

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

Quarterly EM&A Report (Jul 2021 – Sep 2021)

Oct 2021

Home Affairs Bureau Kai Tak Sports Park Project Office 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

Quarterly EM&A Report (Jul 2021 – Sep 2021)

Oct 2021



Environmental Permit No. EP-544/2017

Kai Tak Sports Park - Investigation

Independent Environmental Checker Verification

Reference Document/Plan

Document/Plan to be Certified/ Verified: Quarterly EM&A Report No. 10 (July to September 2021)

Date of Report: October 2021

Date received by IEC: 28 October 2021

Reference EP Condition / EM&A Manual

EM&A Manual (AEIAR-204/2017)

Sections 2.5.1 (v) & 14.1.1

The ET should prepare monthly, quarterly and final EM&A reports to summarize environmental performance and to anticipate future key issues.

The ET shall prepare baseline monitoring report, monthly EM&A reports, quarterly EM&A report and final EM&A report. They shall be submitted to the EPD in paper and electronic formats in a timely manner.

IEC Verification

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

Ms Mandy To

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Mis Mandy 16 Date: 1 November 2021

Independent Environmental Checker

Our ref: 0500384_IEC Verification Cert_KTSP_Quarterly EM&A Rpt No.10.docx





Environmental Permit No. EP- 544/2017

Kai Tak Sports Park - Investigation

Environmental Team Leader Certification

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ETL Certification

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

Mr Sunny Chan

Sumy Chan

Environmental Team Leader Date: 1 November 2021

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Executive Summary

This is the 10th Quarterly Environmental Monitoring & Audit (EM&A) Report for the construction phase of the Kai Tak Sports Park (KTSP) Project which summaries findings of the EM&A programme during the reporting period from 1 July 2021 to 30 September 2021 (the "reporting period") under the Environmental Permit (No. EP-544/2017) requirement.

Environmental Monitoring and Audit Progress

The monthly EM&A programme was implemented by Environmental Team (ET) in accordance with the approved EM&A Manual. A summary of the EM&A activities during the reporting period is presented below:

Activities	Locations	Dates
Air quality impact monitoring (1-hour TSP)	AMS1, AMS2	2, 8, 14, 20, 26, 30 July 2021 5, 11, 17, 23, 27 August 2021 2, 8, 14, 18, 24, 29 September 2021
Noise impact monitoring ($L_{eq~(30~min)}$)	NMS1, NMS2	2, 8, 14, 20, 26 July 2021 5, 11, 17, 23 August 2021 2, 8, 14, 24, 29 September 2021
Weekly environmental site inspections	Kai Tak Sports Park Project Site	7, 14, 21, 27 July 2021 4, 11, 18, 24 August 2021 1, 8, 15, 21, 28 September 2021
Bi-weekly landscape and visual site inspections	Kai Tak Sports Park Project Site	7, 21 July 2021 4, 18 August 2021 8, 21 September 2021

Breaches of Action and Limit Levels

Air Quality

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

Noise

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

Complaint Log

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 this reporting period.

Reporting Changes

There was no reporting change during the reporting period.

Project Information 1

1.1 **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	Environmental Team Leader	Sunny Chan	2828 5962	2827 1823
(Mott MacDonald Hong Kong Limited)	Deputy Environmental Team Leader	Henry Leung	2828 5876	2827 1823
Independent Environmental Checker (ERM Hong Kong Limited)	Independent Environmental Checker	Mandy To	2271 3000	2723 5660
Contracted Party (Kai Tak Sports	Senior Project Manager	Michael Wong (till Jul 2021)	3552 5003	2845 9295
Park Limited)	Senior Environmental Engineer	Hiko Law (till Jul 2021)	3552 5013	3552 5099
	Assistant Contract Manager	Eric Chung (from Aug 2021)	3552 5003	2845 9295
	Environmental Officer	Gary Yim (from Aug 2021)	3552 5013	3552 5099
Hotel and Office De	velopment			
Project Manager (Sanon Limited)	Senior Group Project Director	David Lee	2910 8368	2815 9949
	Project Manager	William Chan	2910 8363	2815 9949
Project Architect (P&T Architects & Engineers Limited)	Project Architect	Patrick Chan	2832 7205	-
Contractor (CR Construction Company Limited)	Contractor	Math Chan (till Jul 2021)	3950 5714	-
Contractor (Hip Hing Construction Co. Ltd.)	Project Manager	lan Ku (from Aug 2021)	6099 9686	-

Party	Position	Name	Telephone	Fax	
24-hour Community Liaison Hotline	-	-	5587 6112	-	

1.2 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.

1.3 Construction Works undertaken during the Reporting Period

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

Table 1.2: Construction Works undertaken during the Reporting Period

July 2021	August 2021	September 2021
KTSP		
 Ground investigation works; Rebar fixing; Piling works (Percussive piling, Socket H piling and Bored piling); Mobilization; Concreting and excavation 	 Ground investigation works; Rebar fixing; Piling works (Percussive piling, Socket H piling and Bored piling); Mobilization; and Concreting and excavation 	 Ground investigation works; Rebar fixing; Mobilization; and Concreting and excavation; and Main Stadium truss delivery.
H/O Development		
Excavation	 Excavation 	Excavation; andConcreting.

2 Summary of EM&A Requirement

2.1 EM&A Requirement

In accordance with the EM&A Manual of the Project, the EM&A programme was established to assure compliance with the standards and predictions in the EIA study involving the construction and operation of the Project. The environmental performance was routinely monitored and audited for evaluating the effectiveness of the recommended mitigation measures or remedial action. Impact air quality and noise monitoring were required for the Project.

Air Quality

2.2 Air Quality Monitoring Parameters, Frequency and Duration

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

Table 2.1: Air Quality Monitoring Parameters, Frequency and Duration

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

2.3 Air Quality Monitoring Locations

According to the EM&A Manual, a total of five air quality monitoring stations are identified for impact monitoring. AMS1 and AMS2 were set up at the proposed locations for impact monitoring during the reporting period. AMS3, AMS4 and AMS5 are planned residential use and were currently not available for impact monitoring.

Table 2.2 describes the impact air quality monitoring stations and <u>Figure 2.1</u> 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.

2.4 Action and Limit Levels for Air Quality Monitoring

The Action and Limit Levels for 1-hr TSP are provided in **Table 2.3**.

Table 2.3: Action and Limit Levels for 1-hour TSP

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

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

The event and action plan is provided in **Appendix D**.

2.5 Wind Data

Wind data at Kai Tak automatic weather station collected from the Hong Kong Observatory (HKO) were used for the air quality monitoring for recording wind speed and wind direction. 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 detail of the wind data is shown in **Appendix F**.

Noise

2.6 Noise Monitoring Parameters, Frequency and Duration

Table 2.4 summarises the monitoring parameters, frequency and duration of impact noise monitoring.

Table 2.4: 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

2.7 Noise Monitoring Locations

According to the approved EM&A Manual, a total of seven noise monitoring stations were identified for the impact monitoring locations. NMS1 and NMS2 were set up at the proposed locations for impact monitoring during the reporting period. NMS1A, NMS2A, NMS3, NMS4 and NMS5 are planned residential use and were currently not available for impact monitoring.

Table 2.5 describes the details of the monitoring stations and <u>Figure 2.2</u> shows the locations of noise monitoring stations.

Table 2.5: Construction Noise Monitoring Locations

Monitoring Station	Location Description	Status
NMS1	Hong Kong Society for the Blind	Existing Noise Sensitive
	Workshop, Roof Floor	Receiver
NMS2	Sky Tower, Podium of Tower 7	Existing Noise Sensitive
	·	Receiver
NMS1A	Sung Wong Toi Road Public	Planned Noise Sensitive
	Housing Site	Receiver
NMS2A	Sung Wong Toi Road CDA Site	Planned Noise Sensitive
	(mixed use)	Receiver
NMS3	Kai Tak Area 2B Site 4 (2B4)	Planned Noise Sensitive
	(residential use)	Receiver
NMS4	Kai Tak Area 1K Site 3 (1K3)	Planned Noise Sensitive
	(residential use)	Receiver
NMS5	Kai Tak Area 1L Site 3 (1L3)	Planned Noise Sensitive
	(residential use)	Receiver

Action and Limit Levels for Noise Monitoring

The Action and Limit Levels for construction noise are defined in Table 2.6

Table 2.6: 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**.

3 Summary of Environmental Status

3.1 Construction Works undertaken during the Reporting Period

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

Table 3.1: Construction Works undertaken during the Reporting Period

July 2021	August 2021	September 2021
KTSP		
 Ground investigation works; Rebar fixing; Piling works (Percussive piling, Socket H piling and Bored piling); Mobilization; Concreting and excavation; H/O Development 	 Ground investigation works; Rebar fixing; Piling works (Percussive piling, Socket H piling and Bored piling); Mobilization; and Concreting and excavation 	 Ground investigation works; Rebar fixing; Mobilization; and Concreting and excavation; and Main Stadium truss delivery
Excavation	 Excavation 	Excavation; andConcreting.

3.2 Implementation Status of Environmental Mitigation Measures

Regular site inspections and audits were carried out to monitor the implementation of proper environmental pollution control mitigation measures for the Project. **Table 3.2** shows the summary of site inspection and audit conducted during the reporting period.

Table 3.2: Summary of Site Inspection and Landscape Audit during the Reporting Period

Activities	Locations	Dates
Weekly environmental site inspections	Kai Tak Sports Park Project Site	7, 14, 21, 27 July 2021 4, 11, 18, 24 August 2021 1, 8, 15, 21, 28 September 2021
Bi-weekly landscape and visual site inspections	Kai Tak Sports Park Project Site	7, 21 July 2021 4, 18 August 2021 8, 21 September 2021

A summary of the environmental mitigation measures implementation status is presented in **Appendix I**. Most of the necessary mitigation measures were implemented properly. A summary of the environmental licenses and permits is presented in **Appendix H**.

3.3 Monitoring Results

The monitoring results for 1-hour TSP at AMS1 and AMS2 are summarized in **Table 3.3**. Detailed impact air quality monitoring results are presented in **Appendix E**. The calibration certificate for the dust meter used during monitoring is shown in **Appendix K**

Table 3.3: Summary of 1-hour TSP Monitoring Results during the Reporting Period

Monitoring Station	Average, μg/m³	Min, μg/m³	Max, μg/m³	Action Level, µg/m³	Limit Level, µg/m³
AMS1	50	26	86	283	500

AMS2	51	21	82	280	500	

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

The monitoring results for construction noise are summarized in **Table 3.4**. Detailed impact noise monitoring results and relevant graphical plots are presented in **Appendix E**. The calibration certificate for the noise meter used during monitoring is shown in **Appendix K**

Table 3.4: Summary of Construction Noise Monitoring Results during the Reporting Period

Measured Noise Level Leq (30 mins), dB(A)							
Monitoring Station	Average	Min	Max	Limit Level			
NMS1	69	67	72	75			
NMS2	69	67	71	75			

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

3.4 Solid and Liquid Waste Management Status

The summary of waste flow table during the reporting period is detailed in **Appendix G**.

The comparison of estimated amount of waste generated for construction of the Project and actual amount generated during the reporting period is showed in **Table 3.5**

Mitigation measures recommended in EIA Report were implemented by the Contractor as far as practicable and were considered effective in reducing the total quantity of waste generated during the reporting period.

Table 3.5: Comparison of Estimated Amount and Actual Amount of Waste Generated during the Reporting Period

Type of Waste	Estimated Amount for the Project in the EIA (m³)	Actual Amount during Reporting Period (000kg)	Actual Amount during Reporting Period* (m³)
Inert C&D materials (or public fills) to be disposed of	447,464	36,893	28,379
Non-inert C&D materials (or C&D waste) to be disposed of	68,110	6,833	8,541
Total C&D material of the Project	515,574	43,726	36,920

*Note:

Assumed Inert C&D waste density = 1,300 kg/m³ Assumed Non-inert C&D waste density = 800 kg/m³

3.5 Summary of Non-compliance Status

Exceedances

Air Quality

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

Noise

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

Complaints

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

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 J**.

4 Comments, Recommendations and Conclusion

4.1 Comments

Mitigation measures in the EM&A Manual were implemented during the reporting period. The weekly environmental site inspections ensured that all the environmental mitigation measures recommended were effectively implemented. Based on observation from the site inspections, landscape audits, and the air quality and noise impact monitoring results recorded, it was considered that mitigation measures were effective and efficient in controlling the potential impacts due to construction of the project during the reporting period.

4.2 Recommendations

During the reporting period, the following recommendations were provided:

July 2021

KTSP

- The contractor was reminded to provide appropriate noise mitigation measure for the breaking work.
- The contractor was reminded to provide covering for the cement stacks with over 20 bags.
- The contractor was reminded to clear the sewage regularly to prevent overflow.
- The contractor was reminded to display the NRMM label for the excavator.
- The contractor was reminded to provide drip tray for the chemical container.
- The contractor was reminded to provide temporary pumping to clean the stagnant water.
- The contractor was reminded to clear the general refuse regularly.
- The contractor was reminded to provide covering for the stockpile on site.

H/O Development

The contractor was reminded to clear the mud along the site boundary.

August 2021

KTSP

- The contractor was reminded to dispose of the general refuse properly.
- The contractor was reminded to clear the stagnant water.
- The contractor was reminded to store the chemical container properly.
- The contractor was reminded to display new NRMM label for the generator.
- The contractor was reminded to clear the general refuse and ensure proper disposal of general refuse in rubbish bin.

H/O Development

- The contractor was reminded to clear the mud at the site boundary.
- The contractor was reminded to display the NRMM label for the generator on site.
- The contractor was reminded to display the environmental permit at the site entrance.

September 2021

KTSP

- The contractor was reminded to dispose of the general refuse properly.
- The contractor was reminded to clear the stagnant water at the storage tank.
- The contractor was reminded to provide appropriate noise mitigation measure for the breaking work.
- The contractor was reminded to provide water spraying for the haul road.
- The contractor was reminded to provide temporary pumping for the stagnant water.
- The contractor was reminded to display NRMM label for the generator on site.
- The contractor was reminded to provide drip trays for the chemical container on site.
- The contractor was reminded to clear general refuse regularly.
- The contractor was reminded to provide covering for the stockpile on site.

H/O Development

- The contractor was reminded to provide water spraying for breaking work.
- The contractor was reminded to display the NRMM label for the excavator.

Review of the effectiveness and efficiency of the EM&A programme will be continued, and recommendations will be provided to remediate any potential impacts due to the project and to improve the EM&A programme if deficiencies of the existing EM&A programme are identified.

4.3 Conclusions

General

The construction works for the Project commenced on 8 April 2019. This is the 9th Quarterly EM&A Report for the Project summarises findings of the EM&A works during the reporting period from 1 July 2021 to 30 September 2021. (the "reporting period").

Breaches of Action and Limit Levels

Air Quality

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

Noise

No Action and Limit Level exceedances of noise was recorded during the reporting period.

