

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

Monthly EM&A Report for March 2022

April 2022

Home Affairs Bureau
1/F, Block A, Kai Tak Sports Park
Site Office, Muk Tai Street,
Kai Tak, Kowloon

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

Monthly EM&A Report for March 2022

April 2022



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. 36 (March 2022)
Date of Report:	12 April 2022
Date received by IEC:	12 April 2022

Reference EP Condition

Environmental Permit Condition:	3.4
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.	

IEC Verification

I hereby verify that the above referenced document/ plan complies with the above referenced condition of EP-544/2017.	
	
Ms Mandy To	Date: 13 April 2022
Independent Environmental Checker	



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 March 2022
Date of Report:	April 2022
Date received by ETL:	13 April 2022

Reference EP Condition

Environmental Permit Condition:	3.4
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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.

ETL Certification

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

Mr Sunny Chan
Environmental Team Leader

Date: 13 April 2022

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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.

This is the 36th 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 March 2022.

Key Construction Works in the Reporting Period

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

KTSP

- Rebar fixing;
- Mobilization and lifting;
- Concreting;
- Excavation; and
- Main Stadium pre-cast material delivery.

H/O Development

- Excavation;
- Rebar fixing; and
- Concreting.

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*, AMS2	2*, 8*, 14*, 18*, 24*, 30* Mar 2022
Noise Monitoring (L _{eq} (30 min))	NMS1-T*, NMS2	2*, 8*, 14*, 24*, 30* Mar 2022
Weekly environmental site inspections	-	2, 9, 16, 23, 30 Mar 2022
Landscape and visual site inspections	-	9, 23 Mar 2022

*Note:

During the reporting period, monitoring station, Hong Kong Society for the Blind Workshop (AMS1 and NMS1), was temporary suspended from 1 March 2022 to 31 March 2022, due to temporary closure for disinfection.

Agriculture, Fisheries and Conservation Department Kowloon Animal Management Centre (AMS1-T and NMS1-T) was proposed to conduct dust monitoring (2, 8, 14, 18, 24, 30 March 2022) and noise monitoring (2, 8, 14, 24, 30 March 2022) during the suspended 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. The details of temporary monitoring station 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

There was no breach of Action or Limit Levels for noise level during the reporting month.

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

- Rebar fixing;
- Mobilization and lifting;

- Concreting;
- Excavation; and
- Main Stadium pre-cast material delivery.

H/O Development

- Excavation;
- Rebar fixing; and
- Concreting.

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;
- d. 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.

This is the 36th Monthly EM&A Report summarising the key findings of the construction phase EM&A programme from 1 to 31 March 2022 (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 **Appendix A**. The key personnel contact names and numbers are summarized in **Table 1.1**.

Table 1.1: Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
Project Proponent (Home Affairs Bureau)	Project Director (Sports Park)	Edwin Wong	3586 3403	3586 0591
Supervising Officer's Representative (Home Affairs Bureau)	Senior Engineer	Keith Man	3586 3149	3586 0591
Environmental Team (Mott MacDonald Hong Kong Limited)	Environmental Team Leader	Sunny Chan	2828 5962	2827 1823
	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 Park Limited)	Assistant Contract Manager	Eric Chung	3552 5003	2845 9295
	Environmental Officer	Gary Yim	3552 5013	3552 5099
Hotel and Office Development				
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	Ian Ku	6099 9686	-
24-hour Community Liaison Hotline	-	-	5587 6112	-

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

- Rebar fixing;
- Mobilization and lifting;
- Concreting;
- Excavation; and
- Main Stadium pre-cast material delivery.

H/O Development

- Excavation;
- Rebar fixing; and
- Concreting.

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 noise 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, three air sensitive receivers are planned residential use and were not available for baseline monitoring; the same three 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
AMS2	Sky Tower, Podium of Tower 7	Existing Air Sensitive Receiver
AMS3	Kai Tak Area 2B Site 4 (2B4) (residential use)	Planned Air Sensitive Receiver
AMS4	Kai Tak Area 1K Site 3 (1K3) (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 AMS1 and AMS2 were set up at the proposed locations for impact monitoring.

Permission on setting up and carrying out impact monitoring works at AMS3, AMS4 and AMS5 will be sought once each respective development is completed and occupied.

During the reporting period, monitoring station AMS1 was temporary suspended from 1 March 2022 to 31 March 2022, due to temporary closure for disinfection at the Hong Kong Society for the Blind Workshop. Temporary air quality monitoring station, AMS1-T, was used to conduct dust monitoring on 2, 8, 14, 18, 24 and 30 March 2022. 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. The details of temporary monitoring

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

Table 2.3: Temporary Construction Dust Monitoring Location

Monitoring Station	Location	Status
AMS1-T	Agriculture, Fisheries and Conservation Department Kowloon Animal Management Centre, 102 Sung Wong Toi Road	Existing Air Sensitive Receiver

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, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
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 and AMS2 in the reporting period is presented in **Appendix E**.

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 and AMS2 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: 2Z6239, 276017)

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 **Appendix F**.

2.8 Monitoring Results

The monitoring results for 1-hour TSP at AMS1-T and AMS2 are summarized in **Table 2.6**. Detailed impact air quality monitoring results are presented in **Appendix G**.

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

Monitoring Station	Average, $\mu\text{g}/\text{m}^3$	Min, $\mu\text{g}/\text{m}^3$	Max, $\mu\text{g}/\text{m}^3$	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
AMS1-T	65	29	89	283	500
AMS2	61	28	85	280	500

There was no Action and Limit Level exceedance of 1-hr TSP level recorded at station AMS1-T and AMS2 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 **Appendix H**. 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, five noise sensitive receivers are planned residential use (NMS1A, NMS2A, NMS3, NMS4 and NMS5) and were not available for baseline monitoring; the same five are also currently not available for impact monitoring.

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 Workshop, Roof Floor	Existing Noise Sensitive Receiver
NMS2	Sky Tower, Podium of Tower 7	Existing Noise Sensitive Receiver
NMS1A	Sung Wong Toi Road Public Housing Site	Planned Noise Sensitive Receiver
NMS2A	Sung Wong Toi Road CDA Site (mixed use)	Planned Noise Sensitive Receiver
NMS3	Kai Tak Area 2B Site 4 (2B4) (residential use)	Planned Noise Sensitive Receiver
NMS4	Kai Tak Area 1K Site 3 (1K3) (residential use)	Planned Noise Sensitive Receiver
NMS5	Kai Tak Area 1L Site 3 (1L3) (residential use)	Planned Noise Sensitive Receiver

During the reporting period, monitoring locations NMS1 and NMS2 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, NMS4 and NMS5 will be sought once each respective development is completed and occupied.

During the reporting period, monitoring station NMS1 was temporary suspended from 1 March 2022 to 31 March 2022, due to temporary closure for disinfection at the Hong Kong Society for the Blind Workshop. Temporary noise monitoring station, NMS1-T, was used to conduct noise monitoring on 2, 8, 14, 24 and 30 March 2022. 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. 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**

Table 3.3: Temporary Construction Noise Monitoring Location

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	Façade

3.4 Action and Limit Levels

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

Table 3.4: Action and Limit Level for Construction Noise

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

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 (serial no. 00131627)
Acoustic Calibrator	LARSON DAVIS	CAL200 (S/N 10227)

3.7 Monitoring Methodology

- Façade and Free Field measurements were made at the monitoring locations.
- For Façade measurement, the microphone hear of the head 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 re-calibration or repair of the equipment.
- During the monitoring period, the L_{eq} , L_{10} and L_{90} 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 **Appendix F**.

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 **Appendix G**.

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

Monitoring Station	Measured Noise Level L_{eq} (30 mins), dB(A)			Limit Level
	Average	Min	Max	
NMS1-T	69	67	71	75
NMS2	69	69	69	75

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

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 2, 9, 16, 23, and 30 March 2022. Joint IEC site inspections were carried out 16 and 23 March 2022.

Bi-weekly landscape and visual site audit was carried out on 9 and 23 March 2022. 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**.

Table 4.1: Summary of Site Inspections and Recommendations

Inspection Date	Key Observations	Recommendations / Actions	Close-Out Date / Status
Kai Tak Sports Park			
2 Mar 2022	Dry haul road at northern site was observed.	The contractor was reminded to provide water spraying at haul road to maintain wet surface.	9 Mar 2022
2 Mar 2022	Accumulation of general refuse on the floor was observed at northern site	The contractor was reminded to provide rubbish bin for proper disposal of general refuse.	9 Mar 2022
2 Mar 2022	Chemical containers without drip trays were observed at northern site.	The contractor was reminded to provided drip trays for the chemical containers on site.	9 Mar 2022
9 Mar 2022	Dry haul road was observed at southern site	The contractor was reminded to provide regular water spraying to maintain wet surface.	16 Mar 2022
9 Mar 2022	Loose waste debris spreading on the ground at southern site was observed	The contractor was reminded to clear the waste debris and dispose the waste debris properly.	16 Mar 2022
16 Mar 2022	Dry haul road at northern site was observed.	The contractor was reminded to provide water spraying at haul road to maintain wet surface.	23 Mar 2022
16 Mar 2022	A rubbish bin without covering was observed at northern site	The contractor was reminded to provide covered rubbish bin for proper storage of general refuse on site.	23 Mar 2022
16 Mar 2022	Stockpile without covering was observed at northern site	The contractor was reminded to provide covering for the stockpile on site.	23 Mar 2022
16 Mar 2022	A chemical container without drip tray was observed at northern site	The contractor was reminded to provide drip tray for the chemical container on site.	23 Mar 2022
23 Mar 2022	Accumulation of general refuse was observed at southern site	The contractor was reminded to clear the general refuse regularly.	30 Mar 2022
23 Mar 2022	Accumulation of general refuse on the drip tray was observed at southern site	The contractor was reminded to keep the drip tray clear from general refuse.	30 Mar 2022
23 Mar 2022	Leakage of site runoff was observed along the site hoarding at southern site.	The contractor was reminded to fix the leakage.	30 Mar 2022

Inspection Date	Key Observations	Recommendations / Actions	Close-Out Date / Status
30 Mar 2022	General refuse on the ground at northern site was observed.	The contractor was reminded to clear the general refuse.	6 Apr 2022
30 Mar 2022	Overflow of chemical was observed at northern site	The contractor was reminded to clear the chemical and store the chemical container properly.	6 Apr 2022
Hotel and Office Development			
2 Mar 2022	Dust emission at haul road was observed.	The contractor was reminded to provide regular water spraying to maintain wet surface at haul road.	9 Mar 2022
23 Mar 2022	Leakage of site runoff along site hoarding was observed.	The contractor was reminded to fix the leakage and keep the site hoarding clear.	30 Mar 2022

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 and AMS2 during the reporting period.

Noise

No Action and Limit Level exceedances of noise level was recorded at NMS1-T and NMS2 during the reporting period.

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 (April 2022) are summarized in **Table 5.1**.

Table 5.1: Construction Activities for the Next Reporting Period

Site Area	Description of Activities
<ul style="list-style-type: none">Kai Tak Sports Park	<ul style="list-style-type: none">Rebar fixing;Mobilization and lifting;Concreting;Excavation; andMain Stadium pre-cast material delivery.
<ul style="list-style-type: none">Hotel and Office Development	<ul style="list-style-type: none">Excavation;Rebar fixing; andConcreting.

5.2 Environmental Site Inspection and Monitoring Schedule for the Next Reporting Period

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

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 or Limit Level exceedances of noise level was recorded during the reporting period.

Environmental Site Inspections

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

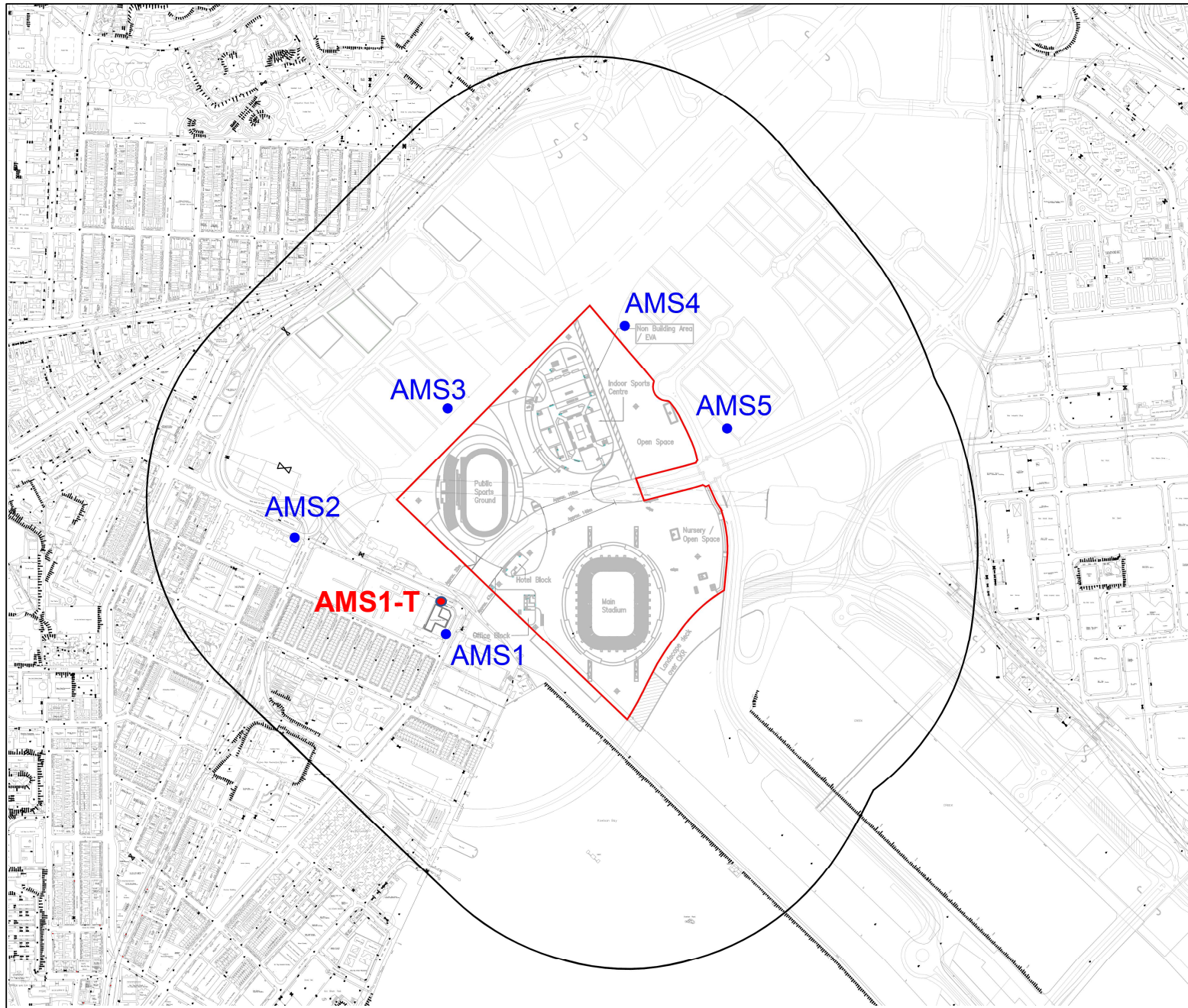
Complaints

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



Key Plan

Notes:

1. ALL LEVELS ARE METRES TO PRINCIPAL DATUM (PD) UNLESS NOTED OTHERWISE.
2. ALL CO-ORDINATES REFER TO HONG KONG (1980) METRIC GRID CO-ORDINATES SYSTEM.
3. PIPE AND BOX OR RISE SIZES ARE SHOWN IN MILLIMETERS.

