods if appropriate. 			
Exceedance for two or more consecutive samples	 Inform IEC, SOR and Contracted Party; Identify source; Advise the SOR on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC, SOR and Contracted Party on remedial actions required; If exceedance continues, arrange meeting with IEC and SOR; If exceedance stops, cease additional monitoring. 	 Check monitoring data submitted by ET; Check Contracted Party's working method; Discuss with ET and Contracted Party on possible remedial measures; Advise the ET/SOR on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contracted Party; Ensure remedial measures properly implemented. 	 Submit proposals for remedial to SOR and IEC within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate. 			

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

Table D.2: Event and Action Plan for Construction Air Quality (Limit Level)

Should non-compliance of the noise criteria occur, actions in accordance with the Event and Action Plan in **Table D.3** shall be carried out.

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

Table D.3: Event and Action Plan for Construction Noise

Appendix E. Environmental Site Inspection and Monitoring Schedule

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	
				AMS1-T, AMS2, AMS4		
				NMS1-T, NMS2, NMS4		
				5		
4	5	6	7	8	9	1
			site inspection			
			landscape and visual			
			audit AMS1-T, AMS2, AMS4	5		
			NMS1-T, NMS2, NMS4			
11	12	13	14	15	16	1
	12	AMS1-T2, AMS2, AMS4	site inspection	10	10	
		NMS1-T2, NMS2, NMS4				
		111101-12, 111102, 111101				
18	19	20	21	22	23	2
	AMS1-T2, AMS2, AMS4		site inspection		AMS1-T2, AMS2, AMS4	
	NMS1-T2, NMS2, NMS4		landscape and visual			
9			audit	0		
25	26	27	28	29	30	3
		site inspection		AMS1-T2, AMS2, AMS4		
				NMS1-T2, NMS2, NMS4		

Table E.1: Site Inspection and Monitoring Schedule for August 2024

Impact Environmental Monitoring Schedule for August 2024

Air Quality/Noise Monitoring

Remark: Joint site walk with IEC on 21 and 27 August 2024.



Table E.2: Tentative Site Inspection and Monitoring Schedule for September 2024

Air Quality/Noise Monitoring

Remark: The schedule is subject to change due to unforeseeable circumstances (e.g. adverse weather, etc)

Appendix F. Calibration Certificates

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



SUB-CONTRACTING REPORT

CONTACT	: MR MAGNUM FAN	WORK ORDER HK2351432
CLIENT ADDRESS	 ENVIROTECH SERVICES CO. RM 712, 7/F, MY LOFT 9 HOI WING ROAD, TUEN MUN, N.T. HK 	SUB-BATCH1DATE RECEIVED18-DEC-2023DATE OF ISSUE27-DEC-2023
PROJECT	;	NO. OF SAMPLES : 1 CLIENT ORDER

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.
- Calibration was subcontracted to Envirotech Services Company.
- Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition.

Signatories

2 . . .

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

Signatories	Position	
K. Lard Fing .		
Richard Fung	Managing Director	2500107 9
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 Tet. +852 2610 1044 Fax +852 2610 2021 www.alsglobal.com

: HK2351432

: HK2351432

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WORK ORDER SUB-BATCH ALS

1

CLIENT ENVIROTECH SERVICES CO. PROJECT ----

ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.	
HK2351432-001	Sibata LD-3B (235780)	Equipments	09-Dec-2023	S/N: 235780	



Envirotech Services Co.

Rm. 712, 7/F Rm, 712, 77F My Loft, 9 Noi Wing Road, Tuen Mun, H.K. Tai : 2560 8450 Fax : 2560 8553 E-mail: environcha

Equipment Verification Report (TSP)

Equipment Calibrated:

Type:	Laser Dust Monitor
Manufacturer:	Sibata LD-3B
Serial No.:	235780
Equipment Ref.:	N/A
ALS Job Order:	HK2349963

Standard Equipment

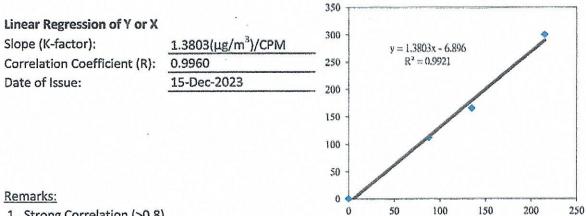
Standard Equipment:	High Volume Sampler (TSP)
Location :	Envirotech Room (Calibration Room)
Equipment Ref.:	HVS 8162
Last Calibration Date:	13-Oct-2023

Equipment Verification Results:

Verification Date:

9-Dec-2023

Hour	Time	[°] Mean Temp ^o C	Mean Pressure (hpa)	Concentration in µg/m ³ (Standard Equipment) Y(axis)	Concentration in µg/m ³ (Calibrated Equipment) x(axis)
1hr 00mins	1010-1110	26.5	1016.0	112	88
2hr 00mins	1300-1500	26.2	1015.5	165	135
3hr 00mins	1505-1805	26.2	1015.5	300	215



1. Strong Correlation (>0.8)

2. Factor 1.3803 (µg/m³)/CPM should be applied for TSP monitoring

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

Operator:	P.F.Yeung	Signature	Fai	Date:	15 December 2023
QC Reviewer:	K.F.Ho	Signature	Fat	Date:	15 December 2023

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



SUB-CONTRACTING REPORT

CONTACT	: MR MAGNUM FAN	WORK ORDER HK2419604
CLIENT	ENVIROTECH SERVICES CO.	
ADDRESS	: RM 712, 7/F, MY LOFT 9 HOI WING ROAD,	SUB-BATCH : 1 DATE RECEIVED : 20-MAY-2024
	TUEN MUN, N.T. HK	DATE OF ISSUE 24-MAY-2024
PROJECT		NO. OF SAMPLES : 1
		CLIENT ORDER

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 Envirotech Services Company.

Signatories

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

Signatories	Position		
Rectard Jung		*	
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 : HK2419604

÷ 1 CENVIROTECH SERVICES CO.

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ALS

4

CLIENT PROJECT

WORK ORDER SUB-BATCH

ALS Lab ID	Client's Sample ID	Sample · Type	Sample Date	External Lab Report No.
HK2419604-001	Sibata LD-3B (235786)	Equipments	11-May-2024	S/N: 235786

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

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Envirotech Services Co.

Ren. 712, 7/8 Rm. 714, 779 My Loft, 3 Hol Wing Road, 1 uan Alun, M K. Tai - 2560 8553 Fax - 2560 6553 E mail: amvintachily ODEN

Equipment Verification Report (TSP)

Equipment Calibrated:

Type:	Laser Dust Monitor
Manufacturer:	Sibata LD-3B
Serial No.:	235786
Equipment Ref.:	N/A
ALS Job Order:	HK2418944

Standard Equipment

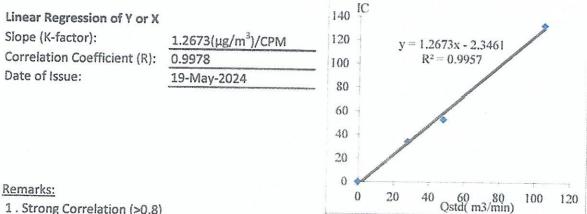
Standard Equipment:	High Volume Sampler (TSP)
Location :	Envirotech Room (Calibration Room)
Equipment Ref.:	HVS 8162
Last Calibration Date:	25-Mar-2024

Equipment Verification Results:

Verification Date:

11-May-2024

Hour	Time	Mean Temp [°] C	Mean Pressure (hpa)	Concentration in µg/m ³ (Standard Equipment) {Y-Axis)	Concentration in µg/m ³ (Calibrated Equipment) (X-Axis)
1hr 00mins	0830-0930	26.8	1015	34	28
2hr 00mins	0935-1135	28.5	1015	53	48
3hr 00mins	1310-1610	29,5	1016	133	105



1. Strong Correlation (>0.8)

2. Factor $1.2673(\mu g/m^3)/CPM$ should be applied for TSP monitoring *If R<0.5, repair or verification is required for the equipment

Operator:	P.F.Yeung	Signature	Fai	Date:	19 May 2024
QC Reviewer:	K.F.Ho	Signature	100	Date:	19 May 2024

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES.



SUB-CONTRACTING REPORT

CONTACT	: MR MAGNUM FAN	WORK ORDER HK2412745
CLIENT	ENVIROTECH SERVICES CO.	
ADDRESS	RM 712, 7/F, MY LOFT 9 HOI WING ROAD,	SUB-BATCH : 1
	TUEN MUN, N.T. HK	DATE RECEIVED : 5-APR-2024
		DATE OF ISSUE : 12-APR-2024
PROJECT		NO. OF SAMPLES : 1
		CLIENT ORDER

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 Envirotech Services Company.

Signatories

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

Signatories	Position	
Kiland Jong		
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 SUB-BATCH : HK2412745

1 ENVIROTECH SERVICES CO.

:

CLIENT PROJECT



1

ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.	
HK2412745-001	Sibata LD-3B (6Z7784)	Equipments	25-Mar-2024	S/N: 6Z7784	



Envirotech Services Co.

Rm. 712, 7/F Am. 734, 77 My Loft, 9 Hol Wing Road, Tuen Mun. H.K. Tel : 2660 8450 Fax : 2560 8653 E-mail: environment@inenvigner.com

Equipment Verification Report (TSP)

Equipment Calibrated:

Type:	Laser Dust Monitor
Manufacturer:	Sibata LD-3B
Serial No.:	627784
Equipment Ref.:	N/A
ALS Job Order:	HK2411837

Standard Equipment

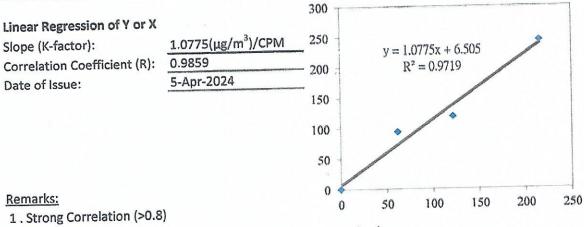
Standard Equipment:	High Volume Sampler (TSP)
Location :	Envirotech Room (Calibration Room)
Equipment Ref.:	HVS 8162
Last Calibration Date:	25-Mar-2024

Equipment Verification Results:

Verification Date:

25-Mar-2024

Hour	Time	Mean Temp ^o C	Mean Pressure (hpa)	Concentration in µg/m ³ (Standard Equipment) (Y-Axis)	Concentration in µg/m ³ (Calibrated Equipment) (X-Axis)
1hr 00mins	0900-1000	24.5	1016	94	62
	1005-1205	26.2	1017	119	122
2hr 00mins 3hr 00mins	1315-1615	29.0	1014	244	216



2. Factor 1.0775 (ug/m³)/CPM should be applied for TSP monitoring

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

Operator:	P.F.Yeung	Signature	Fai	Date:	05 April 2024
QC Reviewer:	K.F.Ho	Signature	at	Date:	05 April 2024