Environmental Site Inspections

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

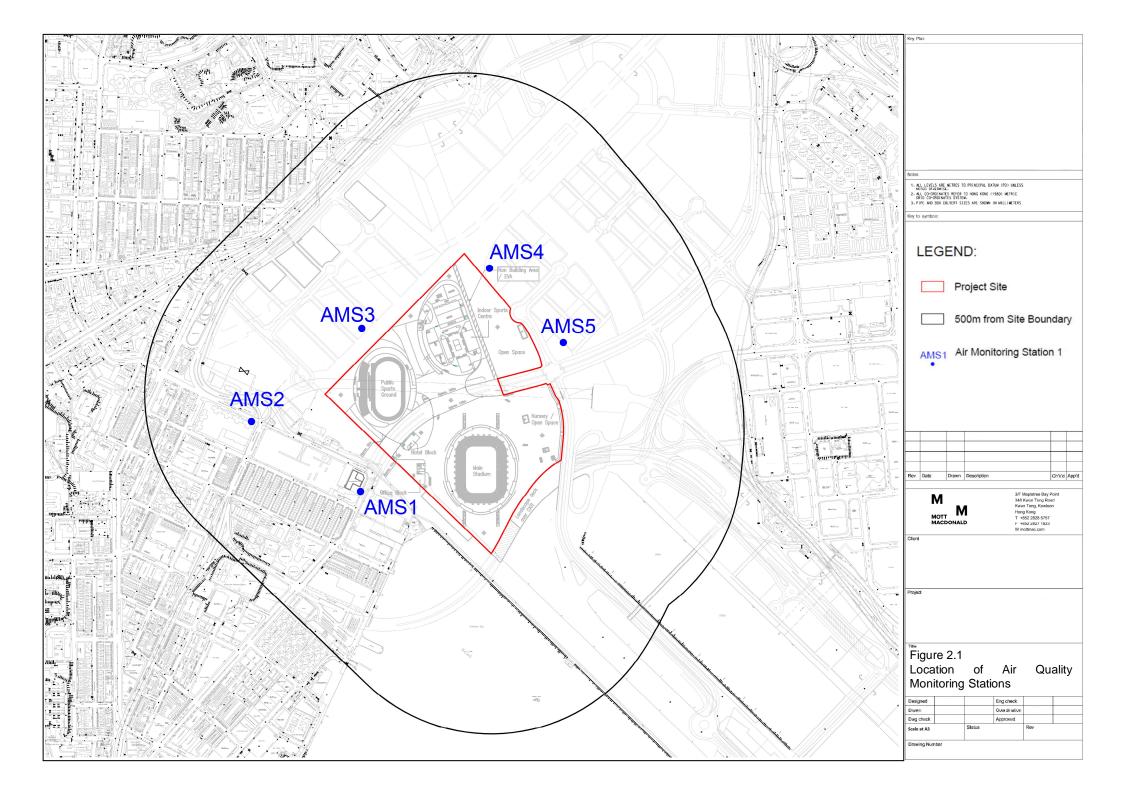
Complaints

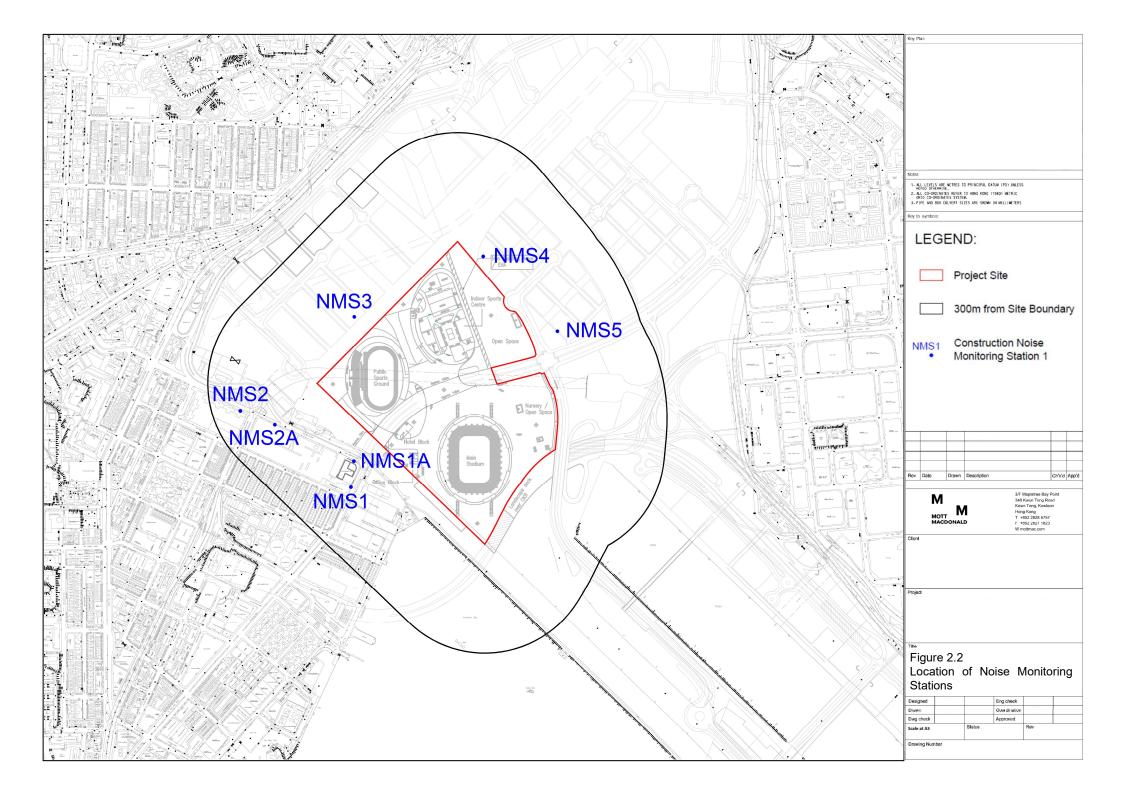
There was no complaint received in relation to the environmental impact during the reporting period.

Notifications of Summons and Successful Prosecutions

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

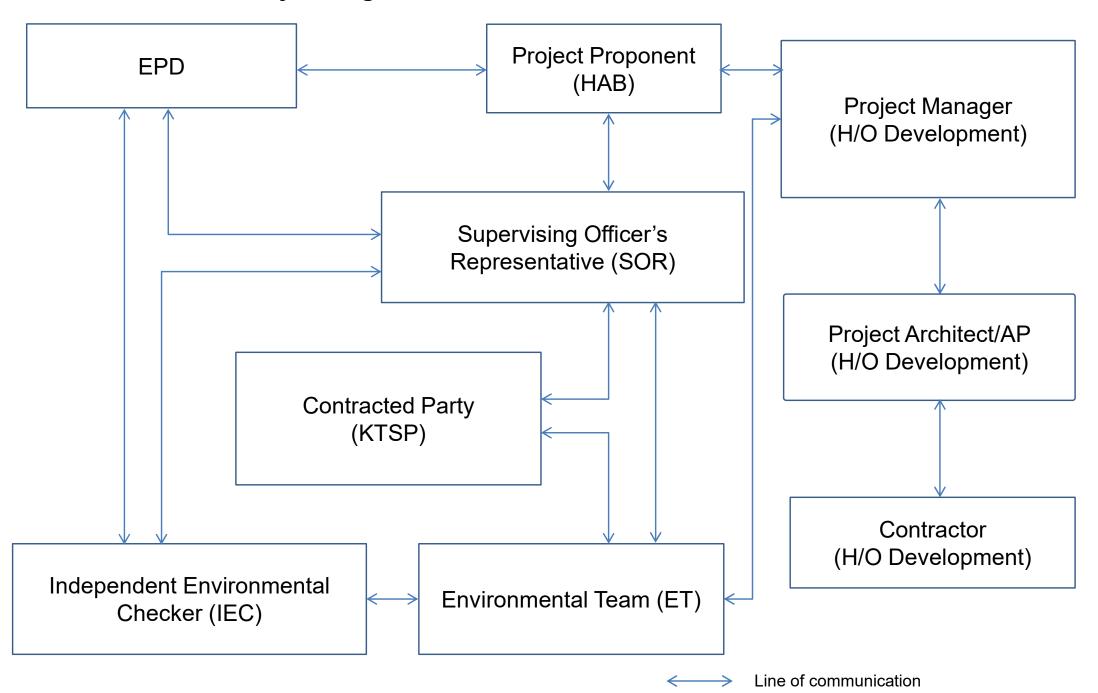
Figures



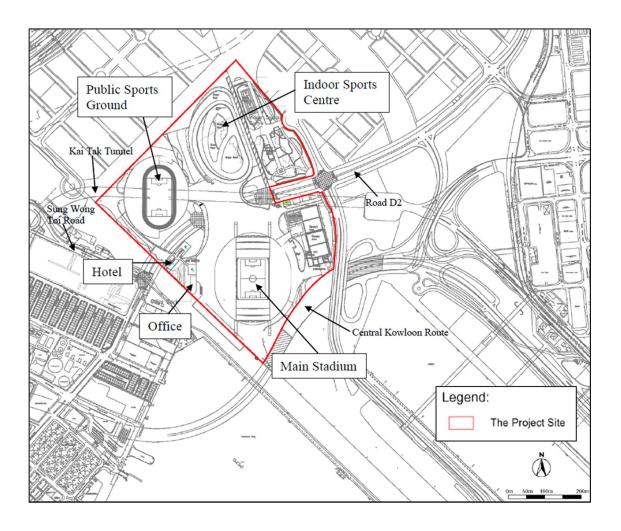


Appendix A. Project Organization for Environmental Works

Project Organisation for Environmental Works



Appendix B. Location of Works Areas



Appendix C. Construction Programme

Construction Programme (Jul 2021 to Oct 2021)

Kai Tak Sports Park

							2021					
Construction Activities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Plants Mobilization												
C&D Waste Disposal (By vessel)												
Rebar Fixing								8				
Loading/ Unloading of Materials												
Excavation												
Ground Investigation												
C&D Waste Disposal												
Piling (Percussive Piling)												
Piling (Socket H Piling)												
Piling (Bored Piling)												
Concreting												
Lifting												
C&D Materials Internal Transportation												
Main Stadium Truss Delivery									7-			

Hotel and Office Development

		2021										
Construction Activities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Loading/Unloading of Materials												
Excavation												
Concreting												
C&D Waste Disposal							la .					

Appendix D. Event and Action Plan

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

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

Event	Action								
	ET	IEC	SOR	Contracted Party					
Action Level									
Exceedance for one sample	Inform IEC, SOR and Contracted Party; Identify source, investigate the causes of exceedance and propose remedial measures; Repeat measurement to confirm finding.	Check monitoring data submitted by ET; Check Contracted Party's working method.	1. Notify Contracted Party.	Rectify any unacceptable practice; Amend working methods if appropriate.					
Exceedance for two or more consecutive samples	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.	Confirm receipt of notification of failure in writing; Notify Contracted Party; 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	ET	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

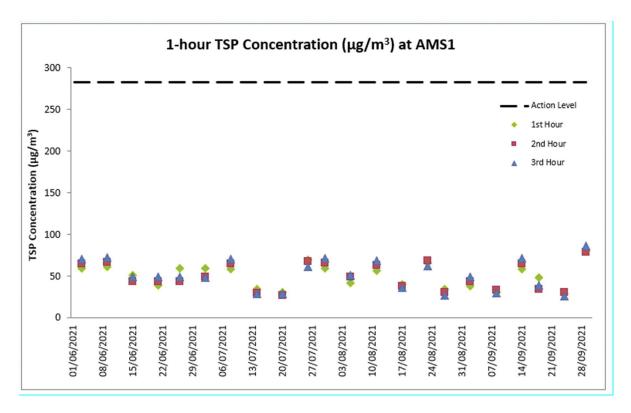
Event	Action									
	ET	IEC	ET	Contracted Party						
Action Level	1. Notify IEC, SOR and Contracted Party of exceedance; 2. Identify source; 3. Investigate the causes of exceedance and propose remedial measures; 4. Report the results of investigation to the IEC, SOR and Contracted Party; 5. Discuss 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	Submit noise mitigation proposals to SOR with copy to ET and IEC; 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. Monitoring Data and Graphical Plots (Air Quality and Noise)

Data for 1-hour TSP Monitoring at Station AMS1

2-Jul-21 9:07 10:07 Cloudy 2.8 171 60 2-Jul-21 10:07 11:07 Cloudy 2.8 206 49 2-Jul-21 11:07 12:07 Cloudy 4.2 219 48 8-Jul-21 9:57 10:57 Fine 5.3 112 59 8-Jul-21 10:57 11:57 Fine 4.4 120 65 8-Jul-21 11:57 12:57 Fine 4.4 115 71 14-Jul-21 9:08 10:08 Sunny 1.4 120 35 14-Jul-21 10:08 11:08 Sunny 2.8 139 30 14-Jul-21 11:08 12:08 Sunny 3.3 126 29 20-Jul-21 9:27 10:27 Fine 1.1 172 31 20-Jul-21 10:27 11:27 Fine 5.3 67 27 20-Jul-21 11:27 12:27 Fine 1.1 131 29 26-Jul-21 10:10 10:10 Sunny<	TSP 1 ³)
2-Jul-21 11:07 12:07 Cloudy 4.2 219 48 8-Jul-21 9:57 10:57 Fine 5.3 112 59 8-Jul-21 10:57 11:57 Fine 4.4 120 65 8-Jul-21 11:57 12:57 Fine 4.4 115 71 14-Jul-21 9:08 10:08 Sunny 1.4 120 35 14-Jul-21 10:08 11:08 Sunny 2.8 139 30 14-Jul-21 11:08 12:08 Sunny 3.3 126 29 20-Jul-21 9:27 10:27 Fine 1.1 172 31 20-Jul-21 9:27 10:27 Fine 5.3 67 27 20-Jul-21 11:27 12:27 Fine 1.1 131 29 26-Jul-21 9:10 10:10 Sunny 2.8 242 70 26-Jul-21 10:10 11:10 Sunny	
8-Jul-21 9:57 10:57 Fine 5.3 112 59 8-Jul-21 10:57 11:57 Fine 4.4 120 65 8-Jul-21 11:57 12:57 Fine 4.4 115 71 14-Jul-21 9:08 10:08 Sunny 1.4 120 35 14-Jul-21 10:08 11:08 Sunny 2.8 139 30 14-Jul-21 11:08 12:08 Sunny 3.3 126 29 20-Jul-21 9:27 10:27 Fine 1.1 172 31 20-Jul-21 10:27 11:27 Fine 5.3 67 27 20-Jul-21 11:27 12:27 Fine 1.1 131 29 26-Jul-21 9:10 10:10 Sunny 2.8 242 70 26-Jul-21 10:10 11:10 Sunny 2.8 234 68 26-Jul-21 11:10 12:10 Sunny 1.4 241 61 30-Jul-21 9:05 10:05 Cloudy<	
8-Jul-21 10:57 11:57 Fine 4.4 120 65 8-Jul-21 11:57 12:57 Fine 4.4 115 71 14-Jul-21 9:08 10:08 Sunny 1.4 120 35 14-Jul-21 10:08 11:08 Sunny 2.8 139 30 14-Jul-21 11:08 12:08 Sunny 3.3 126 29 20-Jul-21 9:27 10:27 Fine 1.1 172 31 20-Jul-21 10:27 11:27 Fine 5.3 67 27 20-Jul-21 11:27 12:27 Fine 1.1 131 29 26-Jul-21 9:10 10:10 Sunny 2.8 242 70 26-Jul-21 10:10 11:10 Sunny 2.8 234 68 26-Jul-21 11:10 12:10 Sunny 1.4 241 61 30-Jul-21 9:05 10:05 Cloudy 0.3 328 60	
8-Jul-21 11:57 12:57 Fine 4.4 115 71 14-Jul-21 9:08 10:08 Sunny 1.4 120 35 14-Jul-21 10:08 11:08 Sunny 2.8 139 30 14-Jul-21 11:08 12:08 Sunny 3.3 126 29 20-Jul-21 9:27 10:27 Fine 1.1 172 31 20-Jul-21 10:27 11:27 Fine 5.3 67 27 20-Jul-21 11:27 12:27 Fine 1.1 131 29 26-Jul-21 9:10 10:10 Sunny 2.8 242 70 26-Jul-21 10:10 11:10 Sunny 2.8 234 68 26-Jul-21 11:10 12:10 Sunny 1.4 241 61 30-Jul-21 9:05 10:05 Cloudy 0.3 328 60	
8-Jul-21 11:57 12:57 Fine 4.4 115 71 14-Jul-21 9:08 10:08 Sunny 1.4 120 35 14-Jul-21 10:08 11:08 Sunny 2.8 139 30 14-Jul-21 11:08 12:08 Sunny 3.3 126 29 20-Jul-21 9:27 10:27 Fine 1.1 172 31 20-Jul-21 10:27 11:27 Fine 5.3 67 27 20-Jul-21 11:27 12:27 Fine 1.1 131 29 26-Jul-21 9:10 10:10 Sunny 2.8 242 70 26-Jul-21 10:10 11:10 Sunny 2.8 234 68 26-Jul-21 11:10 12:10 Sunny 1.4 241 61 30-Jul-21 9:05 10:05 Cloudy 0.3 328 60	
14-Jul-21 9:08 10:08 Sunny 1.4 120 35 14-Jul-21 10:08 11:08 Sunny 2.8 139 30 14-Jul-21 11:08 12:08 Sunny 3.3 126 29 20-Jul-21 9:27 10:27 Fine 1.1 172 31 20-Jul-21 10:27 11:27 Fine 5.3 67 27 20-Jul-21 11:27 12:27 Fine 1.1 131 29 26-Jul-21 9:10 10:10 Sunny 2.8 242 70 26-Jul-21 10:10 11:10 Sunny 2.8 234 68 26-Jul-21 11:10 12:10 Sunny 1.4 241 61 30-Jul-21 9:05 10:05 Cloudy 0.3 328 60	
14-Jul-21 10:08 11:08 Sunny 2.8 139 30 14-Jul-21 11:08 12:08 Sunny 3.3 126 29 20-Jul-21 9:27 10:27 Fine 1.1 172 31 20-Jul-21 10:27 11:27 Fine 5.3 67 27 20-Jul-21 11:27 12:27 Fine 1.1 131 29 26-Jul-21 9:10 10:10 Sunny 2.8 242 70 26-Jul-21 10:10 11:10 Sunny 2.8 234 68 26-Jul-21 11:10 12:10 Sunny 1.4 241 61 30-Jul-21 9:05 10:05 Cloudy 0.3 328 60	
14-Jul-21 11:08 12:08 Sunny 3.3 126 29 20-Jul-21 9:27 10:27 Fine 1.1 172 31 20-Jul-21 10:27 11:27 Fine 5.3 67 27 20-Jul-21 11:27 12:27 Fine 1.1 131 29 26-Jul-21 9:10 10:10 Sunny 2.8 242 70 26-Jul-21 10:10 11:10 Sunny 2.8 234 68 26-Jul-21 11:10 12:10 Sunny 1.4 241 61 30-Jul-21 9:05 10:05 Cloudy 0.3 328 60	
20-Jul-21 9:27 10:27 Fine 1.1 172 31 20-Jul-21 10:27 11:27 Fine 5.3 67 27 20-Jul-21 11:27 12:27 Fine 1.1 131 29 26-Jul-21 9:10 10:10 Sunny 2.8 242 70 26-Jul-21 10:10 11:10 Sunny 2.8 234 68 26-Jul-21 11:10 12:10 Sunny 1.4 241 61 30-Jul-21 9:05 10:05 Cloudy 0.3 328 60	
20-Jul-21 10:27 11:27 Fine 5.3 67 27 20-Jul-21 11:27 12:27 Fine 1.1 131 29 26-Jul-21 9:10 10:10 Sunny 2.8 242 70 26-Jul-21 10:10 11:10 Sunny 2.8 234 68 26-Jul-21 11:10 12:10 Sunny 1.4 241 61 30-Jul-21 9:05 10:05 Cloudy 0.3 328 60	
20-Jul-21 11:27 12:27 Fine 1.1 131 29 26-Jul-21 9:10 10:10 Sunny 2.8 242 70 26-Jul-21 10:10 11:10 Sunny 2.8 234 68 26-Jul-21 11:10 12:10 Sunny 1.4 241 61 30-Jul-21 9:05 10:05 Cloudy 0.3 328 60	
26-Jul-21 9:10 10:10 Sunny 2.8 242 70 26-Jul-21 10:10 11:10 Sunny 2.8 234 68 26-Jul-21 11:10 12:10 Sunny 1.4 241 61 30-Jul-21 9:05 10:05 Cloudy 0.3 328 60	
26-Jul-21 10:10 11:10 Sunny 2.8 234 68 26-Jul-21 11:10 12:10 Sunny 1.4 241 61 30-Jul-21 9:05 10:05 Cloudy 0.3 328 60	
26-Jul-21 11:10 12:10 Sunny 1.4 241 61 30-Jul-21 9:05 10:05 Cloudy 0.3 328 60	
30-Jul-21 9:05 10:05 Cloudy 0.3 328 60	
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30-Jul-21 10:05 11:05 Cloudy 0.0 Variable 66	
30-Jul-21 11:05 12:05 Cloudy 0.3 213 72	
5-Aug-21 10:06 11:06 Cloudy 5.8 271 42	
5-Aug-21 11:06 12:06 Cloudy 5.6 271 42 5-Aug-21 11:06 12:06 Cloudy 4.4 261 49	
5-Aug-21 12:06 13:06 Cloudy 4.4 201 45 5-Aug-21 12:06 13:06 Cloudy 5.3 267 51	
11-Aug-21 9:07 10:07 Cloudy 0.3 193 57	
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17-Aug-21 9:08 10:08 Fine 3.1 284 40	
17-Aug-21 10:08 11:08 Fine 1.4 232 38	
17-Aug-21 11:08 12:08 Fine 1.7 219 36	
23-Aug-21 9:04 10:04 Fine 1.7 217 66	
23-Aug-21 10:04 11:04 Fine 3.1 239 69	
23-Aug-21 11:04 12:04 Fine 2.5 233 62	
27-Aug-21 9:06 10:06 Cloudy 0.8 124 35	
27-Aug-21 10:06 11:06 Cloudy 4.7 93 31	
27-Aug-21 11:06 12:06 Cloudy 3.1 88 27	
2-Sep-21 9:06 10:06 Fine 2.2 126 38	
2-Sep-21 10:06 11:06 Fine 2.8 133 44	
2-Sep-21 11:06 12:06 Fine 3.1 119 49	
8-Sep-21 9:06 10:06 Fine 2.2 117 31	
8-Sep-21 10:06 11:06 Fine 2.5 111 34	
8-Sep-21 11:06 12:06 Fine 2.5 152 30	
14-Sep-21 9:07 10:07 Fine 0.0 Variable 59	
14-Sep-21 10:07 11:07 Fine 1.9 321 65	
14-Sep-21 11:07 12:07 Fine 0.8 172 72	
18-Sep-21 9:05 10:05 Fine 3.6 95 48	
18-Sep-21 10:05 11:05 Fine 5.3 104 35	
18-Sep-21 11:05 12:05 Fine 4.4 90 39	
24-Sep-21 10:02 11:02 Cloudy 5.8 93 29	
24-Sep-21 11:02 12:02 Cloudy 4.7 107 31	
24-Sep-21 12:02 13:02 Cloudy 3.6 75 26	
29-Sep-21 9:06 10:06 Fine 1.4 241 81	
29-Sep-21 10:06 11:06 Fine 2.8 240 79	
29-Sep-21 11:06 12:06 Fine 1.7 183 86	