Key to symbols:

LEGEND:

- Project Site
- 500m from Site Boundary
- AMS1 Air Monitoring Station 1
- AMS1-T Temporary Air Monitoring Station

Rev	Date	Drawn	Description	Ch'k'd	App'd

M M

MOTT
MACDONALD

3/F, Maritime Bay Phase
348 Kwun Tong Road
Kwun Tong, Kowloon
Hong Kong
T: +852 2828 5757
F: +852 2821 1823
W: mottmac.com

Client

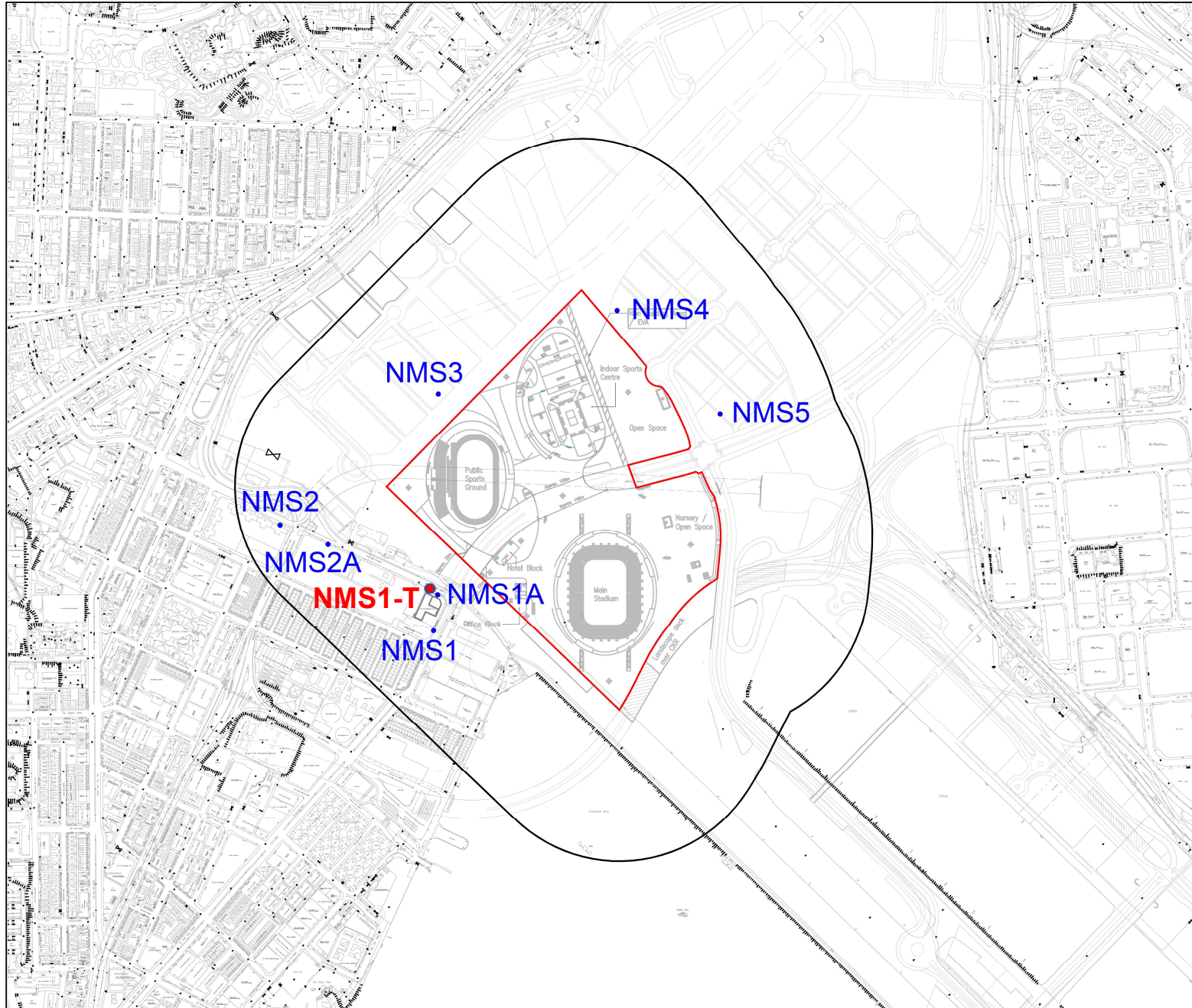
Project

Title

**Figure 2.1
Location of Air Quality
Monitoring Stations**

Designed		Eng check	
Drawn		Coordination	
Dwg check		Approved	
Scale at A3	Status		Rev

Drawing Number



Key Plan

Notes:

1. ALL LEVELS ARE METRES TO PRINCIPAL DATUM (PD) UNLESS NOTED OTHERWISE.
2. ALL CO-ORDINATES REFER TO HONG KONG (1980) METRIC GRID CO-ORDINATES SYSTEM.
3. PIPE AND BOX OR KEY SIZES ARE SHOWN IN MILLIMETERS.

Key to symbols:

LEGEND:

- Project Site
- 300m from Site Boundary
- NMS1 Construction Noise Monitoring Station 1
- NMS1-T Temporary Noise Monitoring Station

Rev	Date	Drawn	Description	Ch'k'd	App'd

M M
MOTT MACDONALD

3/F Maritime Bay Point
 348 Kwun Tong Road
 Kwun Tong, Kowloon
 Hong Kong
 T: +852 2828 5757
 F: +852 2821 1823
 W: mottmac.com

Client

Project

Title

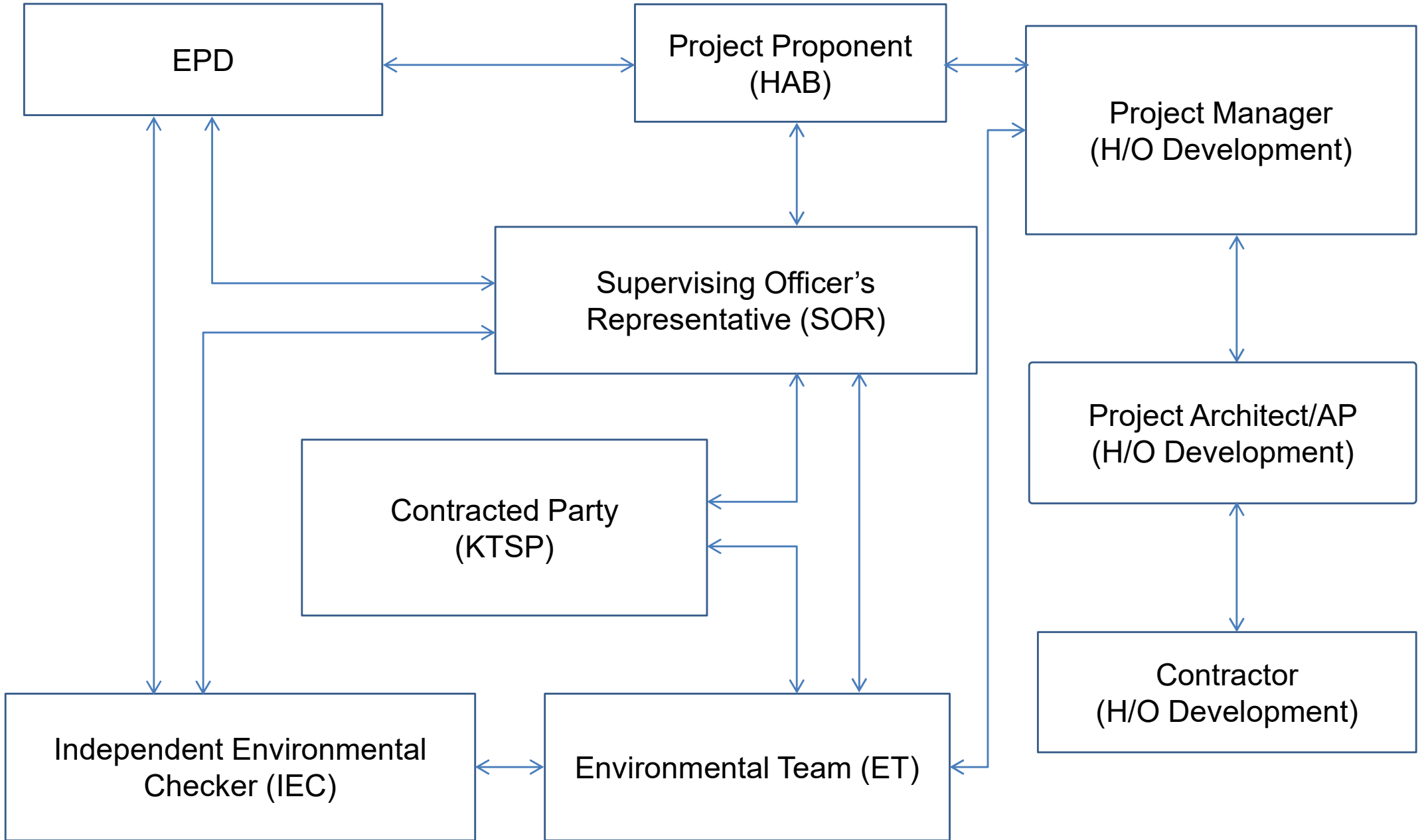
Figure 3.1
Location of Noise Monitoring Stations

Designed	Eng check		
Drawn	Co-ordination		
Dwg check	Approved		
Scale at A3	Status		Rev

Drawing Number

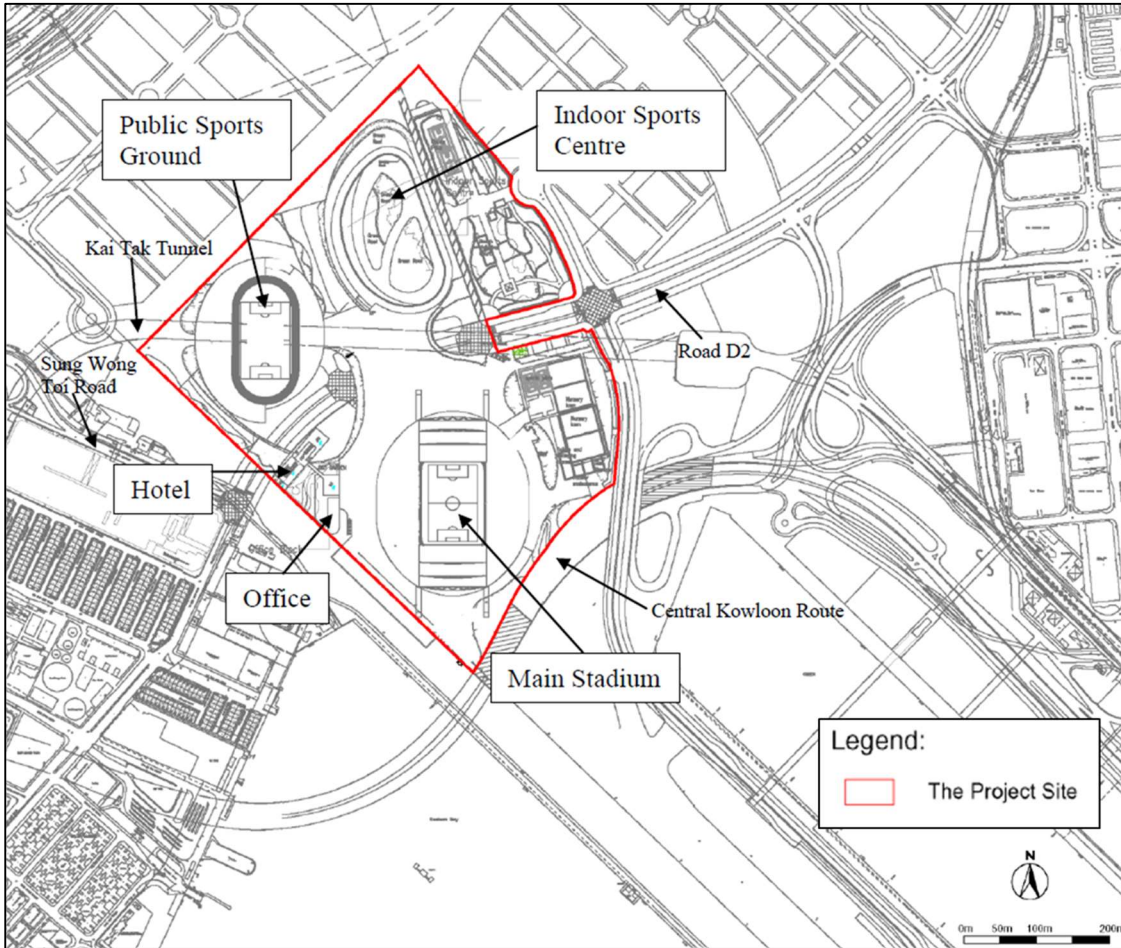
Appendix A. Project Organization for Environmental Works

Project Organisation for Environmental Works



Line of communication

Appendix B. Location of Works Areas



Appendix C. Construction Programme

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	1. Inform IEC, SOR and Contracted Party; 2. Identify source, investigate the causes of exceedance and propose remedial measures; 3. Repeat measurement to confirm finding.	1. Check monitoring data submitted by ET; 2. Check Contracted Party's working method.	1. Notify Contracted Party.	1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.
Exceedance for two or more consecutive samples	1. Inform IEC, SOR and Contracted Party; 2. Identify source; 3. Advise the SOR on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC, SOR and Contracted Party on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and SOR; 8. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by ET; 2. Check Contracted Party's working method; 3. Discuss with ET and Contracted Party on possible remedial measures; 4. Advise the ET/SOR on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contracted Party; 3. Ensure remedial measures properly implemented.	1. Submit proposals for remedial to SOR and IEC within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.

