

Our ref: 14-3-2023

14-3-2023

By hand

Environmental Protection Department  
Environmental Assessment Division  
Metro Assessment Group  
Kowloon Section (2)  
27th floor, Southorn Centre,  
130 Hennessy Road,  
Wan Chai, Hong Kong  
(Attn: Mr. TANG Ho Him, Matthew)

Dear Mr. TANG,

**Contract No. EDO 15/2018**

**Environmental Monitoring Works for Contract No. ED/2018/01 – Kai Tak Development – Stage 4  
infrastructure at the former runway and south apron  
Submission of Quarterly EM&A Report (July 2022 to September 2022)**

I refer to the Environment Permit (EP) No. EP-337/2009 and EP-445/2013/A for the captioned project.

Pursuant to Condition 3.3 of the EP-337/2009 and Condition of the 3.2 of the EP-445/2013/A, please find enclosed four hard copies and one electronic copy of Quarterly EM&A Report for July 2022 to September 2022, which has been verified by the IEC for your reference.

Thank you very much for your attention and please feel free to contact Mr. Lee at 2618 2166 should you require further information.

Yours faithfully,

For and on behalf of  
Ka Shing Management Consultant Limited

**AKCL**

Applied knowledge center limited  
Company Secretary

Encl. Quarterly EM&A Report (July 2022 to September 2022)

Ref.: CEDKTDS4EM00\_0\_0275L.23

1 March 2023

AECOM Asia Company Limited  
12/F, Grand Central Plaza, Tower 2  
138 Shatin Rural Committee Road  
Shatin, Hong Kong

By Post and Email

Attention: Mr. Clive Cheng

Dear Mr. Cheng,

**Re: Contract No. ED/2018/01 – Kai Tak Development  
Stage 4 Infrastructure at the Former Runway and South Apron**

**Quarterly EM&A Summary Report for July 2022 to September 2022**

Reference is made to the Environmental Team's submission of the Quarterly EM&A Summary Report for July 2022 to September 2022 (Version 1.1) certified by the ET Leader and provided to us via email on 9 February 2023.

Please be informed that we have no adverse comment on the captioned submission.

Thank you for your attention. Please do not hesitate to contact the undersigned should you have any queries.

Yours sincerely,  
For and on behalf of  
Ramboll Hong Kong Limited



Y H Hui  
Independent Environmental Checker

c.c. CEDD  
Ka Shing  
Penta-Ocean

Attn.: Mr. Jason Wong  
Attn.: Mr. Chan Pang  
Attn.: Mr. Daniel Ho

Fax: 2739 0076  
By email  
Fax: 2572 4080

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**Quarterly Environmental Monitoring and Audit  
Summary Report (July 2022 – September 2022)  
for  
Contract No. ED/2018/01 –  
Kai Tak Development – Stage 4 infrastructure at the  
former runway and south apron**

**Contract No.: EDO 15/2018**

(Version 1.1)

Certified By: \_\_\_\_\_



(Environmental Team Leader)

<b>Table of Content</b>	<b>Page</b>
EXECUTIVE SUMMARY .....	6
Breaches of Action and Limit Levels .....	6
Complaint log .....	6
Notifications of Summons and Successful Prosecutions.....	6
Report changes.....	6
Major construction works in the reporting period .....	7
1. INTRODUCTION.....	9
Project Background .....	9
Project Organization .....	10
Works Area and Construction Programme.....	10
Construction works undertaken during reporting period.....	11
2. SUMMARY OF EM&A REQUIREMENTS AND MONITORING RESULTS ..	13
Monitoring Requirements .....	13
Air Quality Monitoring Locations .....	13
Air Quality Monitoring Parameters, Frequency and Duration .....	15
Air Quality Monitoring Equipment .....	15
Air Quality Monitoring Methodology and QA/QC Procedure.....	16
Wind Data Monitoring.....	18
Impact Air Quality Action and Limit Levels.....	18
Impact Air Quality Monitoring results .....	19
Noise Monitoring Locations .....	20
Noise Monitoring Parameters, Frequency and Duration .....	22
Noise Monitoring Equipment .....	22
Monitoring Methodology and QA/QC Procedure .....	23
Maintenance and Calibration .....	23
Impact Noise Action and Limit Levels.....	24



	Impact Noise Monitoring results .....	24
	Comparison of EM&A Results with EIA Predictions .....	25
3.	LANDSCAPE AND VISUAL MONITORING .....	28
4.	SOLID AND LIQUID WASTE MANAGEMENT .....	29
5.	ENVIRONMENTAL SITE INSPECTION AND AUDIT .....	30
	Site Inspection .....	30
	Implementation Status of Environmental Mitigation Measures .....	31
6.	SUMMARY OF NON-COMPLIANCE STATUS .....	32
	Breaches of Action and Limit Levels .....	32
	Environmental Complaint and Non-compliance .....	32
	Notifications of summons and successful prosecutions .....	33
7.	COMMENTS, RECOMMENDATIONS AND CONCLUSIONS .....	34
	Comments .....	34
	Recommendations.....	34
	Conclusions.....	35

**List of Tables**

Table I	Major construction activities in the reporting period
Table 1.1	Contact information of key personnel
Table 1.2	Major construction activities in the reporting period
Table 2.1	Locations of air quality monitoring stations
Table 2.2	Proposed alternative monitoring locations for AM4(A)
Table 2.3	Air quality monitoring parameters, frequency and duration
Table 2.4	Air Quality Monitoring Equipment
Table 2.5	Action and Limit Levels of 24-hour average TSP for construction dust monitoring
Table 2.6	Action and Limit Levels of 1-hour average TSP for construction dust monitoring

Table 2.7	Summary of 24-hour average TSP monitoring data during the reporting period
Table 2.8	Summary of 1-hour average TSP monitoring data during the reporting period
Table 2.9	Locations of noise monitoring stations
Table 2.10	Proposed alternative monitoring locations for M11
Table 2.11	Noise monitoring parameters, frequency and duration
Table 2.12	Noise Monitoring Equipment
Table 2.13	Baseline noise level and Action and Limit Levels for construction noise monitoring
Table 2.14	Summary of noise monitoring data during the reporting period
Table 2.15	Comparison of 24-hour average TSP monitoring data with EIA predictions
Table 2.16	Comparison of 1-hour average TSP monitoring data with EIA predictions
Table 2.17	Comparison of noise monitoring data with EIA predictions
Table 3.1	Summary of observations of Landscape and Visual impact during the reporting period
Table 5.1	Summary of site inspections observations during the reporting period
Table 6.1	Non-compliance record in the reporting period
Table 6.2	Summary of complaints in the reporting period
Table 6.3	Summary of summons and successful prosecutions in the reporting period
Table 7.1	Summary of recommendations / reminders made in site inspections during the reporting period

### **List of Figure**

Figure 1 – Proposed works of Contract No. ED/2018/01

Figure 2 – Proposed Bus Stop And Associated Noise Barrier At Road D3A

Figure 3 – Future Pedestrian Connection Between Landscaped Deck And Private Developments

Figure 4 – Site Layout Plan

Figure 5 – Air Quality Monitoring Stations

Figure 6 – Proposed Alternative Monitoring Locations for AM4(A)

Figure 7 – Noise Monitoring Stations

Figure 8 – Proposed Alternative Monitoring Locations for M11

## **List of Appendices**

Appendix A – Organization Chart of EM&A Team and Emergency Team

Appendix B – Construction Programme

Appendix C – Apply permission for Environmental Monitoring

Appendix D – Weather information

Appendix E – Monitoring data and graphical plots

Appendix F – Event and Action Plans for Construction Dust Monitoring, Construction Noise  
and Landscape and Visual Impact

Appendix G – Waste Flow Table

Appendix H – Environmental Mitigation Implementation Schedule (EMIS)

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

## **EXECUTIVE SUMMARY**

1. This is the 11<sup>st</sup> Quarterly Environmental Monitoring & Audit (EM&A) Summary Report which summaries the findings of the EM&A Programme during the reporting period from 1 July 2022 to 30 September 2022 (the “reporting period”).

### **Breaches of Action and Limit Levels**

2. 1-hour TSP monitoring was conducted as scheduled in the reporting period. No Action/Limit Level exceedance was recorded.
3. 24-hour TSP monitoring was conducted as scheduled in the reporting period. No Action/Limit Level exceedance was recorded.
4. Construction noise monitoring was conducted as scheduled in the reporting period. No Action/Limit Level exceedance was recorded.

### **Complaint log**

5. No complaint was received in the reporting period.

### **Notifications of Summons and Successful Prosecutions**

6. No notification of summons and successful prosecutions was received in the reporting period.

### **Report changes**

7. There was no reporting change in the reporting period.

## Major construction works in the reporting period

8. Major construction activities undertake during the reporting period included:

*Table I Major construction activities in the reporting period*

July 2022	August 2022	September 2022
- North Approach Ramp – Construction of utilities trough	- North Approach Ramp – Construction of utilities trough	- North Approach Ramp – Construction of end wall
- Bridge D3 – Construction of Bridge Deck and abutments	- Bridge D3 – Construction of Bridge Deck	- Bridge D3 – Construction of Bridge Deck
- North Depressed Road – Construction of wall & top slab	- North Depressed Road – Construction of wall & top slab	- North Depressed Road – Construction of central median and profile barrier
- Underpass – Construction of walls and roof slab	- Underpass – Construction of upstand wall	- Underpass – Construction of upstand wall, Panel timber slat installation
- South Approach Ramp – Construction of Permanent Structure	- South Approach Ramp – Construction of Permanent Structure	- South Approach Ramp – Construction of Permanent Structure
- District Cooling System seawater intake box culvert - reinstatement of the seawall and backfilling works	- District Cooling System seawater intake box culvert - reinstatement of the seawall and backfilling works	- District Cooling System seawater intake box culvert - reinstatement of the seawall and backfilling works
- Lift 3 – Modification works	- Lift 3 – Modification works	- Lift 3 – Modification works
- Lift 4 – Construction of linking platform, Installation of glass	- Lift 4 – Construction of lift shaft	- Lift 4 – Construction of lift shaft and glass panel
- South Depressed Road – construction of permanent works	- South Depressed Road – construction of permanent works	- South Depressed Road – construction of permanent works
- Rising Main and Water Pipe – Laying of sewage	- Rising Main and Water Pipe – Laying of sewage	- Rising Main and Water Pipe – Laying of sewage
- Landscaped Deck – Construction of pile caps and installation of columns, construction of Landscaped Deck	- Landscaped Deck – Installation of columns, construction of Landscaped Deck	- Elevated Landscaped Deck – Installation of columns, construction of Landscaped Deck
- Transformer Room - Construction of permanent structure	- Transformer Room - Construction of permanent structure	- Transformer Room - Construction of permanent structure
- Shing Kai Road – Modification works, laying of storm water drainage pipes	- Shing Kai Road – Modification works, laying of storm water drainage pipes	- Shing Kai Road – Modification works, laying of storm water drainage pipes
- Lift 1 & 2 – Installation of ELS system	- Lift 1 & 2 – Installation of ELS system	- Lift 1 & 2 – Installation of ELS system
- CLP substation –	- CLP substation –	- CLP substation – Construction of wall &

July 2022	August 2022	September 2022
<p>Construction of wall &amp; intermediate slab, permeant structure</p> <ul style="list-style-type: none"> <li>- Noise Barrier – Remaining works, Bus lay-by construction</li> <li>- Seawater Intake Box Culvert of Saltwater Pumping Station – Installation of sheetpiles and ELS system</li> </ul>	<p>Construction of wall &amp; intermediate slab, permeant structure</p> <ul style="list-style-type: none"> <li>- Noise Barrier – Remaining works, Bus lay-by construction</li> <li>- Seawater Intake Box Culvert of Saltwater Pumping Station – Installation of sheetpiles and ELS system</li> </ul>	<p>intermediate slab, permeant structure</p> <ul style="list-style-type: none"> <li>- Noise Barrier – Remaining works, Bus lay-by construction</li> <li>- Seawater Intake Box Culvert of Saltwater Pumping Station – Installation of sheetpiles and ELS system</li> </ul>

# 1. INTRODUCTION

## Project Background

- 1.1 The Kai Tak Development (KTD) is located in the south-eastern part of Kowloon Peninsula of the HKSAR, comprising the apron and runway areas of the former Kai Tak Airport and existing waterfront areas at To Kwa Wan, Ma Tau Kok, Kowloon Bay, Kwun Tong and Cha Kwo Ling.
- 1.2 Contract No. ED/2018/01 - Kai Tak Development – stage 4 infrastructure at the former runway and south apron (The Project), comprises mainly the design and construction of a dual two-lane Road D3 (Metro Park Section), a single 2-lane Road L12d, a salt water pumping station, a sewage pumping station, landscaped deck and promenade above and adjoining Road D3 (Metro Park Section) respectively, some remaining road works at Road L14, noise barrier at Road D3A, and other associated works at the former runway and south apron. The proposed works are shown in Figure 1 and Figure 2. During the course of the Contract No. ED/2018/01, there may be modification of noise barriers in association with the construction of footbridges connecting to the landscaped deck of Road D3A by developers of adjacent lands (Figure 3). The proposed works and site boundary are shown in Figure 4.
- 1.3 Civil Engineering and Development Department (CEDD) had completed an Environmental Impact Assessment (EIA) and is the Permit Holder.
- 1.4 The construction work under ED/2018/01 comprises the EM&A Manuals (EIA Register Nos. AEIAR-130/2009 for Kai Tak Development and EIA Register Nos. AEIAR-170/2013 for Roads D3A and D4A) and Environmental Permit (EP) Nos. EP-337/2009, EP-445/2013 and Variation to the EP (VEP) No. EP-445/2013/A.
- 1.5 Air quality and noise monitoring has been proposed in the EM&A Manual with EIA Register Nos. AEIAR-130/2009 for Kai Tak Development while no air quality and noise monitoring are proposed in EM&A Manual with EIA Register Nos. AEIAR-170/2013 for Roads D3A and D4A.

## **Project Organization**

1.6 The project organization chart and emergency team and with respect to the EM&A programme is shown in Appendix A. Information of key personnel contact names and telephone numbers are summarized in Table 1.1.

*Table 1.1 Contact information of key personnel*

Party	Role	Contact Person	Position	Phone No.	Fax No.
Civil Engineering and Development Department (CEDD)	Project Proponent	Mr. Alex Wong	Senior Engineer	3579 2452	2739 0076
		Ms. Chan Ka Yan	Engineer	3579 2458	2739 0076
AECOM Asia Co. Ltd. (AECOM)	Supervisor (act as Engineers' Representative (ER) listed in EM&A Manual)	Mr. Clive Cheng	CRE	3911 4201	3911 4288
Ramboll Hong Kong Limited (Ramboll)	Independent Environmental Checker (IEC)	Mr. Y H Hui	IEC	3465 2850	3465 2899
Ka Shing Management Consultant Limited (Ka Shing)	Environmental Team (ET)	Mr. Chan Pang	ET Leader	6082 2973	2120 7752
Penta-Ocean Construction Co., Ltd. (Penta-Ocean)	Contractor	Mr. Lulu Mar	Environmental Officer	6845 0626	3465 8898

## **Works Area and Construction Programme**

1.7 The construction works commenced on 20 January 2020. The construction programme of the Project is given in Appendix B.



## Construction works undertaken during reporting period

1.8 Major construction works of the Project in the reporting period are summarized in Table 1.2:

*Table 1.2 Major construction activities in the reporting period*

July 2022	August 2022	September 2022
- North Approach Ramp – Construction of utilities trough	- North Approach Ramp – Construction of utilities trough	- North Approach Ramp – Construction of end wall
- Bridge D3 – Construction of Bridge Deck and abutments	- Bridge D3 – Construction of Bridge Deck	- Bridge D3 – Construction of Bridge Deck
- North Depressed Road – Construction of wall & top slab	- North Depressed Road – Construction of wall & top slab	- North Depressed Road – Construction of central median and profile barrier
- Underpass – Construction of walls and roof slab	- Underpass – Construction of upstand wall	- Underpass – Construction of upstand wall, Panel timber slat installation
- South Approach Ramp – Construction of Permanent Structure	- South Approach Ramp – Construction of Permanent Structure	- South Approach Ramp – Construction of Permanent Structure
- District Cooling System seawater intake box culvert - reinstatement of the seawall and backfilling works	- District Cooling System seawater intake box culvert - reinstatement of the seawall and backfilling works	- District Cooling System seawater intake box culvert - reinstatement of the seawall and backfilling works
- Lift 3 – Modification works	- Lift 3 – Modification works	- Lift 3 – Modification works
- Lift 4 – Construction of linking platform, Installation of glass	- Lift 4 – Construction of lift shaft	- Lift 4 – Construction of lift shaft and glass panel
- South Depressed Road – construction of permanent works	- South Depressed Road – construction of permanent works	- South Depressed Road – construction of permanent works
- Rising Main and Water Pipe – Laying of sewage	- Rising Main and Water Pipe – Laying of sewage	- Rising Main and Water Pipe – Laying of sewage
- Landscaped Deck – Construction of pile caps and installation of columns, construction of Landscaped Deck	- Landscaped Deck – Installation of columns, construction of Landscaped Deck	- Elevated Landscaped Deck – Installation of columns, construction of Landscaped Deck
- Transformer Room - Construction of permanent structure	- Transformer Room - Construction of permanent structure	- Transformer Room - Construction of permanent structure
- Shing Kai Road – Modification works, laying of storm water drainage pipes	- Shing Kai Road – Modification works, laying of storm water drainage pipes	- Shing Kai Road – Modification works, laying of storm water drainage pipes
- Lift 1 & 2 – Installation of ELS system	- Lift 1 & 2 – Installation of ELS system	- Lift 1 & 2 – Installation of ELS system
- CLP substation –	- CLP substation –	- CLP substation – Construction of wall &

July 2022	August 2022	September 2022
<p>Construction of wall &amp; intermediate slab, permeant structure</p> <ul style="list-style-type: none"> <li>- Noise Barrier – Remaining works, Bus lay-by construction</li> <li>- Seawater Intake Box Culvert of Saltwater Pumping Station – Installation of sheetpiles and ELS system</li> </ul>	<p>Construction of wall &amp; intermediate slab, permeant structure</p> <ul style="list-style-type: none"> <li>- Noise Barrier – Remaining works, Bus lay-by construction</li> <li>- Seawater Intake Box Culvert of Saltwater Pumping Station – Installation of sheetpiles and ELS system</li> </ul>	<p>intermediate slab, permeant structure</p> <ul style="list-style-type: none"> <li>- Noise Barrier – Remaining works, Bus lay-by construction</li> <li>- Seawater Intake Box Culvert of Saltwater Pumping Station – Installation of sheetpiles and ELS system</li> </ul>

## 2. SUMMARY OF EM&A REQUIREMENTS AND MONITORING RESULTS

### Monitoring Requirements

2.1 In accordance with EM&A Manuals (EIA Register Nos. AEIAR-130/2009), impact air quality monitoring and impact noise monitoring shall be carried out during the construction phase of the Project.

### Air Quality Monitoring Locations

2.2 Three designated monitoring stations were selected for air quality monitoring programme. Impact air quality monitoring was conducted at three air quality monitoring stations in the reporting period. Table 2.1 describes the air quality monitoring locations, which are also depicted in Figure 5.

*Table 2.1 Locations of air quality monitoring stations*

Air Quality Monitoring Locations for the Project	Location of Measurement
AM3 - Sky Tower	Podium floor near T7
AM4(A) - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop	Rooftop / Ground Floor
AM7 – Hong Kong Children's Hospital	Rooftop

2.3 Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 September 2022. No 24-TSP monitoring was conducted at AM4(A) while 1-hr TSP monitoring at AM4(A) were conducted on the ground floor with orienting to the Project site.

2.4 ET approached the potential sensitive receivers for monitoring station relocation since May 2022. ET conducted site visit in nearby area and found that there was no property management company in most of the nearby premises and could not approach the residents regarding the environmental monitoring. No permission can be applied for environmental monitoring.

2.5 For those premises have property management company, ET sent the proposal to owner / property management company and explained the purpose of environmental monitoring (refer

to Appendix C – Apply permission for Environmental Monitoring). Figure 6 shows the proposed alternative monitoring locations. No permission of setup and entry is received until the reporting period.

2.6 Summary of the status of for proposed alternative monitoring locations for AM4(A) are given in Table 2.2.

*Table 2.2 Proposed alternative monitoring locations for AM4(A)*

Proposed alternative monitoring locations for M11	Status upto reporting month
A1 - The Lok Sin Tong Modular Social Housing Scheme	Rejected application on 13 Oct 2022
A2 - Freder Centre	No reply from building management office
A3 - New Port Centre	No reply from building management office
A4 - 112 - 138 To Kwa Wan Road	No property management company and could not apply the permission.
A5 - 2 - 26 Hok Ling Street	No property management company and could not apply the permission.
A6 - 1 - 27 Hok Ling Street	No property management company and could not apply the permission.
A7 - 2 - 28 Tsun Fat Street	No property management company and could not apply the permission.
A8 - 1 - 27 Tsun Fat Street	No property management company and could not apply the permission.
A9 - 2 - 28 Yin On Street	No property management company and could not apply the permission.
A10 - 1 - 27 Yin On Street	No property management company and could not apply the permission.
A11 - 2 - 28 Shim Luen Street	No property management company and could not apply the permission.
A12 - 1 - 27 Shim Luen Street	No property management company and could not apply the permission.
A13 - 2 - 28 Hung Wan Street	No property management company and could not apply the permission.
A14 - 1 - 27 Hung Wan Street	No property management company and could not apply the permission.
A15 - 2 - 28 Pang Ching Street	No property management company and could not apply the permission.
A16 - 1 - 27 Pang Ching Street	No property management company and could not apply the permission.
A17 - 2 - 28 Ying Yeung Street	No property management company and could not apply the permission.
A18 - 1 - 27 Ying Yeung Street	No property management company and could not apply the permission.
A19 - 2 - 28 Lun Cheung Street	No property management company and could not apply the permission.
A20 - 1 - 27 Lun Cheung Street	No property management company and could not apply the permission.