Graphical Presentation for 1-hour TSP Monitoring at AMS1



Kai Tak Sports Park

	2021											
Construction Activities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Plants Mobilization											Î	
C&D Waste Disposal (By vessel)												
Rebar Fixing									-			
Loading/ Unloading of Materials												
Excavation												
Ground Investigation										-		
C&D Waste Disposal								-				
Piling (Percussive Piling)												
Piling (Socket H Piling)												
Piling (Bored Piling)								40				
Concreting									-			
Lifting								4				
C&D Materials Internal Transportation									-			
Main Stadium Truss Delivery									8			

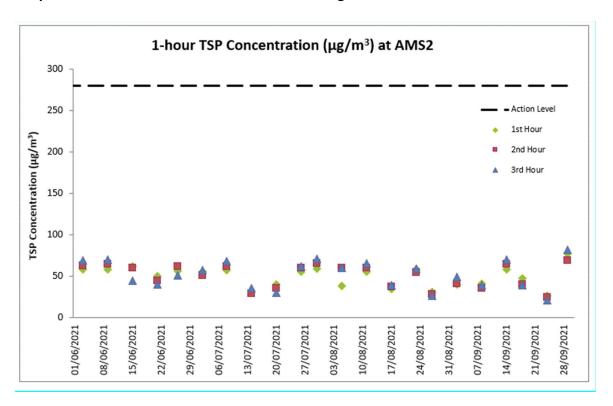
Hotel and Office Development

		2021										
Construction Activities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Loading/Unloading of Materials								-	11-0			
Excavation								V				
Concreting									Î			
C&D Waste Disposal						i i		4	The second			

Data for 1-hour TSP Monitoring at Station AMS2

2-Jul-21	Date	Start Time	Finish Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hour TSP (μg/m³)
2-Jul-21	2-Jul-21	8:19	9:19	Fine	2.2	181	55
8-Jul-21 9:05 10:05 Cloudy 1.1 169 57 8-Jul-21 10:05 11:05 Cloudy 1.7 160 62 8-Jul-21 11:05 12:05 Cloudy 2.2 185 68 14-Jul-21 8:25 9:25 Sunny 1.1 105 31 14-Jul-21 9:25 10:25 Sunny 1.7 135 29 14-Jul-21 10:25 11:25 Sunny 3.1 131 35 20-Jul-21 10:25 11:25 Sunny 3.1 131 35 20-Jul-21 9:43 10:43 Cloudy 5.8 82 40 20-Jul-21 9:43 10:43 Cloudy 1.7 153 35 20-Jul-21 10:43 11:43 Cloudy 3.3 48 30 20-Jul-21 9:22 10:22 Sunny 2.5 248 55 26-Jul-21 9:22 10:22 Sunny 3.1 239 60 26-Jul-21 10:22 11:22 Sunny 3.1 239 60 26-Jul-21 10:25 11:25 Sunny 3.1 239 60 26-Jul-21 10:25 11:26 Sunny 3.1 239 60 26-Jul-21 10:26 11:27 Sunny 2.8 230 62 30-Jul-21 8:45 9:45 Cloudy 0.8 278 65 30-Jul-21 8:45 9:45 Cloudy 0.8 278 65 30-Jul-21 10:45 11:45 Cloudy 0.0 Variable 71 5-Aug-21 10:03 10:03 Cloudy 4.7 262 38 5-Aug-21 10:03 10:03 Cloudy 4.7 262 38 5-Aug-21 10:03 10:03 Cloudy 4.7 262 38 5-Aug-21 11:03 12:03 Cloudy 4.2 261 60 11-Aug-21 8:17 9:17 Cloudy 0.8 218 60 11-Aug-21 8:17 9:17 Cloudy 0.8 218 60 11-Aug-21 8:17 9:17 Cloudy 0.3 110 65 17-Aug-21 10:17 11:17 Cloudy 0.3 110 65 17-Aug-21 10:17 11:17 Fine 1.7 219 39 23-Aug-21 10:18 11:18 Fine 2.5 296 37 17-Aug-21 8:18 9:18 Fine 2.5 296 37 17-Aug-21 10:18 11:18 Fine 2.5 296 37 17-Aug-21 9:17 10:17 Fine 2.5 296 37 17-Aug-21 9:17 10:17 Fine 2.5 296 37 17-Aug-21 9:17 10:17 Fine 2.5 296 37 17-Aug-21 10:18 11:18 Fine 2.5 296 37 17-Aug-21 10:19 11:17 Fine 2.5 296 37 17-Aug-21 10:19 11:17 Fine 2.5 296 37 17-Aug-21 10:18 11:18 Fine 2.5 296 37 17-Aug-21 10:19 11:17 Fine 2.5 296 37 17-Aug-21 10:19 11:19 Fine 2.5 296 37 17-Aug-21 10:19 11:19 Fine 2.5 296 37 17-Aug-21 10:19 11:19 Fine 2.5 296 37 17-Aug-21	2-Jul-21	9:19	10:19	Fine	1.9	178	51
8-Jul-21 10:05 11:05 Cloudy 1.7 160 62 8-Jul-21 11:05 12:05 Cloudy 2.2 185 68 14-Jul-21 11:05 12:05 Cloudy 2.2 185 68 14-Jul-21 8:25 9:25 Sunny 1.1 105 31 14-Jul-21 9:25 10:25 Sunny 1.7 135 29 14-Jul-21 10:25 11:25 Sunny 3.1 131 35 20-Jul-21 8:43 9:43 Cloudy 5.8 82 40 20-Jul-21 8:43 9:43 Cloudy 5.8 82 40 20-Jul-21 9:43 10:43 Cloudy 1.7 153 35 20-Jul-21 8:42 9:42 Cloudy 3.3 48 30 26-Jul-21 8:22 9:22 Sunny 2.5 248 55 26-Jul-21 9:22 10:22 Sunny 2.5 248 55 26-Jul-21 9:22 Jul-22 Sunny 2.8 230 62 26-Jul-21 10:22 11:22 Sunny 2.8 230 62 26-Jul-21 10:22 11:22 Sunny 2.8 230 62 30-Jul-21 8:45 9:45 Cloudy 0.8 278 65 30-Jul-21 9:45 10:45 Cloudy 0.8 278 65 30-Jul-21 10:45 11:45 Cloudy 0.0 Variable 71 5-Aug-21 10:03 11:03 Cloudy 4.7 262 38 5-Aug-21 10:03 11:03 Cloudy 4.7 262 38 5-Aug-21 11:03 12:03 Cloudy 4.2 261 60 11-Aug-21 9:17 10:17 Cloudy 0.8 218 60 11-Aug-21 9:17 10:17 Fine 0.8 231 34 17-Aug-21 9:17 10:17 Fine 0.8 231 34 17-Aug-21 9:18 10:18 Fine 1.9 224 255 28 28 23-Aug-21 9:18 10:18 Fine 1.9 224 25 25 28 23 23 24 23-Aug-21 9:18 10:18 Fine 2.5 296 37 17-Aug-21 9:17 10:17 Fine 2.5 296 37 17-Aug-21 9:18 10:18 Fine 2.5 296 37 17-Aug-21 9:18 10:18 Fine 2.5 296 37 17-Aug-21 9:18 10:18 Fine 2.2 22:25 58 23-Aug-21 9:18 10:18 Fine 2.2 22:25 58 23-Aug-21 9:18 10:18 Fine 2.2 23-Aug-21 9:18 10:19 Fine 2.5 23-Aug-21 9:19 10:17 Fine 2.5 23-Aug-21 9:19 10:17 Fine 2.5 23-Aug-21 9:19 10:17 Fine 2.5 23-Aug-21 9:18 10:18 Fine 2.2 23-Aug-21 9:19 10:19 Fine 2.5 23-Aug-21 9:10-40 41-45e-21 9:19 10:19 Fine 2.5 23-Aug-21 9:10-40 41-45e-21 9:10-	2-Jul-21	10:19	11:19	Fine	3.9	233	57
8-Jul-21 11:05 12:05 Cloudy 2.2 185 68 14-Jul-21 8:25 9:25 Sunny 1.7 135 29 14-Jul-21 9:25 10:25 Sunny 1.7 135 29 14-Jul-21 10:25 11:25 Sunny 3.1 131 35 20-Jul-21 8:43 9:43 Cloudy 5.8 82 40 20-Jul-21 9:43 10:43 Cloudy 1.7 153 35 20-Jul-21 10:43 11:43 Cloudy 1.7 153 35 20-Jul-21 10:43 11:43 Cloudy 3.3 48 30 26-Jul-21 9:22 10:22 Sunny 2.5 248 55 26-Jul-21 9:22 10:22 Sunny 3.1 239 60 26-Jul-21 9:25 10:22 Sunny 3.1 239 60 26-Jul-21 10:22 11:22 Sunny 3.1 239 60 26-Jul-21 10:22 11:22 Sunny 2.5 296 59 30-Jul-21 8:45 9:45 Cloudy 0.8 278 65 30-Jul-21 9:45 10:45 Cloudy 0.8 278 65 30-Jul-21 9:45 10:45 Cloudy 0.8 278 65 30-Jul-21 10:03 Cloudy 4.7 262 38 5-Aug-21 10:03 11:03 Cloudy 4.7 262 38 5-Aug-21 10:03 11:03 Cloudy 4.7 262 38 5-Aug-21 11:03 11:03 Cloudy 4.7 261 60 11-Aug-21 8:17 9:17 Cloudy 0.8 218 60 11-Aug-21 8:17 9:17 Cloudy 0.8 218 60 11-Aug-21 10:17 11:17 Cloudy 0.3 110 65 11-Aug-21 10:17 11:17 Cloudy 0.3 13 34 17-Aug-21 10:17 11:17 Fine 0.8 231 34 17-Aug-21 11:17 9:17 Fine 0.8 231 34 17-Aug-21 11:18 18 9:18 Fine 2.5 296 37 17-Aug-21 10:18 11:18 Fine 2.5 296 37 17-Aug-21 10:17 11:17 Fine 1.7 219 39 23-Aug-21 8:18 9:18 Fine 2.5 296 37 17-Aug-21 10:17 11:17 Fine 1.7 219 39 23-Aug-21 8:18 9:18 Fine 2.5 219 59 27-Aug-21 8:15 9:15 Fine 0.8 131 41 25-ep-21 8:15 9:15 Fine 0.0 Variable 31 27-Aug-21 10:17 11:17 Fine 2.5 131 41 25-ep-21 8:15 9:15 Fine 0.0 Variable 64 44-Sep-21 10:19 11:19 Fine 2.5 131 41 25-ep-21 8:19 9:19 10:19 Fine 0.0 Variable 64 44-Sep-21 10:19 11:19 Fine 0.0 Variable 64 44-Sep-21 10:19 11:19 Fine 0.0 Variable 64 44-Sep-21 10:10 11:10 Fine 0.0 Variable 64 44-Sep-21 10:00 11:40 Fine 0.0 Variable 67 24-Sep-21 9:10 10:10 Fine 0.0 Variable 67 24-Sep-21 9:00 10:00 Fine 0.0 Variable 69	8-Jul-21	9:05	10:05	Cloudy	1.1	169	57
14-Jul-21 9.25 9.25 Sunny 1.1 105 31 14-Jul-21 9.25 10.25 Sunny 1.7 135 29 14-Jul-21 10.25 11.25 Sunny 3.1 131 35 20-Jul-21 9.43 10.43 Cloudy 5.8 82 40 20-Jul-21 9.43 10.43 Cloudy 3.3 48 30 20-Jul-21 10.43 11.43 Cloudy 3.3 48 30 26-Jul-21 9.22 9.22 Sunny 2.5 248 55 26-Jul-21 9.22 10.22 Sunny 3.1 239 60 26-Jul-21 9.22 10.22 Sunny 2.8 230 62 30-Jul-21 10.45 11.45 Cloudy 0.8 278 65 30-Jul-21 9.45 10.45 Cloudy 0.8 278 65 30-Jul-21 9.45 10.45 Cloudy 0.0 Variable 71 5-Aug-21 9.03 10.03 Cloudy 5.3 271 60 5-Aug-21 10.03 11.03 Cloudy 5.3 271 60 5-Aug-21 10.03 11.03 Cloudy 5.3 271 60 5-Aug-21 9.17 10.17 Cloudy 0.8 218 60 11-Aug-21 9.17 10.17 Cloudy 0.8 218 60 11-Aug-21 9.17 10.17 Cloudy 0.8 218 60 11-Aug-21 9.17 10.17 Fine 0.8 231 34 17-Aug-21 9.17 10.17 Fine 0.8 231 34 17-Aug-21 9.18 10.17 11.17 Fine 0.8 231 34 17-Aug-21 9.18 10.17 11.17 Fine 0.8 231 34 17-Aug-21 9.18 10.18 Fine 2.5 2.96 37 17-Aug-21 10.18 11.18 Fine 2.5 2.96 37 17-Aug-21 10.18 11.18 Fine 2.5 2.96 37 17-Aug-21 10.18 11.18 Fine 2.5 2.19 59 27-Aug-21 8.15 9.15 Fine 1.7 219 39 23-Aug-21 8.18 9.18 Fine 2.2 2.25 58 23-Aug-21 8.19 9.19 Fine 0.8 10.4 23-Aug-21 10.18 11.18 Fine 2.5 2.19 59 27-Aug-21 10.19 11.17 Fine 2.5 2.19 59 27-Aug-21 10.18 11.18 Fine 2.5 2.19 59 27-Aug-21 8.15 9.15 Fine 1.7 10.0 41 8-Sep-21 8.15 9.15 Fine 1.7 10.0 41 8-Sep-21 8.19 9.19 Fine 0.0 Variable 64 4-Sep-21 10.19 11.19 Fine 2.5 134 39 4-Sep-21 8.10 9.10 9.10 9.10 9.10 9.10 8-Sep-21 10.10 11.10	8-Jul-21	10:05	11:05	Cloudy	1.7	160	62
14-Jul-21	8-Jul-21	11:05	12:05	Cloudy	2.2	185	68
14-Jul-21	14-Jul-21	8:25	9:25	Sunny	1.1	105	31
20-Jul-21	14-Jul-21	9:25	10:25	Sunny	1.7	135	29
20-Jul-21 9:43 10:43 Cloudy 1.7 153 35 20-Jul-21 10:43 11:43 Cloudy 3.3 48 30 26-Jul-21 8:22 9:22 Sunny 2.5 248 55 26-Jul-21 9:22 10:22 Sunny 3.1 239 60 26-Jul-21 10:22 11:22 Sunny 2.8 230 62 26-Jul-21 10:22 11:22 Sunny 2.8 230 62 30-Jul-21 8:45 9:45 Cloudy 0.8 278 65 30-Jul-21 9:45 10:45 Cloudy 0.8 278 65 30-Jul-21 10:45 11:45 Cloudy 0.0 Variable 71 5-Aug-21 10:45 11:45 Cloudy 0.0 Variable 71 5-Aug-21 10:03 11:03 Cloudy 5.3 271 60 5-Aug-21 10:03 11:03 Cloudy 5.3 271 60 5-Aug-21 10:03 11:03 Cloudy 4.2 261 60 11-Aug-21 8:17 9:17 Cloudy 0.8 218 60 11-Aug-21 8:17 9:17 Cloudy 0.8 218 60 11-Aug-21 8:17 9:17 Cloudy 0.8 218 60 11-Aug-21 8:17 9:17 Fine 0.8 231 34 17-Aug-21 8:17 9:17 Fine 0.8 231 34 17-Aug-21 9:17 10:17 Fine 0.5 296 37 17-Aug-21 9:18 10:17 Fine 1.7 219 39 23-Aug-21 9:18 10:18 Fine 1.9 224 54 23-Aug-21 9:18 10:18 Fine 2.5 219 59 27-Aug-21 9:45 10:45 Cloudy 5.3 122 28 27-Aug-21 9:45 10:45 Cloudy 4.7 7.8 2.6 2.5ep-21 9:17 10:17 Fine 2.5 131 41 2.5ep-21 9:17 10:17 Fine 2.5 131 41 2.5ep-21 9:15 10:15 Fine 3.1 11.7 35 3.5ep-21 9:19 10:19 Fine 5.0 4.7 4.	14-Jul-21	10:25	11:25	Sunny	3.1	131	35
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29-Sep-21 9:20 10:20 Fine 0.6 Variable 69						1 6	