Sun Creation Engineering Limited **Calibration & Testing Laboratory**

Certificate of Calibration 校正證書

Certificate No. : C242738 證書編號

		D (CD and int / 1/4/4 口相, 2 May 20
ITEM TESTED / 送檢項	目 (Job No. / 序引編號: IC24-0781)	Date of Receipt / 收件日期: 3 May 20
Description / 儀器名稱	: Precision Acoustic Calibrator	
Manufacturer / 製造商	: LARSON DAVIS	
Model No. / 型號	: CAL200	
Serial No. / 編號	: 11334	
Supplied By / 委託者	: Envirotech Services Co.	
	Room 712, 7/F, My Loft, 9 Hoi Wing	g Road, Tuen Mun,
	New Territories, Hong Kong	
TEST CONDITIONS /	則試條件	
Temperature / 溫度 :	$(23 \pm 2)^{\circ}C$	Relative Humidity / 相對濕度 : (50 ± 25)
Line Voltage / 電壓 :		
TEST SPECIFICATIO	NS / 測試規範	ай на стана на стана К
Calibration check		
TEST RESULTS / 測試	結果	
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TEST RESULTS / 測試 The results apply to the part The results do not exceed sp These limits refer to manufa The results are detailed in th The test equipment used for - The Government of The H - Hottinger Brüel & Kjær C - Agilent Technologies / K	結果 icular unit-under-test only. pecified limits. cturer's published or user's specified tolerances he subsequent page(s). calibration are traceable to National Standards long Kong Special Administrative Region Star calibration Laboratory, Denmark eysight Technologies	s via :
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Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C242738 證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.
- 2. The results presented are the mean of 3 measurements at each calibration point.
- 3. Test equipment :

Equipment IDDescriptionCertificate No.CL130Universal CounterC233799CL281Multifunction Acoustic CalibratorCDK2302738TST150AMeasuring AmplifierC241879

- 4. Test procedure : MA100N.
- 5. Results :
- 5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	User's Limit (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	93.60	± 0.5	± 0.20
114 dB, 1 kHz	113.60		

5.2 Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Limit	(Hz)
1	1.000	$1 \text{ kHz} \pm 1 \%$	± 1

Remarks : - The user's limit is a customer pre-defined operating tolerance of the UUT, suitable for one's own intended use.

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

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The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C237046 證書編號

ITEM TESTED / 送檢I	頁目	(Job No. / 序引編號: IC23-2316)	Date of Receipt / 收件日期: 15 November 2023
Description / 儀器名稱	:	Sound Level Meter	
Manufacturer / 製造商	:	Rion	
Model No. / 型號	:	NL-52	
Serial No. / 編號	:	00175561	
Supplied By / 委託者	:	Envirotech Services Co.	
		Room 712, 7/F, My Loft, 9 Hoi Wing R	Road, Tuen Mun,
		New Territories, Hong Kong	

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C Line Voltage / 電壓 : --- Relative Humidity / 相對濕度 :

 $(50 \pm 25)\%$

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 6 December 2023、

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

The results do not exceed specified limits.

These limits refer to manufacturer's published tolerances as requested by the customer.

The results are detailed in the subsequent page(s).

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

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

- Hottinger Brüel & Kjær Calibration Laboratory, Denmark
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By 測試	: _	C K Lo Project Engineer			
Certified By 核證	:	K C Lee Engineer	Date of Issue 簽發日期	:	6 December 2023

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C237046 證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- 2. Self-calibration was performed before the test.
- 3. The results presented are the mean of 3 measurements at each calibration point.
- 4. Test equipment :

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C230306
CL281	Multifunction Acoustic Calibrator	CDK2302738

- 5. Test procedure : MA101N.
- 6. Results :
- 6.1 Sound Pressure Level
- 6.1.1 Reference Sound Pressure Level

UUT Setting				Applie	d Value	UUT	IEC 61672
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	Class 1 Limit (dB)
30 - 130	L _A	A	Fast	94.00	1	93.2	± 1.1

6.1.2 Linearity

UUT Setting			Applied Value		UUT	
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)
30 - 130	L _A	A	Fast	94.00	1	93.2 (Ref.)
				104.00	[103.3
	ů.			114.00		113.4

IEC 61672 Class 1 Limit : \pm 0.6 dB per 10 dB step and \pm 1.1 dB for overall different.

6.2 Time Weighting

UUT Setting			Applie	d Value	UUT	IEC 61672	
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	Class 1 Limit (dB)
30 - 130	L _A	A	Fast	94.00	1	93.2	Ref.
			Slow			93.2	± 0.3

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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輝創工程有限公司 Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C237046 證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

	UUT	Setting		Applied Value		UUT	IEC 61672
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Class 1 Limit (dB)
30 - 130	L _A	A	Fast	94.00	63 Hz	66.9	-26.2 ± 1.5
	in the second se				125 Hz	77.0	-16.1 ± 1.5
					250 Hz	84.5	-8.6 ± 1.4
					500 Hz	89.9	-3.2 ± 1.4
					1 kHz	93.2	Ref.
					2 kHz	94.4	$+1.2 \pm 1.6$
					4 kHz	94.2	$+1.0 \pm 1.6$
					8 kHz	92.1	-1.1 (+2.1 ; -3.1)
					16 kHz	85.2	-6.6 (+3.5 ; -17.0

6.3.2 C-Weighting

e weighting		Setting		Appli	ed Value	UUT	IEC 61672
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Limit
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
30 - 130	L _C	С	Fast	94.00	63 Hz	92.3	-0.8 ± 1.5
			ā		125 Hz	93.0	-0.2 ± 1.5
					250 Hz	93.2	$\textbf{0.0}\pm \textbf{1.4}$
					500 Hz	93.2	0.0 ± 1.4
					1 kHz	93.2	Ref.
					2 kHz	93.0	-0.2 ± 1.6
					4 kHz	92.4	$\textbf{-0.8} \pm 1.6$
					8 kHz	90.2	-3.0 (+2.1;-3.1)
					16 kHz	83.3	-8.5 (+3.5 ; -17.0)

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C237046 證書編號

Remarks : - UUT Microphone Model No. : UC-59 & S/N : 16651

- Mfr's Limit : IEC 61672 Class 1

- Uncertainties of Applied Value :		1 kHz 2 kHz - 4 kHz 8 kHz 16 kHz	: $\pm 0.35 \text{ dB}$: $\pm 0.30 \text{ dB}$: $\pm 0.20 \text{ dB}$: $\pm 0.35 \text{ dB}$: $\pm 0.45 \text{ dB}$: $\pm 0.70 \text{ dB}$: $\pm 0.10 \text{ dB}$ (Pof. 94 dP)
	104 dB :	: 1 kHz	$\pm 0.10 \text{ dB}$ (Ref. 94 dB)
	114 dB :	1 kHz	: \pm 0.10 dB (Ref. 94 dB)

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

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Appendix G. Monitoring Data and Graphical Plots (Air Quality and Noise)

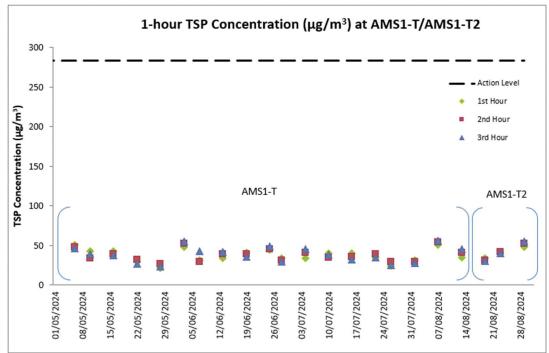
	Date	Start Time	Finish Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hour TSP (μg/m³)
*	01-Aug-24	9:30	10:30	Cloudy	2.5	191	31
*	01-Aug-24	10:30	11:30	Cloudy	1.9	226	29
*	01-Aug-24	11:30	12:30	Cloudy	2.5	206	28
*	07-Aug-24	9:31	10:31	Cloudy	1.1	249	51
*	07-Aug-24	10:31	11:31	Cloudy	1.4	240	54
*	07-Aug-24	11:31	12:31	Cloudy	1.7	239	56
#	13-Aug-24	9:17	10:17	Fine	1.4	283	35
#	13-Aug-24	10:17	11:17	Fine	3.3	280	41
#	13-Aug-24	11:17	12:17	Fine	1.7	245	45
#	19-Aug-24	9:30	10:30	Cloudy	5.3	276	34
#	19-Aug-24	10:30	11:30	Cloudy	0.8	307	31
#	19-Aug-24	11:30	12:30	Cloudy	1.7	277	30
#	23-Aug-24	8:52	9:52	Fine	1.4	291	41
#	23-Aug-24	9:52	10:52	Fine	2.2	283	42
#	23-Aug-24	10:52	11:52	Fine	1.7	266	40
#	29-Aug-24	9:53	10:53	Fine	2.8	125	48
#	29-Aug-24	10:53	11:53	Fine	3.3	112	52
#	29-Aug-24	11:53	12:53	Fine	3.9	108	55

Data for 1-hour TSP Monitoring at Station AMS1-T/AMS1-T2 during the Reporting Month

Note:

* Impact Monitoring at Station AMS1-T; # Impact Monitoring at Station AMS1-T2.

During the reporting period, temporary monitoring station AMS1-T, was no longer accessible from 13 August 2024, due to the relocation of the Agriculture, Fisheries and Conservation Department Kowloon Animal Management Centre. Alternative temporary air quality monitoring station, AMS1-T2 was proposed by ET and agreed by IEC on 9 August 2024 and further approved by EPD on 28 August 2024 for conducting impact monitoring during the reporting period.