Proposed alternative monitoring locations for M11	Status upto reporting month
A21 - 2 - 28 Luk Ming Street	No property management company and could not apply the permission.
A22 - 1 - 27 Luk Ming Street	No property management company and could not apply the permission.
A23 - 2 - 28 Fung Yi Street	No property management company and could not apply the permission.

2.7 ET will resume the impact monitoring once the alternative monitoring location for AM4(A) are confirmed.

### **Air Quality Monitoring Parameters, Frequency and Duration**

2.8 The air quality monitoring locations and monitoring frequency are listed in Table 2.3.

*Table 2.3 Air quality monitoring parameters, frequency and duration*

Air Monitoring Station	Location for Measurement	Parameter	Duration	Frequency
AM3 - Sky Tower	Podium floor near T7			
AM4(A) - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop*	Rooftop / Ground Floor*	- 24-hour average TSP	- 24 hours	- Once every 6 days
		- 1-hour average TSP	- 1 hour	- Three times every 6 days
AM7 - Hong Kong Children's Hospital	Rooftop			

NOTE: \* Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 September 2022. No 24-hr TSP monitoring and 1-hour TSP monitoring was conducted on the ground floor outside AM4(A) with facing to the Project Site because of the access limitation since September 2022.

### **Air Quality Monitoring Equipment**

2.6 24-hour average TSP and 1-hour average TSP levels were measured for impact monitoring. 24-hour average TSP levels were measured by the High Volume Samplers (HVS) and 1-hour average TSP levels were measured by direct reading method to indicate short-term impacts. Wind data monitoring equipment was set up at conspicuous locations for logging wind speed and wind direction near to the dust monitoring locations. Table 2.4 summarizes the equipment to be used in the air quality monitoring.

*Table 2.4 Air Quality Monitoring Equipment*

Equipment	Model	Quantity
HVS Sampler	TE-5170 X c/w of TSP sampling inlet	3
Calibrator	TISCH TE-5025A	1
1-hour TSP Dust Meter	TSI Model AM510 SidePak Personal Aerosol Monitor	4
Wind Anemometer	Davis Vantage Pro2 Weather Station	1

2.7 High volume samplers (HVS) (TE-5170 X c/w of TSP sampling inlet) comprising with appropriate sampling inlets were employed for 24-hour TSP monitoring. The sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complied with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50).

### **Air Quality Monitoring Methodology and QA/QC Procedure**

#### ***24-hour TSP Monitoring***

##### **Operating/Analytical Procedures**

2.8 Setup criteria of HVS are shown as follows:

- A horizontal platform with appropriate support to secure the samplers against gusty wind was provided.
- No two samplers were placed less than 2m apart.
- The distance between the sampler and an obstacle, such as buildings, was at least twice the height that the obstacle protrudes above the sampler.
- A minimum of 2m of separation from walls, parapets and penthouses was set for the rooftop samples.
- A minimum of 2m separation from any supporting structure, measured horizontally was set.
- No furnaces or incineration flues was nearby.
- Airflow around the sampler was unrestricted.
- Any wire fence and gate, to protect the samplers, was not caused any obstruction during monitoring.
- Permission were obtained to setup the samplers and to obtain access to the monitoring stations.
- A secured supply of electricity was provided to operate the samplers.

- 2.9 Prior to the commencement of the dust sampling, the flow rate of the HVS was properly set (between 1.1 m<sup>3</sup>/min. and 1.7 m<sup>3</sup>/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.
- 2.10 For TSP sampling, Glass Fiber Filter Media 8" x 10" have a collection efficiency of > 99 % for particles of 0.3 µm diameter were used.
- 2.11 The power supply was checked to ensure the sampler worked properly and then placed any filter media at the designated air monitoring station
- 2.12 The filter holding frame was removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
- 2.13 The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure was sufficient to avoid air leakage at the edges.
- 2.14 The shelter lid was closed and secured with the aluminium strip.
- 2.15 The timer was programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- 2.16 After sampling, the filter was removed from the HVS and put into a clean and labeled seal plastic bag to avoid cross contamination. The elapsed time was also be recorded. The sampled filters were sent to the HOKLAS accredited or other internationally accredited laboratory for weighting.

#### Maintenance/Calibration

- 2.17 The following maintenance/calibration are required for the HVS:
- The HVS and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply are in good working condition.
  - High volume samplers were calibrated with at bi-monthly intervals using TE-5025A Calibration Kit throughout all stages of the air quality monitoring.

## ***1-hour TSP Monitoring***

### Measurement Procedures

2.18 The measurement procedures of the 1-hour TSP were conducted in accordance with the Manufacturer's Instruction Manual as follows:

- Set up the dust meter on a tripod at 1.2m level.
- Turned on the dust meter and check the battery, if too low, change new ones. Pointed the meter to the source area or the planned measurement area.
- The zero calibration of the instrument was conducted before and after each sampling.
- TSP levels were recorded for 1-hour with 5-minute data logging interval.
- Recorded down the general meteorological conditions, Test ID no., start/end time, spot checking reading at each sampling location for data processing.
- Recorded any activities that may generate dust during measurement period.

### Maintenance/Calibration

2.19 The following maintenance/calibration are required for the direct dust meters:

- To validity the accuracy of dust meter, compare the results measured by dust meter and HVS by direct reading method every 12 months throughout all stages of the air quality monitoring.

## **Wind Data Monitoring**

2.20 Wind Anemometer was installed at the roof-top of AM7 - Hong Kong Children's Hospital with 10m above ground and clear of constructions or turbulence caused by the buildings to record wind speed and wind direction.

2.21 Details of weather information during the monitoring period are shown in Appendix D.

## **Impact Air Quality Action and Limit Levels**

2.22 The Action and Limit Levels of 24-hour average TSP and 1-hour average TSP are summarized



in Table 2.5 and Table 2.6 respectively.

*Table 2.5 Action and Limit Levels of 24-hour average TSP for construction dust monitoring*

Parameter	Air Monitoring Station	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
24-hour average TSP	AM3	182	260
	AM4(A)	187	260
	AM7	181	260

*Table 2.6 Action and Limit Levels of 1-hour average TSP for construction dust monitoring*

Parameter	Air Monitoring Station	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
1-hour average TSP	AM3	297	500
	AM4(A)	326	500
	AM7	315	500

### **Impact Air Quality Monitoring results**

2.23 Impact monitoring results for 24-hour average TSP and 1-hour average TSP levels at the designed air quality monitoring stations are summarized in Table 2.7 and Table 2.8 respectively.

*Table 2.7 Summary of 24-hour average TSP monitoring data during the reporting period*

Air Monitoring Station	July 2022		August 2022		September 2022		Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
	24-hr Average TSP Concentration, $\mu\text{g}/\text{m}^3$	Range, $\mu\text{g}/\text{m}^3$	24-hr Average TSP Concentration, $\mu\text{g}/\text{m}^3$	Range, $\mu\text{g}/\text{m}^3$	24-hr Average TSP Concentration, $\mu\text{g}/\text{m}^3$	Range, $\mu\text{g}/\text{m}^3$		
AM3	49	31 – 75	39	20 – 58	88	75 – 101	182	260
AM4(A)*	55	39 – 70	47	33 – 69	/	/ – /	187	260
AM7	54	20 – 86	41	28 – 73	90	79 – 104	181	260

NOTE: \* Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 September 2022. No 24-TSP monitoring was conducted at AM4(A) because of the assess limitation since the September 2022.

*Table 2.8 Summary of 1-hour average TSP monitoring data during the reporting period*

Air Monitoring Station	July 2022		August 2022		September 2022		Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
	1-hr Average TSP Concentration, $\mu\text{g}/\text{m}^3$	Range, $\mu\text{g}/\text{m}^3$	1-hr Average TSP Concentration, $\mu\text{g}/\text{m}^3$	Range, $\mu\text{g}/\text{m}^3$	1-hr Average TSP Concentration, $\mu\text{g}/\text{m}^3$	Range, $\mu\text{g}/\text{m}^3$		
AM3	41	27 – 62	38	30 – 55	75	54 – 108	297	500
AM4(A)*	46	31 – 64	43	35 – 59	89	70 – 114	326	500
AM7	45	22 – 71	36	22 – 66	82	66 – 127	315	500

NOTE: \*Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 September 2022. 1-hour TSP monitoring was conducted on the ground floor outside AM4(A) with facing to the Project Site because of the access limitation since September 2022

2.24 There was no Action and Limit Level exceedance of 24-hour average TSP and 1-hour average TSP levels recorded during the reporting period.

2.25 Graphical presentation and detailed monitoring results of 24-hour average TSP and 1-hour average TSP levels are shown in Appendix E.

2.26 The Event and Action Plan is provided in Appendix F.

2.27 Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.

### **Noise Monitoring Locations**

2.28 Two designated monitoring stations were selected for noise monitoring programme. Impact noise monitoring was conducted at two noise monitoring stations in the reporting period. Table 2.9 describes the noise monitoring locations, which are also depicted in Figure 7.

*Table 2.9 Locations of noise monitoring stations*

Noise Monitoring Locations for the Project	Location of Measurement
M11 - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop	Rooftop / Ground Floor (Façade)
M12 - Hong Kong Children's Hospital	Rooftop (Façade)

2.29 Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (M11), the premises owner rejected ET to conduct impact monitoring since 1 September 2022.

2.30 ET approached the potential sensitive receivers for monitoring station relocation since May 2022. ET conducted site visit in nearby area and found that there was no property management company in most of the nearby premises and could not approach the residents regarding the environmental monitoring. No permission can be applied for environmental monitoring.

2.31 For those premises have property management company, ET sent the proposal to owner / property management company and explained the purpose of environmental monitoring (refer to Appendix C – Apply permission for Environmental Monitoring). Figure 8 shows the proposed alternative monitoring locations. No permission of setup and entry is received until the reporting period.

2.32 Summary of the status of for proposed alternative monitoring locations for M11 are given in Table 2.10.

*Table 2.10 Proposed alternative monitoring locations for M11*

Proposed alternative monitoring locations for M11	Status upto reporting month
A1 - The Lok Sin Tong Modular Social Housing Scheme	Rejected application on 13 Oct 2022
A2 - Freder Centre	No reply from building management office
A3 - New Port Centre	No reply from building management office
A4 - 112 - 138 To Kwa Wan Road	No property management company and could not apply the permission.
A5 - 2 - 26 Hok Ling Street	No property management company and could not apply the permission.
A6 - 1 - 27 Hok Ling Street	No property management company and could not apply the permission.
A7 - 2 - 28 Tsun Fat Street	No property management company and could not apply the permission.
A8 - 1 - 27 Tsun Fat Street	No property management company and could not apply the permission.
A9 - 2 - 28 Yin On Street	No property management company and could not apply the permission.
A10 - 1 - 27 Yin On Street	No property management company and could not apply the permission.
A11 - 2 - 28 Shim Luen Street	No property management company and could not apply the permission.
A12 - 1 - 27 Shim Luen Street	No property management company and could not apply the permission.
A13 - 2 - 28 Hung Wan Street	No property management company and could not apply the permission.
A14 - 1 - 27 Hung Wan Street	No property management company and could not apply the permission.
A15 - 2 - 28 Pang Ching Street	No property management company and could not apply the permission.
A16 - 1 - 27 Pang Ching Street	No property management company and could

Proposed alternative monitoring locations for M11	Status upto reporting month
	not apply the permission.
A17 - 2 - 28 Ying Yeung Street	No property management company and could not apply the permission.
A18 - 1 - 27 Ying Yeung Street	No property management company and could not apply the permission.
A19 - 2 - 28 Lun Cheung Street	No property management company and could not apply the permission.
A20 - 1 - 27 Lun Cheung Street	No property management company and could not apply the permission.
A21 - 2 - 28 Luk Ming Street	No property management company and could not apply the permission.
A22 - 1 - 27 Luk Ming Street	No property management company and could not apply the permission.
A23 - 2 - 28 Fung Yi Street	No property management company and could not apply the permission.

2.33 ET will resume the impact monitoring once the alternative monitoring location for M11 are confirmed.

### **Noise Monitoring Parameters, Frequency and Duration**

2.34 The noise monitoring locations and monitoring frequency are listed in Table 2.11.

*Table 2.11 Noise monitoring parameters, frequency and duration*

Noise Monitoring Station	Location for Measurement	Parameter	Frequency and Duration
M11 - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop*	Rooftop / Ground Floor (Façade)*	L <sub>Aeq</sub> , L <sub>A10</sub> and L <sub>A90</sub>	30 - minutes measurement at each monitoring station between 0700 – 1900 hrs on normal weekdays (Monday to Saturday) at frequency of once per week.
M12 - Hong Kong Children's Hospital	Rooftop (Façade)		

NOTE: \*Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (M11), the premises owner rejected ET to conduct impact monitoring since 1 September 2022. Construction noise monitoring was conducted on the ground floor outside M11 with facing to the Project Site because of the access limitation since September 2022.

### **Noise Monitoring Equipment**

2.35 As referred to in the Technical Memorandum (TM) issued under the Noise Control Ordinance

(NCO), sound level meters in compliance with the IEC 61672-1 (Type 1) standard [this standard replaced the International Electrotechnical Commission Publications 60651:1979 (Type 1) and 60804:1985 (Type 1)] were used for noise monitoring. Table 2.12 summarizes the equipment to be used in the noise monitoring.

*Table 2.12 Noise Monitoring Equipment*

Equipment	Model	Quantity
Sound Level Meter	RION NL52	5
Sound Level Calibrator	RION NC 74	2
Sound Level Calibrator	RION NC 75	1
Air Flowmeter	TSI TA440 Air Velocity	2

### **Monitoring Methodology and QA/QC Procedure**

2.36 The noise level measurement was conducted at 1m from the exterior of the nearby noise sensitive receivers building façade and at 1.2m above the ground and facing to the source area or the planned measurement area.

2.37 No noise measurement was conducted in the presence of fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. Air flow was measured by air flow meter.

2.38 Turned on the sound level meter and check the battery, if too low, change new ones.

2.39 Calibration was conducted immediately prior to and after each noise measurement, the accuracy of the sound level meters was checked by using sound calibrator generating 1,000 Hz with 94dB. Measurement data was found to be valid only if the calibration levels from before and after the noise measurement agreed to within 1.0 dB.

2.40 Noise level was recorded.

2.41 Recorded any activities that may generate noise during measurement period.

### **Maintenance and Calibration**

2.42 The microphone head of the sound level meter and calibrator was cleaned with a soft cloth at

quarterly intervals.

2.43 The sound level meter and sound calibrator were calibrated annually.

2.44 Calibration for sound level meter was conducted immediately prior to and following each noise measurement by using sound calibrator generating a known sound pressure level at a known frequency (1,000 Hz with 94dB). Measurements may be accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

**Impact Noise Action and Limit Levels**

2.45 The Baseline Noise Levels and Action and Limit Levels for construction noise is presented in Table 2.13.

*Table 2.13 Baseline noise level and Action and Limit Levels for construction noise monitoring*

Time Period	Noise Monitoring Station	Baseline Noise Levels, dB (A)	Action Level	Limit Level <sup>^</sup>
0700 – 1900 on normal weekdays	M11	68.3	When one documented complaint is received.	75 dB(A)
	M12	61.9		

Note: ^ If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

**Impact Noise Monitoring results**

2.46 Impact noise monitoring results at the designed noise monitoring stations are summarized in Table 2.14.

*Table 2.14 Summary of noise monitoring data during the reporting period*

Noise Monitoring Station	July 2022		August 2022		September 2022		Action Level	Limit Level <sup>^</sup>
	Measured L <sub>Aeq, 30-min</sub> , Average, dB(A)	Measured L <sub>Aeq, 30-min</sub> , Range, dB(A)	Measured L <sub>Aeq, 30-min</sub> , Average, dB(A)	Measured L <sub>Aeq, 30-min</sub> , Range, dB(A)	Measured L <sub>Aeq, 30-min</sub> , Average, dB(A)	Measured L <sub>Aeq, 30-min</sub> , Range, dB(A)		
M11	66.2	59.5 – 68.0	68.1	61.1 – 69.6	72.4	71.4 – 73.4	When one documented complaint is received.	75 dB(A)
M12	67.3	63.2 – 70.7	65.4	59.9 – 68.3	65.7	64.9 – 67.3		

Note: ^ If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit

(CNP) issued by the Noise Control Authority have to be followed.

2.47 There were no Action Level exceedance of noise monitoring and Limit Level exceedance of  $L_{Aeq, 30min}$  recorded during the reporting period.

2.48 Graphical presentation and detailed monitoring results of impact noise are shown in Appendix E.

2.49 The Event and Action Plan is provided in Appendix F.

2.50 Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.

### **Comparison of EM&A Results with EIA Predictions**

2.51 The environmental impacts predictions were given in Agreement No. CE 35/2006(CE) Kai Tak Development Engineering Study cum Design and Construction of Advance Works - Investigation, Design and Construction - Kai Tak Development Environmental Impact Assessment Report, EIA Register Nos. AEIAR-130/2009 for Kai Tak Development (The EIA Report). The EM&A data was compared with the EIA predictions as summarized in Table 2.15 to Table 2.17.

*Table 2.15 Comparison of 24-hour average TSP monitoring data with EIA predictions*

Air Monitoring Station	ASR No. in EIA report	Predicted Cumulative Maximum 24-hr average TSP concentration		Measured 24-hr average TSP in Reporting Month (July 2022), $\mu\text{g}/\text{m}^3$	Measured 24-hr average TSP in Reporting Month (August 2022), $\mu\text{g}/\text{m}^3$	Measured 24-hr average TSP in Reporting Month (September 2022), $\mu\text{g}/\text{m}^3$
		Scenario 1 (Mid 2009 to Mid 2013), $\mu\text{g}/\text{m}^3$	Scenario 2 (Mid 2013 to Late 2016), $\mu\text{g}/\text{m}^3$			
AM3 - Sky Tower	A40^	106	138	31 – 75	20 – 58	75 – 101
AM4(A) - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop	A43^	123	195	39 – 70	33 – 69	/ – /*
AM7 – Hong Kong Children's Hospital	PA60	NA	NA	20 – 86	28 – 73	79 – 104

Note:

^ Prediction results are given in the Table 3.13 of the EIA report EIA Register Nos. AEIAR-130/2009 for Kai Tak

Development.

\* Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. No 24-TSP monitoring was conducted at AM4(A) because of the assess limitation in the September 2022.

*Table 2.16 Comparison of 1-hour average TSP monitoring data with EIA predictions*

Air Monitoring Station	ASR No. in EIA report	Predicted Cumulative Maximum 1-hour average TSP concentration		Measured 1-hr average TSP in Reporting Month (July 2022), $\mu\text{g}/\text{m}^3$	Measured 1-hr average TSP in Reporting Month (August 2022), $\mu\text{g}/\text{m}^3$	Measured 1-hr average TSP in Reporting Month (September 2022), $\mu\text{g}/\text{m}^3$
		Scenario 1 (Mid 2009 to Mid 2013), $\mu\text{g}/\text{m}^3$	Scenario 2 (Mid 2013 to Late 2016), $\mu\text{g}/\text{m}^3$			
AM3 - Sky Tower	A40	217 <sup>^</sup>	247 <sup>^</sup>	27 – 62	30 – 55	54 – 108
AM4(A) - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop	A43	283 <sup>^</sup>	409 <sup>^</sup>	31 – 64	35 – 59	70 – 114*
AM7 – Hong Kong Children's Hospital	PA60	NA	NA	22 – 71	22 – 66	66 – 127

Note:

<sup>^</sup> Prediction results are given in the Table 3.13 of the EIA report EIA Register Nos. AEIAR-130/2009 for Kai Tak Development.

\* Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. 1-hour TSP monitoring was conducted on the ground floor outside AM4(A) with facing to the Project Site because of the access limitation in the September 2022.

*Table 2.17 Comparison of noise monitoring data with EIA predictions*

Noise Monitoring Station	NSR No. in EIA report	Predicted Mitigated Construction Noise Levels during Normal Daytime Working Hour $L_{Aeq, 30min}, \text{dB(A)}$	Measured Noise Level in Reporting Month (July 2022) $L_{Aeq, 30min}, \text{dB(A)}$	Measured Noise Level in Reporting Month (August 2022) $L_{Aeq, 30min}, \text{dB(A)}$	Measured Noise Level in Reporting Month (September 2022) $L_{Aeq, 30min}, \text{dB(A)}$
M11 - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop	N18	50 – 76 <sup>^</sup>	59.5 – 68.0	61.1 – 69.6	71.4 – 73.4*
M12 - Hong Kong Children's Hospital	PN83, PN84, PN84A	NA	63.2 – 70.7	59.9 – 68.3	64.9 – 67.3

Note

<sup>^</sup> Prediction results are given in the Table 3.20 of the EIA report EIA Register Nos. AEIAR-130/2009 for Kai Tak Development.

\* Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (M11), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. Construction noise monitoring was



conducted on the ground floor outside M11 with facing to the Project Site because of the access limitation in the September 2022.

2.52 For AM3, 24-hour TSP monitoring results recorded in July, August and September 2022 were lower than the prediction in the EIA Report. Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.

2.53 For AM4(A), 24-hour TSP monitoring results recorded in July to August 2022 were lower than the prediction in the EIA Report. Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results. Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. No 24-TSP monitoring was conducted at AM4(A) because of the assess limitation in the September 2022.

2.54 No prediction in the EIA Report for 24-hour TSP monitoring results at AM7.

2.55 1-hour TSP monitoring results at AM3 and AM4(A) recorded in the reporting period were recorded lower than the prediction in the EIA Report. Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. 1-hour TSP monitoring was conducted on the ground floor outside AM4(A) with facing to the Project Site because of the access limitation in the September 2022. Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.