Graphical Presentation for 1-hour TSP Monitoring at AMS2



Kai Tak Sports Park

	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec												
Construction Activities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Plants Mobilization									-				
C&D Waste Disposal (By vessel)									-				
Rebar Fixing													
Loading/ Unloading of Materials										_			
Excavation													
Ground Investigation									- V				
C&D Waste Disposal			ĺ									ĺ	
Piling (Percussive Piling)													
Piling (Socket H Piling)													
Piling (Bored Piling)								-					
Concreting													
Lifting													
C&D Materials Internal Transportation									-				
Main Stadium Truss Delivery									V.				

Hotel and Office Development

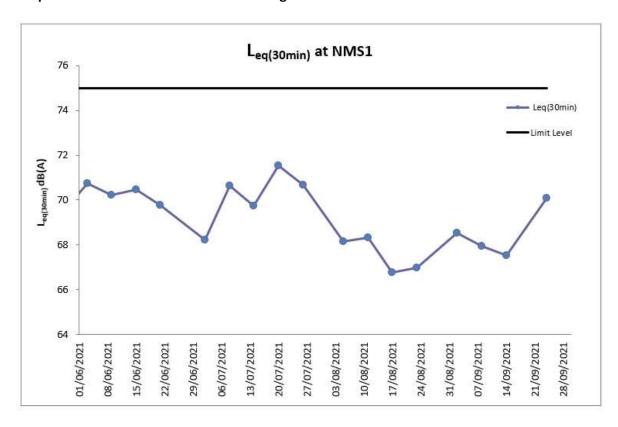
	2021											
Construction Activities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Loading/Unloading of Materials												
Excavation												
Concreting												
C&D Waste Disposal									-			

Data for Noise Monitoring at Station NMS1

Date	Time	Weather	L _{eq(5min)}	L ₁₀	L ₉₀	Measured L _{eq(30min)}
2-Jul-21	9:10	Cloudy	68.7	70.9	66.8	
2-Jul-21	9:15	Cloudy	69.2	71.0	67.7	
2-Jul-21	9:20	Cloudy	67.1	69.2	65.3	60.2
2-Jul-21	9:25	Cloudy	67.4	69.3	65.5	68.2
2-Jul-21	9:30	Cloudy	68.4	70.5	66.6	
2-Jul-21	9:35	Cloudy	68.2	70.4	66.6	
8-Jul-21	9:55	Fine	69.3	72.4	64.5	
8-Jul-21	10:00	Fine	71.3	73.8	65.3	
8-Jul-21	10:05	Fine	70.7	73.3	64.9	70.7
8-Jul-21	10:10	Fine	70.3	73.3	65.5	70.7
8-Jul-21	10:15	Fine	71.9	73.4	64.2	
8-Jul-21	10:20	Fine	69.9	72.4	66.0	
14-Jul-21	9:10	Sunny	69.6	71.4	67.5	
14-Jul-21	9:15	Sunny	68.7	70.4	66.3	
14-Jul-21	9:20	Sunny	70.6	72.4	68.2	
14-Jul-21	9:25	Sunny	70.8	72.1	68.5	69.7
14-Jul-21	9:30	Sunny	69.0	71.9	67.3	
14-Jul-21	9:35	Sunny	69.2	71.4	67.6	
20-Jul-21	9:30	Cloudy	71.6	73.7	68.8	
20-Jul-21	9:35	Cloudy	72.9	74.6	69.5	
20-Jul-21	9:40	Cloudy	70.3	72.4	67.2	
20-Jul-21	9:45	Cloudy	70.4	72.5	67.6	71.5
20-Jul-21	9:50	Cloudy	72.2	74.1	69.0	
20-Jul-21	9:55	Cloudy	71.2	73.4	68.7	
26-Jul-21	9:12	Sunny	69.5	71.3	67.1	
26-Jul-21	9:17	Sunny	70.2	72.6	68.4	
26-Jul-21	9:22	Sunny	71.1	73.0	69.5	
26-Jul-21	9:27	Sunny	71.5	73.1	69.9	70.7
26-Jul-21	9:32	Sunny	70.6	72.7	68.6	
26-Jul-21	9:37	Sunny	70.8	72.0	68.6	
5-Aug-21	10:09	Fine	67.6	70.6	61.7	
5-Aug-21	10:14	Fine	66.8	69.9	59.4	
5-Aug-21	10:19	Fine	69.6	71.7	62.3	
5-Aug-21	10:24	Fine	67.1	69.8	66.0	68.2
5-Aug-21	10:29	Fine	69.2	73.0	61.8	
5-Aug-21	10:34	Fine	67.9	71.1	62.5	
11-Aug-21	9:09	Cloudy	68.1	70.6	66.4	
11-Aug-21	9:14	Cloudy	69.5	71.2	67.3	
11-Aug-21	9:19	Cloudy	67.7	69.2	65.1	
11-Aug-21	9:24	Cloudy	67.7	69.5	65.6	68.3
11-Aug-21	9:29	Cloudy	68.6	70.8	66.9	
11-Aug-21 11-Aug-21	9:34	Cloudy	68.0	70.1	66.2	
17-Aug-21 17-Aug-21	9:10	Fine	66.0	68.7	64.5	
17-Aug-21 17-Aug-21	9:15	Fine	68.5	70.1	66.6	
	9:13	Fine	67.2	69.6	65.8	
17-Aug-21 17-Aug-21	9:25	Fine	66.5	68.3	64.1	66.8
17-Aug-21 17-Aug-21	9:30	Fine	65.4	67.5	63.9	
17-Aug-21 17-Aug-21						
	9:35	Fine	66.2	68.4	64.6	
23-Aug-21	9:06	Fine	67.2	69.3	61.4	
23-Aug-21	9:11	Fine	66.1	68.0	64.5	
23-Aug-21	9:16	Fine	66.1	68.6	64.5	67.0
23-Aug-21	9:21	Fine	67.2	69.6	65.9	
23-Aug-21	9:26	Fine	67.1	69.7	65.5	
23-Aug-21	9:31	Fine	67.8	69.6	65.4	

Date	Time	Weather	Leq(5min)	L ₁₀	L ₉₀	Measured Leq(30min)
2-Sep-21	9:08	Fine	68.7	70.2	66.4	
2-Sep-21	9:13	Fine	67.5	69.3	65.6	
2-Sep-21	9:18	Fine	67.1	69.2	65.6	68.5
2-Sep-21	9:23	Fine	68.3	70.0	66.7	08.5
2-Sep-21	9:28	Fine	69.1	71.8	67.4	
2-Sep-21	9:33	Fine	69.9	71.7	67.2	
8-Sep-21	9:08	Fine	67.6	69.2	65.4	
8-Sep-21	9:13	Fine	68.1	70.3	66.4	
8-Sep-21	9:18	Fine	68.7	70.6	66.5	67.0
8-Sep-21	9:23	Fine	67.2	69.1	65.4	67.9
8-Sep-21	9:28	Fine	67.2	69.0	65.1	
8-Sep-21	9:33	Fine	68.6	70.7	66.9	
14-Sep-21	9:10	Fine	67.7	69.6	65.5	
14-Sep-21	9:15	Fine	66.6	68.0	64.8	
14-Sep-21	9:20	Fine	67.1	69.5	65.9	67.5
14-Sep-21	9:25	Fine	68.4	70.2	66.0	67.5
14-Sep-21	9:30	Fine	66.3	68.2	64.1	
14-Sep-21	9:35	Fine	68.6	70.4	66.1	
24-Sep-21	10:05	Cloudy	71.1	74.2	66.0	
24-Sep-21	10:10	Cloudy	70.4	72.8	65.3	
24-Sep-21	10:15	Cloudy	70.9	72.6	64.5	
24-Sep-21	10:20	Cloudy	69.2	72.0	64.2	70.1
24-Sep-21	10:25	Cloudy	69.0	71.5	64.0	
24-Sep-21	10:30	Cloudy	69.5	72.3	64.2	
29-Sep-21	9:08	Fine	69.4	71.0	67.7	
29-Sep-21	9:13	Fine	70.1	72.8	68.6	
29-Sep-21	9:18	Fine	70.6	72.3	68.1	70.4
29-Sep-21	9:23	Fine	71.9	73.2	69.5	70.4
29-Sep-21	9:28	Fine	70.4	72.2	68.6	
29-Sep-21	9:33	Fine	69.6	71.5	67.1	

Graphical Presentation for Noise Monitoring at NMS1



Kai Tak Sports Park

							2021					
Construction Activities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Plants Mobilization												
C&D Waste Disposal (By vessel)							_					
Rebar Fixing									- V			
Loading/ Unloading of Materials									-			
Excavation									<u> </u>			
Ground Investigation									- k			
C&D Waste Disposal			T (-			
Piling (Percussive Piling)							3					
Piling (Socket H Piling)												
Piling (Bored Piling)								/				
Concreting								4				
Lifting												
C&D Materials Internal Transportation								W.	-			
Main Stadium Truss Delivery									¥			

Hotel and Office Development

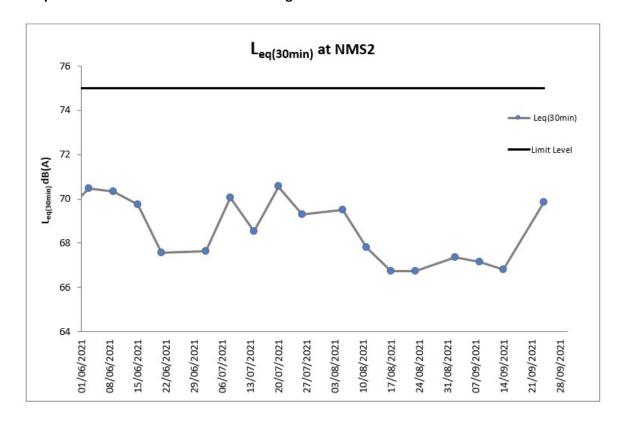
							2021					
Construction Activities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Loading/Unloading of Materials									11.0			
Excavation									10/4			
Concreting										-		
C&D Waste Disposal								4	erol.			