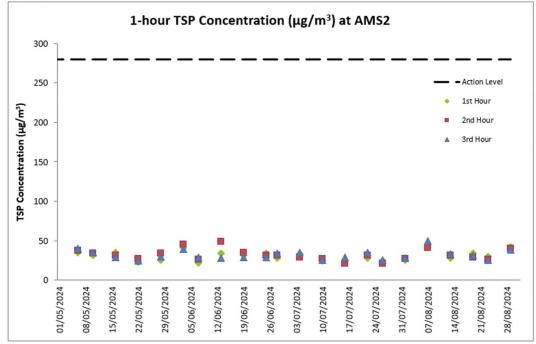


Graphical Presentation for 1-hour TSP Monitoring at AMS1-T/AMS1-T2

Date	Start Time	Finish Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hour TSP (μg/m³)
01-Aug-24	8:47	9:47	Cloudy	0.8	218	25
01-Aug-24	9:47	10:47	Cloudy	1.7	215	27
01-Aug-24	10:47	11:47	Cloudy	1.7	217	28
07-Aug-24	8:47	9:47	Cloudy	0.3	253	43
07-Aug-24	9:47	10:47	Cloudy	1.1	255	41
07-Aug-24	10:47	11:47	Cloudy	1.4	240	50
13-Aug-24	8:32	9:32	Fine	0.8	234	28
13-Aug-24	9:32	10:32	Fine	1.4	254	31
13-Aug-24	10:32	11:32	Fine	2.5	247	33
19-Aug-24	8:45	9:45	Cloudy	5.8	278	34
19-Aug-24	9:45	10:45	Cloudy	2.5	296	29
19-Aug-24	10:45	11:45	Cloudy	0.0	variable	31
23-Aug-24	8:40	9:40	Fine	1.1	303	30
23-Aug-24	9:40	10:40	Fine	2.2	285	26
23-Aug-24	10:40	11:40	Fine	2.2	285	25
29-Aug-24	9:08	10:08	Fine	4.2	128	42
29-Aug-24	10:08	11:08	Fine	4.2	154	40
29-Aug-24	11:08	12:08	Fine	3.9	114	38

Data for 1-hour TSP Monitoring at Station AMS2 during the Reporting Month

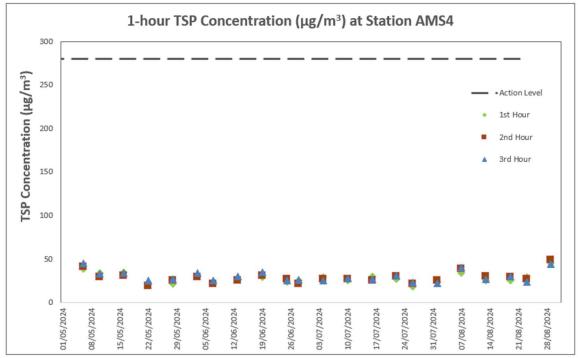
Graphical Presentation for 1-hour TSP Monitoring at AMS2



Date	Start Time	Finish Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hour TSP (μg/m³)
01-Aug-24	10:25	11:25	Cloudy	1.4	211	24
01-Aug-24	11:25	12:25	Cloudy	2.8	209	25
01-Aug-24	12:25	13:25	Cloudy	2.8	218	22
07-Aug-24	10:25	11:25	Cloudy	1.1	244	34
07-Aug-24	11:25	12:25	Cloudy	1.7	236	39
07-Aug-24	12:25	13:25	Cloudy	2.2	246	40
13-Aug-24	10:17	11:17	Fine	3.3	280	25
13-Aug-24	11:17	12:17	Fine	1.7	245	30
13-Aug-24	12:17	13:17	Fine	3.1	273	27
19-Aug-24	10:25	11:25	Cloudy	1.1	317	25
19-Aug-24	11:25	12:25	Cloudy	1.7	285	29
19-Aug-24	12:25	13:25	Cloudy	1.4	228	30
23-Aug-24	9:14	10:14	Fine	1.7	289	29
23-Aug-24	10:14	11:14	Fine	3.3	288	27
23-Aug-24	11:14	12:14	Fine	1.7	278	24
29-Aug-24	10:52	11:52	Fine	3.3	117	45
29-Aug-24	11:52	12:52	Fine	3.9	108	49
29-Aug-24	12:52	13:52	Fine	4.4	123	44

Data for 1-hour TSP Monitoring at Station AMS4 during the Reporting Month

Graphical Presentation for 1-hour TSP Monitoring at AMS4

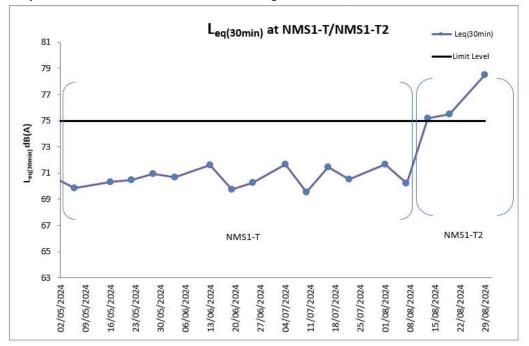


	Date	Time	Weather	L _{eq(5min)}	L ₁₀	L ₉₀	Measured L _{eq(30min)}
*	01-Aug-24	09:33	Cloudy	71.6	74.0	62.2	
*	01-Aug-24	09:38	Cloudy	72.1	75.7	63.8	
*	01-Aug-24	09:43	Cloudy	72.3	75.4	63.5	71.7
*	01-Aug-24	09:48	Cloudy	71.9	74.9	62.1	/1./
*	01-Aug-24	09:53	Cloudy	70.8	74.5	61.0	
*	01-Aug-24	09:58	Cloudy	71.0	75.6	62.7	
*	07-Aug-24	09:34	Cloudy	70.1	73.7	64.2	
*	07-Aug-24	09:39	Cloudy	71.6	74.0	65.8	
*	07-Aug-24	09:44	Cloudy	69.3	72.9	64.5	70.2
*	07-Aug-24	09:49	Cloudy	70.0	72.4	64.9	70.2
*	07-Aug-24	09:54	Cloudy	69.7	73.4	65.7	
*	07-Aug-24	09:59	Cloudy	70.2	72.6	64.0	
#	13-Aug-24	09:20	Fine	74.9	78.5	65.5	
#	13-Aug-24	09:25	Fine	75.1	79.2	67.5	
#	13-Aug-24	09:30	Fine	76.2	80.5	66.0	75.0
#	13-Aug-24	09:35	Fine	74.8	79.5	66.2	75.2
#	13-Aug-24	09:40	Fine	75.0	78.5	67.4	
#	13-Aug-24	09:45	Fine	75.0	78.2	66.3	
#	19-Aug-24	09:33	Cloudy	75.9	78.0	72.2	
#	19-Aug-24	09:38	Cloudy	74.1	77.9	71.5	
#	19-Aug-24	09:43	Cloudy	76.3	79.4	73.8	75.5
#	19-Aug-24	09:48	Cloudy	75.6	78.7	72.7	75.5
#	19-Aug-24	09:53	Cloudy	74.7	77.5	72.0	
#	19-Aug-24	09:58	Cloudy	76.0	79.2	73.6	
#	29-Aug-24	09:57	Fine	79.8	83.4	69.4	
#	29-Aug-24	10:02	Fine	78.4	81.5	71.3	
#	29-Aug-24	10:07	Fine	78.5	82.1	69.0	70 5
#	29-Aug-24	10:12	Fine	77.9	81.0	71.1	78.5
#	29-Aug-24	10:17	Fine	77.5	80.8	70.3	
#	29-Aug-24	10:22	Fine	78.5	81.1	71.5	

Data for Noise Monitoring at Station NMS1-T/NMS1-T2 during the Reporting Month

* Impact Monitoring at Station NMS1-T; # Impact Monitoring at Station NMS1-T2.

During the reporting period, temporary monitoring station NMS1-T, was no longer accessible from 13 August 2024, due to the relocation of the Agriculture, Fisheries and Conservation Department Kowloon Animal Management Centre. Alternative temporary noise monitoring station, NMS1-T2 was proposed by ET and agreed by IEC on 9 August 2024 and further approved by EPD on 28 August 2024 for conducting impact monitoring during the reporting period.



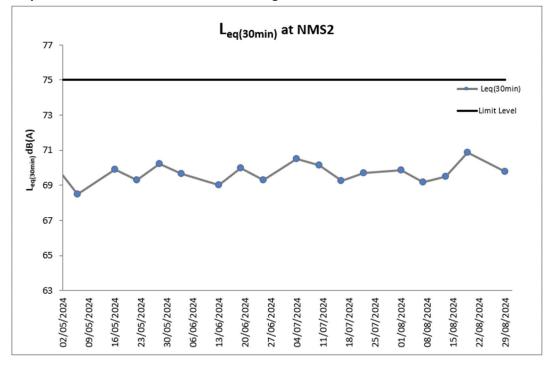
Graphical Presentation for Noise Monitoring at NMS1-T/NMS1-T2

Note:

Date	Time	Weather	L _{eq(5min)}	L ₁₀	L ₉₀	Measured $L_{eq(30min)}$
01-Aug-24	08:50	Cloudy	69.2	72.6	65.1	
01-Aug-24	08:55	Cloudy	68.0	71.4	64.5	
01-Aug-24	09:00	Cloudy	70.3	73.7	66.6	69.9
01-Aug-24	09:05	Cloudy	71.8	74.0	66.7	09.9
01-Aug-24	09:10	Cloudy	69.7	72.9	65.9	
01-Aug-24	09:15	Cloudy	69.2	72.5	65.0	
07-Aug-24	08:50	Cloudy	69.9	72.0	67.2	
07-Aug-24	08:55	Cloudy	68.1	71.9	66.2	
07-Aug-24	09:00	Cloudy	70.3	73.4	67.5	CO D
07-Aug-24	09:05	Cloudy	69.7	72.7	66.8	69.2
07-Aug-24	09:10	Cloudy	68.6	71.6	65.6	
07-Aug-24	09:15	Cloudy	68.0	71.3	65.0	
13-Aug-24	08:35	Fine	68.9	71.0	64.6	
13-Aug-24	08:40	Fine	69.1	72.4	64.2	
13-Aug-24	08:45	Fine	68.3	71.4	64.5	60 F
13-Aug-24	08:50	Fine	69.6	72.7	65.8	69.5
13-Aug-24	08:55	Fine	70.6	73.9	65.7	
13-Aug-24	09:00	Fine	70.0	73.5	65.0	
19-Aug-24	08:48	Cloudy	69.7	72.6	67.2	
19-Aug-24	08:53	Cloudy	70.1	73.0	68.5	
19-Aug-24	08:58	Cloudy	71.3	74.4	69.8	70.0
19-Aug-24	09:03	Cloudy	71.9	74.8	69.0	70.9
19-Aug-24	09:08	Cloudy	70.0	73.9	68.7	
19-Aug-24	09:13	Cloudy	71.6	74.2	69.6	
29-Aug-24	09:06	Fine	69.7	72.4	66.3	
29-Aug-24	09:11	Fine	69.8	72.0	65.4	
29-Aug-24	09:16	Fine	69.4	71.6	66.3	60.0
29-Aug-24	09:21	Fine	69.6	71.9	65.8	69.8
29-Aug-24	09:26	Fine	70.4	72.4	65.8	
29-Aug-24	09:31	Fine	69.6	72.3	65.6	

Data for Noise Monitoring at Station NMS2 during the Reporting Month

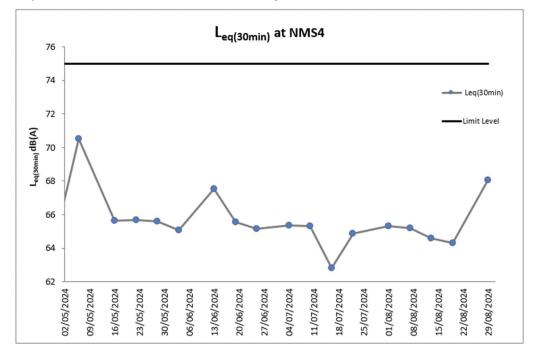
Graphical Presentation for Noise Monitoring at NMS2