2.56 No prediction in the EIA Report for 1-hour TSP monitoring results at AM7.

2.57 Noise monitoring results at M11 recorded in the reporting period were lower than the prediction in the EIA Report. Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (M11), the premises owner rejected ET to conduct impact monitoring since 1 September 2022. Construction noise monitoring was conducted on the ground floor outside M11 with facing to the Project Site because of the access limitation in the September 2022. Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.

2.58 No prediction in the EIA Report for noise monitoring results at M12.

### 3. LANDSCAPE AND VISUAL MONITORING

3.1 In accordance with EM&A Manuals (EIA Register Nos. AEIAR-130/2009 and AEIAR-170/2013), Landscape and Visual Monitoring shall be carried out during the construction phase of the Project. Regular impact monitoring will be conducted at least once per week.

3.2 Site inspections were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.

3.3 The summaries of site audits are attached in Table 3.1.

*Table 3.1 Summary of observations of Landscape and Visual impact during the reporting period*

Inspection Date	Key Observations	Recommendations / Actions	Close-out Date / Status
07 July 2022	NA	NA	NA
12 July 2022	NA	NA	NA
21 July 2022	NA	NA	NA
28 July 2022	NA	NA	NA
04 August 2022	NA	NA	NA
12 August 2022	NA	NA	NA
18 August 2022	NA	NA	NA
25 August 2022	NA	NA	NA
01 September 2022	NA	NA	NA
08 September 2022	NA	NA	NA
15 September 2022	NA	NA	NA
21 September 2022	NA	NA	NA
29 September 2022	NA	NA	NA

3.4 Should non-compliance of the landscape and visual impact occur, action in accordance with the action plan presented in Appendix F shall be performed.

## **4. SOLID AND LIQUID WASTE MANAGEMENT**

- 4.1 The number of wastes generated by the major site activities of the work contracts within the Project during the reporting period is shown in Appendix F.
- 4.2 The Contractor was registered as a chemical waste producer for the Project. The Contractor was reminded that chemical waste containers should be properly treated and stored temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.
- 4.3 Mitigation measures recommended in the EIA Report were implemented by the Contractor where applicable and were considered effective in reduction the waste generation during the reporting period.

## 5. ENVIRONMENTAL SITE INSPECTION AND AUDIT

### Site Inspection

- 5.1 Site inspections were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.
- 5.2 All follow-up actions requested by ET and/or IEC during site inspections were undertaken by the Contractor and ET reviewed the effectiveness in the following weekly site inspection.
- 5.3 The summaries of site audits are attached in Table 5.1.

*Table 5.1 Summary of site inspections observations during the reporting period*

Inspection Date	Key Observations / Recommendations	Actions	Close-out Date / Status
07 July 2022	Observation: The accumulated waste should be removed.	Action Taken: The waste has been removed.	Closed-out on 12 July 2022
12 July 2022	Observation: The chemical used for wastewater treatment should be stored in proper area with cover.	Action Taken: The chemical used for wastewater treatment has been removed.	Closed-out on 21 July 2022
21 July 2022	Observation: Secondary container should be provided for the diesel drum to prevent soil contamination in D3 Bridge.	Action Taken: Secondary container was provided.	Closed-out on 28 July 2022
28 July 2022	Observation: The accumulated waste should be removed.	Action Taken: The accumulated waste was cleared.	Closed-out on 04 August 2022
04 August 2022	NA	NA	NA
12 August 2022	NA	NA	NA
18 August 2022	NA	NA	NA
25 August 2022	Observation: All temporary and permanent drainage pipes and culverts should be regularly inspected and maintained to ensure proper and	Action Taken: All temporary and permanent drainage pipes and culverts were maintained properly to ensure proper and efficient operation.	Closed-out on 01 September 2022

Inspection Date	Key Observations / Recommendations	Actions	Close-out Date / Status
	efficient operation.		
	Observation: Drip tray should be provided for the diesel drum to prevent soil contamination in D3 Bridge.	Action Taken: The diesel container was removed.	Closed-out on 01 September 2022
01 September 2022	Observation: The accumulated waste should be removed.	Action Taken: The accumulated waste was cleared.	Closed-out on 08 September 2022
08 September 2022	NA	NA	NA
15 September 2022	Observation: The QPME label for the generator was missing. Please ensure the label was properly demonstrated.	Action Taken: The QPME label has been display on the generator.	Closed-out on 21 September 2022
21 September 2022	NA	NA	NA
29 September 2022	NA	NA	NA

### **Implementation Status of Environmental Mitigation Measures**

5.4 The Contractor has implemented environmental mitigation measures and requirement as stated in the EIA reports, the EPs and the EM&A Manuals. The implementation status of the mitigation measures during the reporting period is summarized in Appendix H.

## 6. SUMMARY OF NON-COMPLIANCE STATUS

### Breaches of Action and Limit Levels

- 6.1 1-hour TSP monitoring was conducted as scheduled in the reporting period. No Action/Limit Level exceedance was recorded.
- 6.2 24-hour TSP monitoring was conducted as scheduled in the reporting period. No Action/Limit Level exceedance was recorded.
- 6.3 Construction noise monitoring was conducted as scheduled in the reporting period. No Action/Limit Level exceedance was recorded.
- 6.4 Summary of the non-compliance in the reporting period for the Project is tabulated in Table 6.1.

*Table 6.1 Non-compliance record in the reporting period*

Parameter	Reporting Period	No. of Exceedance		Action Taken
		Action Level	Limit Level	
1-hr TSP	July 2022	0	0	N/A
	August 2022	0	0	N/A
	September 2022	0	0	N/A
24-hr TSP	July 2022	0	0	N/A
	August 2022	0	0	N/A
	September 2022	0	0	N/A
Construction noise	July 2022	0	0	N/A
	August 2022	0	0	N/A
	September 2022	0	0	N/A

### Environmental Complaint and Non-compliance

- 6.5 No complaint was received in the reporting period. Summary of complaints in the reporting period is tabulated in Table 6.2.

*Table 6.2 Summary of complaints in the reporting period*

Date of complaint received	Date of complaint	Description of complaint	Investigation / Recommendations / Action take	Close-out date / Status
No complaint was received in the reporting period.	NA	NA	NA	NA

6.6 Complaint log is shown in Appendix H.

**Notifications of summons and successful prosecutions**

6.7 No notification of summons and successful prosecutions was received in the reporting period. Summary of summons and successful prosecutions in the reporting period is tabulated in Table 6.3.

*Table 6.3 Summary of summons and successful prosecutions in the reporting period*

Date of receiving notification of summons or prosecutions	Date of event	Description of event	Action take	Close-out date / Status
No notification of summons and successful prosecutions were received in the reporting period.	NA	NA	NA	NA

6.8 The summaries of cumulative environmental complaint, warning, summon and notification of successful prosecution for the Project is presented in Appendix H.

## 7. COMMENTS, RECOMMENDATIONS AND CONCLUSIONS

### Comments

- 7.1 Mitigation measures in the EM&A Manuals were implemented during the reporting period. The effectiveness and efficiency of the mitigation measures were reviewed during the weekly environmental site inspection and audit.
- 7.2 Environmental monitoring works (air quality and construction noise) were performed in the reporting period to monitor the environmental impacts from the Project site.
- 7.3 Based on the observations from the site inspection and reviewing the environmental monitoring results, it would be considered that the mitigation measures were effective and efficient in controlling the environmental impacts generated from the construction activities of the Project site.

### Recommendations

- 7.4 During the weekly environmental site inspection and audit performed in the reporting period, the following recommendations were provided:

*Table 7.1 Summary of recommendations / reminders made in site inspections during the reporting period*

Inspection Date	Recommendations / Reminder
07 July 2022	The accumulated waste should be removed.
12 July 2022	The chemical used for wastewater treatment should be stored in proper area with cover.
21 July 2022	Secondary container should be provided for the diesel drum to prevent soil contamination in D3 Bridge.
28 July 2022	The accumulated waste should be removed.
04 August 2022	NA
12 August 2022	NA
18 August 2022	NA
25 August 2022	All temporary and permanent drainage pipes and culverts should be regularly inspected and maintained to ensure proper and efficient operation.
	Drip tray should be provided for the diesel drum to prevent soil contamination in D3 Bridge.

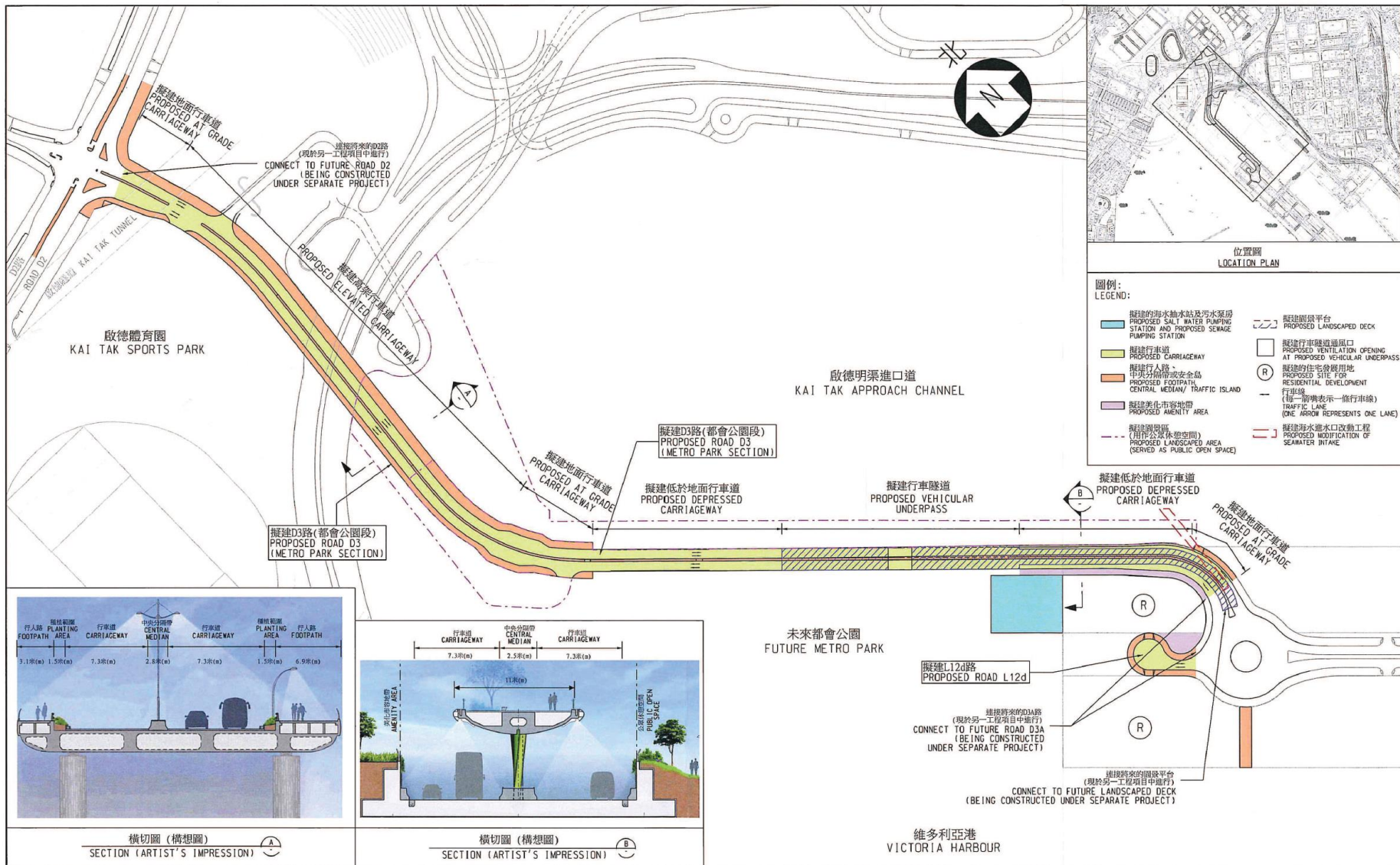


Inspection Date	Recommendations / Reminder
01 September 2022	The accumulated waste should be removed.
08 September 2022	NA
15 September 2022	The QPME label for the generator was missing. Please ensure the label is properly demonstrated.
21 September 2022	NA
29 September 2022	NA

## **Conclusions**

- 7.5 Environmental monitoring works were performed in the reporting period and all monitoring results were checked and reviewed.
- 7.6 1-hour TSP monitoring was conducted as scheduled in the reporting period. No Action/Limit Level exceedance was recorded. Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 September 2022. 1-hour TSP monitoring was conducted on the ground floor outside AM4(A) with facing to the Project Site because of the access limitation since September 2022.
- 7.7 24-hour TSP monitoring was conducted as scheduled in the reporting period. No Action/Limit Level exceedance was recorded. Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 September 2022. No 24-hour TSP monitoring was conducted at AM4(A) because of the assess limitation since September 2022.
- 7.8 Construction noise monitoring was conducted as scheduled in the reporting period. No Action/Limit Level exceedance was recorded. Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (M11), the premises owner rejected ET to conduct impact monitoring since 1 September 2022. Impact monitoring was conducted on the ground floor outside M11 with facing to the Project Site because of the access limitation since September 2022.
- 7.9 No complaint was received in the reporting period.
- 7.10 No notification of summons and successful prosecutions was received in the reporting period.

**Figure**



圖則名稱 drawing title

合約編號 ED/2018/01 - 啟德發展計劃 - 前跑道及南面停機坪第四期基礎設施  
CONTRACT NO. ED/2018/01 - KAI TAK DEVELOPMENT -  
STAGE 4 INFRASTRUCTURE AT THE FORMER RUNWAY AND SOUTH APRON

FIGURE 1

Figure 1 – Proposed works of Contract No. ED/2018/01

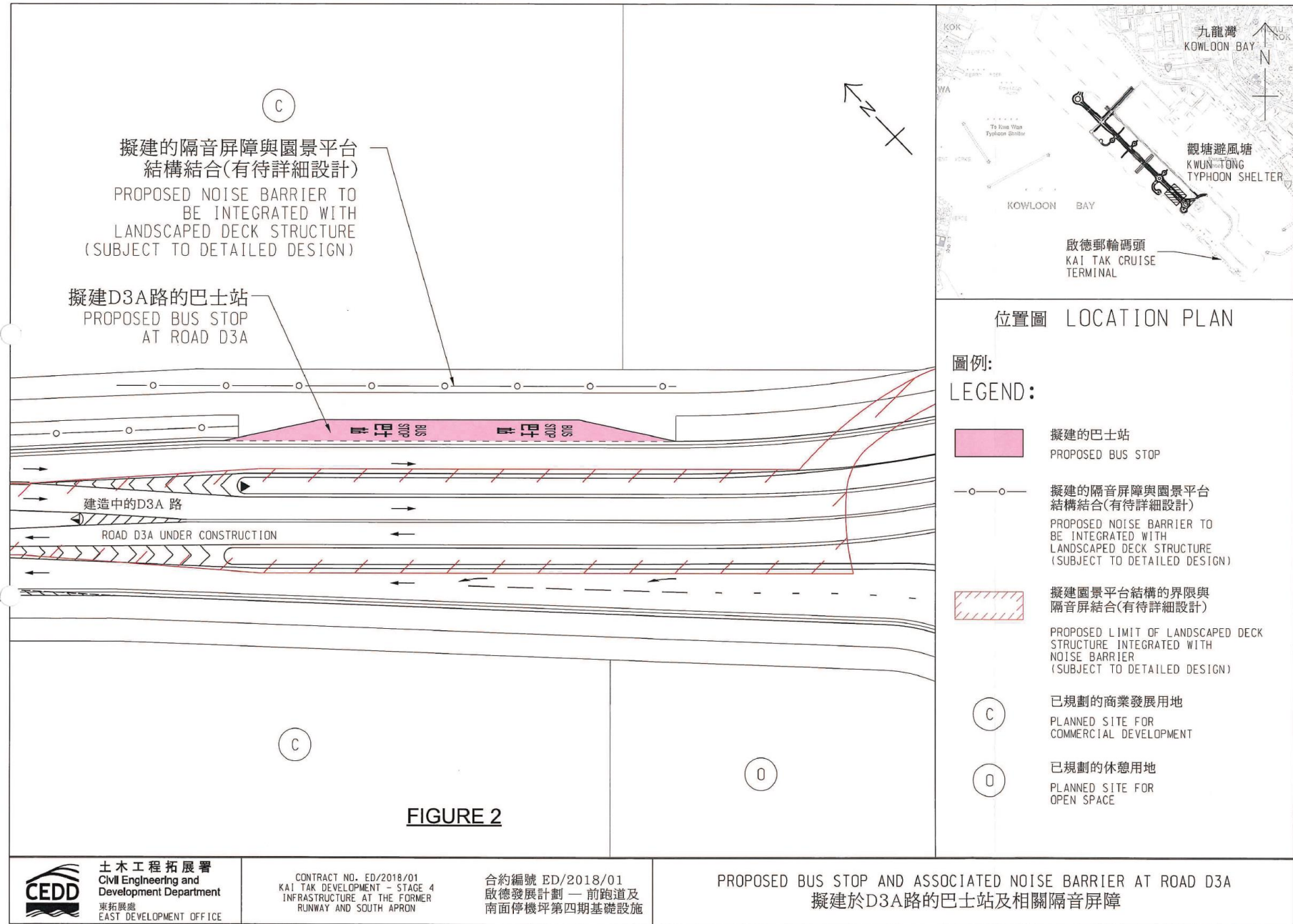
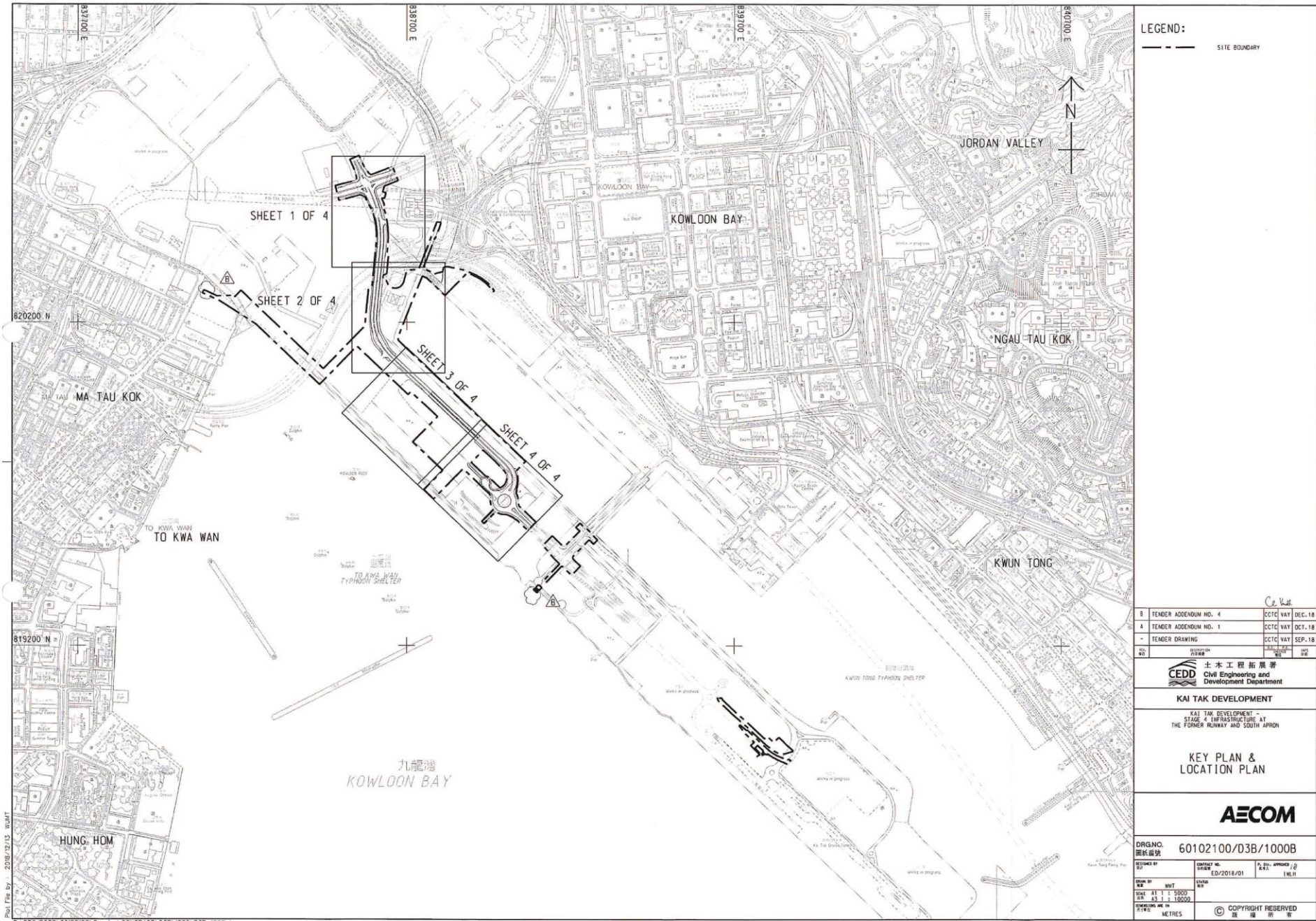


Figure 2 – Proposed Bus Stop And Associated Noise Barrier At Road D3A





Figure 3 – Future Pedestrian Connection Between Landscaped Deck And Private Developments