Data for Noise Monitoring at Station NMS2

Date	Time	Weather	L _{eq(5min)}	L ₁₀	L ₉₀	Measured L _{eq(30min)}
2-Jul-21	8:22	Cloudy	67.5	69.7	65.4	
2-Jul-21	8:27	Cloudy	68.6	70.5	66.3	
2-Jul-21	8:32	Cloudy	67.1	69.2	65.4	67.6
2-Jul-21	8:37	Cloudy	66.4	68.2	64.8	67.6
2-Jul-21	8:42	Cloudy	67.7	69.0	65.9	
2-Jul-21	8:47	Cloudy	68.1	70.6	66.5	
8-Jul-21	9:08	Fine	70.0	72.3	66.2	
8-Jul-21	9:13	Fine	70.3	72.2	66.6	
8-Jul-21	9:18	Fine	70.5	72.4	67.0	70.4
8-Jul-21	9:23	Fine	70.2	71.7	66.5	70.1
8-Jul-21	9:28	Fine	69.4	72.0	65.8	
8-Jul-21	9:33	Fine	69.9	72.6	66.6	
14-Jul-21	8:28	Sunny	68.7	70.0	66.6	
14-Jul-21	8:33	Sunny	67.1	69.2	65.4	
14-Jul-21	8:38	Sunny	68.1	70.2	66.3	
14-Jul-21	8:43	Sunny	69.3	71.9	67.8	68.5
14-Jul-21	8:48	Sunny	69.2	71.4	67.3	
14-Jul-21	8:53	Sunny	68.5	70.6	66.7	
20-Jul-21	8:45	Cloudy	70.7	72.5	67.3	
20-Jul-21	8:50	Cloudy	71.6	73.5	68.4	
20-Jul-21	8:55	Cloudy	69.1	71.3	66.7	
20-Jul-21	9:00	Cloudy	70.2	72.8	67.4	70.6
20-Jul-21	9:05	Cloudy	70.2	72.0	67.9	
20-Jul-21	9:10	Cloudy	71.1	73.5	68.6	
26-Jul-21	8:25	Sunny	67.6	69.7	65.8	
26-Jul-21	8:30	Sunny	68.6	70.5	66.9	
26-Jul-21	8:35	Sunny	69.4	71.5	67.6	
26-Jul-21	8:40	Sunny	69.4	71.3	67.2	69.3
26-Jul-21	8:45	Sunny	70.2	72.1	68.9	
26-Jul-21	8:50	Sunny	70.1	72.0	68.2	
5-Aug-21	9:09	Cloudy	70.8	72.3	64.8	
5-Aug-21	9:14	Cloudy	68.7	71.0	65.2	
5-Aug-21	9:19	Cloudy	68.6	70.6	64.4	
5-Aug-21	9:24	Cloudy	69.9	72.0	64.6	69.5
5-Aug-21	9:29	Cloudy	69.9	72.9	65.0	
5-Aug-21	9:34	Cloudy	68.5	71.1	64.9	
11-Aug-21	8:20	Cloudy	68.5	70.6	66.4	
11-Aug-21	8:25	Cloudy	67.5	69.4	65.3	
11-Aug-21	8:30	Cloudy	67.1	69.2	65.3	
11-Aug-21 11-Aug-21	8:35	Cloudy	68.5	70.7	66.6	67.8
11-Aug-21 11-Aug-21	8:40	Cloudy	67.9	69.7	61.8	
11-Aug-21 11-Aug-21	8:45		67.1	69.0	65.2	
		Cloudy Fine	66.0	68.7	64.5	66.8
17-Aug-21	9:10		68.5	70.1	66.6	00.0
17-Aug-21	9:15	Fine				
17-Aug-21	9:20	Fine	67.2 66.5	69.6	65.8	
17-Aug-21	9:25	Fine	66.5	68.3	64.1	
17-Aug-21	9:30	Fine	65.4	67.5	63.9	
17-Aug-21	9:35	Fine	66.2	68.4	64.6	66.7
23-Aug-21	8:21	Fine	67.6	69.3	65.4	66.7
23-Aug-21	8:26	Fine	66.5	68.2	64.3	
23-Aug-21	8:31	Fine	65.6	67.1	63.7	
23-Aug-21	8:36	Fine	67.0	69.8	65.1	
23-Aug-21	8:41	Fine	66.9	68.7	64.2	
23-Aug-21	8:46	Fine	66.6	68.4	64.5	

Date	Time	Weather	L _{eq(5min)}	L ₁₀	L ₉₀	Measured L _{eq(30min)}
2-Sep-21	8:20	Cloudy	66.2	68.0	64.9	
2-Sep-21	8:25	Cloudy	67.1	69.3	65.4	
2-Sep-21	8:30	Cloudy	67.1	69.2	65.4	67.4
2-Sep-21	8:35	Cloudy	66.3	68.5	64.5	67.4
2-Sep-21	8:40	Cloudy	68.2	70.6	66.4	
2-Sep-21	8:45	Cloudy	68.7	70.6	66.8	
8-Sep-21	8:18	Fine	67.1	69.0	65.8	
8-Sep-21	8:23	Fine	68.3	70.1	66.7	
8-Sep-21	8:28	Fine	67.2	69.4	65.6	67.2
8-Sep-21	8:33	Fine	66.5	68.3	64.2	67.2
8-Sep-21	8:38	Fine	67.1	69.4	65.9	
8-Sep-21	8:43	Fine	66.5	68.7	64.2	
14-Sep-21	8:22	Fine	67.2	69.0	65.7	
14-Sep-21	8:27	Fine	66.1	68.6	64.7	
14-Sep-21	8:32	Fine	66.6	68.2	64.3	66.0
14-Sep-21	8:37	Fine	67.1	69.9	65.4	66.8
14-Sep-21	8:42	Fine	67.5	69.8	65.6	
14-Sep-21	8:47	Fine	66.2	68.7	64.9	
24-Sep-21	9:09	Cloudy	69.3	71.4	65.9	
24-Sep-21	9:14	Cloudy	68.8	70.9	65.9	
24-Sep-21	9:19	Cloudy	69.6	71.5	66.1	CO 0
24-Sep-21	9:24	Cloudy	70.5	72.8	66.7	69.8
24-Sep-21	9:29	Cloudy	70.3	72.1	67.1	
24-Sep-21	9:34	Cloudy	70.3	73.1	66.3	
29-Sep-21	8:24	Fine	69.0	71.2	67.5	
29-Sep-21	8:29	Fine	68.6	70.1	66.7	
29-Sep-21	8:34	Fine	69.2	71.4	67.6	CO 2
29-Sep-21	8:39	Fine	70.5	72.3	68.1	69.3
29-Sep-21	8:44	Fine	69.4	71.8	67.7	
29-Sep-21	8:49	Fine	68.9	70.6	66.2	

Graphical Presentation for Noise Monitoring at NMS2



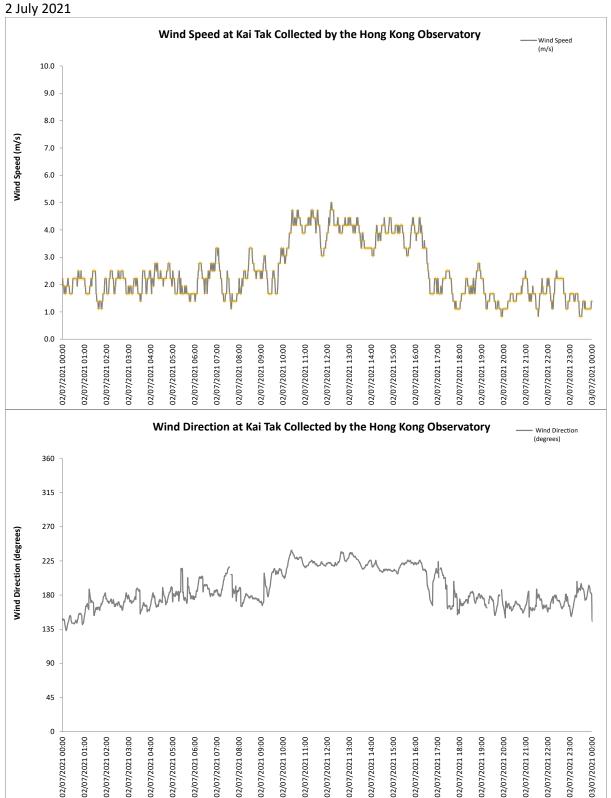
Kai Tak Sports Park

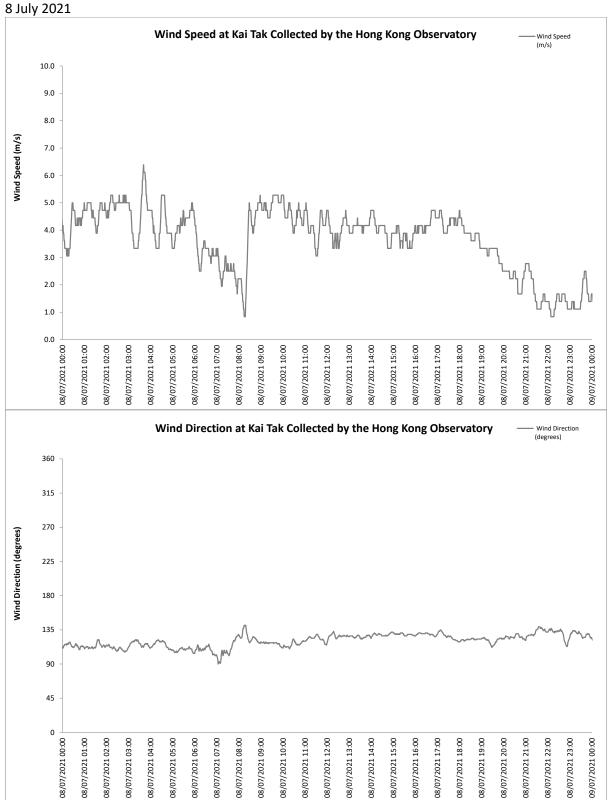
							2021					
Construction Activities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Plants Mobilization												
C&D Waste Disposal (By vessel)	20								-			
Rebar Fixing								-4	-			
Loading/ Unloading of Materials									-			
Excavation												
Ground Investigation									-	-		
C&D Waste Disposal												
Piling (Percussive Piling)	2											
Piling (Socket H Piling)												
Piling (Bored Piling)								d.				
Concreting												
Lifting												
C&D Materials Internal Transportation								-	-			
Main Stadium Truss Delivery									8			

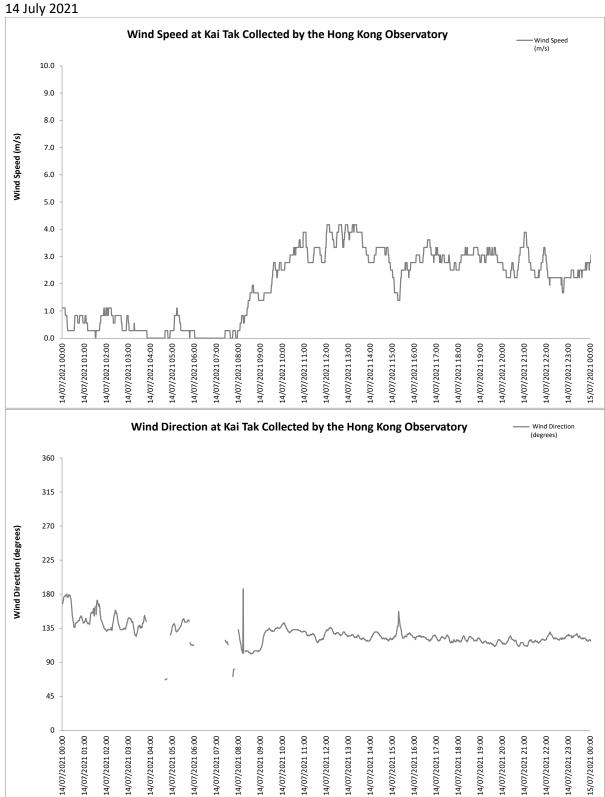
Hotel and Office Development

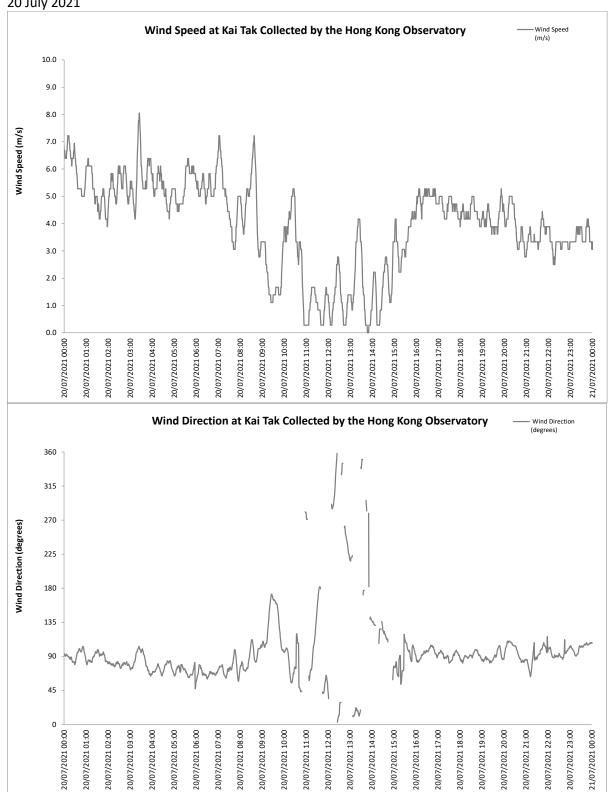
							2021					
Construction Activities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Loading/Unloading of Materials	j.								55-03			
Excavation						l,		¥				
Concreting	9								ii .			
C&D Waste Disposal								#	Tagail .			