Date	Time	Weather	L _{eq(5min)}	L ₁₀	L ₉₀	Measured L _{eq(30min)}
01-Aug-24	08:50	Cloudy	64.9	66.0	62.2	
01-Aug-24	08:55	Cloudy	65.1	67.9	63.8	
01-Aug-24	09:00	Cloudy	65.7	67.3	63.4	65.3
01-Aug-24	09:05	Cloudy	66.0	68.5	64.1	05.5
01-Aug-24	09:10	Cloudy	64.6	66.7	62.4	
01-Aug-24	09:15	Cloudy	65.5	67.1	63.0	
07-Aug-24	08:50	Cloudy	64.2	66.1	62.5	
07-Aug-24	08:55	Cloudy	65.3	67.4	63.7	
07-Aug-24	09:00	Cloudy	64.9	66.0	62.6	65.2
07-Aug-24	09:05	Cloudy	65.6	67.7	63.8	05.2
07-Aug-24	09:10	Cloudy	64.0	66.8	62.2	
07-Aug-24	09:15	Cloudy	66.7	68.1	64.0	
13-Aug-24	08:35	Fine	64.6	66.0	62.7	
13-Aug-24	08:40	Fine	65.1	67.7	63.2	
13-Aug-24	08:45	Fine	64.4	66.3	62.5	64.6
13-Aug-24	08:50	Fine	63.8	65.9	61.9	04.0
13-Aug-24	08:55	Fine	64.6	66.4	62.0	
13-Aug-24	09:00	Fine	65.0	67.5	63.4	
19-Aug-24	08:48	Cloudy	64.9	66.0	62.1	
19-Aug-24	08:53	Cloudy	65.1	67.4	63.2	
19-Aug-24	08:58	Cloudy	64.3	66.1	62.5	64.3
19-Aug-24	09:03	Cloudy	64.6	66.7	62.8	64.3
19-Aug-24	09:08	Cloudy	63.0	65.8	61.7	
19-Aug-24	09:13	Cloudy	63.7	65.6	61.0	
29-Aug-24	09:06	Fine	67.3	69.9	65.2	
29-Aug-24	09:11	Fine	68.9	70.0	66.6	
29-Aug-24	09:16	Fine	68.1	70.4	66.5	68.1
29-Aug-24	09:21	Fine	69.6	71.7	67.8	1.80
29-Aug-24	09:26	Fine	66.0	68.5	64.0	
29-Aug-24	09:31	Fine	67.5	69.6	65.9	

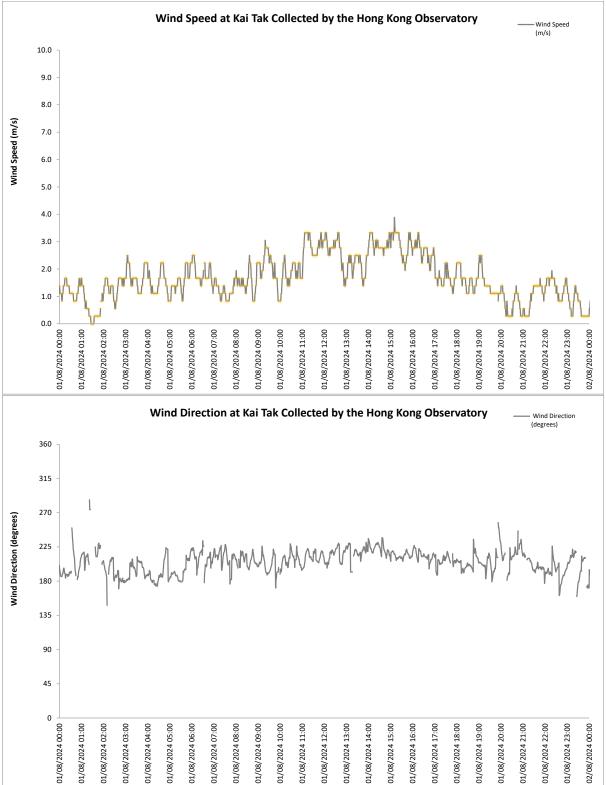
Data for Noise Monitoring at Station NMS4 during the Reporting Month

Graphical Presentation for Noise Monitoring at NMS4

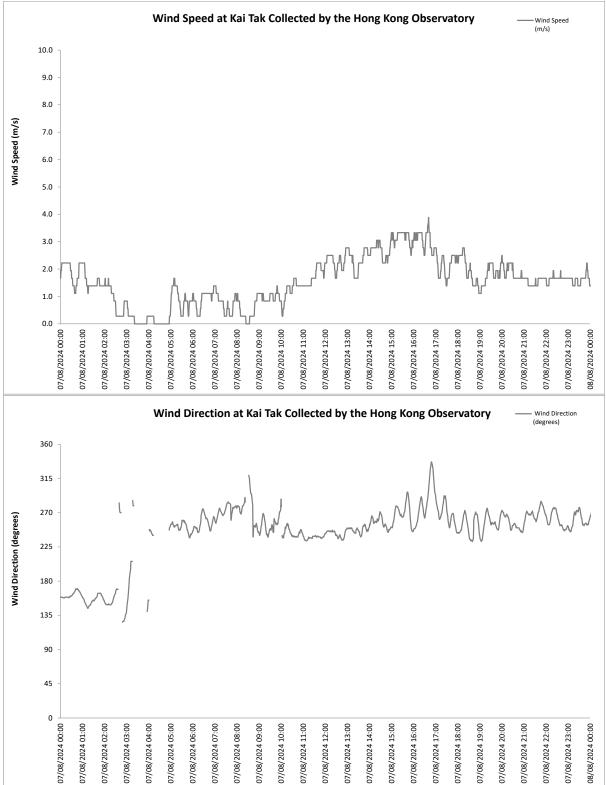


Appendix H. Wind Data

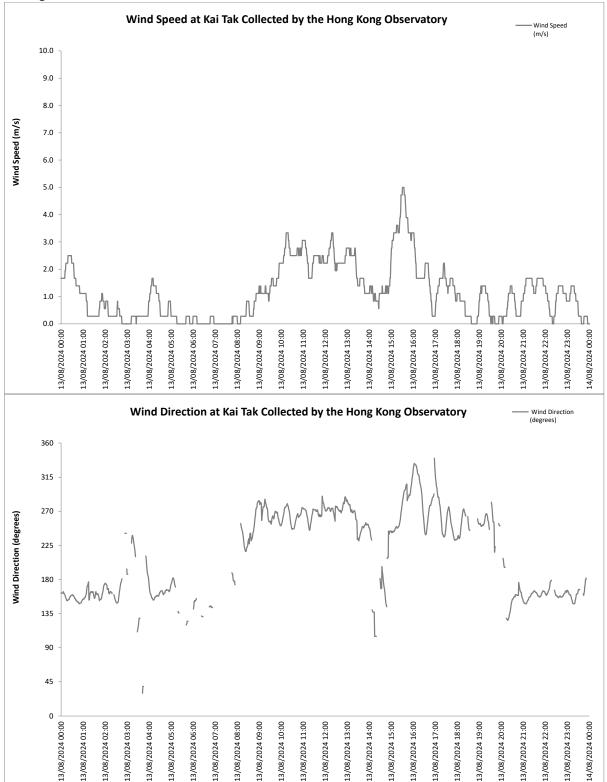




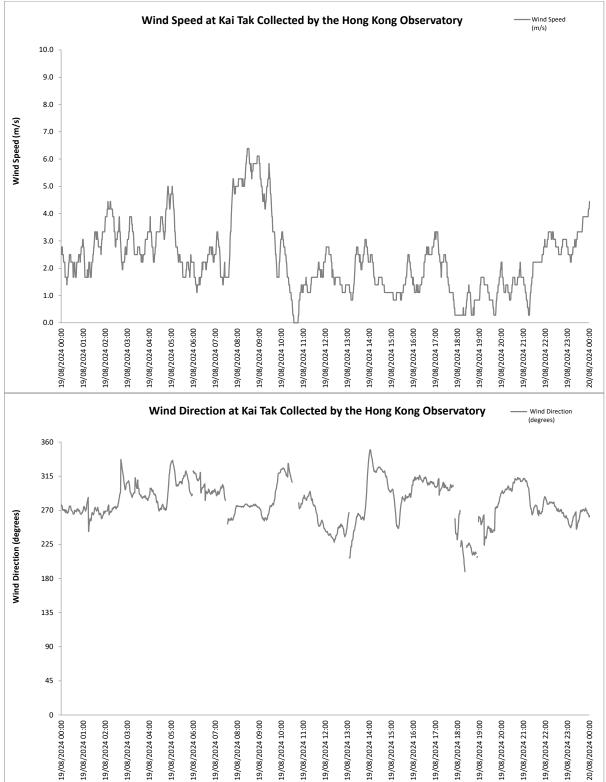




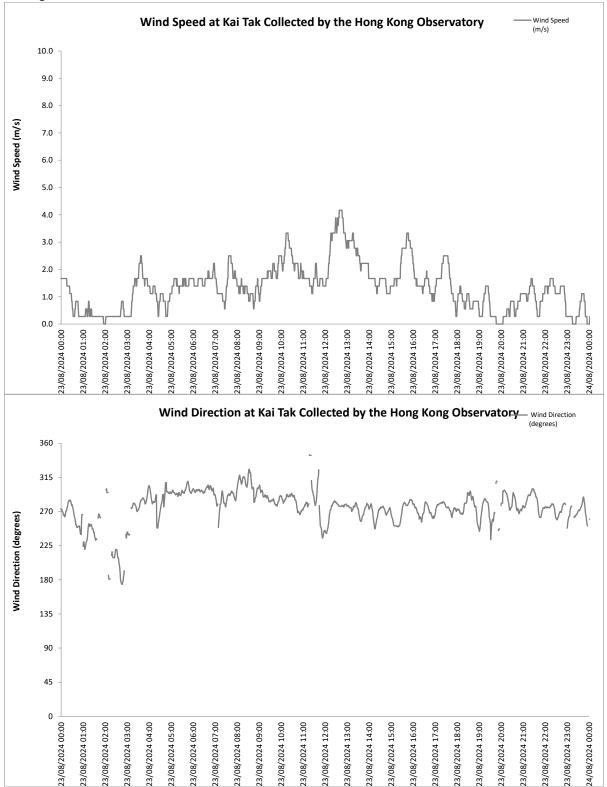




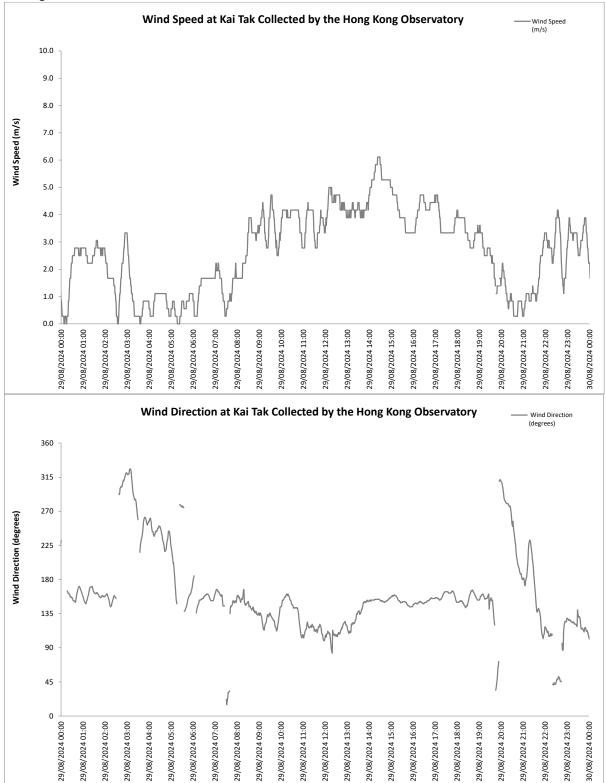












Appendix I. Waste Flow Table

Project: Kai Tak Sport Park Contract No.: HAB/ KTSP/ 01 Contract Title: Design, Construction and Operation of the Kai Tak Sports Park at Kai Tak, Kowloon City District, Hong Kong Year of Record: 2019-2024