LEGEND:  
 --- SITE BOUNDARY

B	TENDER ADDENDUM NO. 4	CCTC VAY	DEC. 18
A	TENDER ADDENDUM NO. 1	CCTC VAY	DEC. 18
-	TENDER DRAWING	CCTC VAY	SEP. 18

CE 102  
 CEDD 土木工程拓展署  
 Civil Engineering and  
 Development Department

KAI TAK DEVELOPMENT  
 KAI TAK DEVELOPMENT -  
 STAGE 4 INFRASTRUCTURE AT  
 THE FORMER RUNWAY AND SOUTH APRON

KEY PLAN &  
 LOCATION PLAN

**AECOM**

DRGNO. 圖紙編號	60102100/D3B/1000B		
DESIGNED BY 設計	CONTRACT NO. 合約編號	DATE 日期	APPROVED BY 核准
	ED-2018/D1		IMEH
SHEET NO. 圖紙編號	SCALE 比例尺	DATE 日期	
43	A1 1:5000 A3 1:10000		
REVISION NO. 修訂編號	METRES		
	© COPYRIGHT RESERVED 版權保留		

Figure 4 – Site Layout Plan



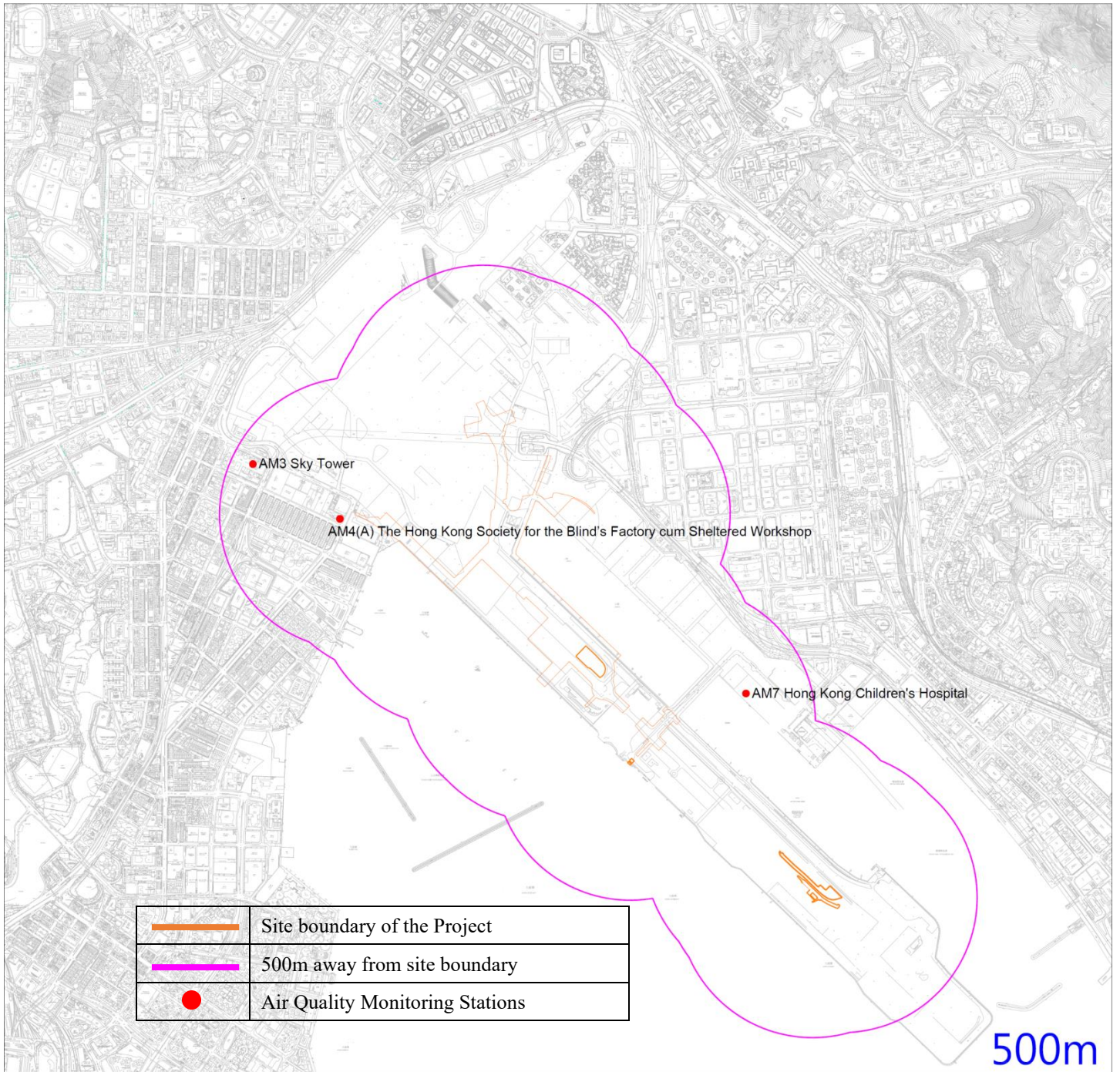


Figure 5 – Air Quality Monitoring Stations



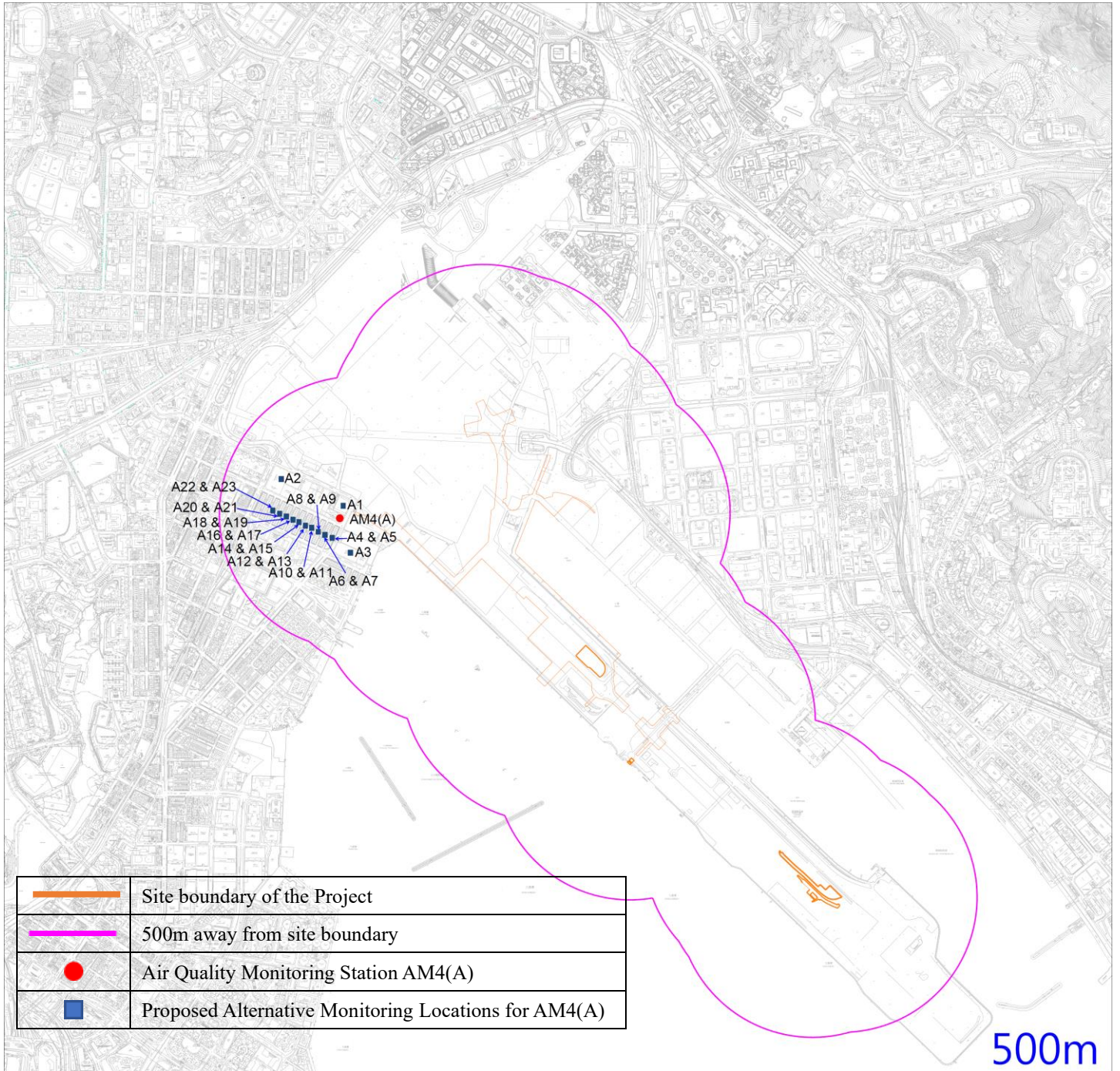


Figure 6 – Proposed Alternative Monitoring Locations for AM4(A)



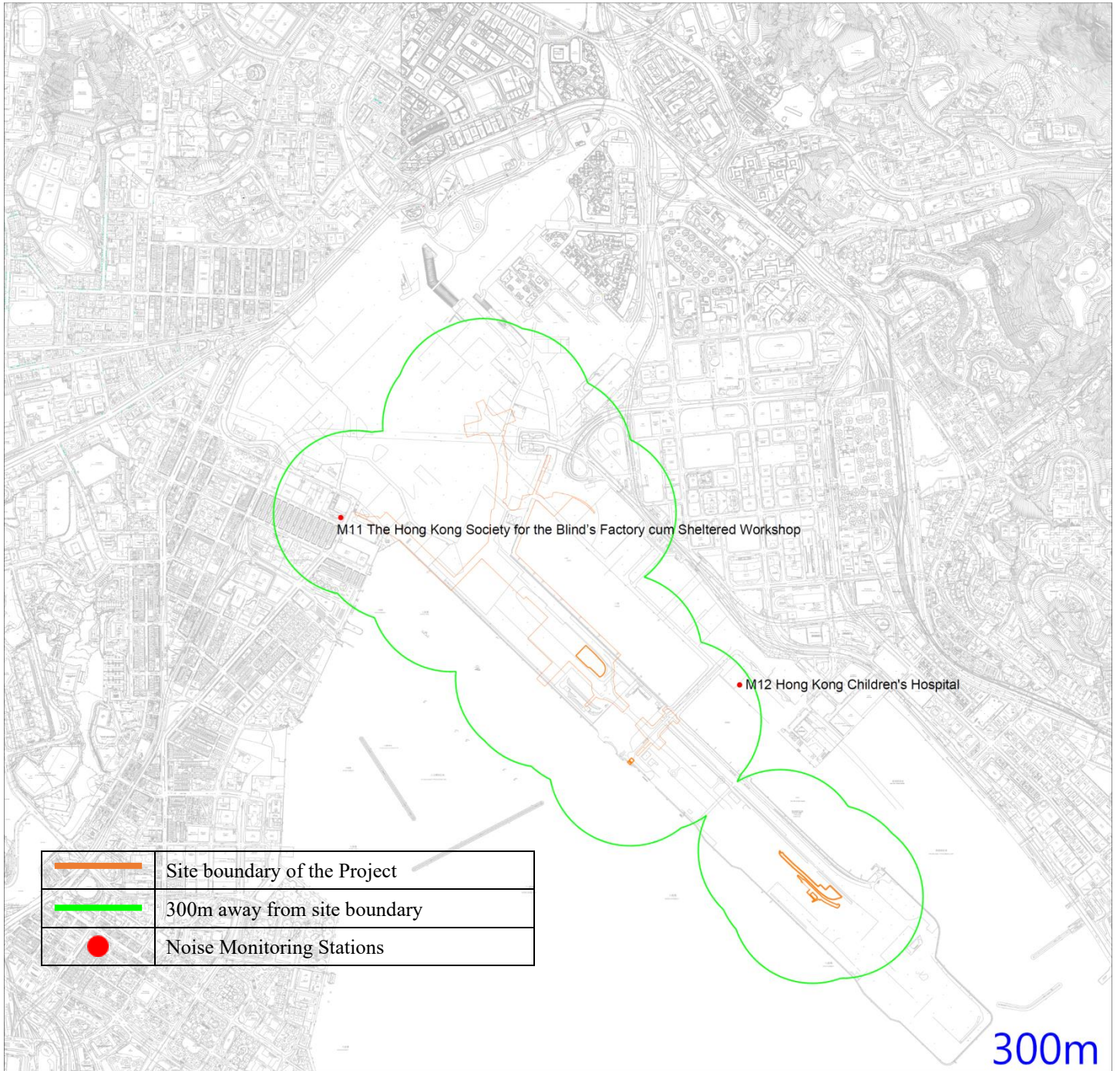


Figure 7 – Noise Monitoring Stations



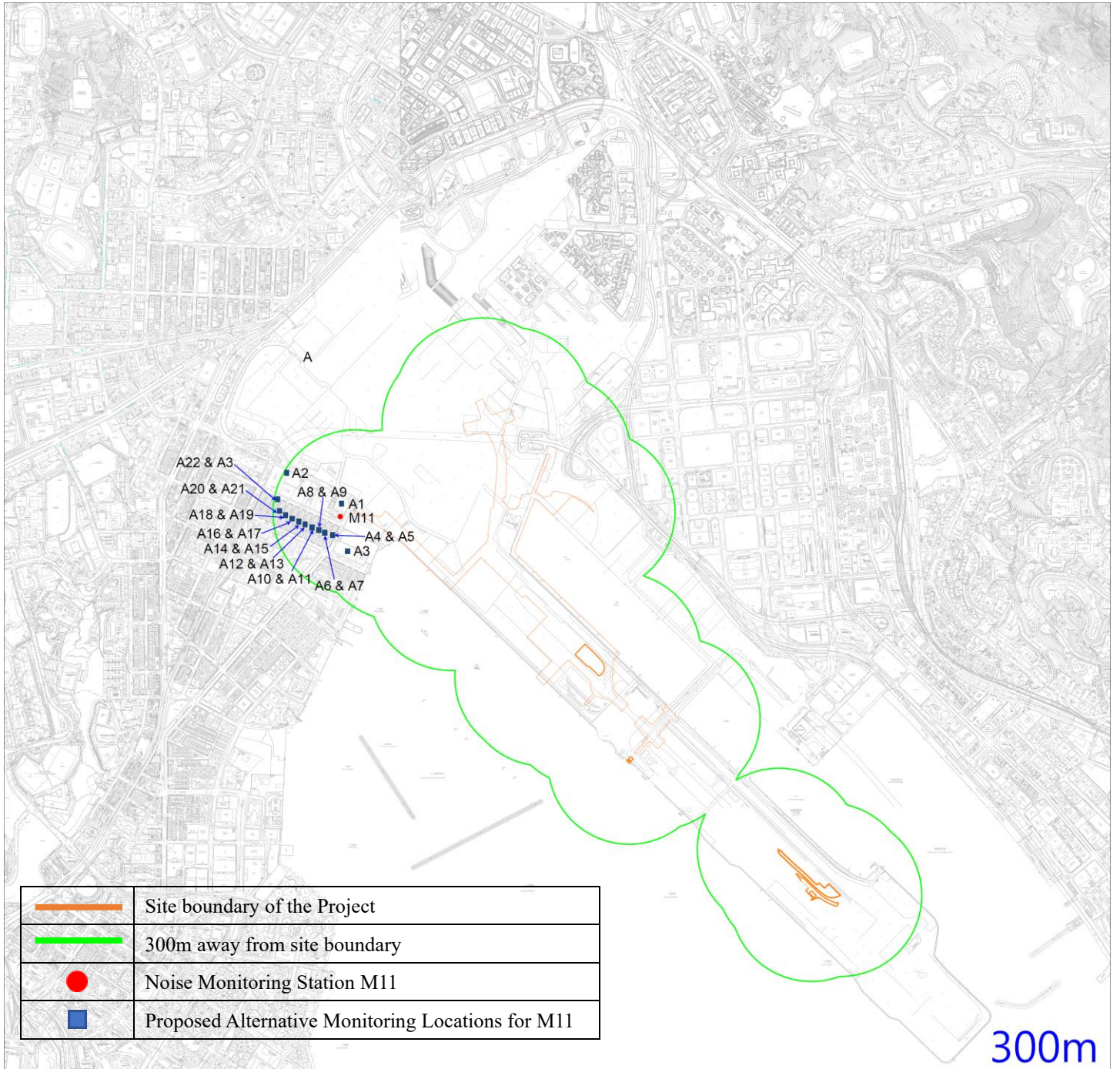
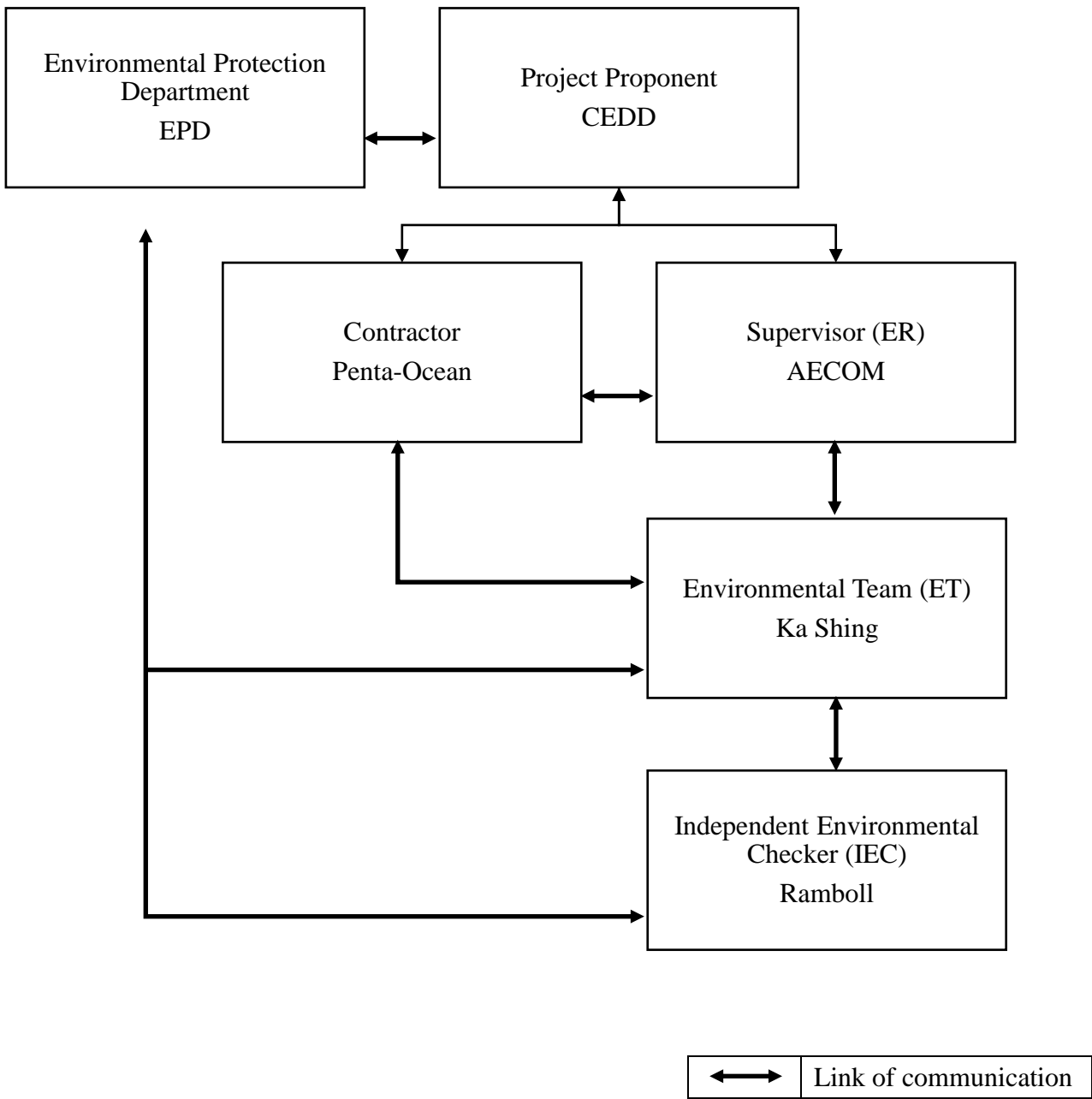


Figure 8 – Proposed Alternative Monitoring Locations for M11

# **Appendix A – Organization Chart of EM&A Team and Emergency Team**



**Penta-Ocean Construction Co., Ltd**

Contract No. ED/2018/01 –Kai Tak development –  
stage 4 infrastructure at the former runway and south apron



**緊急應變小組成員及聯絡電話 Emergency Team Contact List**

NAME 姓名	TEAM MEMBER 成員	POSITION 職位	TEL. 電話
<b>Emergency Hotline : 9317-0821</b>			
何先生 Daniel HO	總隊長 Emergency Coordinator	地盤代表 Site Agent	9271-6455
林先生 C. K. LAM	副隊長 Asst. Emergency Coordinator	地盤總管 General Foreman	9869-9978
鄧先生 Nelson TANG	副隊長 (急救員) Asst. Emergency Coordinator (First Aider)	安全經理 Safety Manager	9630 1923 
蔣先生 Kay CHEUNG	副隊長 (急救員) Asst. Emergency Coordinator (First Aider)	安全主任 Safety Officer	9094-1110  
梁先生 Kevin LEUNG	隊員 (急救員) Member (First Aider)	安全督導員 Safety Supervisor	6015-7981 
鄧先生 Tony TANG	隊員 Member	助理地盤代表 Sub Agent	9433-2628
林先生 YS LAM	隊員 Member	電工 Electrician	9603-2722
<b>Emergency Contact of Authorities / Utility Companies</b>			
Authorities / Utility Companies 政府部門/公營機構名稱		Emergency Service Hotline 緊急服務召援電話	
<i>Ambulance Console (Hotline) 救護車總機 (Serious Injury)</i>		2735-3355	
<i>Fire Station (Ma Tau Chung) 消防處 (馬頭涌消防局)</i>		2711-0292	
<i>Police Station (Ngau Tau Kok) 警署 (牛頭角分區)</i>		3661-1626	
<i>LabourDept (Enquiry Hotline) 勞工處</i>		2717-1771	
<i>Environmental Protection Dept 環保處</i>		2802-3111	
<i>Marine Dept 海事處</i>			
Maritime Rescue Co-ordination Centre (24 hours)		2233-7999	
Marine Dept Harbour Division - Duty Officer		2885-9385	
<i>E&amp;MD Dept 機電工程</i>		2882-8011 / 2333-3762	
<i>Highways Dept (24hrs) 路政處熱線</i>		2923-7766	
<b>Utility Undertakers Companies</b>			
China Light Power Ltd 中華電力	2728-8333	HK Observatory 香港天文台	2835-1473
Hong Kong Electric 港燈電力	2555-4999	Weather Enquiry 查詢天氣	1878-200
Town Gas 中華煤氣	2963-1811 / 2880-6999	Security Guard Service 保安	5725-2784
Water Supplies Dept 水務署	2824-5000	Drainage Services Dept 渠務署	2300-1110
PCCW Limited 電話公司	109		