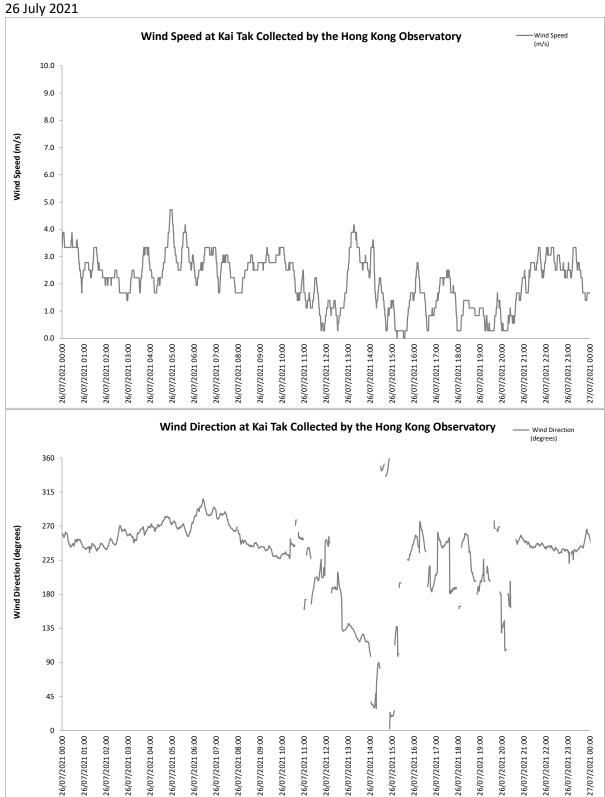
Appendix F. Wind Data

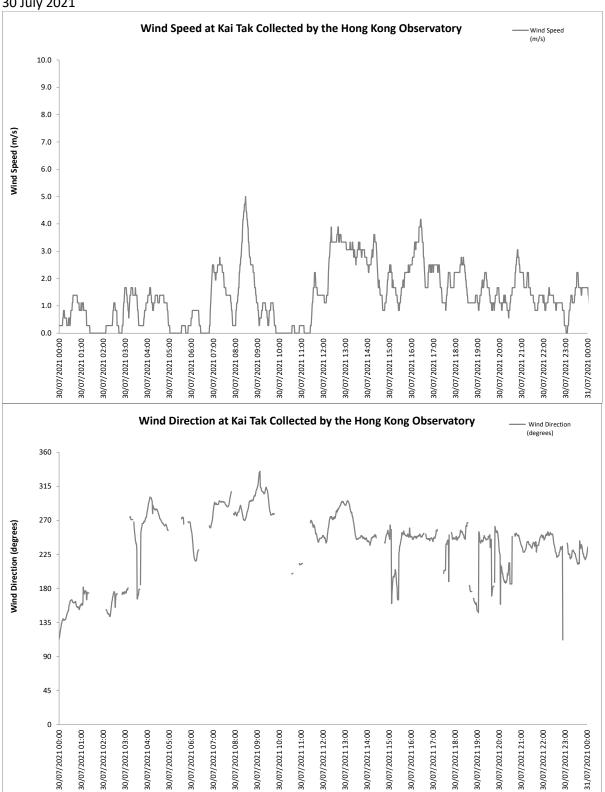


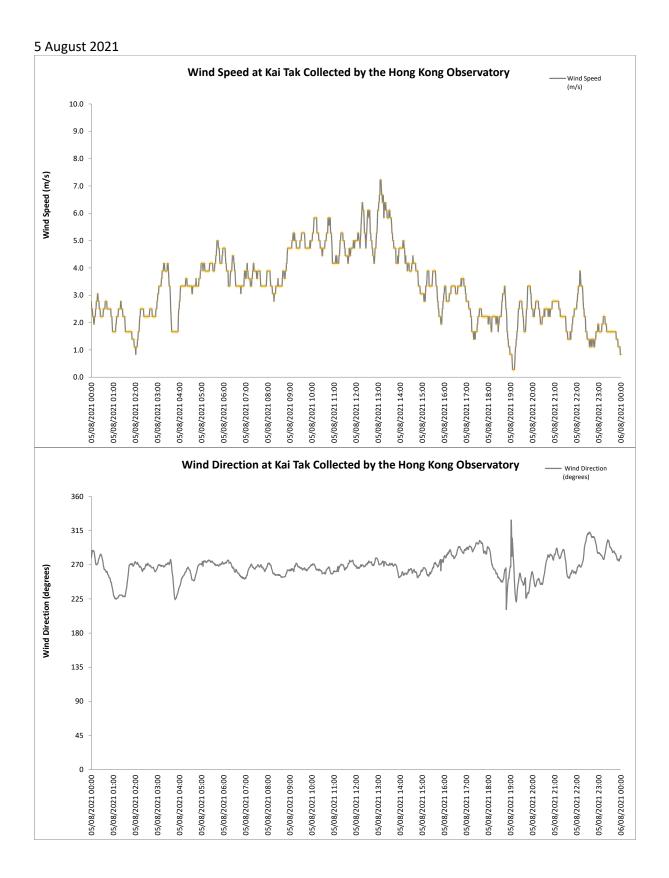








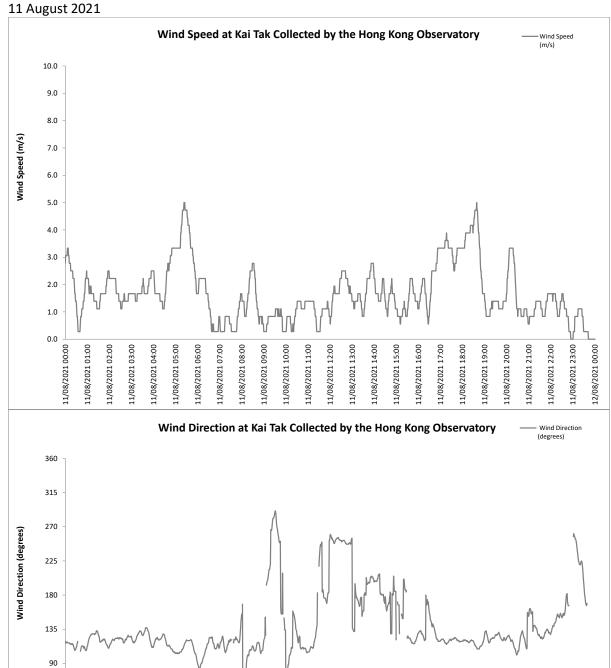




45

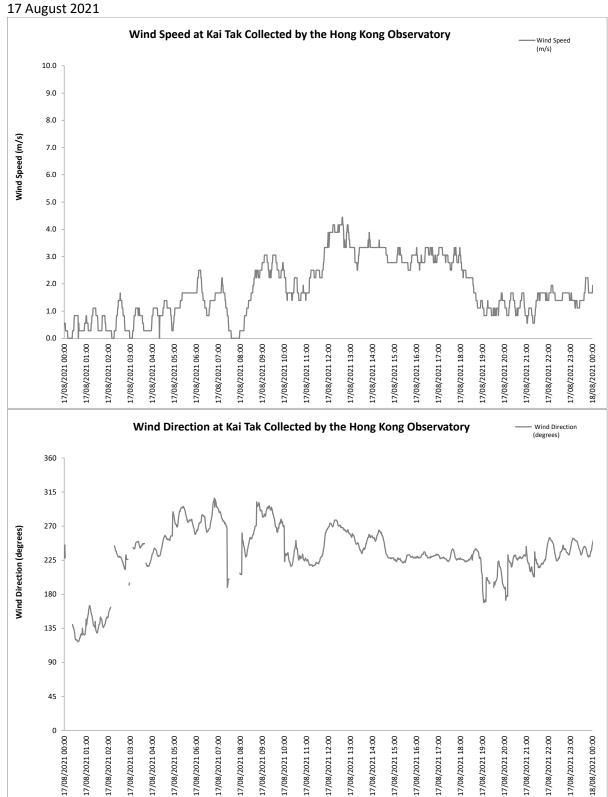
11/08/2021 00:00 11/08/2021 01:00 11/08/2021 02:00 11/08/2021 03:00 11/08/2021 06:00 11/08/2021 07:00 11/08/2021 08:00 11/08/2021 09:00 11/08/2021 10:00 11/08/2021 11:00

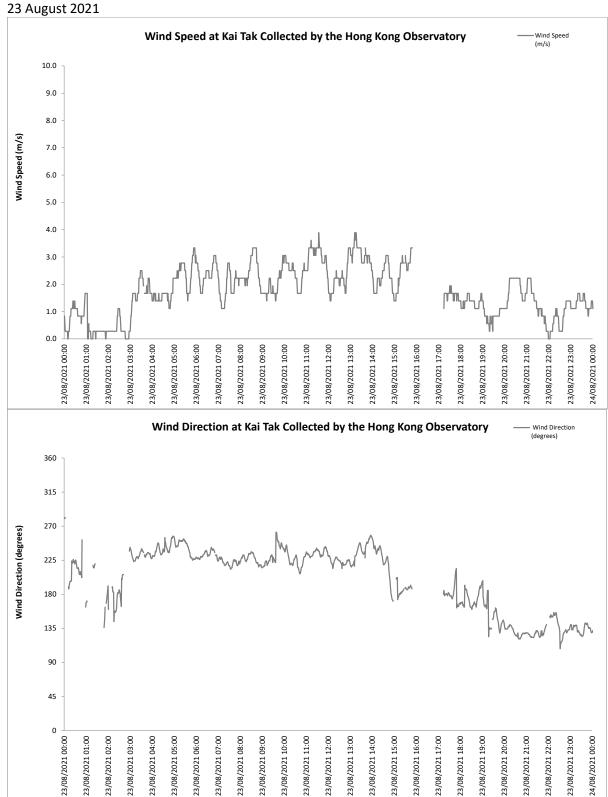
11/08/2021 04:00 11/08/2021 05:00

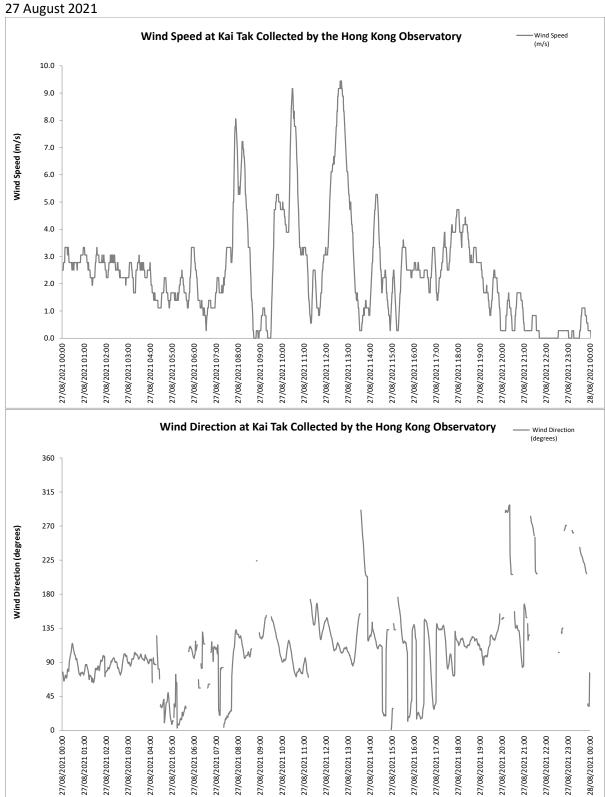


11/08/2021 17:00 11/08/2021 18:00 11/08/2021 19:00 11/08/2021 20:00 11/08/2021 21:00 11/08/2021 22:00 11/08/2021 23:00 12/08/2021 00:00

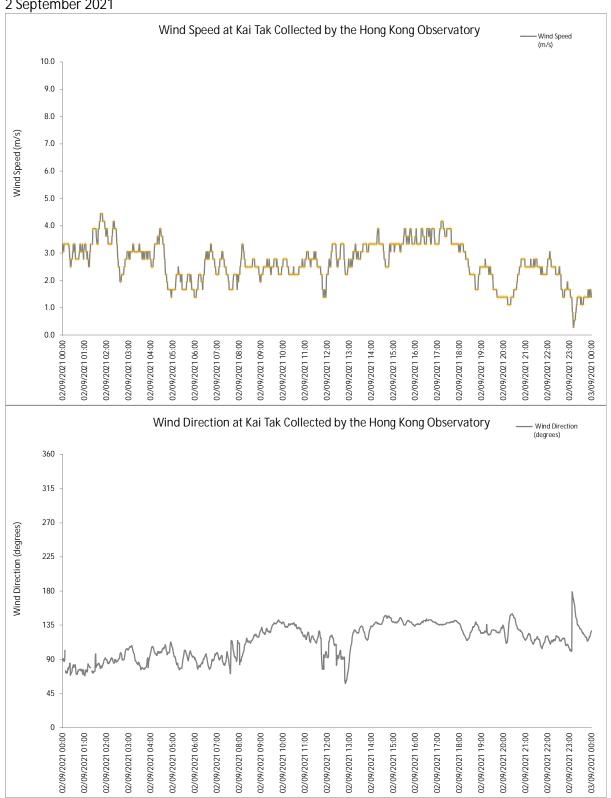
11/08/2021 12:00 11/08/2021 13:00 11/08/2021 14:00 11/08/2021 15:00 11/08/2021 16:00