Monthly Waste Flow Table

Month	Total	Total		Ad	tual Quantitie	s of Inert C&D	Materials Ge	nerated Month	hly		Act	ual Quantiti	es of C&D M	laterials Ge	nerated Mor	nthly	Remarks
	Quantity	Quantity	Exc	avated Mater	ials		Non-e	excavated Mat	terials		Metals	Metals	Paper /	Plastics	Chemical	Other,	
	Generated	Generated (Excluded Excavated Material)	Disposed in Public Fill	Disposed in Sorting Facilities	Others (e.g Reused in the Contract / Other Projects)	Broken Concrete or Construction Waste Collected by Recycled Company	Reused in the Contract	Reused in other Projects	Disposed in Public Fill	Disposed in Sorting Facilities	(steel bar / metal strip) ⁽¹⁾	(aluminum can) ⁽¹⁾	cardboard packaging ⁽¹⁾	(1) & (4)	waste (wasted lubricant oil/ oil container)	e.g. general refuse	
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	
	a1	a2	b	b	b	c c	d d	e e	f	g	h	i i	i i	k k	(in ocong)	(in bookg)	
2019	43517.88	8326.30	35191.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	166.07	0.00	2.05	7.92	2.00	8148.27	
2020	811029.24	6341.58	49326.08	0.00	755361.58	0.00	0.00	0.00	0.00	0.00	3170.12	0.47	10.10	20.71	2.20	3137.98	
Jan-21	78129.57	1315.84	4253.06	0.00	72560.67	0.00	0.00	0.00	0.00	0.00	393.38	0.05	2.68	1.96	0.00	917.77	
Feb-21	70013.03	912.17	10767.60	0.00	58333.26	0.00	0.00	0.00	0.00	0.00	386.46	0.07	1.24	0.64	0.00	523.76	
Mar-21	51743.64	1314.81	18740.08	0.00	31688.75	0.00	0.00	0.00	0.00	0.00	320.13	0.12	2.08	2.45	0.00	990.03	
Apr-21	16431.34	1411.19	0.00	0.00	15020.15	0.00	0.00	0.00	0.00	0.00	467.54	0.02	1.84	1.70	0.00	940.09	
May-21	39675.06	1610.42	0.00	0.00	38064.64	0.00	0.00	0.00	0.00	0.00	442.35	0.00	1.31	2.81	0.00	1163.95	
Jun-21	56589.31	1812.39	0.00	0.00	54776.92	0.00	0.00	0.00	0.00	0.00	353.07	0.02	1.10	1.37	0.00	1456.83	
Jul-21	18264.19	2544.22	0.00	0.00	15719.97	0.00	0.00	0.00	0.00	0.00	383.64	0.00	1.55	3.36	0.00	2155.67	
Aug-21	7959.53	2028.39	4150.75	0.00	1780.39	0.00	0.00	0.00	0.00	0.00	326.91	0.00	1.28	1.40	0.00	1698.80	
Sep-21	32389.58	2259.89	30129.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	269.75	0.00	1.99	2.68	0.00	1985.47	
Oct-21	34559.10	2034.74	17144.35	0.00	15380.01	0.00	0.00	0.00	0.00	0.00	289.21	0.00	1.04	2.83	0.00	1741.66	
Nov-21	34821.07	2353.58	6551.45	0.00	25916.04	0.00	0.00	0.00	0.00	0.00	164.09	0.00	1.27	3.80	0.60	2183.82	
Dec-21	10648.02	2282.17	8365.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	125.27	0.00	1.54	0.69	0.00	2154.67	
Jan-22	6238.85	2367.85	3871.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	130.89	0.00	1.43	1.76	0.00	2233.77	
Feb-22	6654.84	1294.33	5360.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	158.11	0.00	0.51	0.00	0.00	1135.71	
Mar-22	27279.95	1820.78	25459.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	162.33	0.00	0.81	0.85	0.00	1656.79	
Apr-22	15402.21	1792.21	13610.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.78	0.00	0.62	3.11	0.00	1751.70	
May-22	8425.54	2151.70	6273.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	83.12	0.00	0.61	1.47	0.00	2066.50	
Jun-22	8171.01	2700.44	5470.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	192.21	0.00	1.66	1.91	0.00	2504.66	
Jul-22	5804.34	2575.55	3228.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	238.36	0.00	1.56	4.87	0.00	2330.75	
Aug-22	11860.09	2557.97	9302.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	138.66	0.00	0.92	4.03	0.00	2414.36	
Sep-22	14721.29	2391.62	12329.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	155.67	0.00	0.52	5.72	0.00	2229.71	
Oct-22	12307.08	2428.20	9878.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.57	0.00	0.50	0.73	0.00	2411.40	
Nov-22	16034.69	2332.38	13702.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	83.73	0.00	1.07	1.24	0.00	2246.34	
Dec-22	21702.52	1944.12	19758.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.41	0.00	0.81	1.96	0.00	1926.94	
Jan-23	14065.32	1261.42	12803.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	1.54	0.00	1259.22	
Feb-23	17813.51	1729.85	16083.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.43	1.83	0.00	1726.59	
Mar-23	14767.87	2148.99	12618.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96	3.68	0.00	2144.35	
Apr-23	13579.71	1411.83	12167.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	3.06	0.00	1407.97	
May-23	9704.79	1744.90	7959.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.05	0.00	0.32	4.02	0.00	1733.51	
Jun-23	8426.09	1558.40	6867.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.74	0.00	1.17	2.17	0.00	1544.32	
Jul-23	7550.66	1632.72	5917.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.05	0.00	1.46	2.62	0.00	1615.59	
Aug-23	9846.51	1561.03	8285.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	2.70	0.00	1557.90	
Sep-23	12162.88	1393.05	10769.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.72	1.63	0.00	1389.71	
Oct-23	13388.21	1474.11	11914.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	5.02	0.00	1468.09	
Nov-23	19026.41	2051.04	16975.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	204.20	0.00	0.20	6.40	0.00	1840.23	
Dec-23	18201.46	1789.64	16411.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.31	0.00	0.00	4.38	0.00	1769.95	
Jan-24	20113.41	1685.40	18428.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.57	0.00	0.29	5.50	0.00	1668.04	
Feb-24	13274.14	898.67	12375.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.73	0.00	0.00	5.47	0.00	883.47	
Mar-24	15225.55	1537.94	13687.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	5.37	0.00	1532.37	
Apr-24	13965.14	1614.05	12351.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	6.07	0.00	1607.56	
May-24	6791.26	1238.65	5552.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	7.00	0.00	1231.09	
Jun-24	7715.02	1534.23	6180.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59	6.64	0.00	1527.00	
Jul-24	6966.17	1189.79	5776.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.36	0.00	1182.43	
Aug-24	8660.75	1630.63	7030.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.17	4.58	0.00	1624.88	
Total	1711617.81	93991.17	533024.28	0.00	1084602.38	0.00	0.00	0.00	0.00	0.00	8939.48	0.75	55.44	169.01	4.80	84821.67	

1711617.81 tonne

93991.17 tonne

9164.69 tonne 9.75 %

a1=b+c+d+e+f+g+h+i+j+k+l+m

a2=c+d+e+f+g+h+i+j+k+l+m

a3=c+d+e+h+i+j+k

a4=a3/a2 x 100%

Total C&D waste generated
Total C&D waste generated (excluding excavated materials)
Total recycled C&D waste
% of recycled C&D waste for BEAM Plus MA10 or MA11

Notes: (1) Metal, paper & plastic were collected by recycler.

(2) The performance target of waste recycling are specified in the Contract.

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

(4) Plastics refer to plastic bottles/ containers, plastic/ foam from packaging material.

(5) Broken concrete for recycling into aggregates.

(6) Excavated materials/waste will NOT be considered as part of construction waste. It should be excluded in the calculation.

(7) Disposal of inert waste to public fill or sorting facilities will NOT be considered as recycled waste.

(8)Disposal record for June 2024 and July 2024 have been updated according to the latest information from contractor in August 2024.

(9) Recycling record for metals, papers and plastics have been updated according to the latest information from contractor in August 2024.

Project: Proposed Composite Development at NKIL 6607, Shing Kai Road, Kai Tak, Kowloon