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

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

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.

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

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

Appendix E. Environmental Site Inspection and Monitoring Schedule

Table E.1: Site Inspection and Monitoring Schedule for March 2022

Impact Environmental Monitoring Schedule for March 2022

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
			AMS1-T, NMS1-T AMS2, NMS2 site inspection			
6	7	8	9	10	11	12
		AMS1-T, NMS1-T AMS2, NMS2	site inspection landscape and visual audit			
13	14	15	16	17	18	19
	AMS1-T, NMS1-T AMS2, NMS2		site inspection		AMS1-T AMS2	
20	21	22	23	24	25	26
			site inspection landscape and visual audit	AMS1-T, NMS1-T AMS2, NMS2		
27	28	29	30	31		
			AMS1-T, NMS1-T AMS2, NMS2 site inspection			

 Air Quality/Noise Monitoring

Remark: Joint site walk with IEC on 16 and 23 March 2022

AMS1 and NMS1 were not accessible in March 2022. Monitoring were carried out at AMS1-T and NMS1-T during March 2022

Table E.2: Tentative Site Inspection and Monitoring Schedule for April 2022

Tentative Impact Environmental Monitoring Schedule for April 2022

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
	AMS1, NMS1 AMS2, NMS2	Ching Ming Festival	site inspection landscape and visual audit			AMS1 AMS2
10	11	12	13	14	15	16
			site inspection	AMS1, NMS1 AMS2, NMS2	Good Friday	The day following Good Friday
17	18	19	20	21	22	23
	Easter Monday		AMS1, NMS1 AMS2, NMS2 site inspection landscape and visual audit			
24	25	26	27	28	29	30
	AMS1, NMS1 AMS2, NMS2		site inspection		AMS1 AMS2	

 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 Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

SUB-CONTRACTING REPORT

CONTACT	: MR K.W. FAN	WORK ORDER	: HK2117311
CLIENT	: ENVIROTECH SERVICES CO.		
ADDRESS	: RM113, 1/F, MY LOFT, 9 HOI WING ROAD, TUEN MUN, N.T. HONG KONG	SUB-BATCH	: 1
		DATE RECEIVED	: 29-APR-2021
		DATE OF ISSUE	: 11-MAY-2021
PROJECT	: ----	NO. OF SAMPLES	: 1
		CLIENT ORDER	: ----

General Comments

- Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the item(s) tested.
- Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.
- Calibration was subcontracted to and analysed by Action United Enviro Services.

Signatories

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

Signatories

Position

Richard Fung

Managing Director

This is the Final Report and supersedes any preliminary report with this batch 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 : HK2117311
SUB-BATCH : 1
CLIENT : ENVIROTECH SERVICES CO.
PROJECT : ----



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2117311-001	S/N: 226239	Equipments	29-Apr-2021	S/N: 226239

Equipment Verification Report (TSP)

Equipment Calibrated:

Type: Laser Dust monitor
Manufacturer: Sibata LD-3B
Serial No. 2Z6239
Equipment Ref: Nil
Job Order HK2117311

Standard Equipment:

Standard Equipment: Higher Volume Sampler (TSP)
Location & Location ID: AUES office (calibration room)
Equipment Ref: HVS 018
Last Calibration Date: 26 April 2021

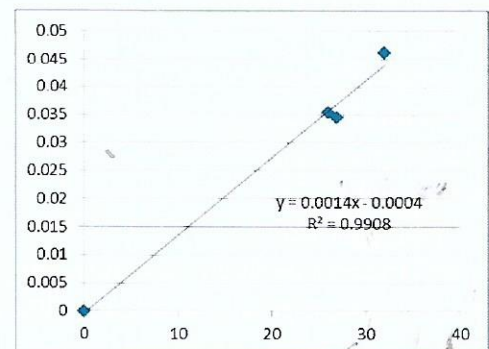
Equipment Verification Results:

Verification Date: 7 May 2021

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in mg/m ³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
2hr	09:30 ~ 11:30	26.6	1013.2	0.046	3830	31.9
2hr01min	11:32 ~ 13:33	26.6	1013.2	0.035	3245	26.9
2hr10min	13:35 ~ 15:45	26.6	1013.2	0.036	3369	26.0

Linear Regression of Y or X

Slope (K-factor): 0.0014
Correlation Coefficient 0.9954
Date of Issue 10 May 2021



Remarks:

1. **Strong Correlation** ($R > 0.8$)
2. Factor 0.0014 should be applied for TSP monitoring

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

Operator : Fai So Signature :  Date : 10 May 2021

QC Reviewer : Ben Tam Signature :  Date : 10 May 2021



ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

SUB-CONTRACTING REPORT

CONTACT	: MR K.W. FAN	WORK ORDER	: HK2117310
CLIENT	: ENVIROTECH SERVICES CO.		
ADDRESS	: RM113, 1/F, MY LOFT, 9 HOI WING ROAD, TUEN MUN, N.T. HONG KONG	SUB-BATCH	: 1
		DATE RECEIVED	: 29-APR-2021
		DATE OF ISSUE	: 11-MAY-2021
PROJECT	: ---	NO. OF SAMPLES	: 1
		CLIENT ORDER	: ---

General Comments

- Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the item(s) tested.
- Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.
- Calibration was subcontracted to and analysed by Action United Enviro Services.

Signatories

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

Signatories

Position

Richard Fung

Managing Director

This is the Final Report and supersedes any preliminary report with this batch 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 : HK2117310
SUB-BATCH : 1
CLIENT : ENVIROTECH SERVICES CO.
PROJECT : ----



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2117310-001	S/N: 276017	Equipments	29-Apr-2021	S/N: 276017

Equipment Verification Report (TSP)

Equipment Calibrated:

Type: Laser Dust monitor
Manufacturer: Sibata LD-3B
Serial No. 276017
Equipment Ref: Nil
Job Order HK2117310

Standard Equipment:

Standard Equipment: Higher Volume Sampler (TSP)
Location & Location ID: AUES office (calibration room)
Equipment Ref: HVS 018
Last Calibration Date: 26 April 2021

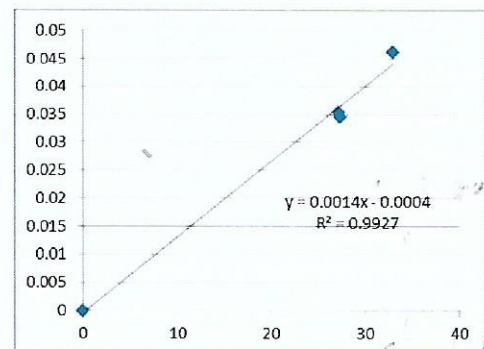
Equipment Verification Results:

Verification Date: 7 May 2021

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in mg/m ³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
2hr	09:30 ~ 11:30	26.6	1013.2	0.046	3951	32.9
2hr01min	11:32 ~ 13:33	26.6	1013.2	0.035	3293	27.3
2hr10min	13:35 ~ 15:45	26.6	1013.2	0.036	3519	27.2

Linear Regression of Y or X

Slope (K-factor): 0.0014
Correlation Coefficient 0.9963
Date of Issue 10 May 2021



Remarks:

1. **Strong Correlation (R>0.8)**
 2. Factor 0.0014 should be applied for TSP monitoring
- *if R<0.5, repair or re-verification is required for the equipment

Operator : Fai So Signature : *Fai So* Date : 10 May 2021

QC Reviewer : Ben Tam Signature : *Ben Tam* Date : 10 May 2021



輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration

校正證書

Certificate No. : C217234
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC21-2432) Date of Receipt / 收件日期 : 25 November 2021

Description / 儀器名稱 : Precision Acoustic Calibrator
Manufacturer / 製造商 : LARSON DAVIS
Model No. / 型號 : CAL200
Serial No. / 編號 : 10227
Supplied By / 委託者 : Envirotech Services Co.
Room 113, 1/F, My Loft, 9 Hoi Wing Road, Tuen Mun,
New Territories, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}\text{C}$ Relative Humidity / 相對濕度 : $(50 \pm 25)\%$
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 16 December 2021

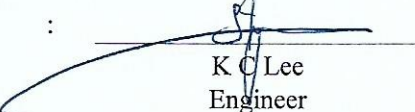
TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
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
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By : 
測試 : K P Cheuk
Project Engineer

Certified By : 
核證 : K C Lee
Engineer

Date of Issue : 16 December 2021
簽發日期

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.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

Sun Creation Engineering Limited Calibration & Testing Laboratory

c/o 4/F, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

輝創工程有限公司 - 校正及檢測實驗室

c/o 香港新界屯門興安里一號四樓

Tel/電話: (852) 2927 2606

Fax/傳真: (852) 2744 8986

E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com

Certificate of Calibration

校正證書

Certificate No. : C217234

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 :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL130	Universal Counter	C213954
CL281	Multifunction Acoustic Calibrator	AV210017
TST150A	Measuring Amplifier	C201309

4. Test procedure : MA100N.

5. Results :

5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	93.8	± 0.2
114 dB, 1 kHz	113.8	

5.2 Frequency Accuracy

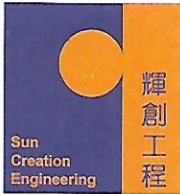
UUT Nominal Value (kHz)	Measured Value (kHz)	Uncertainty of Measured Value (Hz)
1	1.000	± 1

Remark : 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.



輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C213255

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC21-1016)

Date of Receipt / 收件日期 : 24 May 2021

Description / 儀器名稱 : Sound Level Meter

Manufacturer / 製造商 : Rion

Model No. / 型號 : NL-52

Serial No. / 編號 : 00131627

Supplied By / 委託者 : Envirotech Services Co.

Room 113, 1/F, My Loft, 9 Hoi Wing Road, Tuen Mun,
New Territories, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}\text{C}$

Relative Humidity / 相對濕度 : $(50 \pm 25)\%$

Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 4 June 2021

TEST RESULTS / 測試結果

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

The results do not exceed manufacturer's specification.

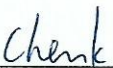
The results are detailed in the subsequent page(s).

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

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA


Tested By

測試


K P Cheuk
Project Engineer

Certified By

核證


K C Lee
Engineer

Date of Issue

簽發日期

9 June 2021

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

c/o 4/F, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

輝創工程有限公司 - 校正及檢測實驗室

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Website/網址: www.suncreation.com

Certificate of Calibration

校正證書

Certificate No. : C213255
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	C210084
CL281	Multifunction Acoustic Calibrator	AV210017

5. Test procedure : MA101N.

6. Results :

- 6.1 Sound Pressure Level

- 6.1.1 Reference Sound Pressure Level

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
30 - 130	L _A	A	Fast	94.00	1	94.2	± 1.1

- 6.1.2 Linearity

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
30 - 130	L _A	A	Fast	94.00	1	94.2 (Ref.)
				104.00		104.2
				114.00		114.2

IEC 61672 Class 1 Spec. : ± 0.6 dB per 10 dB step and ± 1.1 dB for overall different.

- 6.2 Time Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
30 - 130	L _A	A	Fast	94.00	1	94.2	Ref.
			Slow				

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Certificate of Calibration

校正證書

Certificate No. : C213255

證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
30 - 130	L _A	A	Fast	94.00	63 Hz	68.0	-26.2 ± 1.5
					125 Hz	78.0	-16.1 ± 1.5
					250 Hz	85.5	-8.6 ± 1.4
					500 Hz	91.0	-3.2 ± 1.4
					1 kHz	94.2	Ref.
					2 kHz	95.4	+1.2 ± 1.6
					4 kHz	95.2	+1.0 ± 1.6
					8 kHz	93.2	-1.1 (+2.1 ; -3.1)
					16 kHz	86.2	-6.6 (+3.5 ; -17.0)

6.3.2 C-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
30 - 130	L _C	C	Fast	94.00	63 Hz	93.3	-0.8 ± 1.5
					125 Hz	94.0	-0.2 ± 1.5
					250 Hz	94.2	0.0 ± 1.4
					500 Hz	94.2	0.0 ± 1.4
					1 kHz	94.2	Ref.
					2 kHz	94.0	-0.2 ± 1.6
					4 kHz	93.4	-0.8 ± 1.6
					8 kHz	91.3	-3.0 (+2.1 ; -3.1)
					16 kHz	84.3	-8.5 (+3.5 ; -17.0)

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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. : C213255
證書編號

Remarks : - UUT Microphone Model No. : UC-59 & S/N : 10446

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value :

94 dB	: 63 Hz - 125 Hz	: ± 0.35 dB
	250 Hz - 500 Hz	: ± 0.30 dB
	1 kHz	: ± 0.20 dB
	2 kHz - 4 kHz	: ± 0.35 dB
	8 kHz	: ± 0.45 dB
	16 kHz	: ± 0.70 dB
104 dB	: 1 kHz	: ± 0.10 dB (Ref. 94 dB)
114 dB	: 1 kHz	: ± 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.