REV. D

# **Appendix B – Construction Programme**

































































Contract No. ED/2018/01 KTD Project

ID	Task Name	Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors	2020				2021				2022				2023				20						
															Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1		Q2	Q3	Q4	Q1	Q2	
1008	North Depressed Rd (CH1560-1720)	562 days	211.42 days	350.58 days	0%	Tue 3/9/19	Tue 27/7/21	Tue 3/9/19	NA	Tue 3/9/19	Tue 1/3/22	177 days																									
1009	Ground Monitoring Works	17 days	17 days	0 days	100%	Tue 3/9/19	Thu 19/9/19	Tue 3/9/19	Thu 19/9/19	Tue 3/9/19	Thu 19/9/19	0 days	2 days																								
1010	Mobilization	7 days	7 days	0 days	100%	Fri 1/11/19	Fri 8/11/19	Fri 1/11/19	Fri 8/11/19	Fri 1/11/19	Fri 8/11/19	0 days	0 days																								
1011	Complete the Diveration of Existing Overhang Cable along the North Depressed Rd	1 day	1 day	0 days	100%	Sat 26/10/19	Sat 26/10/19	Sat 26/10/19	Sat 26/10/19	Sat 26/10/19	Sat 26/10/19	0 days	0.5 days																								
1012	Drive Sheet Pile (380m, 15,000m penetration depth) Prod. Rate by 2 teams (around 125m penetration depth per day per team)	39 days	39 days	0 days	100%	Fri 22/11/19	Thu 9/1/20	Fri 22/11/19	Thu 9/1/20	Fri 22/11/19	Thu 9/1/20	0 days	0.5 days	1009,1010,1011																							
1013	Pumping Test	120 days	75 days	45 days	0%	Thu 20/2/20	Fri 17/7/20	Thu 20/2/20	NA	Thu 20/2/20	Sat 18/7/20	1 day	0.5 days	1012																							
1014	CH1560 - CH1720 North Depress Road	449 days	98.66 days	350.34 days	0%	Mon 20/1/20	Tue 27/7/21	Mon 20/1/20	NA	Mon 20/1/20	Tue 1/3/22	177 days																									
1015	Excavation with Shoring Installation - Prod Rate: 270m3/d/team. (~36,61m3). 1 team	145 days	98 days	47 days	0%	Mon 20/1/20	Sat 18/7/20	Mon 20/1/20	NA	Mon 20/1/20	Sat 18/7/20	-11 days	1 day	1012																							
1016	CNCE No. 73 - April 2020 Inclement Weather	8 days	0 days	8 days	0%	Mon 20/7/20	Tue 28/7/20	NA	NA	Tue 7/7/20	Wed 15/7/20	-11 days		1015,73																							
1017	May 2020 - Inclement Weather	3 days	0 days	3 days	0%	Wed 29/7/20	Fri 31/7/20	NA	NA	Thu 16/7/20	Sat 18/7/20	-11 days		1016,74																							
1018	Rock Fill Replacement (Final Level)	6 days	0 days	6 days	0%	Sat 1/8/20	Fri 7/8/20	NA	NA	Mon 20/7/20	Sat 25/7/20	-11 days		1013,1015,1017																							
1019	6 Bay Base Slabs + 3 Levels Wall Both Sides	55 days	0 days	55 days	0%	Wed 3/6/20	Fri 7/8/20	NA	NA	Thu 21/5/20	Sat 25/7/20	-11 days		1015SS+107 day																							
1020	Base Slab and Wall Below 4th Level Shoring	25 days	0 days	25 days	0%	Sat 8/8/20	Sat 5/9/20	NA	NA	Mon 27/7/20	Mon 24/8/20	-11 days	0.5 days	1019,1015,1018																							
1021	Backfilling and 4th Level Shoring Removal	18 days	0 days	18 days	0%	Mon 7/9/20	Sat 26/9/20	NA	NA	Tue 25/8/20	Mon 14/9/20	-11 days		1020																							
1022	Wall Construction (between 3rd and 4th levels shoring) and Remaining Base Slab	24 days	0 days	24 days	0%	Mon 28/9/20	Wed 28/10/20	NA	NA	Tue 15/9/20	Wed 14/10/20	-11 days		1021																							
1023	Backfilling and 3rd Level Shoring Removal	18 days	0 days	18 days	0%	Thu 29/10/20	Wed 18/11/20	NA	NA	Thu 15/10/20	Thu 5/11/20	-11 days		1022																							
1024	Structure Works Below 2nd & 3rd Levels Shoring	23 days	0 days	23 days	0%	Thu 19/11/20	Tue 15/12/20	NA	NA	Fri 6/11/20	Wed 2/12/20	-11 days		1023																							
1025	Backfilling and 2nd Level Shoring Removal	18 days	0 days	18 days	0%	Wed 16/12/20	Fri 8/1/21	NA	NA	Thu 3/12/20	Wed 23/12/20	-11 days		1024																							
1026	Remaining Wall Construction	30 days	0 days	30 days	0%	Sat 9/1/21	Tue 16/2/21	NA	NA	Thu 24/12/20	Sat 30/1/21	-11 days		1025																							
1027	Backfill & extract sheet pile (CH1560 to CH1720)	26 days	0 days	26 days	0%	Wed 17/2/21	Thu 18/3/21	NA	NA	Mon 1/2/21	Fri 5/3/21	-11 days	1 day	1026																							
1028	Emergency walkway & median barrier installation	20 days	0 days	20 days	0%	Tue 1/6/21	Thu 24/6/21	NA	NA	Mon 3/1/22	Tue 25/1/22	177 days	2 days	1027																							
1029	Parapet installation	27 days	0 days	27 days	0%	Fri 25/6/21	Tue 27/7/21	NA	NA	Wed 26/1/22	Tue 1/3/22	177 days	3 days	1028																							
1030	CH1720 - CH1850 (130m long) (2 x teams)	477 days	0 days	477 days	0%	Mon 15/6/20	Mon 4/10/21	NA	NA	Mon 15/6/20	Mon 4/10/21	0 days																									
1031	Drive sheet pile (approx. 17000m penetration depth, 380m/day)	46 days	0 days	46 days	0%	Mon 15/6/20	Sat 8/8/20	NA	NA	Mon 15/6/20	Sat 8/8/20	0 days	2 day																								
1032	Pumping Test	22 days	0 days	22 days	0%	Mon 10/8/20	Thu 3/9/20	NA	NA	Mon 10/8/20	Thu 3/9/20	0 days	1 days	1031,1045																							
1033	CH1720 - CH1850 (130m long) (2 x teams) Top Portion: Excavation with Shoring Installation = 23,000 cu.m. (320m3/d/team x 2)	42 days	0 days	42 days	0%	Fri 4/9/20	Sat 24/10/20	NA	NA	Fri 4/9/20	Sat 24/10/20	0 days	2 day	1032																							
1034	CH1720 - CH1850 (130m long) (2 x teams) Bottom Portion: Excavation with Shoring Installation = 23,876 cu.m. (250m3/d/team x 2)	52 days	0 days	52 days	0%	Tue 27/10/20	Mon 28/12/20	NA	NA	Tue 27/10/20	Mon 28/12/20	0 days	1 day	1033																							
1035	Rock fill - Prod. Rate: (3,469m3) (160m3/d/team. 2 team)	6 days	0 days	6 days	0%	Tue 29/12/20	Tue 5/1/21	NA	NA	Tue 29/12/20	Tue 5/1/21	0 days	1 day	1033,1034																							
1036	Base Slab - 8 bays. Prod. Rate: 12d/team/bay include pipe laying. 4 teams	26 days	0 days	26 days	0%	Wed 3/3/21	Thu 1/4/21	NA	NA	Wed 3/3/21	Thu 1/4/21	0 days	2 day	1035,1042,262																							
1037	Wall - 8 bays. Prod. Rate: 3 level of shoring 12d/bay/level/team. 4 teams	75 days	0 days	75 days	0%	Tue 6/4/21	Tue 6/7/21	NA	NA	Tue 6/4/21	Tue 6/7/21	0 days	3 days	1036																							
1038	Top Slab - 8 bays. Prod. Rate: 18d/team/bay, 4 teams	38 days	0 days	38 days	0%	Wed 7/7/21	Thu 19/8/21	NA	NA	Wed 7/7/21	Thu 19/8/21	0 days	2 day	1037																							
1039	Falsework Removal	37 days	0 days	37 days	0%	Fri 20/8/21	Mon 4/10/21	NA	NA	Fri 20/8/21	Mon 4/10/21	0 days	2 day	1038																							
1040	Sheetpile Extraction and Backfill	13 days	0 days	13 days	0%	Fri 20/8/21	Fri 3/9/21	NA	NA	Fri 17/9/21	Mon 4/10/21	24 days	1 day	1038																							
1041	Underground Plant Room next to Underpass	45 days	0 days	45 days	0%	Wed 6/1/21	Tue 2/3/21	NA	NA	Wed 6/1/21	Tue 2/3/21	0 days																									
1042	Underground pump house structure	45 days	0 days	45 days	0%	Wed 6/1/21	Tue 2/3/21	NA	NA	Wed 6/1/21	Tue 2/3/21	0 days	3 day	714,1035,262,28																							
1043	Underpass & South Depressed Road CH1850-1950 - (100m long) 8 bays x 13.5m long	120 days	65.36 days	54.64 days	0%	Wed 26/2/20	Thu 23/7/20	Wed 26/2/20	NA	Wed 26/2/20	Sat 8/8/20	14 days																									
1044	Drive sheet pile ( 12,530m embedded length sheetpile) Prod. Rate 380m/team/day	32 days	32 days	0 days	100%	Wed 26/2/20	Mon 6/4/20	Wed 26/2/20	Mon 6/4/20	Wed 26/2/20	Mon 6/4/20	0 days	5 days																								
1045	Pumping Test	80 days	29 days	51 days	36%	Fri 17/4/20	Thu 23/7/20	Fri 17/4/20	NA	Fri 17/4/20	Sat 8/8/20	14 days	2 days	1044																							
1046	Underpass & South Depress Road (CH1850 to CH1950)	539 days	27.64 days	511.36 days	0%	Thu 23/4/20	Wed 13/10/21	Thu 23/4/20	NA	Thu 23/4/20	Tue 1/3/22	139 days																									
1047	Excavation with Shoring Installation (Upper Portion) - Prod. Rate: 270m3/d/team. 1 team 16,000m3	80 days	24 days	56 days	23%	Thu 23/4/20	Thu 30/7/20	Thu 23/4/20	NA	Thu 23/4/20	Fri 4/9/20	31 days	5 days	1045SS+6 days																							
1048	Excavation with Shoring Installation (Lower Portion) - Prod. Rate: 270m3/d/team. 1 team 16,000m3	65 days	0 days	65 days	0%	Fri 31/7/20	Fri 16/10/20	NA	NA	Sat 5/9/20	Mon 23/11/20	31 days	5 day	1047,1045FP+12 days																							
1049	Rock fill - Prod. Rate: 160m3/d/team (1,745m3)	7 days	0 days</																																		























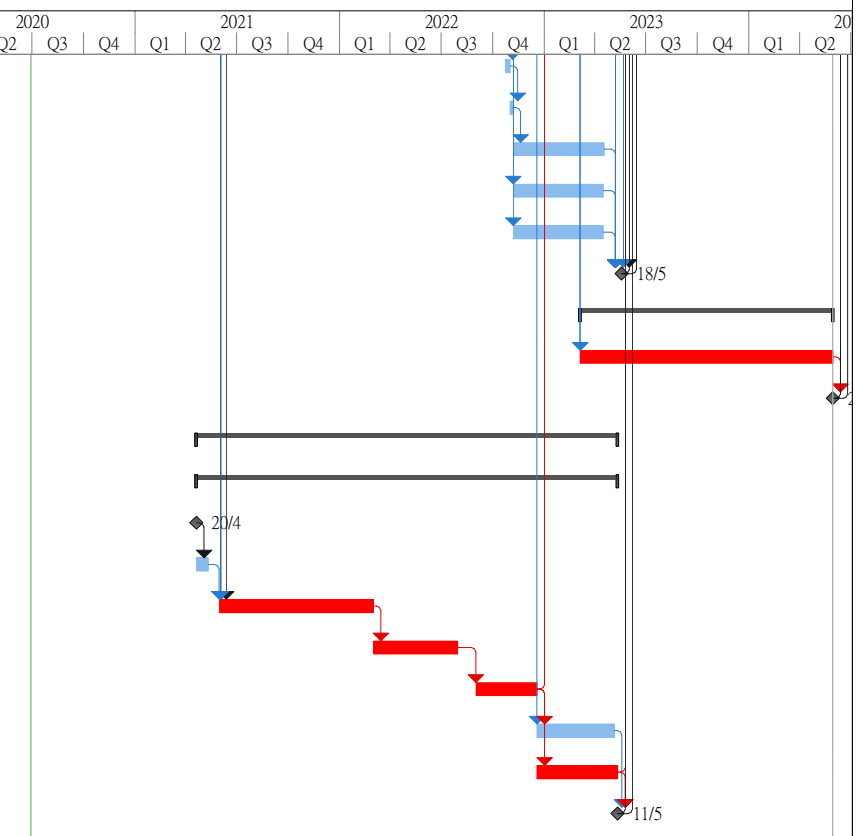






Contract No. ED/2018/01 KTD Project

ID	Task Name	Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors	2020		2021				2022				2023				2024
															Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	
1541	Concrete infill between profile barrier	7 days	0 days	7 days	0%	Mon 24/10/22	Mon 31/10/22	NA	NA	Sat 3/12/22	Sat 10/12/22	35 days	0 days	1540															
1542	Road pavement	5 days	0 days	5 days	0%	Tue 1/11/22	Sat 5/11/22	NA	NA	Mon 12/12/22	Fri 16/12/22	35 days	0 days	1541															
1543	Install street furniture (Part 1, 2A, 2B - Road L12)	131 days	0 days	131 days	0%	Mon 7/11/22	Mon 17/4/23	NA	NA	Sat 17/12/22	Tue 30/5/23	35 days	6 days	1542															
1544	Planting Works for Underpass, South Depress Road and At-Grade Road	130 days	0 days	130 days	0%	Mon 7/11/22	Sat 15/4/23	NA	NA	Mon 19/12/22	Tue 30/5/23	36 days	10 days	668															
1545	Landscaping Works for Underpass, South Depress Road and At-Grade	130 days	0 days	130 days	0%	Mon 7/11/22	Sat 15/4/23	NA	NA	Mon 19/12/22	Tue 30/5/23	36 days	10 days	668															
1546	Planned Completion for Section 6	0 days	0 days	0 days	0%	Thu 18/5/23	Thu 18/5/23	NA	NA	Tue 30/5/23	Tue 30/5/23	9 days	0 days	1533,1543,1532															
1547	Section 7	365 days	0 days	365 days	0%	Mon 6/3/23	Wed 29/5/24	NA	NA	Mon 6/3/23	Wed 29/5/24	0 days																	
1548	Establishment work for landscape softwork	365 days	0 days	365 days	0%	Mon 6/3/23	Wed 29/5/24	NA	NA	Mon 6/3/23	Wed 29/5/24	0 days	10 days	1533,1534															
1549	Planned Completion for Section 7	0 days	0 days	0 days	0%	Wed 29/5/24	Wed 29/5/24	NA	NA	Wed 29/5/24	Wed 29/5/24	0 days		1548,6															
1550	Section 10 (Subject to Excision)	614 days	0 days	614 days	0%	Tue 20/4/21	Thu 11/5/23	NA	NA	Mon 10/5/21	Tue 30/5/23	15 days																	
1551	Decking for Underpass (Rd L14)	614 days	0 days	614 days	0%	Tue 20/4/21	Thu 11/5/23	NA	NA	Mon 10/5/21	Tue 30/5/23	15 days																	
1552	Deck for Underpass (Road L14) - Temp. Works Design and Method Statement Submission	0 days	0 days	0 days	0%	Tue 20/4/21	Tue 20/4/21	NA	NA	Mon 10/5/21	Mon 10/5/21	20 days	0.5 day																
1553	Deck for Underpass (Road L14) - Temp. Works Design and Method Statement Comment & Appraoval	21 days	0 days	21 days	0%	Tue 20/4/21	Mon 10/5/21	NA	NA	Mon 10/5/21	Sun 30/5/21	20 days	0.5 day	1552															
1554	Support along U-through	225 days	0 days	225 days	0%	Mon 31/5/21	Tue 1/3/22	NA	NA	Mon 31/5/21	Tue 1/3/22	0 days	10 days	23,185,1553,192															
1555	Plinth installation along support	123 days	0 days	123 days	0%	Wed 2/3/22	Fri 29/7/22	NA	NA	Wed 2/3/22	Fri 29/7/22	0 days	6 days	1554															
1556	Placing of beam along underpass	90 days	0 days	90 days	0%	Thu 1/9/22	Sun 18/12/22	NA	NA	Thu 1/9/22	Mon 19/12/22	0 days	4 days	1555FS+28 days															
1557	Finishing and E&M Works	110 days	0 days	110 days	0%	Mon 19/12/22	Fri 5/5/23	NA	NA	Thu 12/1/23	Tue 30/5/23	20 days		1556,279															
1558	Cover-up (Roof)	115 days	0 days	115 days	0%	Mon 19/12/22	Thu 11/5/23	NA	NA	Mon 19/12/22	Thu 11/5/23	0 days	5 days	1556															
1559	Planned Completion for Section 10	0 days	0 days	0 days	0%	Thu 11/5/23	Thu 11/5/23	NA	NA	Tue 30/5/23	Tue 30/5/23	19 days	0.5 days	1558,158,1557															



Title: Rev.11 Prog with Progress as of 22-May-20	Task		Summary		Inactive Milestone		Duration-only		Start-only		External Milestone		Critical Split	
	Split		Project Summary		Inactive Summary		Manual Summary Rollup		Finish-only		Deadline		Progress	
	Milestone		Inactive Task		Manual Task		Manual Summary		External Tasks		Critical		Manual Progress	

**Appendix C – Apply permission for Environmental Monitoring**

Propose alternative monitoring location: A1 The Lok Sin Tong Modular Social Housing Scheme

Status: Rejected application

Email on: 10 May 2022

Subject **The Lok Sin Tong Benevolent Society Kowloon - Apply permission for Environmental Monitoring for Stage 4 of Kai Tak Development**



From [Redacted]  
To [Redacted]  
Bcc [Redacted]

Date 2022-05-10 15:48

- Figure 1 Impact dust measurement setup.jpg(~1.2 MB)
- Figure 2 Impact noise measurement setup.jpg(~979 KB)

Company: The Lok Sin Tong Benevolent Society Kowloon

By Email ([Redacted])

Dear Madam  
5 May 2022

Dear Sir/ Madam,

Re: Environmental Monitoring for Kai Tak Development - Stage 4 Infrastructure at the former runway and south apron

We, Ka Shing Management Consultant Limited (KS), is appointed by Civil Engineering and Development Department (CEDD), working as Environmental Team (ET) to conduct the monitoring and audit works as part of the EM&A programme of the Kai Tak Development - Stage 4 Infrastructure at the former runway and south apron (KTD Stage 4 Project) starting from July 2019 to May 2024.

KTD Stage 4 project is located in the south-eastern part of Kowloon Peninsular of the HKSAR, comprising the apron and runway areas of the former Kai Tak Airport and existing waterfront areas at To Kwa Wan, Ma Tau Kok, Kowloon Bay, Kwun Tong and Cha Kwo Ling. Your premise, Hong Kong Society for Blind Workshop and Hotels, is one of the proposed sensitive receivers.

We would like to obtain your kind permission for entering the premise to carry out baseline and impact monitoring, baseline dust monitoring (1-hour and 24-hour TSP monitoring) and baseline noise monitoring (30-minute) would need to conduct continuously for 14 days, our propose baseline monitoring date is June 2022.

After baseline monitoring, impact dust monitoring (1-hour and 24-hour TSP monitoring) and impact noise monitoring (30-minute) would take place between 08:00 hrs to 18:00 hrs in normal working days once every six days.

The monitoring location will be located on the roof top floor of The Lok Sin Tong Modular Social Housing Scheme at Junction of Sung Wong Toi Road and To Kwa Wan Road facing to Kai Tak Development area. 220V power supply is needed for 24-hour TSP monitor with size 0.5m (L) x 0.5m (W) x 1.4m (H). We will pay for the electricity. Similar setup photo records are shown in Figure 1 and Figure 2 for your kindly reference. Our technician will stay at the measurement point for 1-hour TSP and 30-minute noise measurement.

We hope to conduct site visit at 13:30 pm of 25 May 2022 (Wed).

Should you have any enquires regarding the measurement, please do not hesitate to contact [Redacted] at [Redacted]

Thank you for your kind attention and I look forward to receiving your favourable reply soon.