Company: Hip Hing Construction Co., Ltd. Monthly Summary Waste Flow Table

			Accumu	lated Quantities			erated Monthly				Quantities of N			1
		Total	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)
		Quantities				Excavated		Mixed						Others, e.g
	Total	Generated	Broken	Broken	Excavated	Materials	Excavated	Wastes		Paper/	Timber/Wood		Chemical	General
Month	Quantities	(excluded	Concrete	Concrete	Materials	Reused in	Materials	Diverted to	Metals	Cardboard	Pallet	Plastics	Waste	Refuse
	Generated	excavated		Diverted to	Reused in		Disposed as		Recycled	Packaging		Recycled		
		material)	Recycled	Public Fill	this Project	other	Public Fill	Sorting Facility	-	Recycled	Recycled		Collected	Disposed a Landfill
		material)			-	Projects		,						
			(in'000 kg)	(in'000 kg)	(in'000 kg)	(in'000 kg)	(in'000 kg)	(in'000 kg)	(in'000 kg)	(in'000 kg)	(in'000 kg)	(in'000 kg)	(in'000 kg)	(in'000 kg)
Aug-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Sep-21	1550.68	0.00	0	0	0	1550.68	0.00	0.00	0.00	0.00	0	0	0	0.00
Oct-21	3691.90	28.13	0	0	0	3663.77	0.00	0.00	13.17	0.00	0	0	0	14.96
Nov-21	5447.65	68.57	0	0	0	5309.20	69.88	6.05	32.40	0.00	0	0	0	30.12
Dec-21	400.90	180.45	0	0	0	63.20	157.25	0.00	138.58	0.00	0	0	0	41.87
Jan-22	1454.58	288.36	0	0	0	493.40	672.82	27.52	245.57	0.00	0	0	0	15.27
Feb-22	241.23	207.42	0	0	0	0.00	33.81	4.65	177.65	0.05	0	0	0	25.07
Mar-22	1717.06	373.58	0	0	0	0.00	1343.48	89.56	265.79	0.00	0	0	0	18.23
Apr-22	1657.01	788.84	0	0	0	0.00	868.17	87.83	684.33	0.00	0	0	0	16.68
May-22	1260.80	124.46	0	0	0	0.00	1136.34	102.49	21.97	0.00	0	0	0	0.00
Jun-22	464.11	77.27	0	0	0	0.00	386.84	55.75	21.43	0.09	0	0	0	0.00
Jul-22	813.76	98.52	0	0	0	0.00	715.24	58.30	32.29	0.00	0	0	0	7.93
Aug-22	442.84	55.11	0	0	0	0.00	387.73	54.95	0.00	0.16	0	0	0	0.00
Sep-22	786.99	91.80	0	0	0	0.00	695.19	91.80	0.00	0.00	0	0	0	0.00
Oct-22	1428.67	157.88	0	0	0	0.00	1270.79	154.05	0.00	0.00	0	0	0	3.83
Nov-22	2134.86	174.01	0	0	0	0.00	1960.85	147.07	0.00	0.63	0	0	0	26.31
Dec-22	864.13	212.59	0	0	0	0.00	651.54	198.44	0.00	0.00	0	0	0	14.15
Jan-23	885.60	135.88	0	0	0	0.00	749.72	133.59	0.00	0.00	0	0	0	2.29
Feb-23	1286.59	225.50	0	0	0	0.00	1061.09	181.53	24.35	0.52	0	0	0	19.10
Mar-23	691.22	253.47	0	0	0	0.00	437.75	149.17	71.86	0.16	0	0	0	32.28
Apr-23	3744.20	56.11	0	0	0	0.00	3688.09	30.39	0.00	0.28	0	0	0	25.44
May-23	2344.73	127.50	0	0	0	0.00	2217.23	121.58	0.00	0.00	0	0	0	5.92
Jun-23	184.99	84.02	0	0	0	0.00	100.97	82.67	0.00	0.00	0	0	0	1.35
Jul-23 Aug-23	465.69 92.13	79.17 92.13	0	0	0	0.00	386.52 0.00	74.46 83.60	0.00	0.00	0	0	0	4.71 8.53
Sep-23	92.13	92.13	0	0	0	0.00	13.46	94.65	0.00	0.00	0	0	0	6.52
Oct-23	143.00	121.62	0	0	0	0.00	21.38	94.65	0.00	0.20	0	0	0	8.65
Nov-23	106.87	106.87	0	0	0	0.00	0.00	98.35	0.00	0.00	0	0	0	8.52
Dec-23	169.09	43.68	0	0	0	0.00	125.41	42.12	0.00	0.00	0	0	0	1.56
Jan-24	339.23	24.43	0	0	0	0.00	314.80	22.15	0.00	0.00	0	0	0	2.28
Feb-24	16.43	16.43	0	0	0	0.00	0.00	10.25	0.00	0.00	0	0	0	6.18
Mar-24	42.68	22.19	0	0	0	0.00	20.49	17.77	0.00	0.00	ů 0	0	0	4.42
Apr-24	20.41	15.13	0	0	0	0.00	5.28	5.70	0.00	0.00	0	0	0	9.43
May-24	36.80	36.80	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0	0	36.80
Jun-24	42.54	42.54	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0	0	42.54
Jul-24	52.35	52.35	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0	0	52.35
Aug-24	44.12	44.12	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0	0	44.12
Total	35180.67	4608.30	0	0	0	11080.25	19492.12	2339.25	1729.39	2.24	0.00	0.00	0.00	537.41

Total C&D Waste generated Total C&D waste generated (Exc Total C&D waste recycled	luded excavated materials)			35180.67 4608.30 1731.64	Tons Tons Tons
Waste Recycling Rate =	(a) + (g) + (h) + (i) + (j) (a) + (b) + (f) + (g) + (h) + (i) + (j) + (l)	X 100%	=	37.58%	

Note: For BEAM Plus certification scheme, excavated materials are excluded from the calculation of the waste reduction rate Record with <u>Underlined</u> indicated updated content

Appendix J. Environmental Licences and Permits

Item No.	Type of Permit / Licence	Reference No.	Application Date	Valid from	Valid until	Remark
1	Environmental Permit under EIAO	EP-544/2017	21 Aug 2017	8 Sep 2017	N/A	Issued
2	Construction Dust Notification under APCO	441733	25 Jan 2019	29 Jan 2019	N/A	N/A
3	Construction Waste Disposal Account (Main)	7033182	12 Feb 2019	12 Feb 2019	N/A	N/A
4	Registration as a Chemical Waste Producer	WPN5213- 286-H3906-02	29 Jan 2019	12 Feb 2019	N/A	N/A
5	Discharge Licence under WPCO	WT10002906- 2024	7 Feb 2024	1 Jul 2024	30 Jun 2029	Issued
6	Construction Noise Permit (Construction Works, Southern Site)	GW-RE0440- 24	22 Mar 2024	20 Apr 2024	19 Aug 2024	Superseded by GW- RE0912-24 on 20 Aug 2024
7	Construction Noise Permit (Construction Works, Northern Site)	GW-RE0498- 24	8 Apr 2024	30 Apr 2024	29 Aug 2024	Superseded by GW- RE1008-24 on 30 Aug 2024
8	Construction Noise Permit (Construction Works, Southern Site)	GW-RE0912- 24	17 Jul 2024	20 Aug 2024	19 Feb 2025	Issued
9	Construction Noise Permit (Special Shing Kai Road)	GW-RE0913- 24	19 Jul 2024	5 Aug 2024	30 Aug 2024	Issued
10	Construction Noise Permit (Construction Works, Northern Site)	GW-RE1008- 24	5 Aug 2024	30 Aug 2024	28 Feb 2025	Issued

Table J.1: Summary of Environmental Licences and Permits Status (KTSP)

Table J.2: Summary of Environmental Licences and Permits Status (H/O Development)

ltem No.	Type of Permit / Licence	Reference No.	Application Date	Valid from	Valid until	Remark
1	Environmental Permit under EIAO	EP-544/2017	21 Aug 2017	8 Sep 2017	N/A	lssued
2	Construction Dust	458255	17 Jul 2020	17 Jul 2020	N/A	N/A
	Notification under APCO	470045	29 Jul 2021	29 Jul 2021	N/A	N/A
3	Construction Waste Disposal Account (Main)	7041267	29 Jul 2021	11 Aug 2021	N/A	Issued
4	Registration as a Chemical Waste Producer	WPN5211- 286-H1103- 23	29 Jul 2021	24 Aug 2021	N/A	lssued
5	Discharge Licence under WPCO	WT00039490 -2021	6 Aug 2021	9 Nov 2021	30 Nov 2026	lssued

Appendix K. Environmental Mitigation Measures Implementation Status

Air Quality – Recommended Mitigation Measures

ir Quality Mitigation Measures during construction		entation Itus
	KTSP	H/O
Good housekeeping to minimize dust generation, e.g. by properly handling and storing dusty materials	\checkmark	\checkmark
• Store cement in shelter with 3 sides and the top covered by impervious materials if the stack exceeds 20 bags	~	~
 Cement delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed 	N/A	N/A
 Loading, unloading, transfer, handling or storage of bulk cement should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system 	~	✓
 Dusty materials (e.g. debris) should be wetted by misting / water-spraying before any loading, unloading, transfer or transport operation 	✓	~
 Any skip hoist for material transport should be fully enclosed by impervious sheeting 	✓	\checkmark
 Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously 	Р	✓
 Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities to maintain the entire surface wet 	~	✓
 Excavation area should be minimized as far as possible 	✓	✓
 Stockpile of dusty materials should not be extended beyond the pedestrian barriers, fencing or traffic cones 	✓	✓
• Excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet, and then removed, backfilled or reinstated where practicable within 24 hours of the excavation or unloading	✓	\checkmark
 Dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads 	✓	~
 Properly fitted side and tail boards are necessary for any vehicle with open load area 	✓	✓
 While transporting materials that potentially create dust (e.g. debris), materials should not be loaded higher than side and tail boards, and should be fully covered by tarpaulin or similar materials which extent at least 300 mm over the edges of the side and tail boards to prevent leakage. 	✓	✓
 Limit the maximum vehicle speed within the site to 10km/hr 	✓	✓
 Haulage and delivery vehicles should be confined to designated roads 	✓	\checkmark
 Every main haul road should either be 1.) paved with concrete and kept clear of dusty materials, or 2.) sprayed or watered to maintain the entire road surface wet 	Ρ	√
 All on-site unpaved roads should be compacted and kept free of lose materials as possible 	✓	✓
 Provide vehicle washing (e.g. wheel washing bay & high pressure water jet where practicable) at every vehicle exit point for cleaning vehicle body and wheels 	✓	✓
 The vehicle washing area and the road between washing area and site exit should be paved with concrete, bituminous or other hardcores 	✓	~
 The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials. 	✓	✓
 Dusty materials on every vehicle's body and wheels should be removed in washing area before leaving the site 	✓	~

Air Quality Mitigation Measures during construction		entation itus
	KTSP	H/O
Regular maintenance of all plant equipment	\checkmark	✓
 Throttle down or switch off unused machines or machine in intermittent use 	✓	✓
 If the site is adjacent to area where accessible to the public (e.g. road and service lane etc.), hoarding of not less than 2.4 m high from ground level should be erected along the adjoining the entire length of that portion of the site boundary, except for a site entrance or exit. The hoarding should be well maintained throughout the construction period. 	✓	N/A
 Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding 	✓	N/A
 Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shortcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies 	✓	~
Carry out air quality monitoring throughout the construction period	✓	✓
 Carry out weekly site inspection to audit the implementation of mitigation measures 	✓	✓
 Regular watering once per hour on exposed worksites and haul road with an equivalent intensity of not less than 1.3L/m3 to achieve 91.7% dust removal efficiency. 	✓	√
 Provision of electrical vehicle (EV) charging facilities in at least one-third of the car parking spaces for private cars. Provision of EV charging enabling facilities in all car parking spaces provided for private cars. 	\checkmark	✓
Non-Road Mobile Machinery (NRMMs)		
 All NRMMs operated on-site are approved or exempted (as the case may be) and affixed with the requisite approval/exemption labels under the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation or are in the process of application for such approval/exemption during the relevant grace period. 	Ρ	~