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 - 校正及檢測實驗室

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Website/網址: www.suncreation.com

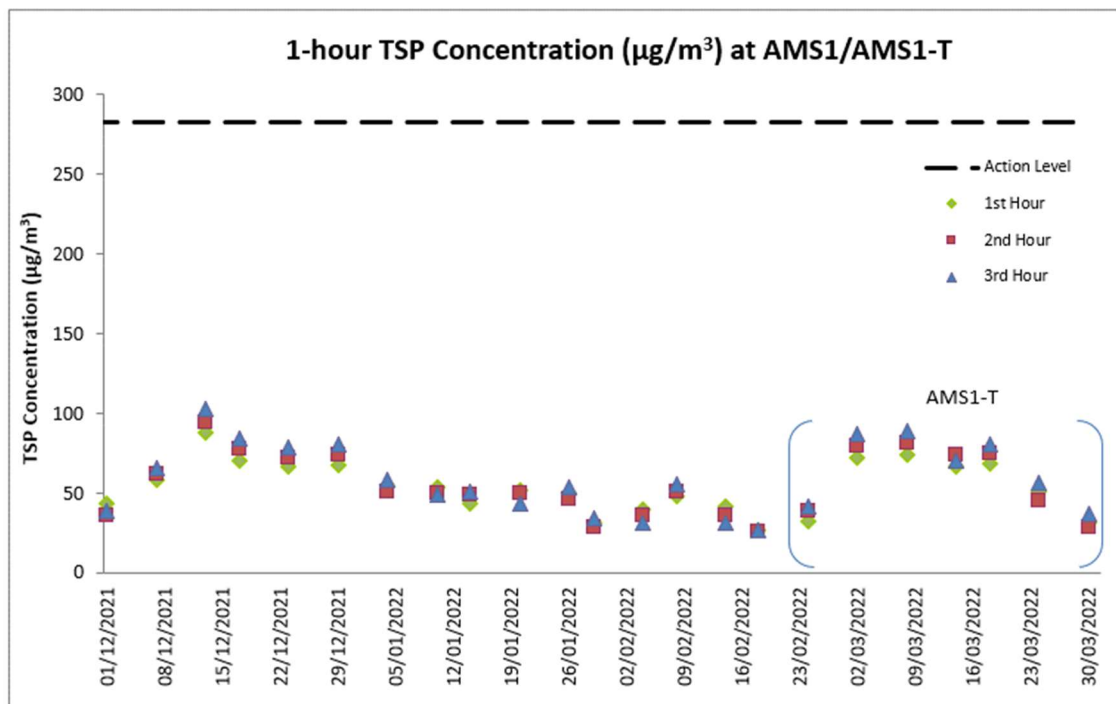
Appendix G. Monitoring Data and Graphical Plots (Air Quality and Noise)

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

	Date	Start Time	Finish Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hour TSP ($\mu\text{g}/\text{m}^3$)
*	2-Mar-22	9:05	10:05	Fine	0.3	233	73
*	2-Mar-22	10:05	11:05	Fine	1.7	118	80
*	2-Mar-22	11:05	12:05	Fine	2.8	131	87
*	8-Mar-22	9:02	10:02	Sunny	3.3	30	74
*	8-Mar-22	10:02	11:02	Sunny	1.4	120	82
*	8-Mar-22	11:02	12:02	Sunny	4.2	94	89
*	14-Mar-22	9:46	10:46	Sunny	1.4	106	67
*	14-Mar-22	10:46	11:46	Sunny	1.1	139	74
*	14-Mar-22	11:46	12:46	Sunny	1.1	187	71
*	18-Mar-22	8:51	9:51	Cloudy	1.7	229	69
*	18-Mar-22	9:51	10:51	Cloudy	2.8	219	75
*	18-Mar-22	10:51	11:51	Cloudy	2.2	219	81
*	24-Mar-22	9:05	10:05	Cloudy	5.3	110	51
*	24-Mar-22	10:05	11:05	Cloudy	5.0	106	46
*	24-Mar-22	11:05	12:05	Cloudy	5.0	108	57
*	30-Mar-22	9:03	10:03	Cloudy	0.0	Variable	32
*	30-Mar-22	10:03	11:03	Cloudy	0.3	246	29
*	30-Mar-22	11:03	12:03	Cloudy	2.2	127	37

* During the reporting period, monitoring station AMS1 was temporary suspended from 1 March 2022 to 31 March 2022, due to temporary closure for disinfection at the Hong Kong Society for the Blind Workshop. Temporary air quality monitoring station, AMS1-T was used to conduct dust monitoring on 2, 8, 14, 24 and 30 March 2022. 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.

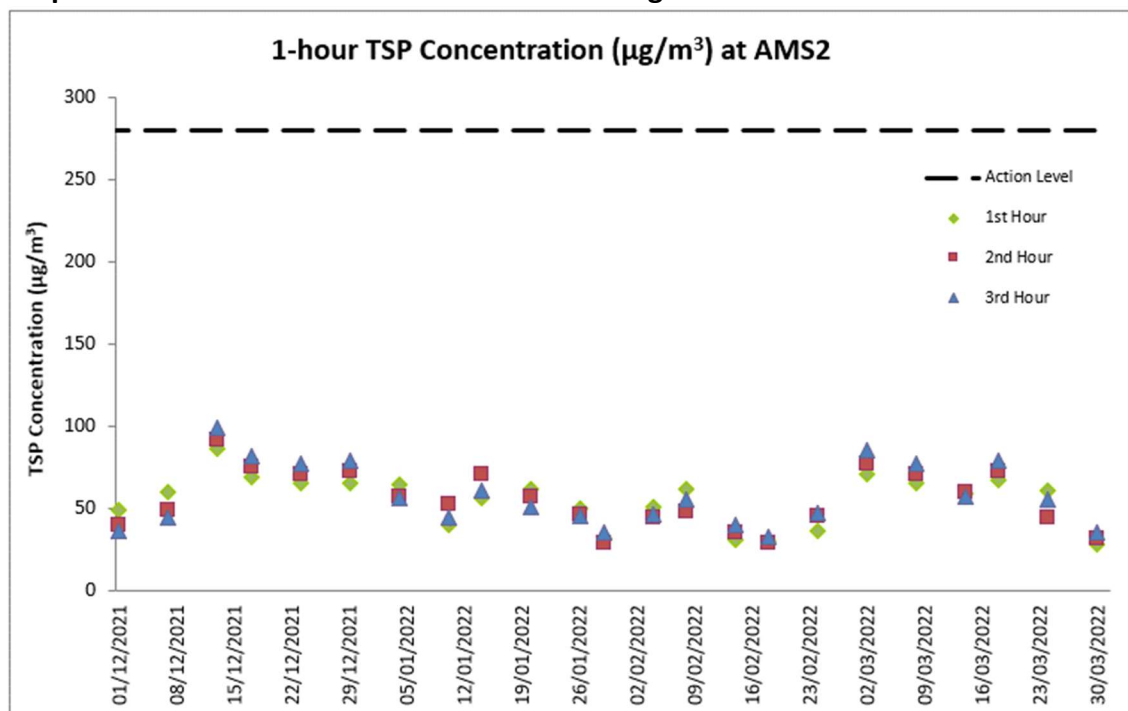
Graphical Presentation for 1-hour TSP Monitoring at AMS1/AMS1-T



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

Date	Start Time	Finish Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hour TSP ($\mu\text{g}/\text{m}^3$)
2-Mar-22	8:20	9:20	Fine	0.0	Variable	71
2-Mar-22	9:20	10:20	Fine	0.3	246	77
2-Mar-22	10:20	11:20	Fine	2.2	127	85
8-Mar-22	8:18	9:18	Sunny	0.8	17	65
8-Mar-22	9:18	10:18	Sunny	3.6	40	71
8-Mar-22	10:18	11:18	Sunny	4.4	108	77
14-Mar-22	8:59	9:59	Fine	1.1	121	59
14-Mar-22	9:59	10:59	Fine	1.4	98	60
14-Mar-22	10:59	11:59	Fine	0.6	169	57
18-Mar-22	8:45	9:45	Cloudy	1.4	220	67
18-Mar-22	9:45	10:45	Cloudy	2.5	222	73
18-Mar-22	10:45	11:45	Cloudy	2.2	222	79
24-Mar-22	8:20	9:20	Cloudy	5.0	102	61
24-Mar-22	9:20	10:20	Cloudy	3.9	101	44
24-Mar-22	10:20	11:20	Cloudy	4.7	109	55
30-Mar-22	8:20	9:20	Cloudy	3.3	112	28
30-Mar-22	9:20	10:20	Cloudy	4.7	107	32
30-Mar-22	10:20	11:20	Cloudy	5.0	102	35

Graphical Presentation for 1-hour TSP Monitoring at AMS2

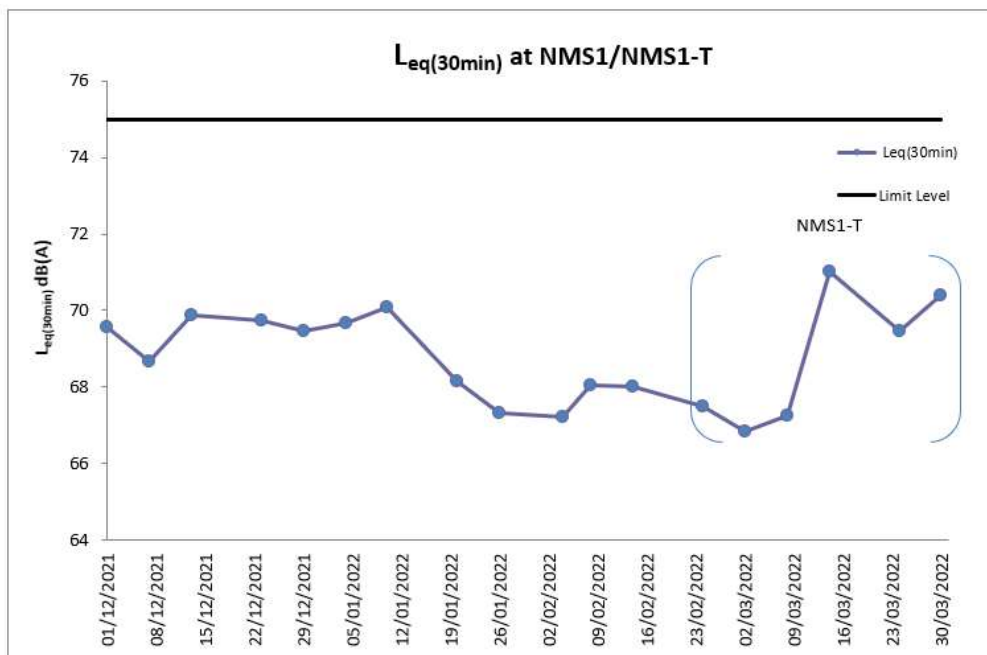


Data for Noise Monitoring at Station NMS1/NMS1-T during the Reporting Month

Date	Time	Weather	L _{eq} (5min)	L ₁₀	L ₉₀	Measured L _{eq} (30min)
* 2-Mar-22	9:09	Fine	67.1	69.1	65.0	
* 2-Mar-22	9:14	Fine	66.5	68.2	64.4	
* 2-Mar-22	9:19	Fine	67.3	69.1	65.6	66.8
* 2-Mar-22	9:24	Fine	65.7	67.4	63.2	
* 2-Mar-22	9:29	Fine	66.5	68.8	64.6	
* 2-Mar-22	9:34	Fine	67.7	69.9	65.6	
* 8-Mar-22	9:06	Sunny	67.4	69.0	65.1	
* 8-Mar-22	9:11	Sunny	66.7	68.1	64.2	
* 8-Mar-22	9:16	Sunny	66.2	68.9	64.4	67.3
* 8-Mar-22	9:21	Sunny	67.8	69.3	65.7	
* 8-Mar-22	9:26	Sunny	68.4	70.5	66.3	
* 8-Mar-22	9:31	Sunny	66.6	68.5	64.2	
* 14-Mar-22	9:49	Sunny	71.7	73.6	59.1	
* 14-Mar-22	9:54	Sunny	70.9	74.8	59.1	
* 14-Mar-22	9:59	Sunny	71.0	74.5	62.0	71.0
* 14-Mar-22	10:04	Sunny	70.2	73.4	62.1	
* 14-Mar-22	10:09	Sunny	71.4	73.9	61.7	
* 14-Mar-22	10:14	Sunny	70.8	73.2	62.9	
* 24-Mar-22	9:08	Cloudy	68.6	70.0	65.1	
* 24-Mar-22	9:13	Cloudy	69.9	71.3	66.2	
* 24-Mar-22	9:18	Cloudy	69.4	71.2	66.7	69.5
* 24-Mar-22	9:23	Cloudy	68.1	70.5	65.7	
* 24-Mar-22	9:28	Cloudy	70.6	72.4	67.8	
* 24-Mar-22	9:33	Cloudy	69.7	71.9	66.5	

* During the reporting period, monitoring station NMS1 was temporary suspended from 1 March 2022 to 31 March 2022, due to temporary closure for disinfection at the Hong Kong Society for the Blind Workshop. Temporary noise monitoring station, NMS1-T was used to conduct noise monitoring on 2, 8, 14 and 24 March 2022. 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.