Yours Sincerely,

Lee Wing Hang  
Ka Shing Management Consultant Limited

Email on: 13 October 2022

Subject **The Lok Sin Tong Benevolent Society Kowloon - Reject to Apply permission for Environmental Monitoring for Stage 4 of Kai Tak Development**



From [Redacted]  
To [Redacted]  
Bcc [Redacted]

Date 2022-10-13 15:52

Company: The Lok Sin Tong Benevolent Society Kowloon

By Email [Redacted]

Dear Sir/ [Redacted]

Referring to the communication between your staff and me regarding the captioned work at 21 September 2022, the Lok Sin Tong Benevolent Society Kowloon was rejected the apply permission for Environmental Monitoring for Stage 4 of Kai Tak Development. Due to electricity supply and security concern in Modular House , Environmental monitoring at Modular House is not allowed open.

Should you have any enquires regarding the measurement, please do not hesitate to contact [Redacted] at [Redacted]

Thank you for your kind attention and I look forward to receiving your favourable reply soon.

Yours Sincerely,

Lee Wing Hang  
Ka Shing Management Consultant Limited

Propose alternative monitoring location: A2 Freder Centre  
Status: No reply from building management office unit the reporting month

Email on: 19 July 2022

Subject **Freder Centre - Apply permission for Environmental Monitoring for Stage 4 of Kai Tak Development**



From [Redacted]  
To [Redacted]  
Bcc [Redacted]

Date 2022-07-19 13:33

- Figure 1 Impact dust measurement setup.jpg(~1.2 MB)
- Figure 2 Impact noise measurement setup.jpg(~979 KB)

Company: Freder Centre

By Email [Redacted]  
Dear Sir [Redacted]

Re: Environmental Monitoring for Kai Tak Development - Stage 4 Infrastructure at the former runway and south apron

We, Ka Shing Management Consultant Limited (KS), is appointed by Civil Engineering and Development Department (CEDD), working as Environmental Team (ET) to conduct the monitoring and audit works as part of the EM&A programme of the Kai Tak Development - Stage 4 Infrastructure at the former runway and south apron (KTD Stage 4 Project) starting from July 2019 to May 2024.

KTD Stage 4 project is located in the south-eastern part of Kowloon Peninsular of the HKSAR, comprising the apron and runway areas of the former Kai Tak Airport and existing waterfront areas at To Kwa Wan, Ma Tau Kok, Kowloon Bay, Kwun Tong and Cha Kwo Ling. Your premise, Hong Kong Society for Blind Workshop and Hotels, is one of the proposed sensitive receivers.

We would like to obtain your kind permission for entering the premise to carry out baseline and impact monitoring, baseline dust monitoring (1-hour and 24-hour TSP monitoring) and baseline noise monitoring (30-minute) would need to conduct continuously for 14 days, our propose baseline monitoring date is August 2022.

After baseline monitoring, impact dust monitoring (1-hour and 24-hour TSP monitoring) and impact noise monitoring (30-minute) would take place between 08:00 hrs to 18:00 hrs in normal working days once every six days.

The monitoring location will be located on the roof top floor of Freder Centre at Junction of Sung Wong Toi Road and To Kwa Wan Road facing to Kai Tak Development area. 220V power supply is needed for 24-hour TSP monitor with size 0.5m (L) x 0.5m (W) x 1.4m (H). We will pay for the electricity. Similar setup photo records are shown in Figure 1 and Figure 2 for your kindly reference. Our technician will stay at the measurement point for 1-hour TSP and 30-minute noise measurement.

We hope to conduct site visit at 15:30pm of 26 July 2022 (Tue).

Should you have any enquires regarding the measurement, please do not hesitate to contact [Redacted] at [Redacted]

Thank you for your kind attention and I look forward to receiving your favourable reply soon.

Yours Sincerely,

Lee Wing Hang  
Ka Shing Management Consultant Limited

Propose alternative monitoring location: A3 New Port Centre  
Status: No reply from building management office unit the reporting month

Email on: 19 July 2022

Subject **New Port Centre - Apply permission for Environmental Monitoring for Stage 4 of Kai Tak Development**



From [Redacted]  
To [Redacted]  
Bcc [Redacted]

Date 2022-07-19 13:33

- Figure 1 Impact dust measurement setup.jpg(~1.2 MB)
- Figure 2 Impact noise measurement setup.jpg(~979 KB)

Company: New Port Centre & Synergis management services limited

By Email [Redacted]

Dear Sir,

Re: Environmental Monitoring for Kai Tak Development - Stage 4 Infrastructure at the former runway and south apron

We, Ka Shing Management Consultant Limited (KS), is appointed by Civil Engineering and Development Department (CEDD), working as Environmental Team (ET) to conduct the monitoring and audit works as part of the EM&A programme of the Kai Tak Development - Stage 4 Infrastructure at the former runway and south apron (KTD Stage 4 Project) starting from July 2019 to May 2024.

KTD Stage 4 project is located in the south-eastern part of Kowloon Peninsular of the HKSAR, comprising the apron and runway areas of the former Kai Tak Airport and existing waterfront areas at To Kwa Wan, Ma Tau Kok, Kowloon Bay, Kwun Tong and Cha Kwo Ling. Your premise, New Port Centre, is one of the proposed sensitive receivers.

We would like to obtain your kind permission for entering the premise to carry out baseline and impact monitoring, baseline dust monitoring (1-hour and 24-hour TSP monitoring) and baseline noise monitoring (30-minute) would need to conduct continuously for 14 days, our propose baseline monitoring date is August 2022.

After baseline monitoring, impact dust monitoring (1-hour and 24-hour TSP monitoring) and impact noise monitoring (30-minute) would take place between 08:00 hrs to 18:00 hrs in normal working days once every six days.

The monitoring location will be located on the roof top floor of New Port Centre at Junction of Sung Wong Toi Road and To Kwa Wan Road facing to Kai Tak Development area. 220V power supply is needed for 24-hour TSP monitor with size 0.5m (L) x 0.5m (W) x 1.4m (H). We will pay for the electricity. Similar setup photo records are shown in Figure 1 and Figure 2 for your kindly reference. Our technician will stay at the measurement point for 1-hour TSP and 30-minute noise measurement.

We hope to conduct site visit at 13:30pm of 26 July 2022 (Tue).

Should you have any enquires regarding the measurement, please do not hesitate to contact [Redacted] at [Redacted]

Thank you for your kind attention and I look forward to receiving your favourable reply soon.

Yours Sincerely,

Lee Wing Hang  
Ka Shing Management Consultant Limited

Email on: 17 August 2022

Subject **Kum Shing Group and Hong Kong Energy Infrastructure Limited - Apply permission for Environmental Monitoring for Stage 4 of Kai Tak Development**



From [Redacted]  
To [Redacted]  
Bcc [Redacted]

Date 2022-08-17 11:54

- Figure 1 Impact dust measurement setup.jpg(~1.2 MB)
- Figure 2 Impact noise measurement setup.jpg(~979 KB)
- plug 01.jpg(~2.6 MB)

Company: Kum Shing Group and Hong Kong Energy Infrastructure Limited

By Email [Redacted]

Dear Sir,

Re: Environmental Monitoring for Kai Tak Development - Stage 4 Infrastructure at the former runway and south apron

We, Ka Shing Management Consultant Limited (KS), is appointed by Civil Engineering and Development Department (CEDD), working as Environmental Team (ET) to conduct the monitoring and audit works as part of the EM&A programme of the Kai Tak Development - Stage 4 Infrastructure at the former runway and south apron (KTD Stage 4 Project) starting from July 2019 to May 2024.

KTD Stage 4 project is located in the south-eastern part of Kowloon Peninsular of the HKSAR, comprising the apron and runway areas of the former Kai Tak Airport and existing waterfront areas at To Kwa Wan, Ma Tau Kok, Kowloon Bay, Kwun Tong and Cha Kwo Ling. Your premise, New Port Centre, is one of the proposed sensitive receivers.

We would like to obtain your kind permission for entering the premise to carry out baseline and impact monitoring, baseline dust monitoring (1-hour and 24-hour TSP monitoring) and baseline noise monitoring (30-minute) would need to conduct continuously for 14 days, our propose baseline monitoring date is August 2022.

After baseline monitoring, impact dust monitoring (1-hour and 24-hour TSP monitoring) and impact noise monitoring (30-minute) would take place between 08:00 hrs to 18:00 hrs in normal working days once every six days.

The monitoring location will be located on the roof top floor of New Port Centre at Junction of Sung Wong Toi Road and To Kwa Wan Road facing to Kai Tak Development area. 220V power supply is needed for 24-hour TSP monitor with size 0.5m (L) x 0.5m (W) x 1.4m (H). We will pay for the electricity. Similar setup photo records are shown in Figure 1 and Figure 2 for your kindly reference. Our technician will stay at the measurement point for 1-hour TSP and 30-minute noise measurement.

We hope to loan the company on the roof top floor of Plug 01 for 24-hour TSP monitor of power supply.

Should you have any enquires regarding the measurement, please do not hesitate to contact [Redacted] at [Redacted]

Thank you for your kind attention and I look forward to receiving your favourable reply soon.

Yours Sincerely,

Lee Wing Hang  
Ka Shing Management Consultant Limited



Propose alternative monitoring location: A3 New Port Centre  
Status: No reply from building management office unit the reporting month

Email on: 19 August 2022

Subject **RE: Kum Shing Group and Hong Kong Energy Infrastructure Limited - Apply permission for Environmental Monitoring for Stage 4 of Kai Tak Development**



From

To

Cc

Date 2022-08-19 08:36

Dear Mr. LEE,

As we do not have ownership to the roof, we'd suggest you to approach the management company of Newport Center for further discussion.

<https://www.synergis.com.hk/html/en/>

best,  
Paul Lee

Email on: 15 September 2022

Subject **New Port Centre - Apply permission for Environmental Monitoring for Stage 4 of Kai Tak Development**



From

To

Bcc

Date 2022-09-15 15:35

- Figure 1 Impact dust measurement setup.jpg(~1.2 MB)
- Figure 2 Impact noise measurement setup.jpg(~979 KB)
- Figure 3 expect Impact dust measurement setup.png(~267 KB)
- Figure 4 power supply plug.jpg(~2.6 MB)

Company: New Port Centre & Synergis management services limited

By Email

Dear Sir,

Re: Environmental Monitoring for Kai Tak Development - Stage 4 Infrastructure at the former runway and south apron

We, Ka Shing Management Consultant Limited (KS), is appointed by Civil Engineering and Development Department (CEDD), working as Environmental Team (ET) to conduct the monitoring and audit works as part of the EM&A programme of the Kai Tak Development - Stage 4 Infrastructure at the former runway and south apron (KTD Stage 4 Project) starting from July 2019 to May 2024.

KTD Stage 4 project is located in the south-eastern part of Kowloon Peninsular of the HKSAR, comprising the apron and runway areas of the former Kai Tak Airport and existing waterfront areas at To Kwa Wan, Ma Tau Kok, Kowloon Bay, Kwun Tong and Cha Kwo Ling. Your premise, New Port Centre, is one of the proposed sensitive receivers.

We would like to obtain your kind permission for entering the premise to carry out baseline and impact monitoring, baseline dust monitoring (1-hour and 24-hour TSP monitoring) and baseline noise monitoring (30-minute) would need to conduct continuously for 14 days, our propose baseline monitoring date is August 2022.

After baseline monitoring, impact dust monitoring (1-hour and 24-hour TSP monitoring) and impact noise monitoring (30-minute) would take place between 08:00 hrs to 18:00 hrs in normal working days once every six days.

The monitoring location will be located on the roof top floor of New Port Centre at Junction of Sung Wong Toi Road and To Kwa Wan Road facing to Kai Tak Development area. 220V power supply is needed for 24-hour TSP monitor with size 0.5m (L) x 0.5m (W) x 1.4m (H). We will pay for the electricity. Similar setup photo records are shown in Figure 1 and Figure 2 for your kindly reference. The expect of impact dust measurement setup photo records are shown in Figure 3 and the power supply will come from the roof of the socket (Figure 4) for reference. Our technician will stay at the measurement point for 1-hour TSP and 30-minute noise measurement.

Should you have any enquires regarding the measurement, please do not hesitate to contact [redacted] at [redacted]

Thank you for your kind attention and I look forward to receiving your favourable reply soon.

Yours Sincerely,

Lee Wing Hang  
Ka Shing Management Consultant Limited



**Appendix D – Weather information**

## General Information

Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)	Total Rainfall (mm)	Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)	Total Rainfall (mm)
01/07/2022	25.4	29.7	63	01/08/2022	29.1	35.7	0
02/07/2022	25.6	28.4	72.4	02/08/2022	28	35.2	0.2
03/07/2022	28.2	30.3	0	03/08/2022	25.6	30.8	34.9
04/07/2022	27.9	29.4	0.4	04/08/2022	25.9	28.4	14.9
05/07/2022	28.4	29.7	0.2	05/08/2022	24.5	28.6	165.5
06/07/2022	28	30.3	0.5	06/08/2022	26.1	30.9	5.5
07/07/2022	27.2	31.6	13.1	07/08/2022	27.6	32.6	2.8
08/07/2022	27.7	33.8	Trace	08/08/2022	26.2	30.9	33.3
09/07/2022	28.6	33.3	Trace	09/08/2022	25.4	28.5	72
10/07/2022	28.6	34.2	Trace	10/08/2022	25.8	29.6	49.7
11/07/2022	28.5	35.1	0	11/08/2022	25.5	28.8	12.4
12/07/2022	28.6	35.2	0	12/08/2022	24.9	27.1	76
13/07/2022	28.4	35.2	0	13/08/2022	25.8	32.6	0
14/07/2022	28.5	33.1	0	14/08/2022	26.9	33.3	0
15/07/2022	28.6	34.3	0.2	15/08/2022	28.1	33.6	0
16/07/2022	28.8	33.3	1.5	16/08/2022	26.2	33.2	9.1
17/07/2022	28.8	32.6	1.2	17/08/2022	26.2	32.3	29.8
18/07/2022	28.5	32.7	2.7	18/08/2022	26.2	30.4	22.1
19/07/2022	29.1	33.7	Trace	19/08/2022	26.4	32	4.8
20/07/2022	29.2	34.2	0.6	20/08/2022	26.5	31.9	8.4
21/07/2022	28.1	35.2	0.3	21/08/2022	26.6	32.9	1.9
22/07/2022	28.2	35.6	0	22/08/2022	28.2	32.9	0
23/07/2022	29.2	34.9	0	23/08/2022	28.6	34.5	0
24/07/2022	29.5	36.1	0	24/08/2022	26.4	34.9	5.5
25/07/2022	29.9	35.8	0	25/08/2022	25	29.8	48.1
26/07/2022	29.1	35.2	0	26/08/2022	27.5	32.9	0.1
27/07/2022	29	34.2	0	27/08/2022	27.4	33	0
28/07/2022	28.8	35.3	0	28/08/2022	28.3	34.4	0
29/07/2022	29.7	35.3	0	29/08/2022	28.6	34.6	0
30/07/2022	26.5	31.2	2.4	30/08/2022	27.9	32.3	13.1
31/07/2022	28.3	34	0	31/08/2022	28.1	31.7	4.7

NOTE1: The above weather information was obtained from manned weather station of Hong Kong Observatory.  
NOTE2: Trace means rainfall less than 0.05 mm  
<https://www.hko.gov.hk/en/cis/dailyExtract.htm?y=2022&m=07>

NOTE1: The above weather information was obtained from manned weather station of Hong Kong Observatory.  
NOTE2: Trace means rainfall less than 0.05 mm  
<https://www.hko.gov.hk/en/cis/dailyExtract.htm?y=2022&m=08>

## General Information

Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)	Total Rainfall (mm)
01/09/2022	26.9	32.9	2.8
02/09/2022	27.3	32.3	0
03/09/2022	26.9	33.9	0
04/09/2022	27.7	34.7	0
05/09/2022	28.8	35.3	0
06/09/2022	28.4	34.5	0
07/09/2022	26.7	29.6	8.6
08/09/2022	27.8	32.8	Trace
09/09/2022	27.5	33.3	0
10/09/2022	27.6	31.4	Trace
11/09/2022	27.4	32.1	0
12/09/2022	28.2	33.7	0
13/09/2022	28.8	35.9	0
14/09/2022	29.6	35.5	0
15/09/2022	28.7	34.5	0
16/09/2022	28.6	33.8	Trace
17/09/2022	29.1	33.9	Trace
18/09/2022	27.4	34	20.3
19/09/2022	25.9	32.3	3.3
20/09/2022	26.2	30.7	3.5
21/09/2022	25.8	30.4	8.5
22/09/2022	26.9	31.2	0
23/09/2022	25.6	32.1	13.4
24/09/2022	25.8	31	0
25/09/2022	26.9	32.7	0
26/09/2022	27.2	33.7	0
27/09/2022	28.1	32.3	Trace
28/09/2022	27.7	31.2	0
29/09/2022	25	29.7	8.1
30/09/2022	24.8	28.3	102.7

NOTE1: The above weather information was obtained from manned weather station of Hong Kong Observatory.

NOTE2: Trace means rainfall less than 0.05 mm

<https://www.hko.gov.hk/en/cis/dailyExtract.htm?y=2022&m=09>

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
01/07/2022	0:00	1.3	45	02/07/2022	0:00	0.9	67.5	03/07/2022	0:00	0.4	112.5	04/07/2022	0:00	0.4	90
01/07/2022	1:00	1.8	135	02/07/2022	1:00	1.3	67.5	03/07/2022	1:00	0.9	90	04/07/2022	1:00	0.4	67.5
01/07/2022	2:00	1.3	67.5	02/07/2022	2:00	0.9	90	03/07/2022	2:00	0.9	112.5	04/07/2022	2:00	0.9	90
01/07/2022	3:00	1.3	90	02/07/2022	3:00	0.9	90	03/07/2022	3:00	1.3	90	04/07/2022	3:00	0.4	112.5
01/07/2022	4:00	1.3	225	02/07/2022	4:00	0.9	67.5	03/07/2022	4:00	1.3	90	04/07/2022	4:00	0.9	67.5
01/07/2022	5:00	1.3	112.5	02/07/2022	5:00	0.4	112.5	03/07/2022	5:00	0.9	112.5	04/07/2022	5:00	1.3	112.5
01/07/2022	6:00	1.3	112.5	02/07/2022	6:00	0.4	90	03/07/2022	6:00	0.9	90	04/07/2022	6:00	1.3	90
01/07/2022	7:00	1.3	180	02/07/2022	7:00	0.9	112.5	03/07/2022	7:00	0.9	112.5	04/07/2022	7:00	1.3	112.5
01/07/2022	8:00	0.9	135	02/07/2022	8:00	0.9	90	03/07/2022	8:00	1.3	90	04/07/2022	8:00	0.9	112.5
01/07/2022	9:00	0.9	90	02/07/2022	9:00	1.3	112.5	03/07/2022	9:00	1.3	67.5	04/07/2022	9:00	0.4	90
01/07/2022	10:00	1.3	180	02/07/2022	10:00	1.3	67.5	03/07/2022	10:00	1.8	135	04/07/2022	10:00	0.4	90
01/07/2022	11:00	1.3	157.5	02/07/2022	11:00	1.3	112.5	03/07/2022	11:00	1.8	135	04/07/2022	11:00	0.4	67.5
01/07/2022	12:00	1.3	90	02/07/2022	12:00	1.3	90	03/07/2022	12:00	1.8	90	04/07/2022	12:00	0.4	45
01/07/2022	13:00	1.3	90	02/07/2022	13:00	1.3	67.5	03/07/2022	13:00	2.2	135	04/07/2022	13:00	0.9	90
01/07/2022	14:00	1.3	135	02/07/2022	14:00	1.3	67.5	03/07/2022	14:00	1.8	135	04/07/2022	14:00	0.9	67.5
01/07/2022	15:00	1.3	112.5	02/07/2022	15:00	1.3	67.5	03/07/2022	15:00	2.7	90	04/07/2022	15:00	0.9	45
01/07/2022	16:00	1.3	112.5	02/07/2022	16:00	1.3	90	03/07/2022	16:00	1.3	112.5	04/07/2022	16:00	0.9	67.5
01/07/2022	17:00	0.9	112.5	02/07/2022	17:00	1.3	112.5	03/07/2022	17:00	0.9	90	04/07/2022	17:00	0.9	112.5
01/07/2022	18:00	0.9	135	02/07/2022	18:00	1.3	112.5	03/07/2022	18:00	0.9	90	04/07/2022	18:00	0.4	22.5
01/07/2022	19:00	1.3	135	02/07/2022	19:00	1.3	90	03/07/2022	19:00	0.4	90	04/07/2022	19:00	0.4	270
01/07/2022	20:00	0.9	157.5	02/07/2022	20:00	0.9	90	03/07/2022	20:00	0.9	67.5	04/07/2022	20:00	0.9	90
01/07/2022	21:00	0.9	157.5	02/07/2022	21:00	0.9	112.5	03/07/2022	21:00	0.9	90	04/07/2022	21:00	0.9	202.5
01/07/2022	22:00	0.9	112.5	02/07/2022	22:00	0.9	90	03/07/2022	22:00	0.9	45	04/07/2022	22:00	0.4	247.5
01/07/2022	23:00	0.4	112.5	02/07/2022	23:00	0.9	112.5	03/07/2022	23:00	0.4	112.5	04/07/2022	23:00	0.9	225