Noise – Recommended Mitigation Measures

Noise Mitigation Measures during construction	Impleme Stat	
	KTSP	H/O
 Adopt good site practice, such as throttle down or switch off equipment unused or intermittently used between works 	\checkmark	✓
 Regular maintenance of equipment to prevent noise emission due to impair 	√	✓
 Position mobile noisy equipment in locations away from NSRs and point the noise sources to directions away from NSRs 	✓	✓
Use silencer or muffler for equipment	\checkmark	✓
Make good use structures for noise screening	✓	✓
 Use Quality Powered Mechanical Equipment (QPME) and quiet equipment which produces lower noise level. 	✓	✓
• Erect movable noise barrier of 3m height to shed large plant equipment (e.g. breaker, backhoe & mobile crane) or hand-held items (e.g. poker, wood saw, power rammer & compactor) near low-rise NSR. Where necessary, special design (e.g. with noise absorbing material or bend top) should be adopted. The barrier's length should be at least five times greater than its height, and the minimum surface density is 10 kg/m2. Alternatively, acoustic shed, enclosure or silencer (for generator, air compressor and concrete pump) or acoustic mat (for piling) can be adopted.	N/A	N/A
 Carry out regular site inspection to audit the implementation of mitigation measures 	✓	\checkmark
Carry out noise monitoring throughout the construction period	✓	✓

Water Quality – Recommended Mitigation Measures

Water Quality Mitigatio	n Measures during construction	Impleme Stat	
		KTSP	H/O
Practices outlined in ProF	PECC PN 1/94 Construction Site Drainage should be adopted.	✓	\checkmark
 Install perimeter channels commencement of any early 	s in the works areas to intercept runoff from boundary prior to the arthwork	\checkmark	√
 To prevent storm runoff fr provided. 	rom washing across exposed soil surfaces, intercepting channels should be	\checkmark	√
	equired to convey site runoff to sand/silt traps and oil interceptors. Provision naintenance to ensure the normal operation of these facilities throughout the	✓	✓
 Any practical options for t engineering and environn 	the diversion and realignment of drainage should comply with both nental requirements	\checkmark	√
	0 m should be maintained between the discharge points of construction site SD saltwater intake and EMSD cooling water intake.	√	√
operated by the MTR SC maintained between vess generated by turbulence	neasures should be adopted for the use of the existing barging facilities being L Project: - All vessels should be sized so that adequate clearance is sels and the seabed in all tide conditions, to ensure that undue turbidity is not from vessel movement or propeller wash. In the fitted with tight fitting seals to their bottom openings to prevent leakage	N/A	N/A
of material.	hould not cause foam, oil, grease, scum, litter or other objectionable matter		
•	hoppers should be controlled to prevent splashing of material into the		
0	Id not be filled to a level that will cause the overflow of materials or polluted ansportation.		
 The runoff and wastewate standards listed in the TM 	er generated from the works areas should be treated so that it satisfies all the <i>I</i> -DSS.	✓	✓
• Reuse and recycling of the second s	he treated effluent from construction site runoff.	\checkmark	\checkmark
	be carried out to check the implementation status of the recommended pation measures throughout construction period.	✓	√
 The construction prograr seasons. 	mme should be properly planned to minimise soil excavation, if any, in rainy	✓	√
 Any exposed soil surface 	s should be properly protected to minimise dust emission.	✓	✓
 In areas where a large ar 	nount of exposed soils exist, earth bunds or sand bags should be provided.	✓	√
 Exposed stockpiles shoul 	ld be covered with tarpaulin or impervious sheets at all times.	✓	✓
 The stockpiles of materia avoid releasing materials 	Is should be placed at locations away from any stream courses so as to into the water bodies.	√	√
 Final surfaces of earthwo 	rks should be compacted and protected by permanent work.	√	\checkmark
 Haul roads should be pay stone or gravel, wherever 	ved with concrete and the temporary access roads protected using crushed r practicable.	✓	\checkmark
	should be provided at all site exits to ensure that earth, mud and debris of the works areas by vehicles.	✓	✓
 Good site practices shou litter on the construction s 	IId be adopted to keep the site dry and tidy, such as clean the rubbish and sites.	Р	√
 Adequate temporary site 	e drainage and pumping should be provided, if necessary.	\checkmark	\checkmark
	rary toilets in the works areas. The toilet facilities should be more than 30 m licensed waste collector should be deployed to clean the temporary toilets on	√	✓
	d at conspicuous locations to remind the workers not to discharge any	✓	1

Water Quality Mitigation Measures during construction	Impleme Stat	
	KTSP	H/O
 Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes. 	~	~
 Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges. 	\checkmark	~
Clean the construction sites on a regular basis.	✓	✓
 Oil interceptor in car parking area shall be designed and constructed according to Practice Note for Authorized Persons, Registered Structural Engineers and Registered Geotechnical Engineers, APP- 46 (PNAP 124) 	✓	N/A
 Provide two sequential storage tanks to contain surface water with residual fertilizers and pesticides and third holding tank for incidental rainstorm 	N/A	N/A
Sewerage and Sewage Treatment Implications		
 Implementation of Sewer No. 1 and Sewer No.2 as proposed in Sections 7.2.2 - 7.2.3 of the EIA Report 	\checkmark	√

Waste Management – Recommended Mitigation Measures

Vaste Management Mitigation Measures during construction		ntation us
	KTSP	H/O
 Inert C&D materials (or public fills) will be used to form the ramps and other filling area as far as civil engineering design permits. 	✓	√
 The contractor should formulate waste management measures on waste minimization, storage, handling and disposal in a Waste Management Plan as part of Environmental Management Plan. 	√	~
 Adopt good site practice as follows: Provide training to workers on site cleanliness, waste management (waste reduction, reuse and recycle) and chemical handling procedures 	Р	√
 Provide sufficient waste collection points and regular removal Cover waste materials with tarpaulin or in enclosure during transportation 		
 Maintain drainage systems, sumps and oil interceptors Sort out chemical waste for proper handling and treatment onsite or offsite 		
 Adopt waste reduction measures as follows: Allocate area/containers for sorting, recovering and storing waste for reuse, recycle or disposal (e.g. demolition debris and excavated materials, general refuse like aluminium cans.) Remove waste from the Site for sorting once generated if no suitable space can be identified. Allocate area for proper storage of construction materials to prevent contamination 	1	V
- Minimize wastage through careful planning and avoiding over-purchase of construction materials		
 Store waste materials properly as follows: Avoid contamination by proper handling and storing waste Prevent erosion by covering waste Apply water spray on excavated materials Maintain and clean storage area regularly Sort and stockpile different materials at designated location to enhance reuse 	1	V
• Apply for relevant waste disposal permits in accordance with the Waste Disposal Ordinance (Cap. 354), Waste Disposal (Charges for Disposal of Construction Waste) Regulation (Cap. 345) and the Land (Miscellaneous Provisions) Ordinance (Cap. 28), Dumping at Sea Ordinance (Cap. 466).	V	~
 Hire licensed waste disposal contractors for waste collection and removal. Dispose waste at licensed waste disposal facilities. 	√	√
 Implement trip-ticket system for recording the amount of waste generated, recycled and disposed, including chemical wastes 	✓	~

Waste Management Mitigation Measures during construction	Implemer State	
	KTSP	H/O
 Reduce water content in wet spoil generated from piling work by mixing with dry materials. Only dispose treated spoil with less than 25% dry density to Public Fill Reception Facilities 	\checkmark	√
 Dispose dry waste or waste with less than 70% water content by weight to landfill 	\checkmark	✓
 Follow the Code of Practice on the Packaging, Labelling and Storage of Chemical Waste as follows: Store chemical wastes with suitable containers. Seal and maintain the container to avoid leakage or spillage during storage, handling and transport Label chemical waste containers in both English and Chinese with instructions in accordance to Schedule 2 of the Waste Disposal (Chemical Waste) (General) Regulation 	✓	~
- The container capacity should be smaller than 450 litres unless agreed by the EPD		
 Comply with the requirement of the chemical storage area: Store only chemical waste and label clearly the chemical characters of the waste Have at least 3 sides enclosed and protected from rainfall with cover Provide sufficient ventilation Have impermeable floor and has bunds to contain 110% of the capacity of the largest container or 	Ρ	~
20% of the total volume of the stored waste in the area, whichever is larger - Adequately spaced incompatible materials		
 Transfer used lubricants, waste oils and other chemicals to oil recycling companies, if possible, and empty oil drums for reuse or refill. No direct or indirect discharge is permitted 	\checkmark	✓
• Hire licensed chemical waste disposal contractors for waste collection and removal. Dispose chemical waste at the approved Chemical Waste Treatment Centre at Tsing Yi or other licensed facility	\checkmark	~
 Hire reputable waste collector to separately collect and dispose general refuse from other wastes. Cover the waste to prevent being blown away 	\checkmark	~
 The hauling of C&D materials shall follow established environmental mitigation measures as stated in Practice Note for Registered Contractors No. 17 "Control of Environmental Nuisance from Construction Sites" issued by the Buildings Department 	✓	~
 Provide recycling bins for sorting out recyclables for collection by recycling companies. Non- recyclables should be removed to designated landfills every day by licensed collectors to prevent environmental and health nuisance. 	✓	~
• Organize training and reminders to site staff on waste minimization through avoidance and reduction, reusing and recycling	✓	√
 Bentonite slurry which will not be reused shall be disposed of from the Site as soon as possible. Residual used dewatered bentonite slurry should be disposed to a public filling area and liquid bentonite slurry if mixed with inert fill material should be disposed to a public filling area. 	N/A	N/A
If chemical wastes were to be produced at the construction site, the Contractor would be required to register with the EPD as a Chemical Waste Producer, and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the waste such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport the chemical wastes.	~	~
 The licensed collector shall deliver the waste to the Chemical Waste Treatment Centre at Tsing Yi, or other licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation 		
 Carry out weekly site inspection to check the implementation status of the recommended waste management measures. 	√	√
 The barging of C&DM for this Project shall use the existing Kai Tak Barging Facility (KTBF), or otherwise approved by the Director. 	N/A	N/A

Ecology – Recommended Mitigation Measures

Ecology Mitigation Measures during construction		Implementation Status	
	KTSP	H/O	
 Erection of hoarding, fencing or provision of clear demarcation of work zone 	\checkmark	\checkmark	
 Designate areas for placement of equipment, building materials and wastes away from drainage channels 	\checkmark	✓	
 Carry out weekly site inspection to check the implementation status and the effectiveness of the proposed mitigation measures 	\checkmark	✓	

Landscape and Visual – Recommended Mitigation Measures

Landscape and Visual Mitigation Measures during construction	Impleme Stat	
	KTSP	H/O
Construction Lighting Control	\checkmark	✓
 All security floodlights for construction sites should be equipped with adjustable shields, frosted diffusers and reflective covers, and be controlled to minimize light pollution and night-time glare to the visual sensitive receivers (VSRs). 		
Temporary Landscape Treatments	✓	N/A
 Including vertical greening, pot planting and application of green roofing to site offices, Hydroseeding of site formation areas and short term greening of site boundaries and land not immediately developed. 		
Decoration of Hoarding	✓	\checkmark
 Erection of screen hoardings should be designed appropriately to be compatible with the existing urban context, either brightly and imaginatively or with visually unobtrusive design and colours where more appropriate. 		
All security floodlights for construction sites shall be equipped with adjustable shield, frosted diffusers and reflective covers, and be carefully controlled to minimize light pollution and night-time glare to nearby receivers	✓	√
Site inspection should be undertaken once every two weeks.	✓	✓
Compensatory Tree Planting	✓	N/A
- A new parkland area is created in the project development to be used for the implementation of compensatory tree planting to offset the net loss of key landscape resources. It is recommended that 340 trees be planted in this regard and a compensatory tree planting proposal outlining the locations of tree compensation will be submitted separately in seeking relevant government department's approval in accordance with DEVB TC No.7/2015.		