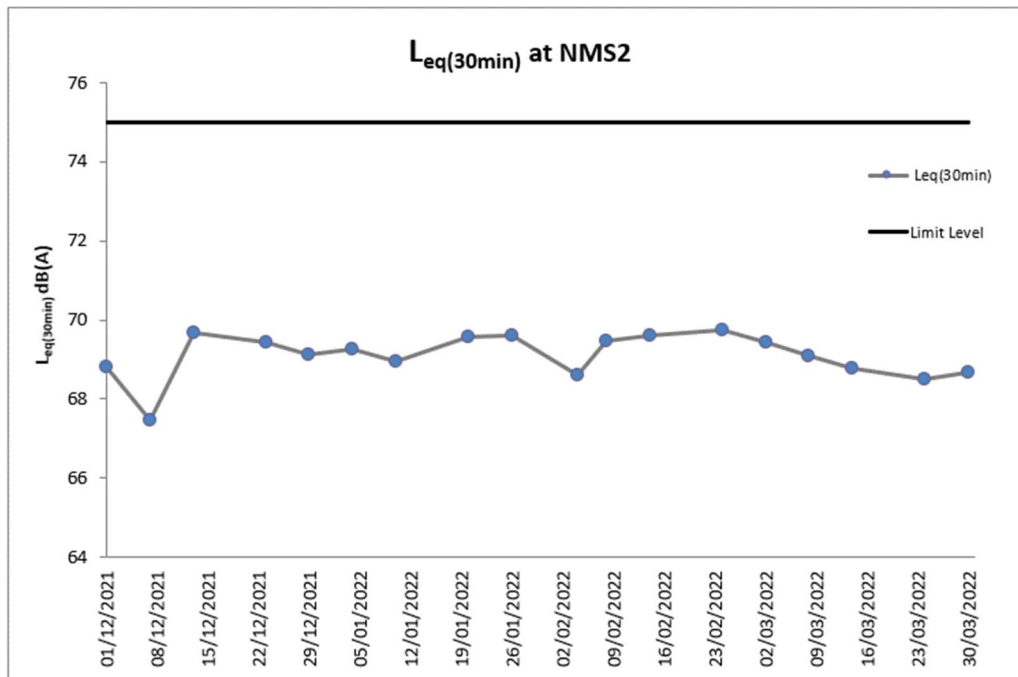
Graphical Presentation for Noise Monitoring at NMS1/NMS1-T



Data for Noise Monitoring at Station NMS2 during the Reporting Month

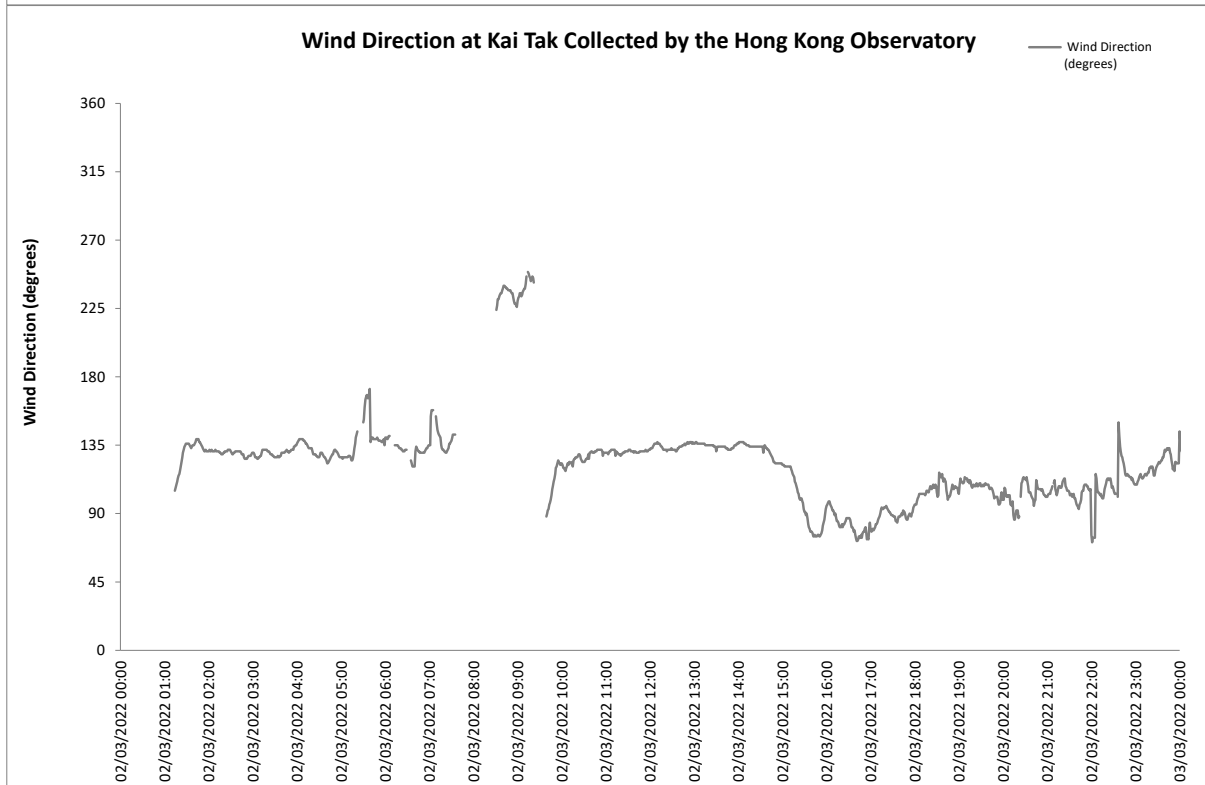
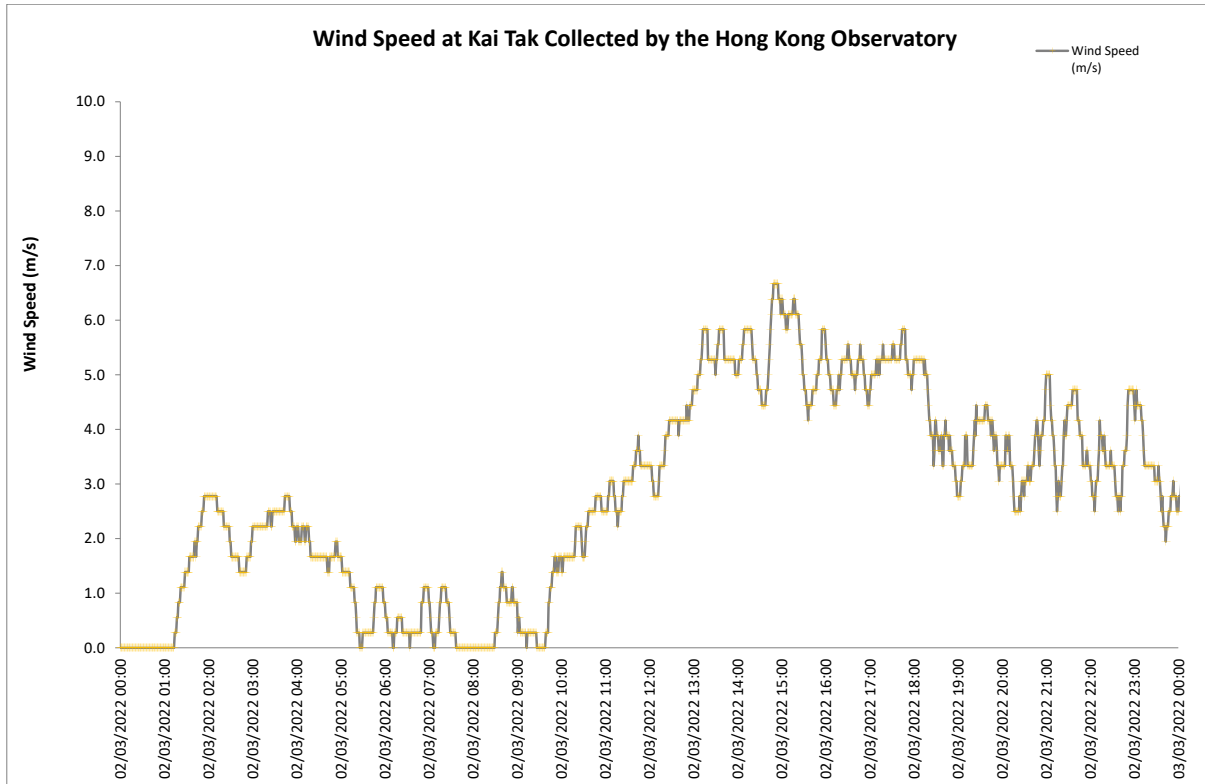
Date	Time	Weather	L _{eq(5min)}	L ₁₀	L ₉₀	Measured L _{eq(30min)}
2-Mar-22	8:24	Fine	68.7	70.2	66.0	
2-Mar-22	8:29	Fine	67.9	69.1	65.8	
2-Mar-22	8:34	Fine	69.4	71.2	67.6	
2-Mar-22	8:39	Fine	69.3	71.7	67.5	69.4
2-Mar-22	8:44	Fine	70.2	72.4	68.7	
2-Mar-22	8:49	Fine	70.5	72.6	68.9	
8-Mar-22	8:21	Sunny	67.2	69.8	65.0	
8-Mar-22	8:26	Sunny	68.5	70.7	66.1	
8-Mar-22	8:31	Sunny	68.4	70.2	66.9	69.1
8-Mar-22	8:36	Sunny	69.3	71.4	67.1	
8-Mar-22	8:41	Sunny	70.7	72.5	68.6	
8-Mar-22	8:46	Sunny	69.6	71.2	67.9	
14-Mar-22	9:03	Fine	68.3	70.5	63.7	
14-Mar-22	9:08	Fine	70.0	72.5	65.1	
14-Mar-22	9:13	Fine	68.3	71.1	63.9	68.8
14-Mar-22	9:18	Fine	68.2	70.8	63.5	
14-Mar-22	9:23	Fine	69.0	72.0	65.2	
14-Mar-22	9:28	Fine	68.6	71.0	64.6	
24-Mar-22	8:23	Cloudy	67.6	69.4	65.0	
24-Mar-22	8:28	Cloudy	68.2	70.1	66.4	
24-Mar-22	8:33	Cloudy	68.2	70.3	66.6	68.5
24-Mar-22	8:38	Cloudy	67.1	69.7	65.8	
24-Mar-22	8:43	Cloudy	69.6	71.5	67.4	
24-Mar-22	8:48	Cloudy	69.7	71.6	67.9	

Graphical Presentation for Noise Monitoring at NMS2

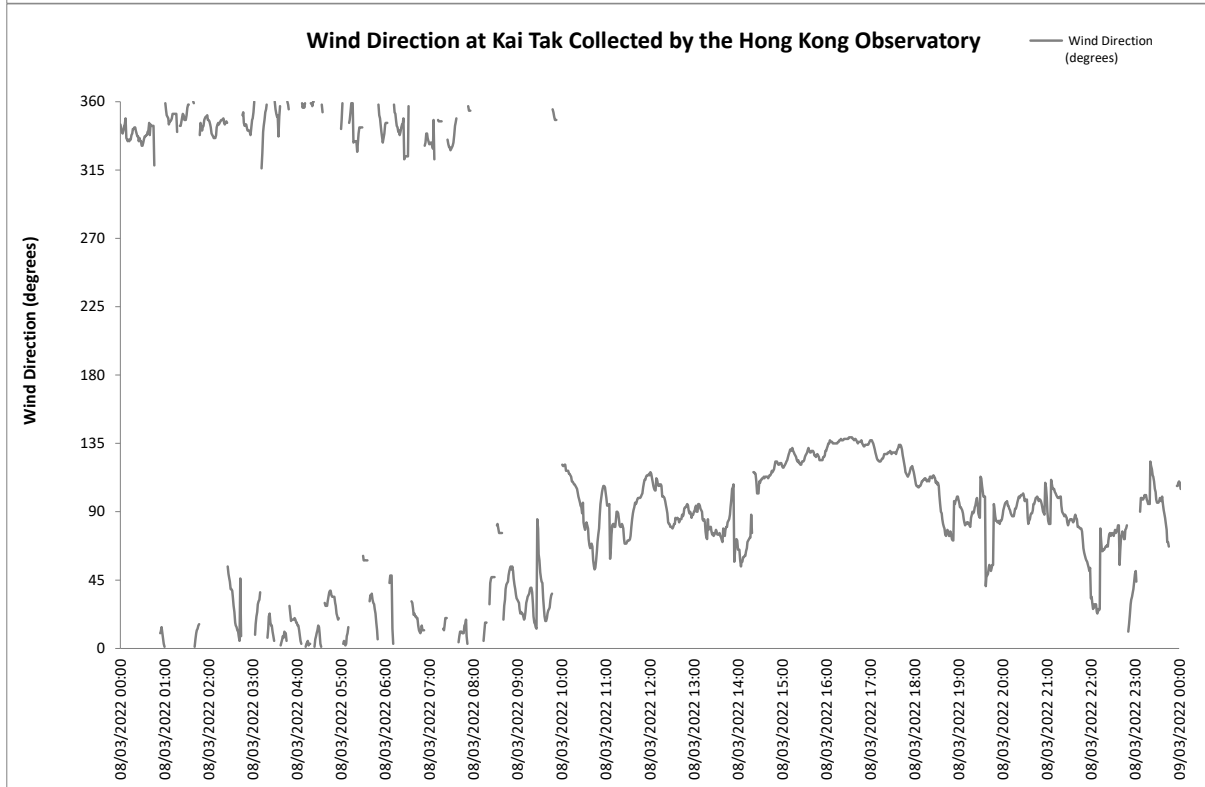
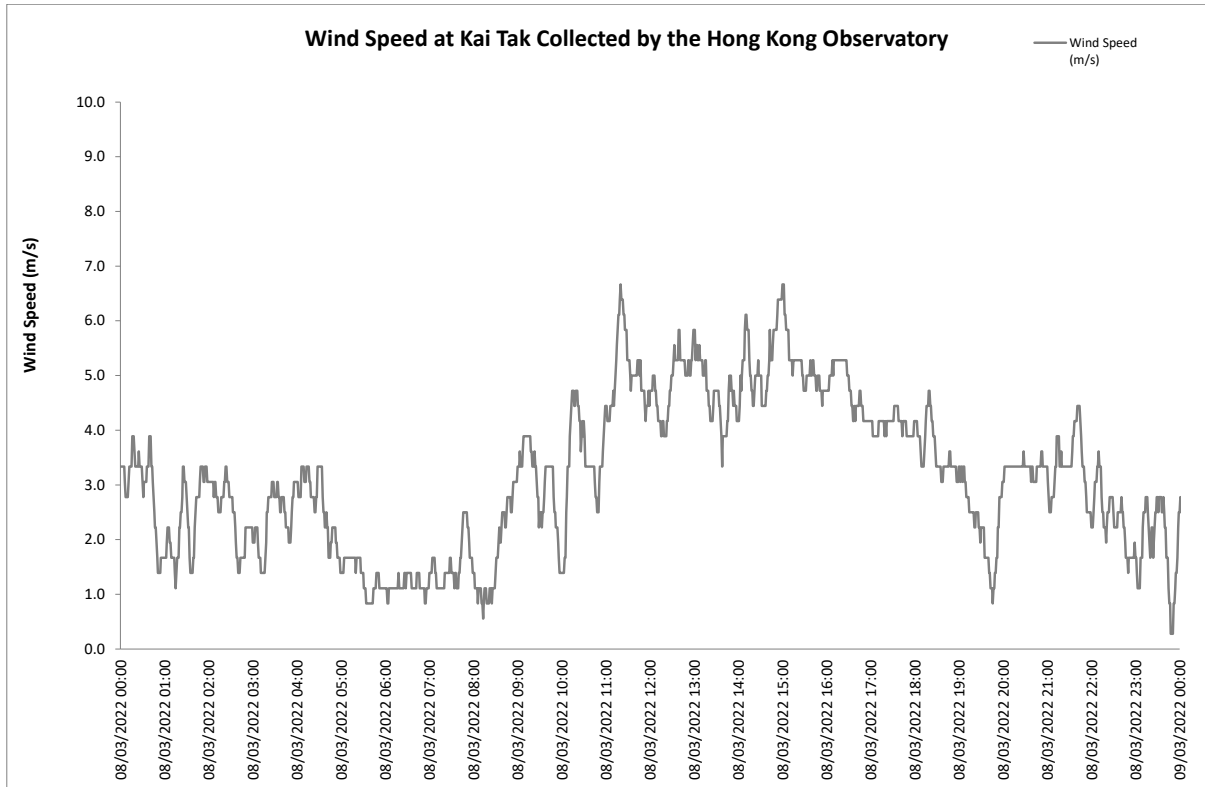