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
05/07/2022	0:00	0.4	135	06/07/2022	0:00	0.4	90	07/07/2022	0:00	0.9	135	08/07/2022	0:00	1.3	135
05/07/2022	1:00	0.4	112.5	06/07/2022	1:00	0.9	67.5	07/07/2022	1:00	0.9	157.5	08/07/2022	1:00	1.3	112.5
05/07/2022	2:00	0.4	112.5	06/07/2022	2:00	0.9	135	07/07/2022	2:00	0.9	90	08/07/2022	2:00	0.9	112.5
05/07/2022	3:00	0.9	90	06/07/2022	3:00	0.9	135	07/07/2022	3:00	0.9	135	08/07/2022	3:00	0.9	90
05/07/2022	4:00	0.4	90	06/07/2022	4:00	0.9	90	07/07/2022	4:00	0.9	270	08/07/2022	4:00	0.9	112.5
05/07/2022	5:00	0.4	112.5	06/07/2022	5:00	0.9	135	07/07/2022	5:00	0.9	225	08/07/2022	5:00	0.4	112.5
05/07/2022	6:00	0.4	112.5	06/07/2022	6:00	0.9	270	07/07/2022	6:00	0.9	270	08/07/2022	6:00	0.4	112.5
05/07/2022	7:00	0.9	112.5	06/07/2022	7:00	0.4	202.5	07/07/2022	7:00	0.4	225	08/07/2022	7:00	0.4	112.5
05/07/2022	8:00	0.9	112.5	06/07/2022	8:00	0.9	202.5	07/07/2022	8:00	1.3	112.5	08/07/2022	8:00	0.4	135
05/07/2022	9:00	0.9	67.5	06/07/2022	9:00	0.9	202.5	07/07/2022	9:00	0.9	202.5	08/07/2022	9:00	0.9	112.5
05/07/2022	10:00	1.3	67.5	06/07/2022	10:00	0.4	225	07/07/2022	10:00	1.3	90	08/07/2022	10:00	0.4	112.5
05/07/2022	11:00	1.3	90	06/07/2022	11:00	0.4	225	07/07/2022	11:00	1.8	202.5	08/07/2022	11:00	1.3	112.5
05/07/2022	12:00	0.9	112.5	06/07/2022	12:00	0.4	225	07/07/2022	12:00	2.2	202.5	08/07/2022	12:00	1.3	90
05/07/2022	13:00	1.3	90	06/07/2022	13:00	0.4	90	07/07/2022	13:00	1.8	112.5	08/07/2022	13:00	1.3	22.5
05/07/2022	14:00	0.9	67.5	06/07/2022	14:00	0.4	247.5	07/07/2022	14:00	1.3	45	08/07/2022	14:00	0.9	315
05/07/2022	15:00	0.9	67.5	06/07/2022	15:00	0.4	247.5	07/07/2022	15:00	1.8	270	08/07/2022	15:00	1.3	315
05/07/2022	16:00	1.3	67.5	06/07/2022	16:00	0.4	247.5	07/07/2022	16:00	2.2	270	08/07/2022	16:00	1.3	112.5
05/07/2022	17:00	0.4	45	06/07/2022	17:00	0.4	225	07/07/2022	17:00	1.3	135	08/07/2022	17:00	1.3	112.5
05/07/2022	18:00	0.9	135	06/07/2022	18:00	0.4	225	07/07/2022	18:00	1.8	225	08/07/2022	18:00	0.9	112.5
05/07/2022	19:00	0.9	135	06/07/2022	19:00	0.4	157.5	07/07/2022	19:00	1.8	202.5	08/07/2022	19:00	0.4	67.5
05/07/2022	20:00	0.4	225	06/07/2022	20:00	0.4	135	07/07/2022	20:00	1.3	225	08/07/2022	20:00	1.3	247.5
05/07/2022	21:00	0.4	247.5	06/07/2022	21:00	0.9	135	07/07/2022	21:00	1.8	247.5	08/07/2022	21:00	1.3	22.5
05/07/2022	22:00	0.4	247.5	06/07/2022	22:00	0.9	135	07/07/2022	22:00	1.8	292.5	08/07/2022	22:00	0.4	90
05/07/2022	23:00	0.9	270	06/07/2022	23:00	0.9	112.5	07/07/2022	23:00	0.9	135	08/07/2022	23:00	0.4	45

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
09/07/2022	0:00	1.3	157.5	10/07/2022	0:00	0.9	135	11/07/2022	0:00	0.9	112.5	12/07/2022	0:00	0.4	90
09/07/2022	1:00	0.9	112.5	10/07/2022	1:00	1.3	112.5	11/07/2022	1:00	0.4	90	12/07/2022	1:00	0.9	112.5
09/07/2022	2:00	0.9	135	10/07/2022	2:00	1.8	135	11/07/2022	2:00	0.9	90	12/07/2022	2:00	0.9	112.5
09/07/2022	3:00	0.9	112.5	10/07/2022	3:00	1.3	135	11/07/2022	3:00	1.3	112.5	12/07/2022	3:00	0.9	112.5
09/07/2022	4:00	1.3	112.5	10/07/2022	4:00	1.3	112.5	11/07/2022	4:00	0.9	112.5	12/07/2022	4:00	0.4	112.5
09/07/2022	5:00	1.3	112.5	10/07/2022	5:00	0.9	90	11/07/2022	5:00	0.9	67.5	12/07/2022	5:00	0.9	135
09/07/2022	6:00	1.8	112.5	10/07/2022	6:00	0.9	112.5	11/07/2022	6:00	0.9	90	12/07/2022	6:00	0.9	90
09/07/2022	7:00	0.9	90	10/07/2022	7:00	1.3	90	11/07/2022	7:00	0.9	112.5	12/07/2022	7:00	1.3	112.5
09/07/2022	8:00	1.3	135	10/07/2022	8:00	1.3	112.5	11/07/2022	8:00	0.9	135	12/07/2022	8:00	2.2	90
09/07/2022	9:00	0.9	112.5	10/07/2022	9:00	1.3	112.5	11/07/2022	9:00	0.9	135	12/07/2022	9:00	1.8	112.5
09/07/2022	10:00	0.9	90	10/07/2022	10:00	0.9	112.5	11/07/2022	10:00	1.3	112.5	12/07/2022	10:00	1.8	112.5
09/07/2022	11:00	0.9	112.5	10/07/2022	11:00	0.9	112.5	11/07/2022	11:00	0.9	112.5	12/07/2022	11:00	1.8	112.5
09/07/2022	12:00	1.3	90	10/07/2022	12:00	1.3	112.5	11/07/2022	12:00	0.9	112.5	12/07/2022	12:00	1.3	112.5
09/07/2022	13:00	1.3	112.5	10/07/2022	13:00	1.3	135	11/07/2022	13:00	1.3	112.5	12/07/2022	13:00	1.8	135
09/07/2022	14:00	0.9	90	10/07/2022	14:00	0.9	112.5	11/07/2022	14:00	1.3	90	12/07/2022	14:00	1.8	135
09/07/2022	15:00	0.9	67.5	10/07/2022	15:00	0.9	112.5	11/07/2022	15:00	1.3	90	12/07/2022	15:00	1.3	112.5
09/07/2022	16:00	1.3	67.5	10/07/2022	16:00	1.3	112.5	11/07/2022	16:00	1.3	112.5	12/07/2022	16:00	0.9	135
09/07/2022	17:00	0.4	67.5	10/07/2022	17:00	0.9	112.5	11/07/2022	17:00	1.3	135	12/07/2022	17:00	1.3	112.5
09/07/2022	18:00	1.3	45	10/07/2022	18:00	0.9	135	11/07/2022	18:00	0.9	135	12/07/2022	18:00	1.3	90
09/07/2022	19:00	0.9	45	10/07/2022	19:00	0.9	112.5	11/07/2022	19:00	0.9	112.5	12/07/2022	19:00	1.3	135
09/07/2022	20:00	0.9	112.5	10/07/2022	20:00	0.9	135	11/07/2022	20:00	0.9	135	12/07/2022	20:00	0.9	112.5
09/07/2022	21:00	0.9	90	10/07/2022	21:00	1.3	90	11/07/2022	21:00	1.3	135	12/07/2022	21:00	0.4	112.5
09/07/2022	22:00	1.3	90	10/07/2022	22:00	1.3	112.5	11/07/2022	22:00	0.9	67.5	12/07/2022	22:00	0.9	90
09/07/2022	23:00	0.9	67.5	10/07/2022	23:00	1.3	112.5	11/07/2022	23:00	0.9	135	12/07/2022	23:00	0.4	135



Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
13/07/2022	0:00	1.3	90	14/07/2022	0:00	0.4	112.5	15/07/2022	0:00	0.9	225	16/07/2022	0:00	0.9	225
13/07/2022	1:00	0.4	112.5	14/07/2022	1:00	0.4	112.5	15/07/2022	1:00	0.9	270	16/07/2022	1:00	1.3	247.5
13/07/2022	2:00	0.9	135	14/07/2022	2:00	0.4	135	15/07/2022	2:00	0.9	247.5	16/07/2022	2:00	0.9	247.5
13/07/2022	3:00	0.9	112.5	14/07/2022	3:00	1.3	135	15/07/2022	3:00	1.3	247.5	16/07/2022	3:00	0.9	247.5
13/07/2022	4:00	0.9	135	14/07/2022	4:00	1.3	135	15/07/2022	4:00	1.3	270	16/07/2022	4:00	0.9	270
13/07/2022	5:00	0.9	112.5	14/07/2022	5:00	1.3	247.5	15/07/2022	5:00	1.3	247.5	16/07/2022	5:00	1.3	247.5
13/07/2022	6:00	0.9	112.5	14/07/2022	6:00	0.9	157.5	15/07/2022	6:00	1.3	202.5	16/07/2022	6:00	1.3	247.5
13/07/2022	7:00	1.3	112.5	14/07/2022	7:00	1.3	157.5	15/07/2022	7:00	1.8	270	16/07/2022	7:00	0.9	247.5
13/07/2022	8:00	2.2	90	14/07/2022	8:00	1.3	157.5	15/07/2022	8:00	2.7	247.5	16/07/2022	8:00	1.8	247.5
13/07/2022	9:00	2.2	22.5	14/07/2022	9:00	1.3	180	15/07/2022	9:00	0.9	247.5	16/07/2022	9:00	1.3	270
13/07/2022	10:00	2.2	22.5	14/07/2022	10:00	1.3	225	15/07/2022	10:00	1.8	247.5	16/07/2022	10:00	1.3	247.5
13/07/2022	11:00	2.2	135	14/07/2022	11:00	0.4	225	15/07/2022	11:00	0.9	247.5	16/07/2022	11:00	0.9	270
13/07/2022	12:00	1.8	135	14/07/2022	12:00	0.9	270	15/07/2022	12:00	2.2	225	16/07/2022	12:00	1.3	247.5
13/07/2022	13:00	1.8	112.5	14/07/2022	13:00	0.4	292.5	15/07/2022	13:00	0.9	247.5	16/07/2022	13:00	2.7	225
13/07/2022	14:00	1.8	135	14/07/2022	14:00	0.9	270	15/07/2022	14:00	1.3	270	16/07/2022	14:00	3.1	270
13/07/2022	15:00	1.8	135	14/07/2022	15:00	1.3	292.5	15/07/2022	15:00	0.9	247.5	16/07/2022	15:00	2.7	247.5
13/07/2022	16:00	2.2	135	14/07/2022	16:00	1.8	270	15/07/2022	16:00	1.3	247.5	16/07/2022	16:00	3.6	270
13/07/2022	17:00	1.8	112.5	14/07/2022	17:00	1.3	270	15/07/2022	17:00	1.3	247.5	16/07/2022	17:00	1.8	270
13/07/2022	18:00	1.3	112.5	14/07/2022	18:00	1.3	90	15/07/2022	18:00	1.3	225	16/07/2022	18:00	1.3	270
13/07/2022	19:00	1.3	112.5	14/07/2022	19:00	0.9	112.5	15/07/2022	19:00	1.3	270	16/07/2022	19:00	0.9	292.5
13/07/2022	20:00	0.9	112.5	14/07/2022	20:00	0.9	270	15/07/2022	20:00	1.8	270	16/07/2022	20:00	0.9	225
13/07/2022	21:00	0.9	112.5	14/07/2022	21:00	0.4	112.5	15/07/2022	21:00	1.3	247.5	16/07/2022	21:00	0.9	247.5
13/07/2022	22:00	0.9	112.5	14/07/2022	22:00	0.4	135	15/07/2022	22:00	1.3	270	16/07/2022	22:00	0.9	247.5
13/07/2022	23:00	1.3	135	14/07/2022	23:00	0.4	112.5	15/07/2022	23:00	1.8	270	16/07/2022	23:00	0.4	292.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
17/07/2022	0:00	0.9	247.5	18/07/2022	0:00	0.9	270	19/07/2022	0:00	0.9	157.5	20/07/2022	0:00	1.8	112.5
17/07/2022	1:00	0.9	247.5	18/07/2022	1:00	1.3	247.5	19/07/2022	1:00	0.9	67.5	20/07/2022	1:00	1.8	112.5
17/07/2022	2:00	0.9	292.5	18/07/2022	2:00	1.3	270	19/07/2022	2:00	0.4	135	20/07/2022	2:00	2.2	112.5
17/07/2022	3:00	1.3	22.5	18/07/2022	3:00	0.9	270	19/07/2022	3:00	0.9	90	20/07/2022	3:00	1.8	135
17/07/2022	4:00	0.9	270	18/07/2022	4:00	0.9	292.5	19/07/2022	4:00	0.9	157.5	20/07/2022	4:00	1.8	112.5
17/07/2022	5:00	0.9	180	18/07/2022	5:00	0.9	270	19/07/2022	5:00	0.4	135	20/07/2022	5:00	1.8	90
17/07/2022	6:00	0.9	247.5	18/07/2022	6:00	0.4	180	19/07/2022	6:00	0.4	112.5	20/07/2022	6:00	1.8	112.5
17/07/2022	7:00	0.9	337.5	18/07/2022	7:00	0.9	135	19/07/2022	7:00	0.9	135	20/07/2022	7:00	2.2	112.5
17/07/2022	8:00	0.9	22.5	18/07/2022	8:00	0.9	270	19/07/2022	8:00	0.9	112.5	20/07/2022	8:00	2.2	112.5
17/07/2022	9:00	0.9	270	18/07/2022	9:00	0.9	247.5	19/07/2022	9:00	0.9	90	20/07/2022	9:00	1.8	112.5
17/07/2022	10:00	1.3	270	18/07/2022	10:00	0.9	247.5	19/07/2022	10:00	0.9	135	20/07/2022	10:00	1.8	90
17/07/2022	11:00	0.9	247.5	18/07/2022	11:00	0.9	67.5	19/07/2022	11:00	0.9	90	20/07/2022	11:00	2.2	112.5
17/07/2022	12:00	1.8	225	18/07/2022	12:00	0.4	135	19/07/2022	12:00	1.3	135	20/07/2022	12:00	1.8	112.5
17/07/2022	13:00	1.8	225	18/07/2022	13:00	0.9	90	19/07/2022	13:00	0.4	90	20/07/2022	13:00	1.3	112.5
17/07/2022	14:00	0.9	247.5	18/07/2022	14:00	0.9	157.5	19/07/2022	14:00	0.4	315	20/07/2022	14:00	1.8	112.5
17/07/2022	15:00	1.8	247.5	18/07/2022	15:00	0.9	157.5	19/07/2022	15:00	0.4	270	20/07/2022	15:00	1.3	112.5
17/07/2022	16:00	0.9	247.5	18/07/2022	16:00	0.9	135	19/07/2022	16:00	0.4	67.5	20/07/2022	16:00	1.8	112.5
17/07/2022	17:00	0.9	90	18/07/2022	17:00	0.4	90	19/07/2022	17:00	0.9	180	20/07/2022	17:00	1.8	135
17/07/2022	18:00	0.9	90	18/07/2022	18:00	0.4	135	19/07/2022	18:00	1.8	67.5	20/07/2022	18:00	1.8	112.5
17/07/2022	19:00	0.9	135	18/07/2022	19:00	0.4	270	19/07/2022	19:00	1.3	22.5	20/07/2022	19:00	1.3	90
17/07/2022	20:00	0.4	135	18/07/2022	20:00	0.4	270	19/07/2022	20:00	1.8	270	20/07/2022	20:00	1.3	135
17/07/2022	21:00	0.4	112.5	18/07/2022	21:00	0.9	292.5	19/07/2022	21:00	1.8	180	20/07/2022	21:00	1.3	112.5
17/07/2022	22:00	0.4	112.5	18/07/2022	22:00	0.9	112.5	19/07/2022	22:00	1.8	135	20/07/2022	22:00	0.9	292.5
17/07/2022	23:00	0.4	112.5	18/07/2022	23:00	0.9	157.5	19/07/2022	23:00	1.3	270	20/07/2022	23:00	1.3	292.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
21/07/2022	0:00	0.9	45	22/07/2022	0:00	0.4	247.5	23/07/2022	0:00	0.4	292.5	24/07/2022	0:00	0.9	157.5
21/07/2022	1:00	0.9	45	22/07/2022	1:00	0	247.5	23/07/2022	1:00	0.4	292.5	24/07/2022	1:00	0.9	247.5
21/07/2022	2:00	0.9	67.5	22/07/2022	2:00	0	225	23/07/2022	2:00	0.9	337.5	24/07/2022	2:00	1.3	270
21/07/2022	3:00	0.9	112.5	22/07/2022	3:00	0.4	225	23/07/2022	3:00	0.4	292.5	24/07/2022	3:00	1.8	247.5
21/07/2022	4:00	0.9	112.5	22/07/2022	4:00	1.3	247.5	23/07/2022	4:00	0.4	292.5	24/07/2022	4:00	0.9	247.5
21/07/2022	5:00	0.9	112.5	22/07/2022	5:00	1.3	247.5	23/07/2022	5:00	1.3	270	24/07/2022	5:00	1.3	202.5
21/07/2022	6:00	1.3	112.5	22/07/2022	6:00	1.8	225	23/07/2022	6:00	0.4	270	24/07/2022	6:00	1.3	247.5
21/07/2022	7:00	1.3	112.5	22/07/2022	7:00	1.3	225	23/07/2022	7:00	0.4	292.5	24/07/2022	7:00	2.2	292.5
21/07/2022	8:00	0.9	135	22/07/2022	8:00	0.9	292.5	23/07/2022	8:00	0.4	247.5	24/07/2022	8:00	1.3	270
21/07/2022	9:00	0.9	90	22/07/2022	9:00	1.3	112.5	23/07/2022	9:00	0.4	247.5	24/07/2022	9:00	0.9	202.5
21/07/2022	10:00	0.9	112.5	22/07/2022	10:00	1.8	135	23/07/2022	10:00	0.4	247.5	24/07/2022	10:00	0.9	247.5
21/07/2022	11:00	0.9	135	22/07/2022	11:00	0.9	135	23/07/2022	11:00	0.4	202.5	24/07/2022	11:00	1.3	270
21/07/2022	12:00	0.9	90	22/07/2022	12:00	1.3	247.5	23/07/2022	12:00	0.9	247.5	24/07/2022	12:00	1.3	315
21/07/2022	13:00	0.4	67.5	22/07/2022	13:00	0.4	270	23/07/2022	13:00	0.4	247.5	24/07/2022	13:00	0.4	292.5
21/07/2022	14:00	0.9	112.5	22/07/2022	14:00	0.9	292.5	23/07/2022	14:00	0.9	247.5	24/07/2022	14:00	0.4	292.5
21/07/2022	15:00	1.8	90	22/07/2022	15:00	0.9	292.5	23/07/2022	15:00	0.4	270	24/07/2022	15:00	0.4	22.5
21/07/2022	16:00	1.8	135	22/07/2022	16:00	0.4	292.5	23/07/2022	16:00	0.4	157.5	24/07/2022	16:00	0.4	67.5
21/07/2022	17:00	1.3	112.5	22/07/2022	17:00	0.4	225	23/07/2022	17:00	0.4	90	24/07/2022	17:00	0.4	45
21/07/2022	18:00	1.3	135	22/07/2022	18:00	0.4	270	23/07/2022	18:00	0.4	270	24/07/2022	18:00	0.4	270
21/07/2022	19:00	0.9	112.5	22/07/2022	19:00	0.9	90	23/07/2022	19:00	0.4	270	24/07/2022	19:00	0.4	225
21/07/2022	20:00	1.3	112.5	22/07/2022	20:00	0.9	112.5	23/07/2022	20:00	0.4	247.5	24/07/2022	20:00	0.4	270
21/07/2022	21:00	1.3	157.5	22/07/2022	21:00	0.9	292.5	23/07/2022	21:00	0.4	270	24/07/2022	21:00	0.4	247.5
21/07/2022	22:00	0.9	135	22/07/2022	22:00	0.9	270	23/07/2022	22:00	1.3	157.5	24/07/2022	22:00	0.4	225
21/07/2022	23:00	0.9	112.5	22/07/2022	23:00	0.9	270	23/07/2022	23:00	0.4	67.5	24/07/2022	23:00	0.4	270