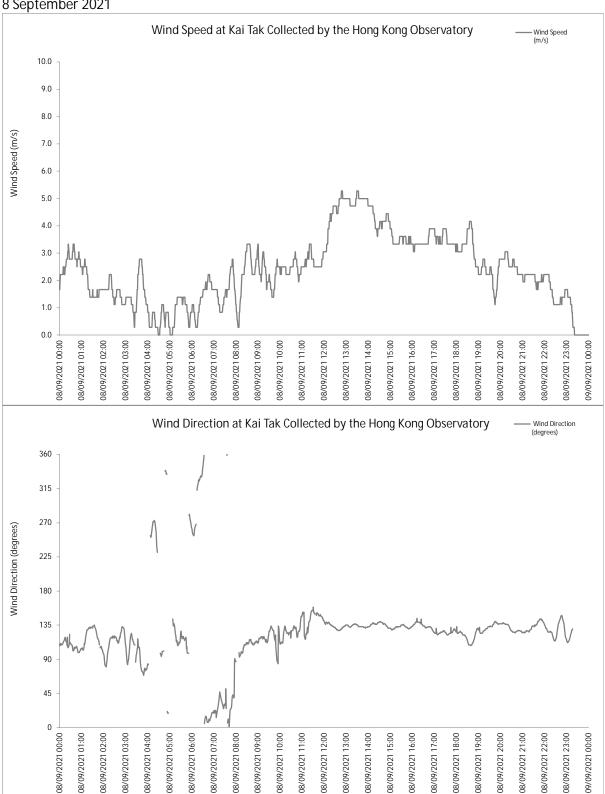




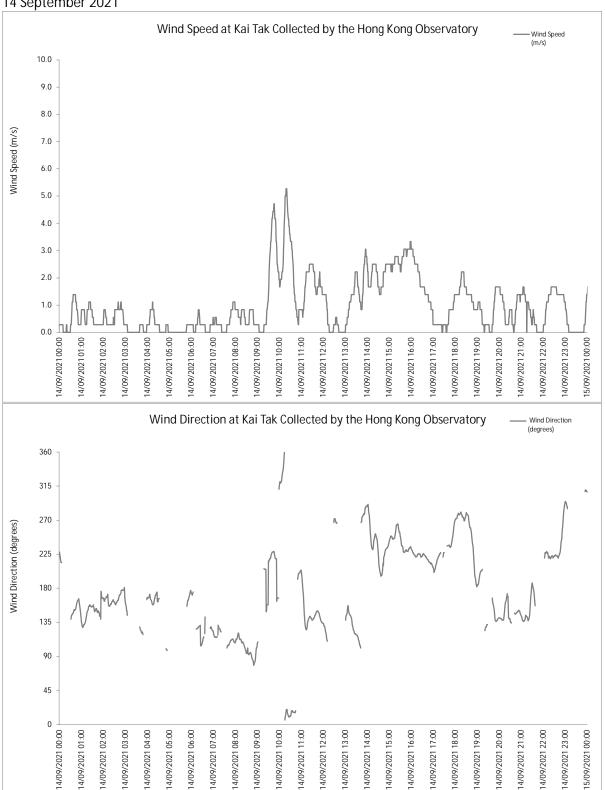
2 September 2021

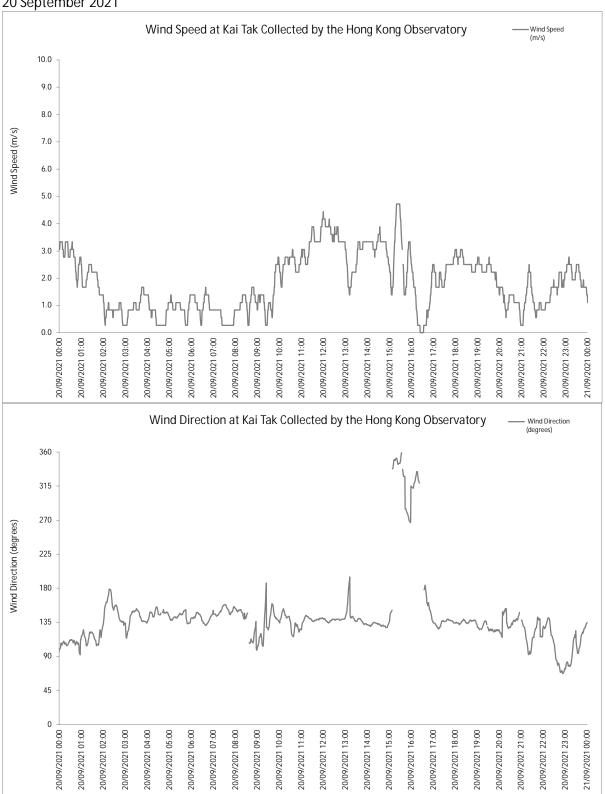


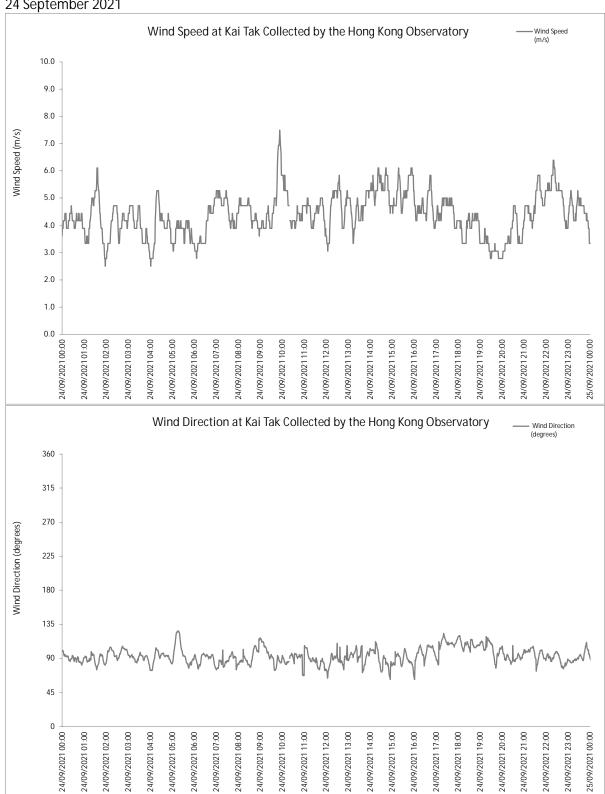
8 September 2021

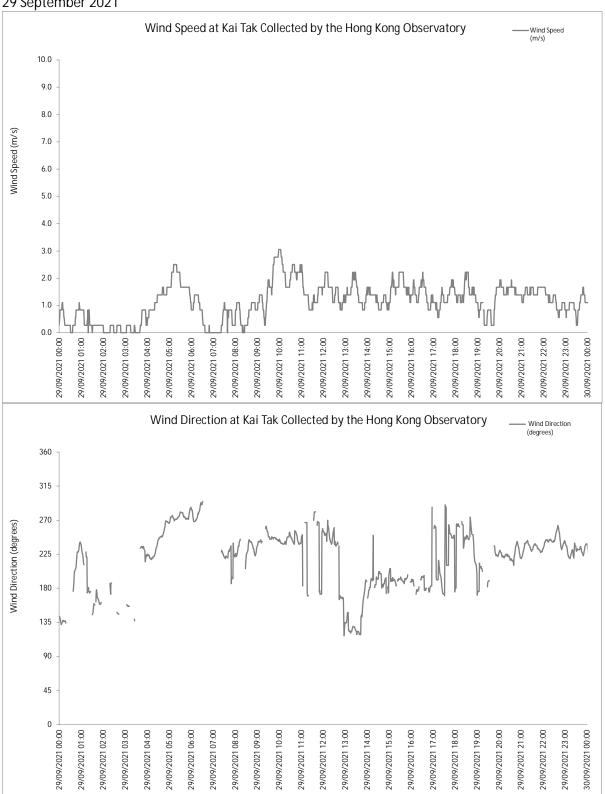


14 September 2021









Appendix G. 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: 2019-202

協與 ス程 有限 公司 HIP HING ENGINEERING CO LTD 新館集業展展 Member of NWS Holdings

Monthly Waste Flow Table

	Takal	T-4-1		Λ.	.4	fl4 00D	Matariala Oa		L. I		I A - 4.	1	f O0D N	4-4:-I- O-		41- 1	Damanda
Month	Total Quantity	Total Quantity			tual Quantitie	s of linert C&D							es of C&D M				Remarks
	Generated	Generated		cavated Mater				excavated Mat	terials		Metals (steel bar /	Metals (aluminum	Paper / cardboard	Plastics (1) & (4)	Chemical waste	Other, e.g. general	
		(Excluded Excavated Material)	Disposed in Public Fill	Disposed in Sorting Facilities	Others (e.g Reused in the Contract / Other Projects)	or Construction Waste Collected	Reused in the Contract	Reused in other Projects	Disposed in Public Fill	Disposed in Sorting Facilities	metal strip) ⁽¹⁾	can) ⁽¹⁾	packaging ⁽¹⁾	(7-(7)	(wasted lubricant oil/ oil container)	refuse	
						by Recycled Company											
	(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	С	d	е	f	g	h	i	j	k	I	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	0.00	
Mar-19	4960.89	4741.39	219.50	0.00	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	0.00	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	0.00	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	0.00	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	0.00	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	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	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	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	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	0.00	1.63	0.80	100.05	
Jan-20 Feb-20	12107.08 18104.96	127.05 100.58	11980.03 13459.32	0.00	0.00 4545.06	0.00	0.00	0.00	0.00	0.00	16.32 23.64	0.00	0.57	1.36 0.96	0.00	108.80 75.98	
Mar-20	35699.19	235.99	6615.03	0.00	28848.17	0.00	0.00	0.00	0.00	0.00	90.73	0.00	0.00	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	0.50	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	0.00	47.41	0.00	0.00	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	0.00	171.56	0.00	0.40	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	0.00	377.41	0.00	1.03	2.33	0.00	222.28	
Aug-20	61609.05	1121.82	3771.32	0.00	56715.91	0.00	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	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	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	0.00	362.36	0.02	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	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	0.00	393.38	0.05	2.68	1.96	0.00	917.77	
Feb-21	70013.03	912.17	10767.60	0.00	58333.26	0.00	0.00	0.00	0.00	0.00	386.46	0.07	1.24	0.64	0.00	523.76	
Mar-21	51743.65	1314.82	18740.08	0.00	31688.75	0.00	0.00	0.00	0.00	0.00	320.13	0.12	2.08	2.45	0.00	990.03	
Apr-21	16431.34	1411.19	0.00	0.00	15020.15	0.00	0.00	0.00	0.00	0.00	467.54	0.02	1.84	1.70	0.00	940.09	
May-21	39675.06	1610.42	0.00	0.00	38064.64	0.00	0.00	0.00	0.00	0.00	442.35	0.00	1.31	2.81	0.00	1163.95	
Jun-21	56589.31	1812.39	0.00	0.00	54776.92	0.00	0.00	0.00	0.00	0.00	353.07	0.02	1.10	1.37	0.00	1456.83	
Jul-21	18264.19	2544.22	0.00	0.00	15719.97	0.00	0.00	0.00	0.00	0.00	383.64	0.00	1.55	3.36	0.00	2155.67	
Aug-21	7959.53	2028.39	4150.75	0.00	1780.39	0.00	0.00	0.00	0.00	0.00	326.91	0.00	1.28	1.40	0.00	1698.80	
Sep-21	32389.58	2259.89	30129.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	269.75	0.00	1.99	2.68	0.00	1985.47	
Total	1225742.37	25588.93	152558.84	0.00	1043306.33	0.00	0.00	0.00	0.00	0.00	6679.42	0.75	27.23	47.00	4.20	23118.62	

Total C&D waste generated

Total C&D waste generated (excluding excavated materials)

Total recycled C&D waste

% of recycled C&D waste for BEAM Plus MA10 or MA11

1225742.37 tonne a1=b+c+d+e+f+g+h+i+j+k+l+m 25588.93 tonne a2=c+d+e+f+g+h+i+j+k+l+m 6754.39 tonne a3=c+d+e+h+i+j+k 26.40 % 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 August 2021 and September 2021 have been updated according to the latest information from contractor in September 2021.
- (9)Recycling record for metals, papers and plastics have been updated according to the latest information from contractor in September 2021.

Contract No. BD3/4091/19

Proposed Composite Development at N.K.I.L. 6607 Shing Kai Road, Kai Tak, Kowloon



Monthly Summary Waste Flow Table for 2020

			Act	ual Quantities	s of Inert C&I	O Materials G	enerated Mor	nthly						Actual Quant	ities of C&D	Wastes Gene	rated Monthly	<i>y</i>		
Month	ll .	Quantity erated		Concrete Vote 2)	Reuse Con	d in the tract		in other jects		sed as ic Fill	Me	etals	Paper / c	ardboard aging		stics Note 1)	Chemic	al Waste		her, eral refuse
	(in '0	00 m ³)	(in '00	00 m ³)	(in '0	00 m ³)	(in '0	00 m ³)	(in '00	00 m ³)	(in '0	00 kg)	(in '0	00 kg)	(in '0	00 kg)	(in '0	00 m ³)	(in '0	00 m ³)
	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.
Jan																				
Feb																				
Mar																				
Apr									\setminus					\setminus						
May									\setminus					\setminus						
Jun																				
Sub-total	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	0.00	0.00	0.00	0.00	0.00
Jul	-	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	0.00	0.00	0.00	0.00
Aug	-	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	0.00	0.00	0.00	0.00
Sep	0.20	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct	0.80	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov	0.80	1.63	0.00	0.00	0.00	0.00	0.00	0.00	0.80	1.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec	0.80	1.83	0.00	0.00	0.00	0.00	0.00	0.00	0.80	1.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.60	4.56	0.00	0.00	0.00	0.00	0.00	0.00	2.60	4.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Notes:

- (1) Plastics refer to plastic bottles / container, plastic sheets / foam from packaging material.
- (2) Broken concrete for recycling into aggregates.

Contract No. BD3/4091/19

Proposed Composite Development at N.K.I.L. 6607 Shing Kai Road, Kai Tak, Kowloon



Monthly Summary Waste Flow Table for 2021

			Act	ual Quantities	of Inert C&I	O Materials G	enerated Mor	nthly						Actual Quant	ities of C&D	Wastes Gene	rated Monthly	ý		
Month	Total Q Gene		Broken (see N	Concrete lote 2)	Reuseo Con	d in the tract	1	in other jects	Dispo Publi	sed as	Me	etals	Paper / c pack	ardboard aging		stics Note 1)	(incld. AC	al Waste CM, DCM, at oil)		her, ral refuse
	(in '00	00 m ³)	(in '00	00 m ³)	(in '00	00 m ³)	(in '00	00 m ³)	(in '00	00 m ³)	(in '0	00 kg)	(in '00	00 kg)	(in '00	00 kg)	(in '0	00 m ³)	(in '0	00 m ³)
	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.
Jan	0.80	1.32	0.00	0.00	0.00	0.00	0.00	0.00	0.80	1.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb	0.80	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.80	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mar	0.80	0.76	0.00	0.00	0.00	0.00	0.00	5.63	0.80	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr	17.10	9.30	0.00	0.00	0.00	0.00	0.00	7.97	17.10	1.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May	17.10	18.87	0.00	0.00	0.00	0.00	0.00	18.87	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jun	18.10	20.37	0.00	0.00	0.00	0.00	0.00	19.06	18.10	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total	54.70	51.71	0.00	0.00	0.00	0.00	0.00	51.53	54.70	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jul	17.10	13.75	0.00	0.00	0.00	0.00	0.00	11.75	17.10	2.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug		\setminus	\setminus	\setminus	\setminus	\setminus				\setminus				\setminus						
Sep				\setminus																
Oct				\setminus										\setminus						
Nov		\backslash			\backslash															
Dec																				
Total	71.80	65.46	0.00	0.00	0.00	0.00	0.00	63.28	71.80	7.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Notes:

- (1) Plastics refer to plastic bottles / container, plastic sheets / foam from packaging material.
- (2) Broken concrete for recycling into aggregates.
- (3) All quantity of "Disposed to Public Fill" in June 2021 are Cat. L Marine Deposit under Dumping Permit EP/MD/21-078.
- (4)The quantity of "Disposed to Public Fill" in July 2021 included 1.25 ("000m3") Cat. L Marine Deposit under Dumping Permit EP/MD/21-078.

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

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

			Accumul	ated Quantities	of Inert C&D N	Materials Gene	erated Monthly		Accu	mulated Qua	ntities of Non-ir	ert C&D Was	tes Generate	d Monthly
		Total	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)
Month	Total Quantities Generated	Quantities Generated (excluded excavated material)	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
Total	1550.68	0	0	0	0	1550.68	0	0	0	0	0	0	0	0

Total C&D Waste generated				1550.68	Tons
Total C&D waste generated (Exc	luded excavated materials)			0	Tons
Total C&D waste recycled				0	Tons
Waste Recycling Rate =	(a) + (g) + (h) + (i) + (j)	_ X 100%	=	0%	
	(a) + (b) + (f) + (g) + (h) + (i) + (j) + (l)	-			

Note:

For BEAM Plus certification scheme, excavated materials are excluded from the calculation of the waste reduction rate Record with <u>Underlined</u> indicated updated content Disposal record for August 2021 and September 2021 have been updated according to the latest information from contractor in September 2021.

Appendix H. Environmental Licences and Permits

Table H.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	Environmenta I 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	1 Apr 2021 6 Jul 2021	13 Apr 2021 2 Aug 2021	11 Aug 2021 11 Nov 2021	Superseded 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	15 Feb 2019	26 Jun 2019	30 Jun 2024	Issued
7	Construction Noise Permit (Percussive Piling)	PP-RE0015- 21	13 May 2021	3 Jun 2021	23 Nov 2021	Issued
8	Construction Noise Permit (Construction Works, Shing Kai Road)	GW-RE0365- 21	24 Mar 2021	19 Apr 2021	16 Jul 2021	Superseded by GW- RE0598-21 on 16 Jul 2021
9	Construction Noise Permit (Construction Works, Barging Point)	GW-RE0378- 21	12 Apr 2021	21 May 2021	10 Nov 2021	Issued
10	Construction Noise Permit (Construction Works, Northern Site)	GW-RE0441- 21	19 Apr 2021	11 May 2021	2 Nov 2021	Superseded by GW- RE0826-21on 1 Sep 2021

Item No.	Type of Permit / Licence	Reference No.	Application Date	Valid from	Valid until	Remark
11	Construction Noise Permit (Construction Works, Southern Site)	GW-RE0444- 21	19 Apr 2021	11 May 2021	2 Nov 2021	Superseded by GW- RE0833-21 on 1 Sep 2021
12	Construction Noise Permit (Construction Works, Shing Kai Road)	GW-RE0598- 21	1 Jun 2021	16 Jul 2021	13 Oct 2021	Superseded by GW- RE0929-21 on 23 Sep 2021
13	Construction Noise Permit (Construction Works, Northern Site)	GW-RE0826- 21	10 Aug 2021	1 Sep 2021	31 Oct 2021	Issued
14	Construction Noise Permit (Construction Works, Southern Site)	GW-RE0833- 21	11 Aug 2021	1 Sep 2021	28 Feb 2022	Issued
15	Construction Noise Permit (Construction Works, Shing Kai Road)	GW-RE0929- 21	17 Sep 2021	23 Sep 2021	3 Dec 2021	Issued
16	Construction Noise Permit (Special - Truss Delivery Port)	GW-RE0931- 21	13 Sep 2021	13 Sep 2021	15 Sep 2021	Issued

Table H.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	458255	17 Jul 2020	17 Jul 2020	N/A	N/A
	Notification under APCO	470045	29 Jul 2021	29 Jul 2021	N/A	N/A
3	Construction Waste Disposal Account (Main)	7037993	5 Aug 2020	5 Aug 2020	N/A	Not in use since Sep 2021
		7041267	29 Jul 2021	11 Aug 2021	N/A	Issued
4	Registration as a Chemical Waste Producer	WPN5113- 286-C1286- 03	17 Jul 2020	10 Sep 2020	N/A	Not in use since Sep 2021
		WPN5211- 286-H1103- 23	29 Jul 2021	24 Aug 2021	N/A	Issued
5	Discharge Licence under	WT00037364 -2021	17 Jul 2020	22 Mar 2021	31 Mar 2026	Issued
	WPCO	470303 (Receipt No.)	6 Aug 2021	N/A	N/A	Pending
6	Marine Dumping Permit under	EP/MD/21- 087	23 Nov 2020	5 Jul 2021	4 Aug 2021	Issued
	DASO	470717 (Receipt No.)	18 Aug 2021	N/A	N/A	Pending
7	Construction Noise Permit	GW-RE0840- 21	12 Aug 2021	1 Sep 2021	28 Feb 2022	Issued

Appendix I. Environmental Mitigation Measures Implementation Status

Air Quality - Recommended Mitigation Measures

Air Quality Mitigation Measures during construction		entation atus
	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 	Р	✓
 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 	✓	N/A
 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 	✓	Р
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 	Р	✓
 Dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads 	✓	✓
Properly fitted side and tail boards are necessary for any vehicle with open load area	✓	✓
 While transporting materials that potentially create dust (e.g. debris), materials should not be loaded higher than side and tail boards, and should be fully covered by tarpaulin or similar materials which extent at least 300 mm over the edges of the side and tail boards to prevent leakage. 	✓	✓
Limit the maximum vehicle speed within the site to 10km/hr	✓	✓
Haulage and delivery vehicles should be confined to designated roads	✓	✓
Every main haul road should either be1.) paved with concrete and kept clear of dusty materials, or2.) sprayed or watered to maintain the entire road surface wet	Р	✓
All on-site unpaved roads should be compacted and kept free of lose materials as possible	✓	✓
 Provide vehicle washing (e.g. wheel washing bay & high pressure water jet where practicable) at every vehicle exit point for cleaning vehicle body and wheels 	✓	✓
 The vehicle washing area and the road between washing area and site exit should be paved with concrete, bituminous or other hardcores 	✓	✓
 The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials. 	✓	✓
Dusty materials on every vehicle's body and wheels should be removed in washing area before leaving the site	✓	✓

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 	✓	N/A
 Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shortcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies 	✓	✓
Carry out air quality monitoring throughout the construction period	✓	✓
Carry out weekly site inspection to audit the implementation of mitigation measures	✓	✓
 Regular watering once per hour on exposed worksites and haul road with an equivalent intensity of not less than 1.3L/m3 to achieve 91.7% dust removal efficiency. 	✓	✓
 Provision of electrical vehicle (EV) charging facilities in at least one-third of the car parking spaces for private cars. Provision of EV charging enabling facilities in all car parking spaces provided for private cars. 	✓	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. 	Р	Р