Appendix H. Wind Data

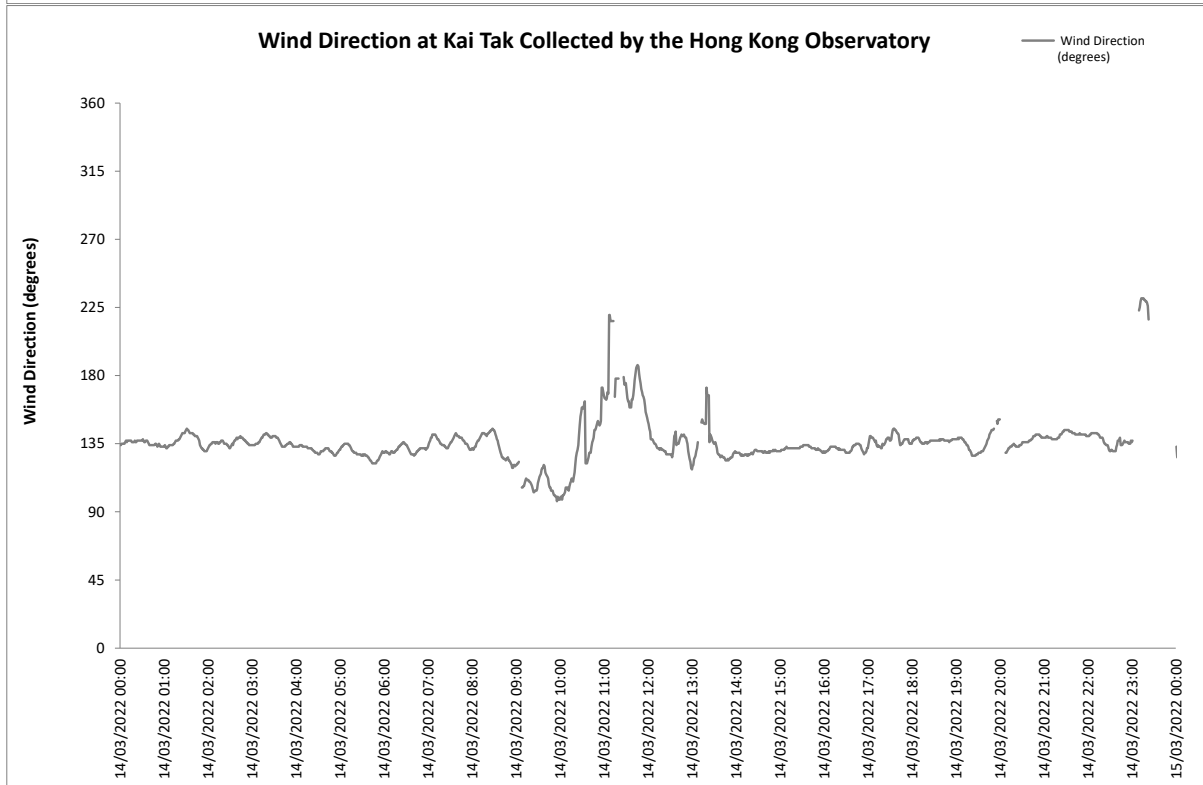
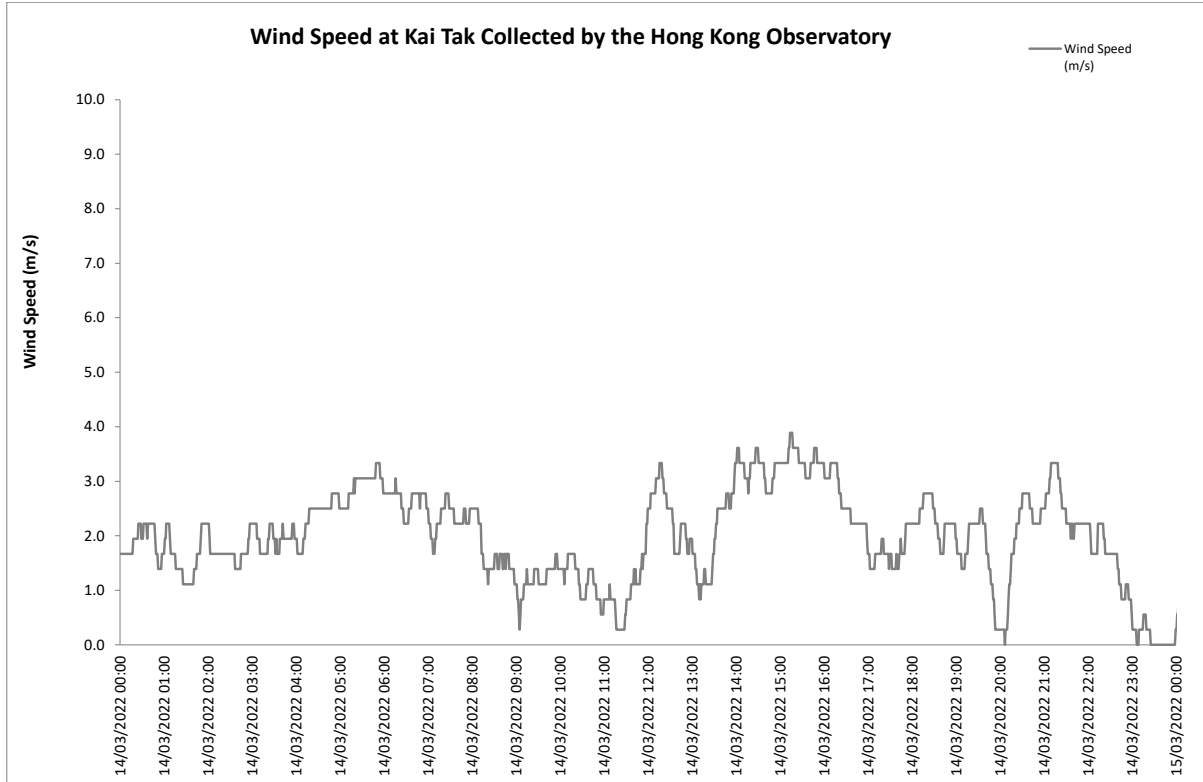
2 March 2022



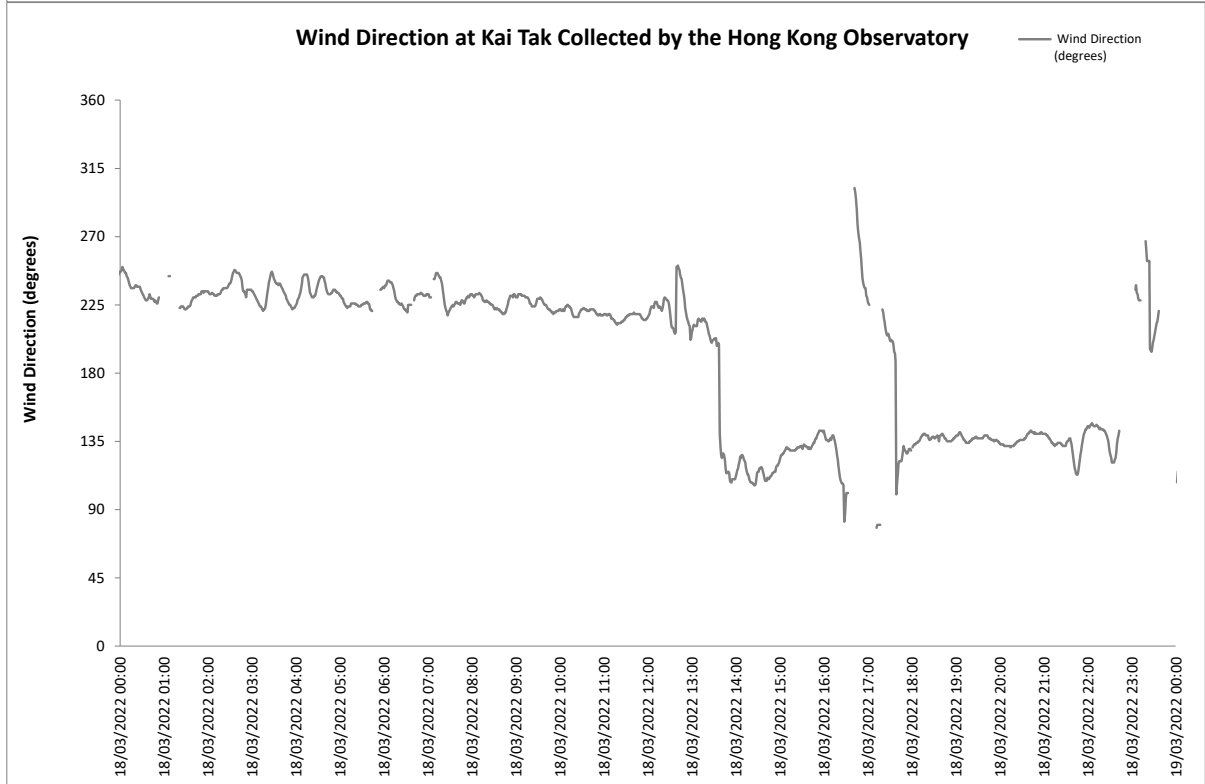
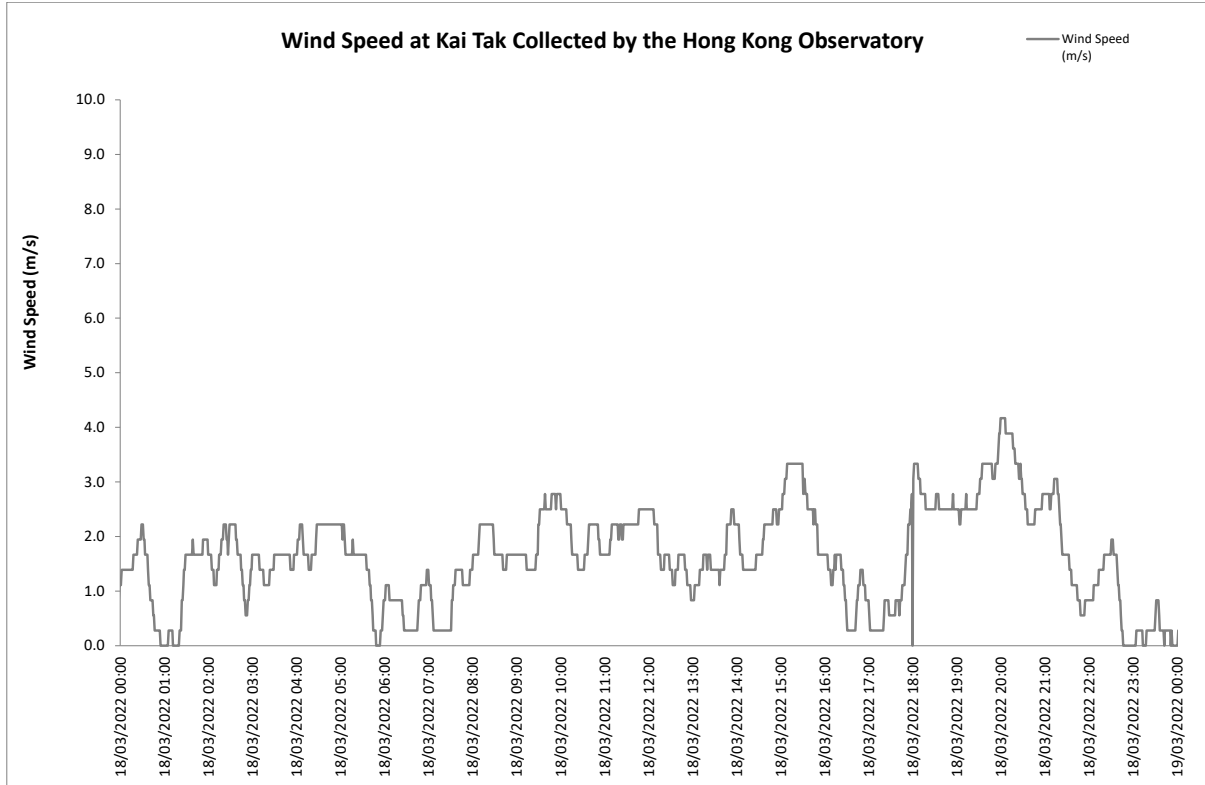
8 March 2022