Other – Recommended Mitigation Measures

 Relevant environmental permits/licences should be posted at all vehicle entrances/exits. 	\checkmark	\checkmark

Legend:

\checkmark	Implemented
×	Not implemented
Р	Partially implemented
N/A	Not applicable

Appendix L. Statistics on Environmental Complaints, Notification of Summons and Successful Prosecutions

 Table L.1: Statistics on Environmental Complaints, Notifications of Summons and

 Successful Prosecutions

Reporting Period	Complaints	Notifications of Summons	Successful Prosecutions
This reporting period (Aug 2024)	0	0	0
From commencement data of construction to end of reporting month	40	0	0

Appendix M. Exceedance Investigation Report

DETAIL OF EXCEEDA	NCE	Ref: EXC_0018
Monitoring Date:	13 August 2024	
Monitoring Time:	9:20 a.m.	
Monitoring Parameter:*	Dust Noise Water Other	
Monitoring Station:	NMS1-T2 (Roadside at 138 To Kwa Wan Road)	
Measured Level:	75.2 dB	
Level Exceeded:	Limit Level Exceedance	
INVESTIGATION RESU	JLT & RESPONSE	
ET, IEC and SOR notifie	d on: 2 September 2024	
Investigation conducted of	2 September 2024	
as following: According to the informat 138 To Kwa Wan Road I with heavy vehicles were	was carried out with the contractor on 2 September 2024, the result ion from subcontractor, noise monitoring was carried out at noise mo between 09:20 a.m. and 09:50 a.m. 13 August 2024. Nearby road t observed during the monitoring period. (Photo 1a and 1b) No spect observed during the monitoring period at NMS1-T2.	onitoring station NMS1-T2 at roadside raffic noise along To Kwa Wan Road

Exceedance Investigation Report

Regular noise mitigation measure had been implemented to prevent possible environmental nuisance included:

1. Power Mechanical Equipment with Quality Power Mechanical Equipment (QPME) labels were used at site to lower the noise nuisance to the nearby residents. (Photo 2)

2. Regular site inspection was carried out to audit the implementation of mitigation measures (Photo 3)

In conclusion, the Limit Level noise exceedance at monitoring station NMS1-T2 is mainly due to nearby traffic noise along To Kwa Wan Road and not related to the Kai Tak Sports Park Project.

RECOMMENDATIONS / MITIGATION MEASURES / ACTIONS

Environmental mitigation measures have been maintained as follow:

Sung Chan

1. Power Mechanical Equipment with Quality Power Mechanical Equipment (QPME) labels were used at site to lower the noise nuisance to the nearby residents. (Photo 2)

2. Regular site inspection was carried out to audit the implementation of mitigation measures on site. (Photo 3)

5.Implementation of construction noise mitigation measures recommended in EIA's Environmental Mitigation Implementation Schedule.

Title:

Date:

Prepared by: Sunny Chan

Environmental Team Leader

2 September 2024

Signature:

Attachment:	
Photo Record:	



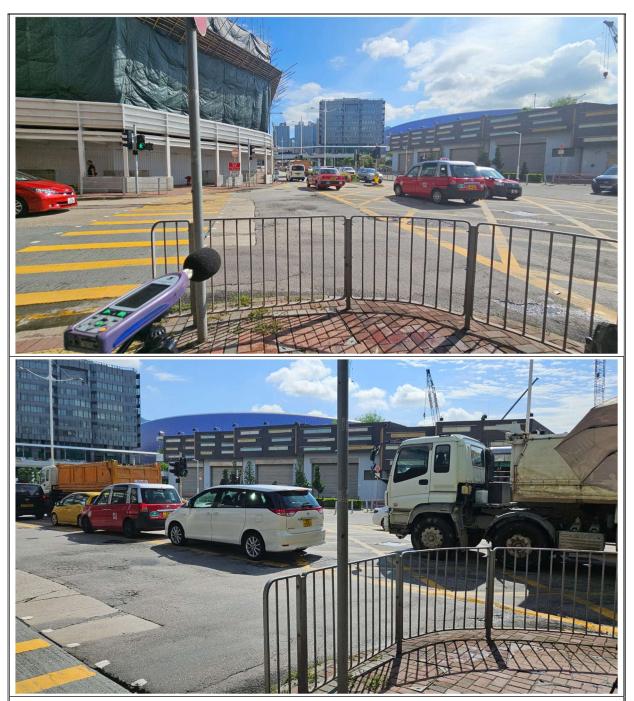


Photo 1a and 1b: Nearby road traffic along To Kwa Wan Road at NMS1-T2 on 13 August 2024.



Environmental Monitoring and Audit



Photo 2: Power Mechanical Equipment with Quality Power Mechanical Equipment (QPME) labels were used at site to lower the noise nuisance to the nearby residents.



Photo 3: Regular site inspection was carried out to audit the implementation of mitigation measures on site.

DETAIL OF EXCEEDA	NCE					Ref: EXC 00)19
Monitoring Date:	19 Augu	st 2024					
Monitoring Time:	9:33 a.m						
Monitoring Parameter:*	Dust	Noise	Water	Other			
Monitoring Station:			e at 138 To 1	Kwa Wan R	oad)		
Measured Level:	75.5 dB				,		
Level Exceeded:	Limit Le	vel Exceeda	ince				
INVESTIGATION RES	JLT & RE	SPONSE					
ET, IEC and SOR notifie	d on:		2 September	r 2024			
Investigation conducted	on:		2 September	r 2024			
Result of investigation:							
Exceedance investigation as following:	i was carri	ed out with	the contract	or on 2 Sep	otember 2024	4, the results of investigation	were summarized
138 To Kwa Wan Road	between 09 observed	33 a.m. an during the r	d 10:03 a.m nonitoring p	n. 19 Augus Deriod. (Pho	t 2024. Near to 1a and 1b	t noise monitoring station NM by road traffic noise along T) No specific noisy construct	o Kwa Wan Road
Regular noise mitigation	measure h	ad been imp	lemented to	prevent po	ssible enviro	nmental nuisance included:	
1. Power Mechanical Eq nuisance to the nearby re			Power Mecl	hanical Equ	ipment (QP	ME) labels were used at site	to lower the noise
2. Regular site inspection	was carrie	ed out to aud	lit the imple	mentation of	of mitigation	measures (Photo 3)	
In conclusion, the Limit Kwa Wan Road and not					n NMS1-T2	is mainly due to nearby traff	ĩc noise along To

RECOMMENDATIONS / MITIGATION MEASURES / ACTIONS

Environmental mitigation measures have been maintained as follow:

Sumy Chan

1. Power Mechanical Equipment with Quality Power Mechanical Equipment (QPME) labels were used at site to lower the noise nuisance to the nearby residents. (Photo 2)

2. Regular site inspection was carried out to audit the implementation of mitigation measures on site. (Photo 3)

5.Implementation of construction noise mitigation measures recommended in EIA's Environmental Mitigation Implementation Schedule.

Title:

Date:

Prepared by: Sunny Chan

Environmental Team Leader

2 September 2024

Signature:



Attachment: **Photo Record:**

Photo 1a and 1b: Nearby road traffic along To Kwa Wan Road at NMS1-T2 on 19 August 2024.



Environmental Monitoring and Audit



Photo 3: Regular site inspection was carried out to audit the implementation of mitigation measures on site.

Exceedance Investigation Report

DETAIL OF EXCEEDA	NCE				Ref: EXC_0020
Monitoring Date:	29 August 2024				
Monitoring Time:	9:17 a.m.				
Monitoring Parameter:*	Dust Noise	Water	Other		
Monitoring Station:	NMS1-T2 (Roadsi	de at 138 To I	Kwa Wan Roa	ad)	
Measured Level:	78.5 dB(A)				
Level Exceeded:	Limit Level Excee	lance			
INVESTIGATION RESU	JLT & RESPONSE				
ET, IEC and SOR notifie	d on:	2 September	r 2024		
Investigation conducted of	on:	2 September	r 2024		
Result of investigation:					
Exceedance investigation was carried out with the contractor on 2 September 2024, the results of investigation were summarized as following:					

According to the information from subcontractor, noise monitoring was carried out at noise monitoring station NMS1-T2 at roadside 138 To Kwa Wan Road between 09:57 a.m. and 10:27 a.m. 29 August 2024. Nearby demolition work at The Hong Kong Society for the Blind Workshop along Mok Cheong Street was observed during the monitoring period. (Photo 1a and 1b) No specific noisy construction activities from Kai Tak Sports Park was observed during the monitoring period at NMS1-T2.

Regular noise mitigation measure had been implemented to prevent possible environmental nuisance included:

1. Power Mechanical Equipment with Quality Power Mechanical Equipment (QPME) labels were used at site to lower the noise nuisance to the nearby residents. (Photo 2)

2. Regular site inspection was carried out to audit the implementation of mitigation measures (Photo 3)

In conclusion, the Limit Level noise exceedance at monitoring station NMS1-T2 is mainly due to nearby demolition work at The Hong Kong Society for the Blind Workshop along Mok Cheong Street and not related to the Kai Tak Sports Park Project.

RECOMMENDATIONS / MITIGATION MEASURES / ACTIONS

Environmental mitigation measures have been maintained as follow:

Sumy Chan

1. Power Mechanical Equipment with Quality Power Mechanical Equipment (QPME) labels were used at site to lower the noise nuisance to the nearby residents. (Photo 2)

2. Regular site inspection was carried out to audit the implementation of mitigation measures on site. (Photo 3)

5.Implementation of construction noise mitigation measures recommended in EIA's Environmental Mitigation Implementation Schedule.

Title:

Date:

Prepared by: Sunny Chan

Environmental Team Leader

2 September 2024

Signature:



Attachment:

Photo Record:



Photo 1a and 1b: Nearby demolition work at The Hong Kong Society for the Blind Workshop and Hostel on 29 August 2024.



Environmental Monitoring and Audit



Photo 2: Power Mechanical Equipment with Quality Power Mechanical Equipment (QPME) labels were used at site to lower the noise nuisance to the nearby residents.



Photo 3: Regular site inspection was carried out to audit the implementation of mitigation measures on site.