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/m2. Alternatively, acoustic shed, enclosure or silencer (for generator, air compressor and concrete pump) or acoustic mat (for piling) can be adopted. 	Р	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 co	nstruction	Impleme Stat	
		KTSP	H/O
Practices outlined in ProPECC PN 1/94 Construction	n Site Drainage should be adopted.	✓	Р
 Install perimeter channels in the works areas to inte commencement of any earthwork 	rcept runoff from boundary prior to the	✓	✓
 To prevent storm runoff from washing across expos provided. 	ed soil surfaces, intercepting channels should be	✓	✓
 Drainage channels are required to convey site runo of regular cleaning and maintenance to ensure the construction period. 		√	✓
 Any practical options for the diversion and realignm engineering and environmental requirements 	ent of drainage should comply with both	✓	✓
 Minimum distances of 100 m should be maintained runoff and the existing WSD saltwater intake and E 		✓	✓
 The following good site measures should be adopte operated by the MTR SCL Project: - All vessels sho maintained between vessels and the seabed in all t generated by turbulence from vessel movement or - All hopper barges should be fitted with tight fitting of material. 	uld be sized so that adequate clearance is de conditions, to ensure that undue turbidity is not propeller wash.	N/A	N/A
- Construction activities should not cause foam, oil, to be present on the water within the site.	grease, scum, litter or other objectionable matter		
 Loading of barges and hoppers should be controll surrounding water. 	ed to prevent splashing of material into the		
 Barges or hoppers should not be filled to a level th water during loading or transportation. Whole const 	•		
 The runoff and wastewater generated from the worl standards listed in the TM-DSS. 	s areas should be treated so that it satisfies all the	✓	✓
Reuse and recycling of the treated effluent from co	nstruction site runoff.	✓	✓
 Weekly site audit should be carried out to check th water quality impact mitigation measures throughout 		✓	✓
 The construction programme should be properly pl seasons. 	anned to minimise soil excavation, if any, in rainy	✓	✓
 Any exposed soil surfaces should be properly prote 	cted to minimise dust emission.	✓	
la	et earth hunds or sand hads should be provided		✓
In areas where a large amount of exposed soils exit	st, earth burius of sailu bags should be provided.	✓	✓ ✓
		✓ ✓	
 Exposed stockpiles should be covered with tarpauli The stockpiles of materials should be placed at local 	n or impervious sheets at all times.		✓
 Exposed stockpiles should be covered with tarpauli The stockpiles of materials should be placed at loca avoid releasing materials into the water bodies. 	n or impervious sheets at all times. tions away from any stream courses so as to	✓	√ √
 In areas where a large amount of exposed soils exi Exposed stockpiles should be covered with tarpauli The stockpiles of materials should be placed at local avoid releasing materials into the water bodies. Final surfaces of earthworks should be compacted Haul roads should be paved with concrete and the stone or gravel, wherever practicable. 	n or impervious sheets at all times. Itions away from any stream courses so as to and protected by permanent work.	✓ ✓	√ √ √
 Exposed stockpiles should be covered with tarpauli The stockpiles of materials should be placed at local avoid releasing materials into the water bodies. Final surfaces of earthworks should be compacted Haul roads should be paved with concrete and the 	n or impervious sheets at all times. Itions away from any stream courses so as to and protected by permanent work. emporary access roads protected using crushed ite exits to ensure that earth, mud and debris	✓ ✓	√ √ √
 Exposed stockpiles should be covered with tarpauli The stockpiles of materials should be placed at loca avoid releasing materials into the water bodies. Final surfaces of earthworks should be compacted Haul roads should be paved with concrete and the stone or gravel, wherever practicable. Wheel washing facilities should be provided at all stone 	n or impervious sheets at all times. Itions away from any stream courses so as to and protected by permanent work. Itions away from any stream courses so as to and protected by permanent work. It is a substitute of the course of the cour	✓ ✓ ✓	
 Exposed stockpiles should be covered with tarpauli The stockpiles of materials should be placed at loca avoid releasing materials into the water bodies. Final surfaces of earthworks should be compacted Haul roads should be paved with concrete and the stone or gravel, wherever practicable. Wheel washing facilities should be provided at all swould not be carried out of the works areas by vehi Good site practices should be adopted to keep the 	n or impervious sheets at all times. Itions away from any stream courses so as to and protected by permanent work. Itions away from any stream courses so as to and protected by permanent work. It is existed to ensure that earth, mud and debriscles. It is existed to ensure that earth, mud and debriscles.		\(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\)
 Exposed stockpiles should be covered with tarpauli The stockpiles of materials should be placed at loca avoid releasing materials into the water bodies. Final surfaces of earthworks should be compacted Haul roads should be paved with concrete and the stone or gravel, wherever practicable. Wheel washing facilities should be provided at all swould not be carried out of the works areas by vehi Good site practices should be adopted to keep the litter on the construction sites. 	n or impervious sheets at all times. Itions away from any stream courses so as to and protected by permanent work. Itions away from any stream courses so as to and protected by permanent work. It is exit to ensure that earth, mud and debriscles. It is exit to ensure that earth, mud and debriscles. It is exit to ensure that earth, mud and debriscles. It is exit to ensure that earth, mud and debriscles. It is exit to ensure that earth, mud and debriscles. It is exit to ensure that earth, mud and debriscles. It is exit to ensure that earth, mud and debriscles.	✓ ✓ ✓ ✓ ✓ P	

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

Waste Management - Recommended Mitigation Measures

Waste Management Mitigation Measures during construction		ntation us
	KTSP	H/O
 Inert C&D materials (or public fills) will be used to form the ramps and other filling area as far as civil engineering design permits. 	✓	✓
 The contractor should formulate waste management measures on waste minimization, storage, handling and disposal in a Waste Management Plan as part of Environmental Management Plan. 	✓	✓
 Adopt good site practice as follows: Provide training to workers on site cleanliness, waste management (waste reduction, reuse and recycle) and chemical handling procedures 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 	Р	√
 Adopt waste reduction measures as follows: Allocate area/containers for sorting, recovering and storing waste for reuse, recycle or disposal (e.g. demolition debris and excavated materials, general refuse like aluminium cans.) Remove waste from the Site for sorting once generated if no suitable space can be identified. Allocate area for proper storage of construction materials to prevent contamination Minimize wastage through careful planning and avoiding over-purchase of construction materials 	Р	✓
 Store waste materials properly as follows: Avoid contamination by proper handling and storing waste Prevent erosion by covering waste Apply water spray on excavated materials Maintain and clean storage area regularly Sort and stockpile different materials at designated location to enhance reuse 	Р	√
 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). 	√	✓
 Hire licensed waste disposal contractors for waste collection and removal. Dispose waste at licensed waste disposal facilities. 	✓	✓
 Implement trip-ticket system for recording the amount of waste generated, recycled and disposed, including chemical wastes 	✓	✓
 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 	✓	✓

Dispose dry waste or waste with less than 70% water content by weight to landfill	✓	
Follow the Code of Practice on the Packaging, Labelling and Storage of Chemical Waste as follows:	→	✓
 Store chemical wastes with suitable containers. Seal and maintain the container to avoid leakage or spillage during storage, handling and transport 		
- Label chemical waste containers in both English and Chinese with instructions in accordance to		
Schedule 2 of the Waste Disposal (Chemical Waste) (General) Regulation - The container capacity should be smaller than 450 litres unless agreed by the EPD		
- The container capacity should be smaller than 450 littles unless agreed by the EPD		
Comply with the requirement of the chemical storage area:	Р	✓
- 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		
 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 	✓	✓
 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 	✓	✓
 Hire reputable waste collector to separately collect and dispose general refuse from other wastes. Cover the waste to prevent being blown away 	✓	✓
 The hauling of C&D materials shall follow established environmental mitigation measures as stated in Practice Note for Registered Contractors No. 17 "Control of Environmental Nuisance from Construction Sites" issued by the Buildings Department 	✓	✓
 Provide recycling bins for sorting out recyclables for collection by recycling companies. Non- recyclables should be removed to designated landfills every day by licensed collectors to prevent environmental and health nuisance. 	✓	✓
 Organize training and reminders to site staff on waste minimization through avoidance and reduction, reusing and recycling 	✓	✓
 Bentonite slurry which will not be reused shall be disposed of from the Site as soon as possible. Residual used dewatered bentonite slurry should be disposed to a public filling area and liquid bentonite slurry if mixed with inert fill material should be disposed to a public filling area. 	N/A	N/A
• If chemical wastes were to be produced at the construction site, the Contractor would be required to register with the EPD as a Chemical Waste Producer, and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the waste such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport the chemical wastes.	✓	√
 The licensed collector shall deliver the waste to the Chemical Waste Treatment Centre at Tsing Yi, or other licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation 		
 Carry out weekly site inspection to check the implementation status of the recommended waste management measures. 	✓	✓
 The barging of C&DM for this Project shall use the existing Kai Tak Barging Facility (KTBF), or otherwise approved by the Director. 	N/A	N/A

Ecology – Recommended Mitigation Measures

Ecology Mitigation Measures during construction		ntation us
	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	Impleme Stat	us
	KTSP	H/O
Construction Lighting Control	✓	N/A
 All security floodlights for construction sites should be equipped with adjustable shields, frosted diffusers and reflective covers, and be controlled to minimize light pollution and night-time glare to the visual sensitive receivers (VSRs). 		
Temporary Landscape Treatments	✓	N/A
 Including vertical greening, pot planting and application of green roofing to site offices, Hydroseeding of site formation areas and short term greening of site boundaries and land not immediately developed. 		
Decoration of Hoarding	✓	✓
- 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	N/A	N/A
- A new parkland area is created in the project development to be used for the implementation of compensatory tree planting to offset the net loss of key landscape resources. It is recommended that 340 trees be planted in this regard and a compensatory tree planting proposal outlining the locations of tree compensation will be submitted separately in seeking relevant government department's approval in accordance with DEVB TC No.7/2015.		

Legend:

Implemented Not implemented Partially implemented Not applicable

Other - Recommended Mitigation Measures

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

N/A

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

Table J.1: Statistics on Environmental Complaints, Notifications of Summons and Successful Prosecutions

Reporting Period	Complaints	Notifications of Summons	Successful Prosecutions
This reporting period (Jul to Sep 2021)	0	0	0
From commencement date of construction to end of reporting month	16	0	0

Appendix K. Calibration Certificate

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



SUB-CONTRACTING REPORT

CONTACT : MR K.W. FAN WORK ORDER : HK2045301

CLIENT : ENVIROTECH SERVICES CO.

ADDRESS : RM113, 1/F, MY LOFT, 9 HOI WING ROAD, SUB-BATCH : 1

TUEN MUN, N.T. HONG KONG

DATE RECEIVED : 24-NOV-2020

DATE OF ISSUE : 30-NOV-2020

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., if any) 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.

: HK2045301 WORK ORDER

SUB-BATCH

: 1 : ENVIROTECH SERVICES CO. CLIENT

PROJECT



ALS Lab	ALS Lab Client's Sample ID		Sample Date	External Lab Report No.
ID		Туре		
HK2045301-001	S/N: 245833	Equipments	24-Nov-2020	S/N: 245833

Equipment Verification Report (TSP)

Equipment Calibrated:

Type: Laser Dust monitor

Manufacturer: Sibata LD-3B

Serial No. 245833

Equipment Ref: Nil

Job Order HK2045301

Standard Equipment:

Standard Equipment: Higher Volume Sampler (TSP)

Location & Location ID: AUES office (calibration room)

Equipment Ref: HVS 018

Last Calibration Date: 8 October 2020

Equipment Verification Results:

Verification Date: 26 November 2020

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in mg/m³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
2hr01min	09:18 ~ 11:19	24.0	1019.3	0.041	4525	37.3
2hr	11:22 ~ 13:22	24.0	1019.3	0.034	3430	28.6
2hr01min	13:25 ~ 15:26	24.0	1019.3	0.044	5196	42.9

0.05 0.045

0.04

0.035

0.025

0.015

0.01 0.005 y = 0.0011x + 0.0011

 $R^2 = 0.9865$

20

Linear Regression of Y or X

Slope (K-factor): 0.0011

Correlation Coefficient 0.9932

Date of Issue 30 November 2020

Remarks:

- 1. **Strong** Correlation (R>0.8)
- 2. Factor 0.0011 should be applied for TSP monitoring

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

Operator : _____ Fai So Signature : _____ Date : ____ 30 November 2020

QC Reviewer : Ben Tam Signature : Date : 30 November 2020

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group





SUB-CONTRACTING REPORT

CONTACT : MR K.W. FAN WORK ORDER : HK2045304

CLIENT : ENVIROTECH SERVICES CO.

ADDRESS : RM113, 1/F, MY LOFT, 9 HOI WING ROAD, SUB-BATCH : 1

TUEN MUN, N.T. HONG KONG

DATE RECEIVED : 24-NOV-2020

DATE OF ISSUE : 30-NOV-2020

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., if any) 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.

: HK2045304 WORK ORDER

SUB-BATCH

: 1 : ENVIROTECH SERVICES CO. CLIENT

PROJECT



ALS Lab	Client's Sample ID	_	Sample Date	External Lab Report No.
ID		Туре		
HK2045304-001	S/N: 276015	Equipments	24-Nov-2020	S/N: 276015

Equipment Verification Report (TSP)

Equipment Calibrated:

Type: Laser Dust monitor

Manufacturer: Sibata LD-3B

Serial No. 276015

Equipment Ref: Nil

Job Order HK2045304

Standard Equipment:

Standard Equipment: Higher Volume Sampler (TSP)

Location & Location ID: AUES office (calibration room)

Equipment Ref: HVS 018

Last Calibration Date: 8 October 2020

Equipment Verification Results:

Verification Date: 26 November 2020

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in mg/m³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
2hr01min	09:18 ~ 11:19	24.0	1019.3	0.041	4541	37.5
2hr	11:22 ~ 13:22	24.0	1019.3	0.034	3443	28.7
2hr01min	13:25 ~ 15:26	24.0	1019.3	0.044	5211	43.0

Linear Regression of Y or X

Slope (K-factor): 0.0011

Correlation Coefficient 0.9933

Date of Issue 30 November 2020

0.05 0.045 0.04 0.035 0.03 0.025 0.02 y = 0.0011x + 0.0011 0.015 $R^2 = 0.9867$ 0.01 0.005 0 10 20 40 50

Remarks:

1. **Strong** Correlation (R>0.8)

2. Factor 0.0011 should be applied for TSP monitoring

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

Operator : _____ Fai So Signature : _____ Date : ____ Date : ____ 30 November 2020

QC Reviewer : Ben Tam Signature : Date : 30 November 2020



Sun Creation Engineering Limited Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.:

C210001

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC20-2688)

Date of Receipt / 收件日期: 18 December 2020

Description / 儀器名稱

Precision Acoustic Calibrator

Manufacturer / 製造商

LARSON DAVIS

Model No. / 型號

CAL200

Serial No./編號

11334

Supplied By / 委託者

Envirotech Services Co.

Room 113, 1/F, My Loft, 9 Hoi Wing Road, Tuen Mun,

New Territories, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 :

 $(23 \pm 2)^{\circ}$ 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

2 January 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 & user's specified acceptance criteria.

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
- The Bruel & Kjaer Calibration Laboratory, Denmark
- Agilent Technologies / Keysight Technologies

- Fluke Everett Service Center, USA

Tested By 測試

Assistant Engineer

Certified By

核證

K C Lee Engineer

Date of Issue 簽發日期

4 January 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 - 校正及檢測實驗所 c/o 香港新界屯門興安里 號四樓

Fax/傳真: (852) 2744 8986 Tel/電話: (852) 2927 2606

E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com



Sun Creation Engineering Limited Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C210001

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.

Measuring Amplifier

2. The results presented are the mean of 3 measurements at each calibration point.

3. Test equipment:

Equipment ID CL130 CL281 TST150A <u>Description</u>
Universal Counter
Multifunction Acoustic Calibrator

C203952 CDK1806821 C201309

Certificate No.

4. Test procedure: MA100N.

5. Results:

5.1 Sound Level Accuracy

UUT	Measured Value	User's Spec.	Uncertainty of Measured Value
Nominal Value	(dB)	(dB)	(dB)
94 dB, 1 kHz	93.7	± 0.5	± 0.2
114 dB, 1 kHz	113.7		

5.2 Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value (Hz)
(kHz)	(kHz)	Spec.	
1	1.000	1 kHz ± 1 %	± 1

Remarks: - The user's specified acceptance criteria (user's spec.) is a customer pre-defined operating tolerance of the UUT, suitable for one's own intended use.

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

Note:

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

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

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

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Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: 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 Model No. / 型號

Rion

Serial No./編號

NL-52 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 : Line Voltage / 電壓 :

 $(23 \pm 2)^{\circ}$ C

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

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 Lee Engineer Date of Issue

9 June 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.

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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 - 校正及檢測實驗所 c/o 香港新界屯門興安里 -號四樓 Tel/電話: (852) 2927 2606 Fax/傳真: (852) 2744 8986 E-mail/電郵: callab@suncreation.com



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C213255

證書編號

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to , 1. 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 CL281

40 MHz Arbitrary Waveform Generator Multifunction Acoustic Calibrator

C210084

AV210017

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

6.1.1 Reference Sound Pressure Level

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

6.1.2 Linearity

UUT Setting			Applied	UUT			
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	
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. : \pm 0.6 dB per 10 dB step and \pm 1.1 dB for overall different.

6.2 Time Weighting

UUT Setting			Applied Value		UUT	IEC 61672	
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	Class 1 Spec. (dB)
30 - 130	L_{A}	A	Fast	94.00	1	94.2	Ref.
			Slow			94.2	± 0.3

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Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C213255

證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

The second secon	UUT Setting			Appl	Applied Value		IEC 61672
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Class 1 Spec. (dB)
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	$+1.2 \pm 1.6$
					4 kHz	95.2	$+1.0 \pm 1.6$
	117, 11				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	IEC 61672
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Class 1 Spec. (dB)
30 - 130	L _C	C	Fast	94.00	63 Hz	93.3	-0.8 ± 1.5
	200				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)
				June Victoria Company	16 kHz	84.3	-8.5 (+3.5 ; -17.0)

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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 : \pm 0.35 dB

 $16 \text{ kHz} \qquad : \pm 0.70 \text{ dB}$

104 dB : 1 kHz : $\pm 0.10 \text{ dB}$ (Ref. 94 dB) 114 dB : 1 kHz : $\pm 0.10 \text{ dB}$ (Ref. 94 dB)

Website/網址: www.suncreation.com

Note:

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

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