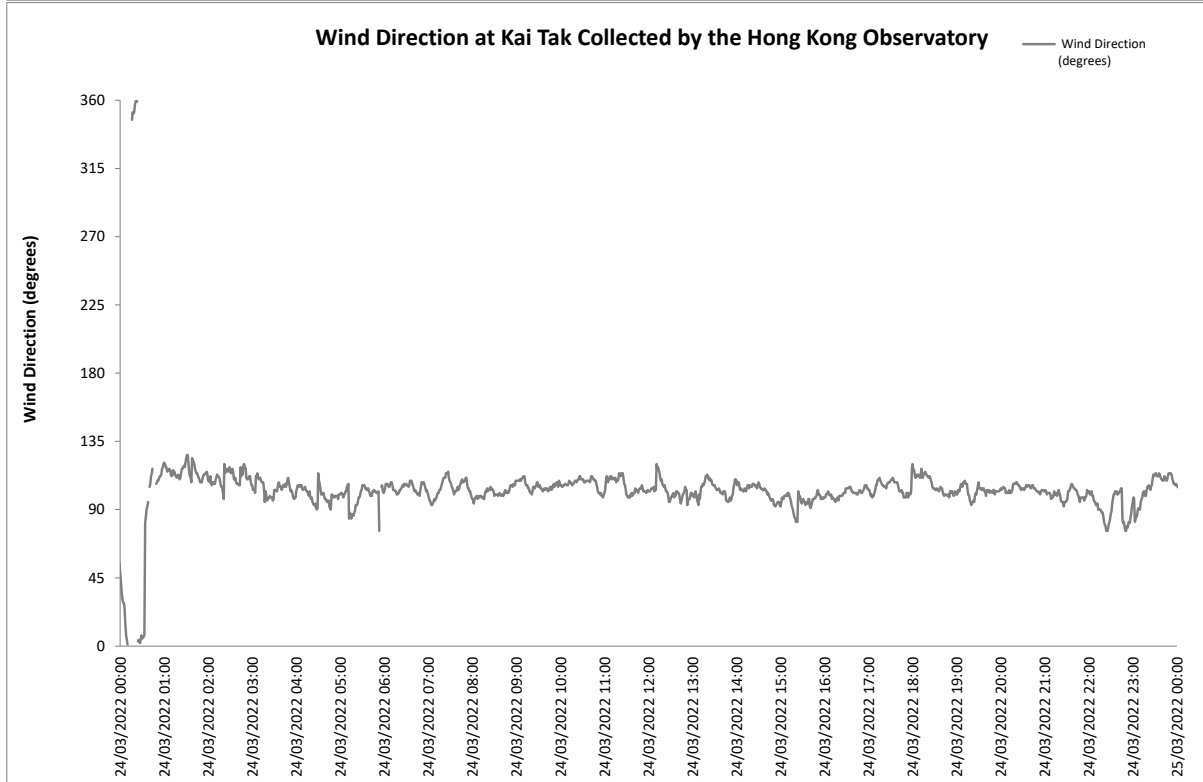
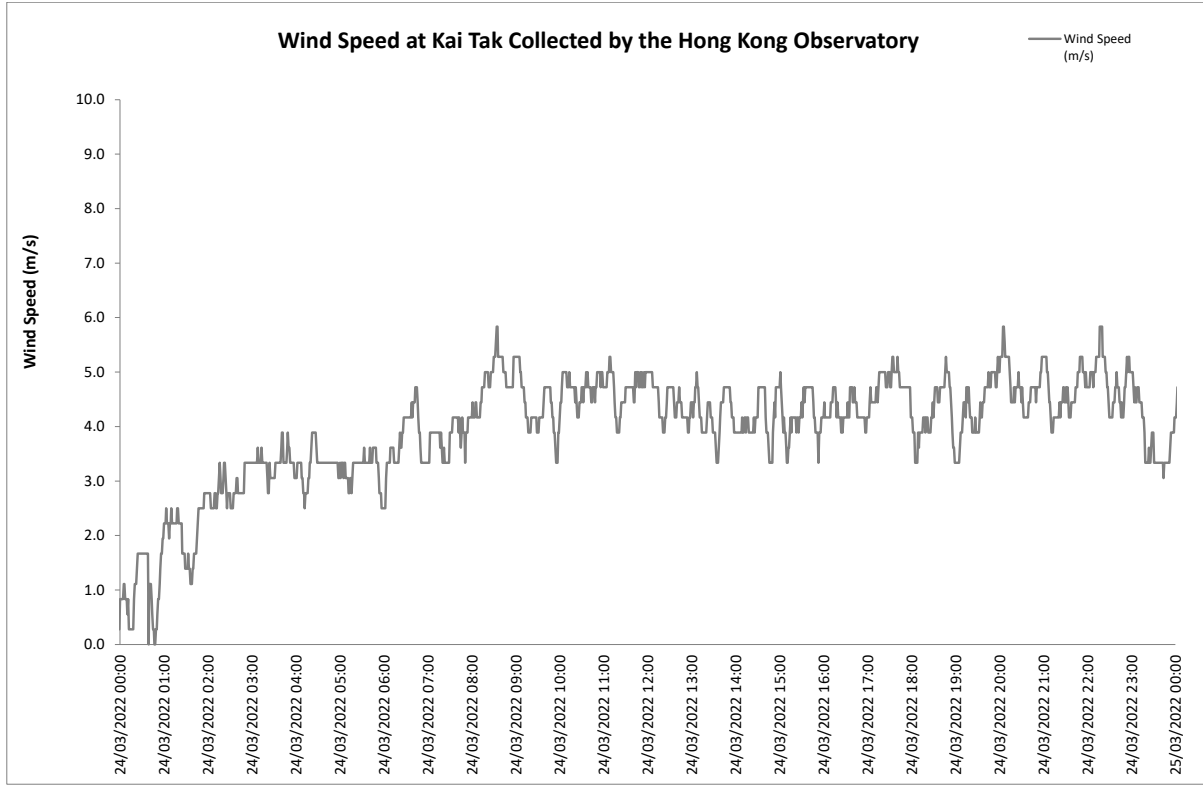
14 March 2022



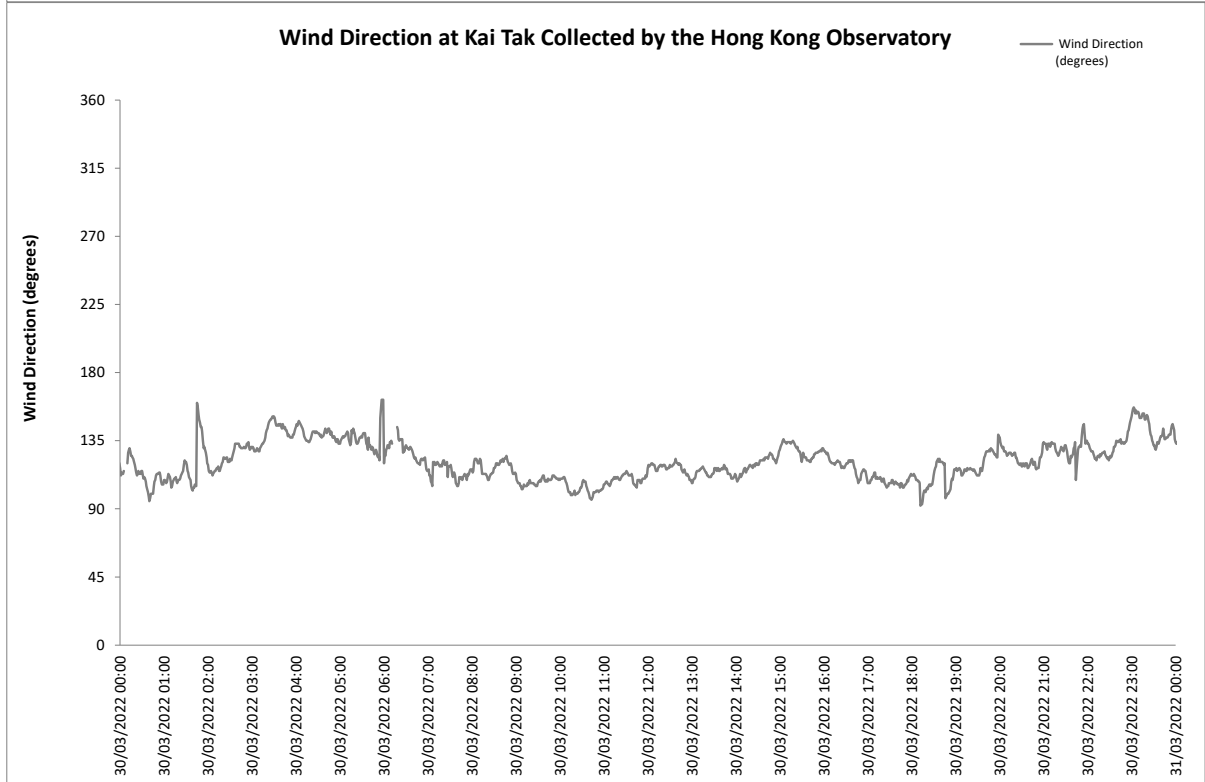
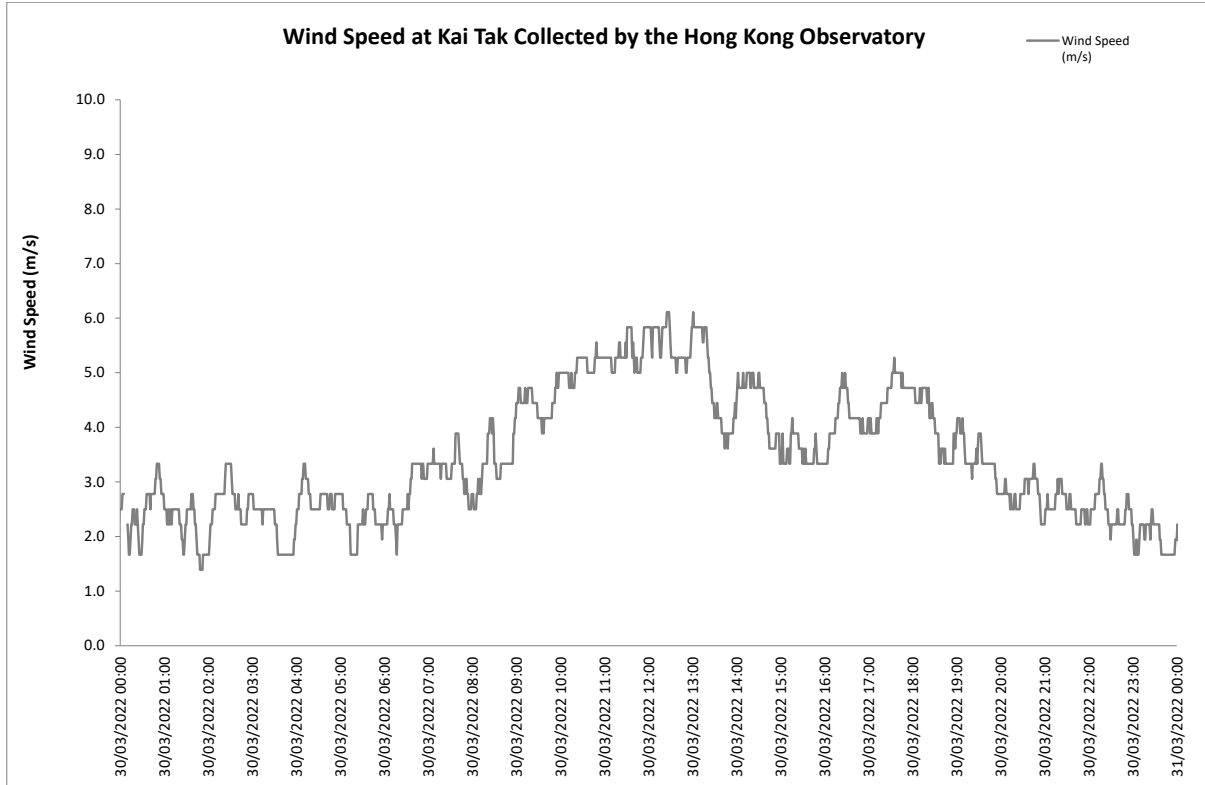
18 March 2022



24 March 2022



30 March 2022



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: 2019-2022



Monthly Waste Flow Table

Month	Total Quantity Generated	Total Quantity Generated (Excluded Excavated Material)	Actual Quantities of Inert C&D Materials Generated Monthly								Actual Quantities of C&D Materials Generated Monthly						Remarks
			Excavated Materials			Non-excavated Materials					Metals (steel bar / metal strip) ⁽¹⁾	Metals (aluminum can) ⁽¹⁾	Paper / cardboard packaging ⁽¹⁾	Plastics ^{(1) & (4)}	Chemical waste (wasted lubricant oil/ oil container)	Other, e.g. general refuse	
			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							
(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	d	e	f	g	h	i	j	k	l	m		
Jan-19																	
Feb-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Mar-19	4960.89	4741.39	219.50	0.00	0.00	0.00	0.00	0.00	0.00	11.84	0.00	0.00	0.00	0.00	4729.55		
Apr-19	1218.47	1211.81	6.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	1211.75		
May-19	87.29	87.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	87.28		
Jun-19	80.77	80.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.08	0.42	0.00	79.61		
Jul-19	2302.16	614.79	1687.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.95	0.00	613.54		
Aug-19	3619.81	280.59	3339.22	0.00	0.00	0.00	0.00	0.00	0.00	1.77	0.00	0.00	1.29	0.60	276.93		
Sep-19	9840.16	349.65	9490.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04	0.60	348.01		
Oct-19	11505.06	543.69	10961.37	0.00	0.00	0.00	0.00	0.00	0.00	81.95	0.00	1.43	1.15	0.00	459.16		
Nov-19	4718.13	313.84	4404.29	0.00	0.00	0.00	0.00	0.00	0.00	69.84	0.00	0.24	1.37	0.00	242.39		
Dec-19	5185.14	102.48	5082.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.63	0.80	100.05		
Jan-20	12107.08	127.05	11980.03	0.00	0.00	0.00	0.00	0.00	0.00	16.32	0.00	0.57	1.36	0.00	108.80		
Feb-20	18104.96	100.58	13459.32	0.00	4545.06	0.00	0.00	0.00	0.00	23.64	0.00	0.00	0.96	0.00	75.98		
Mar-20	35699.19	235.99	6615.03	0.00	28848.17	0.00	0.00	0.00	0.00	90.73	0.00	0.50	1.33	0.80	142.63		
Apr-20	42587.03	137.90	0.00	0.00	42449.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10	0.00	136.80		
May-20	64506.51	218.89	0.00	0.00	64287.62	0.00	0.00	0.00	0.00	47.41	0.00	0.40	1.61	0.00	169.47		
Jun-20	44983.53	337.20	6519.25	0.00	38127.08	0.00	0.00	0.00	0.00	171.56	0.00	0.58	2.55	0.80	161.71		
Jul-20	43468.97	602.89	0.00	0.00	42866.08	0.00	0.00	0.00	0.00	377.41	0.01	1.03	2.16	0.00	222.28		
Aug-20	61609.05	1121.82	3771.32	0.00	56715.91	0.00	0.00	0.00	0.00	861.33	0.35	1.58	2.35	0.00	256.21		
Sep-20	111046.04	730.59	0.00	0.00	110315.45	0.00	0.00	0.00	0.00	443.46	0.01	1.39	1.87	0.00	283.86		
Oct-20	109678.75	712.61	0.00	0.00	108966.14	0.00	0.00	0.00	0.00	385.68	0.02	1.00	1.64	0.00	324.27		
Nov-20	135055.14	852.56	0.00	0.00	134202.58	0.00	0.00	0.00	0.00	362.36	0.01	0.86	2.12	0.60	486.61		
Dec-20	132183.00	1163.51	6981.13	0.00	124038.36	0.00	0.00	0.00	0.00	390.22	0.08	2.19	1.66	0.00	769.36		
Jan-21	78129.57	1315.84	4253.06	0.00	72560.67	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	386.46	0.07	1.24	0.64	0.00	523.76		
Mar-21	51743.65	1314.82	18740.08	0.00	31688.75	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	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	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	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	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	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	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	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	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	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	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	158.11	0.00	0.51	0.00	0.00	1135.71		
Mar-22	27214.58	1755.41	25459.17	0.00	0.00	0.00	0.00	0.00	0.00	96.96	0.00	0.81	0.85	0.00	1656.79		
Total	1345878.83	41965.29	219311.17	0.00	1084602.38	0.00	0.00	0.00	0.00	7643.95	0.75	33.83	56.93	4.80	34225.04		

Total C&D waste generated 1345878.83 tonne a1=b+c+d+e+f+g+h+i+j+k+l+m
 Total C&D waste generated (excluding excavated materials) 41965.29 tonne a2=c+d+e+f+g+h+i+j+k+l+m
 Total recycled C&D waste 7735.45 tonne a3=c+d+e+h+i+j+k
 % of recycled C&D waste for BEAM Plus MA10 or MA11 18.43 % a4=a3/a2 x 100%

- 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 February 2022 and March 2022 have been updated according to the latest information from contractor in March 2022.
 - (9) Recycling record for metals, papers and plastics have been updated according to the latest information from contractor in March 2022.

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

Company: Hip Hing Construction Co., Ltd.

Monthly Summary Waste Flow Table

Month	Total Quantities Generated	Total Quantities Generated (excluded excavated material)	Accumulated Quantities of Inert C&D Materials Generated Monthly					Accumulated Quantities of Non-inert C&D Wastes Generated Monthly						
			(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
			Broken Concrete Recycled	Broken Concrete Diverted to Public Fill	Excavated Materials Reused in this Project	Excavated Materials Reused in other Projects	Excavated Materials Disposed as Public Fill	Mixed Wastes Diverted to Sorting Facility	Metals Recycled	Paper/ Cardboard Packaging Recycled	Timber/Wood Pallet Recycled	Plastics Recycled	Chemical Waste Collected	Others, e.g. General Refuse Disposed at Landfill
			(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
Sep-21	1550.68	0	0	0	0	1550.68	0	0	0	0	0	0	0	0
Oct-21	3694.29	30.52	0	0	0	3663.77	0	0	13.17	0	0	0	0	17.35
Nov-21	5447.65	68.57	0	0	0	5309.2	69.88	6.05	32.4	0	0	0	0	30.12
Dec-21	342.29	121.84	0	0	0	63.2	157.25	0	79.04	0	0	0	0	42.8
Jan-22	1485.53	319.31	0	0	0	493.4	672.82	27.52	276.523	0	0	0	0	15.27
Feb-22	186.81	153.00	0	0	0	0	33.81	4.65	123.283	0	0	0	0	25.07
Mar-22	1462.83	119.35	0	0	0	0	1343.48	89.56	11.56	0	0	0	0	18.23
Total	14170.0881	812.5981	0	0	0	11080.25	2277.24	127.78	535.9781	0	0	0	0	148.84

Total C&D Waste generated 14170.0881 Tons
 Total C&D waste generated (Excluded excavated materials) 812.5981 Tons
 Total C&D waste recycled 535.9781 Tons

$$\text{Waste Recycling Rate} = \frac{(a) + (g) + (h) + (i) + (j)}{(a) + (b) + (f) + (g) + (h) + (i) + (j) + (l)} \times 100\% = 65.96\%$$

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

Appendix J. Environmental Licences and Permits

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

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	Construction Waste Disposal Account (Vessel)	7033555	6 Oct 2021	25 Oct 2021	10 Feb 2022	Issued
5	Registration as a Chemical Waste Producer	WPN5213-286-H3906-02	29 Jan 2019	12 Feb 2019	N/A	N/A
6	Discharge Licence under WPCO	WT00034082-2019	12 Jun 2019	26 Jun 2019	30 Jun 2024	Issued
7	Construction Noise Permit (Construction Works, Barging Point)	GW-RE1158-21	8 Nov 2021	2 Dec 2021	21 May 2022	Issued
8	Construction Noise Permit (Special Truss Delivery Port)	GW-RE1299-21	14 Dec 2021	6 Jan 2022	5 Apr 2022	Issued
9	Construction Noise Permit (Construction Works, Southern Site)	GW-RE0051-22	3 Jan 2022	4 Feb 2022	3 Aug 2022	Issued
10	Construction Noise Permit (Construction Works, Shing Kai Road)	GW-RE0073-22	26 Jan 2022	7 Feb 2022	6 May 2022	Issued
11	Construction Noise Permit (Construction Works, Northern Site)	GW-RE1218-22	22 Nov 2021	1 Feb 2022	29 Apr 2022	Issued

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

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	458255	17 Jul 2020	17 Jul 2020	N/A	N/A
		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	Issued
5	Discharge Licence under WPCO	WT00039490-2021	6 Aug 2021	9 Nov 2021	30 Nov 2026	Issued
6	Marine Dumping Permit under DASO	EP/MD/21-087	23 Nov 2020	5 Jul 2021	4 Aug 2021	Issued
		470717 (Receipt No.)	18 Aug 2021	N/A	N/A	Withdrawal of application
7	Construction Noise Permit	GW-RE1186-21	16 Nov 2021	7 Dec 2021	1 Jun 2022	Issued

Appendix K. Environmental Mitigation Measures Implementation Status

Air Quality – Recommended Mitigation Measures

Air Quality Mitigation Measures during construction	Implementation Status	
	KTSP	H/O
• Good housekeeping to minimize dust generation, e.g. by properly handling and storing dusty materials	✓	✓
• 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	✓	✓
• 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	✓	✓
• 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	P	✓
• 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 extend 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	✓	✓
• 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	✓	P
• All on-site unpaved roads should be compacted and kept free of loose 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	Implementation Status	
	KTSP	H/O
• Regular maintenance of all plant equipment	✓	✓
• 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.	✓	✓
• 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	✓	✓
• 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/m ³ to achieve 91.7% dust removal efficiency.	P	✓
• 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.	✓	N/A
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.	✓	✓

Noise – Recommended Mitigation Measures

Noise Mitigation Measures during construction	Implementation Status	
	KTSP	H/O
• Adopt good site practice, such as throttle down or switch off equipment unused or intermittently used between works	✓	✓
• 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	✓	✓
• 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/m ² . Alternatively, acoustic shed, enclosure or silencer (for generator, air compressor and concrete pump) or acoustic mat (for piling) can be adopted.	✓	N/A
• Carry out regular site inspection to audit the implementation of mitigation measures	✓	✓
• Carry out noise monitoring throughout the construction period	✓	✓

Water Quality – Recommended Mitigation Measures

Water Quality Mitigation Measures during construction	Implementation Status	
	KTSP	H/O
• Practices outlined in ProPECC PN 1/94 Construction Site Drainage should be adopted.	P	P
• Install perimeter channels in the works areas to intercept runoff from boundary prior to the commencement of any earthwork	✓	✓
• To prevent storm runoff from washing across exposed soil surfaces, intercepting channels should be provided.	✓	✓
• Drainage channels are required to convey site runoff to sand/silt traps and oil interceptors. Provision of regular cleaning and maintenance to ensure the normal operation of these facilities throughout the construction period.	✓	✓
• Any practical options for the diversion and realignment of drainage should comply with both engineering and environmental requirements	✓	✓
• Minimum distances of 100 m should be maintained between the discharge points of construction site runoff and the existing WSD saltwater intake and EMSD cooling water intake.	✓	✓
• The following good site measures should be adopted for the use of the existing barging facilities being operated by the MTR SCL Project: - All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash. - All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material. - Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site. - Loading of barges and hoppers should be controlled to prevent splashing of material into the surrounding water. - Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation. Whole construction site Contractor P WPCO, EIAO-TM Page	N/A	N/A
• The runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS.	✓	✓
• Reuse and recycling of the treated effluent from construction site runoff.	✓	✓
• Weekly site audit should be carried out to check the implementation status of the recommended water quality impact mitigation measures throughout construction period.	✓	✓
• The construction programme should be properly planned to minimise soil excavation, if any, in rainy seasons.	✓	✓
• Any exposed soil surfaces should be properly protected to minimise dust emission.	✓	✓
• In areas where a large amount of exposed soils exist, earth bunds or sand bags should be provided.	✓	✓
• Exposed stockpiles should be covered with tarpaulin or impervious sheets at all times.	✓	✓
• The stockpiles of materials should be placed at locations away from any stream courses so as to avoid releasing materials into the water bodies.	✓	✓
• Final surfaces of earthworks should be compacted and protected by permanent work.	✓	✓
• Haul roads should be paved with concrete and the temporary access roads protected using crushed stone or gravel, wherever practicable.	✓	✓
• Wheel washing facilities should be provided at all site exits to ensure that earth, mud and debris would not be carried out of the works areas by vehicles.	✓	✓
• Good site practices should be adopted to keep the site dry and tidy, such as clean the rubbish and litter on the construction sites.	✓	✓
• Adequate temporary site drainage and pumping should be provided, if necessary.	✓	✓
• Provide sufficient temporary toilets in the works areas. The toilet facilities should be more than 30 m from any watercourse. A licensed waste collector should be deployed to clean the temporary toilets on a regular basis.	✓	✓
• Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the Project.	✓	✓

Water Quality Mitigation Measures during construction	Implementation Status	
	KTSP	H/O
<ul style="list-style-type: none"> 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. 	✓	✓
<ul style="list-style-type: none"> 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. 	✓	N/A
<ul style="list-style-type: none"> Clean the construction sites on a regular basis. 	✓	✓
<ul style="list-style-type: none"> 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	N/A
<ul style="list-style-type: none"> 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		
<ul style="list-style-type: none"> Implementation of Sewer No. 1 and Sewer No.2 as proposed in Sections 7.2.2 - 7.2.3 of the EIA Report 	✓	✓

Waste Management – Recommended Mitigation Measures

Waste Management Mitigation Measures during construction	Implementation Status	
	KTSP	H/O
<ul style="list-style-type: none"> 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. 	✓	✓
<ul style="list-style-type: none"> 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. 	✓	✓
<ul style="list-style-type: none"> Adopt good site practice as follows: <ul style="list-style-type: none"> Provide training to workers on site cleanliness, waste management (waste reduction, reuse and recycle) and chemical handling procedures 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 	P	✓
<ul style="list-style-type: none"> Adopt waste reduction measures as follows: <ul style="list-style-type: none"> 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 Minimize wastage through careful planning and avoiding over-purchase of construction materials 	✓	✓
<ul style="list-style-type: none"> Store waste materials properly as follows: <ul style="list-style-type: none"> 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 	P	✓
<ul style="list-style-type: none"> 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). 	✓	✓
<ul style="list-style-type: none"> Hire licensed waste disposal contractors for waste collection and removal. Dispose waste at licensed waste disposal facilities. 	✓	✓
<ul style="list-style-type: none"> Implement trip-ticket system for recording the amount of waste generated, recycled and disposed, including chemical wastes 	✓	✓

Waste Management Mitigation Measures during construction	Implementation Status	
	KTSP	H/O
<ul style="list-style-type: none"> 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 	✓	✓
<ul style="list-style-type: none"> Dispose dry waste or waste with less than 70% water content by weight to landfill 	✓	✓
<ul style="list-style-type: none"> Follow the Code of Practice on the Packaging, Labelling and Storage of Chemical Waste as follows: <ul style="list-style-type: none"> 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 	✓	✓
<ul style="list-style-type: none"> Comply with the requirement of the chemical storage area: <ul style="list-style-type: none"> 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 20% of the total volume of the stored waste in the area, whichever is larger Adequately spaced incompatible materials 	P	✓
<ul style="list-style-type: none"> 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 	✓	✓
<ul style="list-style-type: none"> 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 	✓	✓
<ul style="list-style-type: none"> Hire reputable waste collector to separately collect and dispose general refuse from other wastes. Cover the waste to prevent being blown away 	✓	✓
<ul style="list-style-type: none"> 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 	✓	✓
<ul style="list-style-type: none"> 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. 	✓	✓
<ul style="list-style-type: none"> Organize training and reminders to site staff on waste minimization through avoidance and reduction, reusing and recycling 	✓	✓
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> 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 	✓	✓
<ul style="list-style-type: none"> Carry out weekly site inspection to check the implementation status of the recommended waste management measures. 	✓	✓
<ul style="list-style-type: none"> 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	✓	✓
• Designate areas for placement of equipment, building materials and wastes away from drainage channels	✓	✓
• Carry out weekly site inspection to check the implementation status and the effectiveness of the proposed mitigation measures	✓	✓

Landscape and Visual – Recommended Mitigation Measures

Landscape and Visual Mitigation Measures during construction	Implementation Status	
	KTSP	H/O
• Construction Lighting Control - 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).	✓	N/A
• Temporary Landscape Treatments - 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.	✓	N/A
• Decoration of Hoarding - 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	✓	N/A
• Site inspection should be undertaken once every two weeks.	✓	✓
• Compensatory Tree Planting - 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.	N/A	N/A

Other – Recommended Mitigation Measures

• Relevant environmental permits/licences should be posted at all vehicle entrances/exits.	✓	✓
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Legend:

✓	Implemented
×	Not implemented
P	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 (Mar 2022)	0	0	0
From commencement data of construction to end of reporting month	18	0	0