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
25/07/2022	0:00	0.4	247.5	26/07/2022	0:00	0.4	135	27/07/2022	0:00	0.9	112.5	28/07/2022	0:00	0.9	157.5
25/07/2022	1:00	0.9	247.5	26/07/2022	1:00	0.9	135	27/07/2022	1:00	0.4	315	28/07/2022	1:00	1.3	90
25/07/2022	2:00	1.8	247.5	26/07/2022	2:00	0.9	112.5	27/07/2022	2:00	0.9	270	28/07/2022	2:00	0.4	315
25/07/2022	3:00	1.8	225	26/07/2022	3:00	0.4	135	27/07/2022	3:00	0.9	67.5	28/07/2022	3:00	1.3	270
25/07/2022	4:00	1.3	247.5	26/07/2022	4:00	0.4	90	27/07/2022	4:00	1.3	67.5	28/07/2022	4:00	1.3	270
25/07/2022	5:00	1.3	247.5	26/07/2022	5:00	0.4	112.5	27/07/2022	5:00	1.8	90	28/07/2022	5:00	1.3	225
25/07/2022	6:00	1.3	112.5	26/07/2022	6:00	0.4	135	27/07/2022	6:00	0.9	247.5	28/07/2022	6:00	0.9	135
25/07/2022	7:00	0.9	135	26/07/2022	7:00	0.4	135	27/07/2022	7:00	1.3	247.5	28/07/2022	7:00	0.4	112.5
25/07/2022	8:00	0.9	247.5	26/07/2022	8:00	0.4	135	27/07/2022	8:00	1.3	225	28/07/2022	8:00	0.9	157.5
25/07/2022	9:00	0.9	270	26/07/2022	9:00	0.9	112.5	27/07/2022	9:00	1.8	225	28/07/2022	9:00	0.9	135
25/07/2022	10:00	0.4	315	26/07/2022	10:00	0.4	135	27/07/2022	10:00	0.9	225	28/07/2022	10:00	0.9	135
25/07/2022	11:00	0.4	247.5	26/07/2022	11:00	0.9	135	27/07/2022	11:00	1.3	247.5	28/07/2022	11:00	1.3	270
25/07/2022	12:00	0.4	270	26/07/2022	12:00	0.4	112.5	27/07/2022	12:00	1.3	180	28/07/2022	12:00	1.3	22.5
25/07/2022	13:00	0.9	270	26/07/2022	13:00	0.4	112.5	27/07/2022	13:00	0.4	270	28/07/2022	13:00	1.3	67.5
25/07/2022	14:00	0.9	247.5	26/07/2022	14:00	0.4	247.5	27/07/2022	14:00	0.4	270	28/07/2022	14:00	0.9	270
25/07/2022	15:00	0.9	270	26/07/2022	15:00	0.9	292.5	27/07/2022	15:00	0.4	247.5	28/07/2022	15:00	0.9	247.5
25/07/2022	16:00	0.9	90	26/07/2022	16:00	0.4	247.5	27/07/2022	16:00	0.4	247.5	28/07/2022	16:00	0.4	270
25/07/2022	17:00	0.4	135	26/07/2022	17:00	0.9	270	27/07/2022	17:00	0.9	270	28/07/2022	17:00	0.4	112.5
25/07/2022	18:00	0.4	67.5	26/07/2022	18:00	0.9	247.5	27/07/2022	18:00	0.9	247.5	28/07/2022	18:00	0.4	180
25/07/2022	19:00	0.4	67.5	26/07/2022	19:00	0.9	292.5	27/07/2022	19:00	0.9	247.5	28/07/2022	19:00	0.4	45
25/07/2022	20:00	0.4	292.5	26/07/2022	20:00	0.9	135	27/07/2022	20:00	0.4	22.5	28/07/2022	20:00	0.4	225
25/07/2022	21:00	0.4	292.5	26/07/2022	21:00	0.4	270	27/07/2022	21:00	0.4	292.5	28/07/2022	21:00	0.4	270
25/07/2022	22:00	0.4	22.5	26/07/2022	22:00	0.4	247.5	27/07/2022	22:00	0.4	337.5	28/07/2022	22:00	0.4	135
25/07/2022	23:00	0.4	67.5	26/07/2022	23:00	0.4	292.5	27/07/2022	23:00	0.4	315	28/07/2022	23:00	0.4	315

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
29/07/2022	0:00	0	247.5	30/07/2022	0:00	0.9	90	31/07/2022	0:00	0.4	135				
29/07/2022	1:00	0	247.5	30/07/2022	1:00	1.3	90	31/07/2022	1:00	0.9	180				
29/07/2022	2:00	0	247.5	30/07/2022	2:00	0.9	90	31/07/2022	2:00	0.4	247.5				
29/07/2022	3:00	0	247.5	30/07/2022	3:00	0.4	90	31/07/2022	3:00	0.4	270				
29/07/2022	4:00	0.4	225	30/07/2022	4:00	0.4	90	31/07/2022	4:00	0.4	270				
29/07/2022	5:00	0.9	225	30/07/2022	5:00	1.3	67.5	31/07/2022	5:00	0.4	247.5				
29/07/2022	6:00	1.3	225	30/07/2022	6:00	1.3	112.5	31/07/2022	6:00	0.9	247.5				
29/07/2022	7:00	0.9	247.5	30/07/2022	7:00	2.2	22.5	31/07/2022	7:00	1.3	270				
29/07/2022	8:00	0.9	247.5	30/07/2022	8:00	1.3	270	31/07/2022	8:00	0.9	270				
29/07/2022	9:00	0.9	247.5	30/07/2022	9:00	1.3	270	31/07/2022	9:00	0.9	247.5				
29/07/2022	10:00	0.4	135	30/07/2022	10:00	0.4	337.5	31/07/2022	10:00	0.4	247.5				
29/07/2022	11:00	0.9	112.5	30/07/2022	11:00	1.3	270	31/07/2022	11:00	0.9	247.5				
29/07/2022	12:00	0.4	67.5	30/07/2022	12:00	0.9	247.5	31/07/2022	12:00	1.3	247.5				
29/07/2022	13:00	0.4	247.5	30/07/2022	13:00	0.4	225	31/07/2022	13:00	0.9	270				
29/07/2022	14:00	0.4	270	30/07/2022	14:00	0.4	180	31/07/2022	14:00	0.9	247.5				
29/07/2022	15:00	0.4	135	30/07/2022	15:00	0.4	180	31/07/2022	15:00	0.9	247.5				
29/07/2022	16:00	0.9	135	30/07/2022	16:00	0.4	225	31/07/2022	16:00	1.8	270				
29/07/2022	17:00	0.9	247.5	30/07/2022	17:00	0.9	225	31/07/2022	17:00	1.3	247.5				
29/07/2025	18:00	0.9	270	30/07/2022	18:00	1.3	135	31/07/2022	18:00	0.9	247.5				
29/07/2022	19:00	0	270	30/07/2022	19:00	1.8	247.5	31/07/2022	19:00	0.9	22.5				
29/07/2022	20:00	0.4	292.5	30/07/2022	20:00	1.3	247.5	31/07/2022	20:00	0.4	22.5				
29/07/2022	21:00	0	270	30/07/2022	21:00	0.9	135	31/07/2022	21:00	0.4	337.5				
29/07/2022	22:00	0	225	30/07/2022	22:00	0.4	135	31/07/2022	22:00	0.4	337.5				
29/07/2022	23:00	0.4	180	30/07/2022	23:00	0.4	135	31/07/2022	23:00	0.9	270				

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
01/08/2022	0:00	0.4	247.5	02/08/2022	0:00	0.4	270	03/08/2022	0:00	2.2	67.5	04/08/2022	0:00	2.7	90
01/08/2022	1:00	0.4	270	02/08/2022	1:00	0.4	247.5	03/08/2022	1:00	2.2	67.5	04/08/2022	1:00	2.7	157.5
01/08/2022	2:00	0.4	247.5	02/08/2022	2:00	0.4	315	03/08/2022	2:00	2.2	67.5	04/08/2022	2:00	3.1	270
01/08/2022	3:00	0.9	247.5	02/08/2022	3:00	0.9	135	03/08/2022	3:00	1.8	45	04/08/2022	3:00	2.7	90
01/08/2022	4:00	0.4	247.5	02/08/2022	4:00	1.3	135	03/08/2022	4:00	1.3	67.5	04/08/2022	4:00	3.1	247.5
01/08/2022	5:00	0.9	247.5	02/08/2022	5:00	1.3	157.5	03/08/2022	5:00	1.8	45	04/08/2022	5:00	3.1	112.5
01/08/2022	6:00	0.9	247.5	02/08/2022	6:00	1.8	202.5	03/08/2022	6:00	2.2	67.5	04/08/2022	6:00	2.7	270
01/08/2022	7:00	0.4	270	02/08/2022	7:00	0.9	292.5	03/08/2022	7:00	1.8	67.5	04/08/2022	7:00	3.1	157.5
01/08/2022	8:00	0.4	247.5	02/08/2022	8:00	0.9	270	03/08/2022	8:00	1.8	67.5	04/08/2022	8:00	2.7	112.5
01/08/2022	9:00	0.4	270	02/08/2022	9:00	0.9	270	03/08/2022	9:00	2.2	90	04/08/2022	9:00	3.1	270
01/08/2022	10:00	0.4	270	02/08/2022	10:00	0.9	225	03/08/2022	10:00	2.2	112.5	04/08/2022	10:00	3.6	247.5
01/08/2022	11:00	0.4	270	02/08/2022	11:00	0.4	247.5	03/08/2022	11:00	2.2	90	04/08/2022	11:00	2.7	247.5
01/08/2022	12:00	0.9	270	02/08/2022	12:00	0.4	225	03/08/2022	12:00	2.7	67.5	04/08/2022	12:00	3.1	225
01/08/2022	13:00	0.4	247.5	02/08/2022	13:00	0.4	247.5	03/08/2022	13:00	2.2	67.5	04/08/2022	13:00	3.1	112.5
01/08/2022	14:00	0.4	247.5	02/08/2022	14:00	0.9	247.5	03/08/2022	14:00	1.8	67.5	04/08/2022	14:00	3.6	112.5
01/08/2022	15:00	0.9	247.5	02/08/2022	15:00	0.4	247.5	03/08/2022	15:00	2.2	45	04/08/2022	15:00	2.7	90
01/08/2022	16:00	0.9	247.5	02/08/2022	16:00	0.4	270	03/08/2022	16:00	1.8	112.5	04/08/2022	16:00	3.6	90
01/08/2022	17:00	0.9	247.5	02/08/2022	17:00	0.9	247.5	03/08/2022	17:00	1.3	135	04/08/2022	17:00	3.6	112.5
01/08/2022	18:00	0.9	270	02/08/2022	18:00	1.3	247.5	03/08/2022	18:00	1.3	157.5	04/08/2022	18:00	2.2	90
01/08/2022	19:00	0.9	247.5	02/08/2022	19:00	0.9	67.5	03/08/2022	19:00	1.3	90	04/08/2022	19:00	3.6	112.5
01/08/2022	20:00	0.9	270	02/08/2022	20:00	0.4	112.5	03/08/2022	20:00	0.9	135	04/08/2022	20:00	2.7	90
01/08/2022	21:00	1.3	270	02/08/2022	21:00	1.3	135	03/08/2022	21:00	1.3	112.5	04/08/2022	21:00	2.7	67.5
01/08/2022	22:00	1.3	90	02/08/2022	22:00	1.3	112.5	03/08/2022	22:00	1.3	247.5	04/08/2022	22:00	2.7	135
01/08/2022	23:00	0.4	90	02/08/2022	23:00	0.9	247.5	03/08/2022	23:00	1.3	247.5	04/08/2022	23:00	3.1	112.5



Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
05/08/2022	0:00	3.6	112.5	06/08/2022	0:00	3.1	247.5	07/08/2022	0:00	1.8	90	08/08/2022	0:00	0.4	90
05/08/2022	1:00	2.7	135	06/08/2022	1:00	3.6	270	07/08/2022	1:00	2.2	45	08/08/2022	1:00	0.9	90
05/08/2022	2:00	2.2	90	06/08/2022	2:00	2.7	247.5	07/08/2022	2:00	2.2	225	08/08/2022	2:00	0.9	112.5
05/08/2022	3:00	3.1	67.5	06/08/2022	3:00	3.1	247.5	07/08/2022	3:00	2.2	112.5	08/08/2022	3:00	1.3	90
05/08/2022	4:00	2.2	90	06/08/2022	4:00	3.6	247.5	07/08/2022	4:00	2.2	67.5	08/08/2022	4:00	1.3	90
05/08/2022	5:00	2.7	112.5	06/08/2022	5:00	3.1	90	07/08/2022	5:00	1.8	225	08/08/2022	5:00	1.3	112.5
05/08/2022	6:00	2.2	67.5	06/08/2022	6:00	3.1	45	07/08/2022	6:00	2.2	225	08/08/2022	6:00	1.3	135
05/08/2022	7:00	1.8	112.5	06/08/2022	7:00	3.1	225	07/08/2022	7:00	2.2	247.5	08/08/2022	7:00	1.3	112.5
05/08/2022	8:00	2.7	90	06/08/2022	8:00	3.6	90	07/08/2022	8:00	1.8	247.5	08/08/2022	8:00	0.4	112.5
05/08/2022	9:00	4	112.5	06/08/2022	9:00	3.1	112.5	07/08/2022	9:00	2.2	247.5	08/08/2022	9:00	0.4	135
05/08/2022	10:00	5.4	112.5	06/08/2022	10:00	3.6	90	07/08/2022	10:00	2.2	247.5	08/08/2022	10:00	0.9	135
05/08/2022	11:00	3.6	90	06/08/2022	11:00	4.9	112.5	07/08/2022	11:00	2.2	270	08/08/2022	11:00	0.9	112.5
05/08/2022	12:00	4	90	06/08/2022	12:00	3.1	67.5	07/08/2022	12:00	2.2	247.5	08/08/2022	12:00	1.3	90
05/08/2022	13:00	3.1	67.5	06/08/2022	13:00	3.1	112.5	07/08/2022	13:00	1.3	247.5	08/08/2022	13:00	0.9	135
05/08/2022	14:00	3.6	45	06/08/2022	14:00	4	90	07/08/2022	14:00	0.9	225	08/08/2022	14:00	0.9	135
05/08/2022	15:00	4.5	90	06/08/2022	15:00	4	67.5	07/08/2022	15:00	0.9	202.5	08/08/2022	15:00	0.9	112.5
05/08/2022	16:00	4.9	67.5	06/08/2022	16:00	3.1	67.5	07/08/2022	16:00	1.3	225	08/08/2022	16:00	0.4	112.5
05/08/2022	17:00	4.5	90	06/08/2022	17:00	3.1	67.5	07/08/2022	17:00	1.3	247.5	08/08/2022	17:00	0.9	112.5
05/08/2022	18:00	3.6	157.5	06/08/2022	18:00	3.6	90	07/08/2022	18:00	1.3	225	08/08/2022	18:00	0.4	112.5
05/08/2022	19:00	3.6	270	06/08/2022	19:00	3.1	90	07/08/2022	19:00	1.3	225	08/08/2022	19:00	0.4	112.5
05/08/2022	20:00	3.6	90	06/08/2022	20:00	4	90	07/08/2022	20:00	1.3	112.5	08/08/2022	20:00	0.9	90
05/08/2022	21:00	3.6	247.5	06/08/2022	21:00	2.2	112.5	07/08/2022	21:00	1.3	90	08/08/2022	21:00	0.4	90
05/08/2022	22:00	3.1	112.5	06/08/2022	22:00	2.7	112.5	07/08/2022	22:00	1.3	112.5	08/08/2022	22:00	0.9	112.5
05/08/2022	23:00	5.4	270	06/08/2022	23:00	3.6	90	07/08/2022	23:00	0.9	112.5	08/08/2022	23:00	1.3	112.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
09/08/2022	0:00	1.8	112.5	10/08/2022	0:00	0.9	247.5	11/08/2022	0:00	1.3	90	12/08/2022	0:00	1.8	90
09/08/2022	1:00	0.9	135	10/08/2022	1:00	1.8	247.5	11/08/2022	1:00	0.9	90	12/08/2022	1:00	1.8	67.5
09/08/2022	2:00	1.3	112.5	10/08/2022	2:00	1.8	247.5	11/08/2022	2:00	0.9	112.5	12/08/2022	2:00	1.8	90
09/08/2022	3:00	0.9	90	10/08/2022	3:00	1.3	270	11/08/2022	3:00	0.9	135	12/08/2022	3:00	2.7	135
09/08/2022	4:00	1.3	135	10/08/2022	4:00	1.3	247.5	11/08/2022	4:00	1.3	112.5	12/08/2022	4:00	2.2	112.5
09/08/2022	5:00	1.8	90	10/08/2022	5:00	1.8	247.5	11/08/2022	5:00	1.3	112.5	12/08/2022	5:00	2.7	247.5
09/08/2022	6:00	2.2	90	10/08/2022	6:00	1.3	247.5	11/08/2022	6:00	1.3	112.5	12/08/2022	6:00	3.1	247.5
09/08/2022	7:00	1.8	112.5	10/08/2022	7:00	1.8	247.5	11/08/2022	7:00	1.3	112.5	12/08/2022	7:00	3.6	67.5
09/08/2022	8:00	1.3	112.5	10/08/2022	8:00	1.3	270	11/08/2022	8:00	1.3	135	12/08/2022	8:00	1.8	22.5
09/08/2022	9:00	1.8	112.5	10/08/2022	9:00	1.8	112.5	11/08/2022	9:00	1.3	135	12/08/2022	9:00	2.7	135
09/08/2022	10:00	2.2	112.5	10/08/2022	10:00	2.2	270	11/08/2022	10:00	1.3	247.5	12/08/2022	10:00	0.4	180
09/08/2022	11:00	1.3	90	10/08/2022	11:00	1.3	45	11/08/2022	11:00	1.3	247.5	12/08/2022	11:00	0.9	337.5
09/08/2022	12:00	1.8	90	10/08/2022	12:00	1.3	270	11/08/2022	12:00	1.8	270	12/08/2022	12:00	1.3	22.5
09/08/2022	13:00	1.8	112.5	10/08/2022	13:00	0.9	225	11/08/2022	13:00	2.7	247.5	12/08/2022	13:00	1.3	67.5
09/08/2022	14:00	1.8	112.5	10/08/2022	14:00	1.8	270	11/08/2022	14:00	0.9	247.5	12/08/2022	14:00	1.3	337.5
09/08/2022	15:00	1.8	112.5	10/08/2022	15:00	0.9	270	11/08/2022	15:00	1.8	247.5	12/08/2022	15:00	0.9	22.5
09/08/2022	16:00	1.3	112.5	10/08/2022	16:00	0.9	112.5	11/08/2022	16:00	1.3	225	12/08/2022	16:00	2.2	22.5
09/08/2022	17:00	1.3	112.5	10/08/2022	17:00	1.3	112.5	11/08/2022	17:00	1.8	247.5	12/08/2022	17:00	2.2	315
09/08/2022	18:00	1.8	90	10/08/2022	18:00	1.3	135	11/08/2022	18:00	1.8	135	12/08/2022	18:00	1.8	90
09/08/2022	19:00	2.2	112.5	10/08/2022	19:00	1.8	135	11/08/2022	19:00	1.3	90	12/08/2022	19:00	1.8	112.5
09/08/2022	20:00	2.2	112.5	10/08/2022	20:00	1.3	112.5	11/08/2022	20:00	1.8	292.5	12/08/2022	20:00	2.2	112.5
09/08/2022	21:00	2.2	112.5	10/08/2022	21:00	1.8	90	11/08/2022	21:00	1.3	292.5	12/08/2022	21:00	1.3	112.5
09/08/2022	22:00	1.8	90	10/08/2022	22:00	1.3	135	11/08/2022	22:00	2.7	292.5	12/08/2022	22:00	1.8	135
09/08/2022	23:00	1.3	112.5	10/08/2022	23:00	1.3	112.5	11/08/2022	23:00	1.3	135	12/08/2022	23:00	2.2	135

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
13/08/2022	0:00	1.3	90	14/08/2022	0:00	0.9	112.5	15/08/2022	0:00	0.9	135	16/08/2022	0:00	0.4	135
13/08/2022	1:00	1.3	90	14/08/2022	1:00	1.3	90	15/08/2022	1:00	0.9	135	16/08/2022	1:00	0.4	112.5
13/08/2022	2:00	0.4	225	14/08/2022	2:00	0.9	270	15/08/2022	2:00	0.9	112.5	16/08/2022	2:00	0.4	112.5
13/08/2022	3:00	0.9	225	14/08/2022	3:00	0.9	135	15/08/2022	3:00	0.9	90	16/08/2022	3:00	0.4	67.5
13/08/2022	4:00	0.4	270	14/08/2022	4:00	0.9	135	15/08/2022	4:00	0.4	112.5	16/08/2022	4:00	0.4	45
13/08/2022	5:00	0.9	292.5	14/08/2022	5:00	0.9	112.5	15/08/2022	5:00	0.4	135	16/08/2022	5:00	0.4	67.5
13/08/2022	6:00	0.9	270	14/08/2022	6:00	1.3	247.5	15/08/2022	6:00	0.4	270	16/08/2022	6:00	0.9	45
13/08/2022	7:00	0.9	292.5	14/08/2022	7:00	0.9	202.5	15/08/2022	7:00	0.4	270	16/08/2022	7:00	0.4	67.5
13/08/2022	8:00	0.4	270	14/08/2022	8:00	1.3	112.5	15/08/2022	8:00	0.4	270	16/08/2022	8:00	0.4	67.5
13/08/2022	9:00	0.9	270	14/08/2022	9:00	1.3	135	15/08/2022	9:00	0.9	225	16/08/2022	9:00	0.4	67.5
13/08/2022	10:00	0.9	90	14/08/2022	10:00	0.9	112.5	15/08/2022	10:00	0.9	225	16/08/2022	10:00	0.9	90
13/08/2022	11:00	1.3	112.5	14/08/2022	11:00	0.9	112.5	15/08/2022	11:00	1.3	202.5	16/08/2022	11:00	0.9	112.5
13/08/2022	12:00	0.9	270	14/08/2022	12:00	0.9	112.5	15/08/2022	12:00	1.3	247.5	16/08/2022	12:00	1.3	90
13/08/2022	13:00	0.4	112.5	14/08/2022	13:00	0.9	337.5	15/08/2022	13:00	1.3	270	16/08/2022	13:00	1.3	67.5
13/08/2022	14:00	0	135	14/08/2022	14:00	0.9	22.5	15/08/2022	14:00	1.3	247.5	16/08/2022	14:00	0.4	67.5
13/08/2022	15:00	0	135	14/08/2022	15:00	0.9	315	15/08/2022	15:00	0.4	247.5	16/08/2022	15:00	0.4	67.5
13/08/2022	16:00	0.4	112.5	14/08/2022	16:00	1.3	112.5	15/08/2022	16:00	0.9	247.5	16/08/2022	16:00	0.4	45
13/08/2022	17:00	0.9	112.5	14/08/2022	17:00	0.9	67.5	15/08/2022	17:00	0.4	225	16/08/2022	17:00	1.3	112.5
13/08/2022	18:00	0.9	112.5	14/08/2022	18:00	0.9	292.5	15/08/2022	18:00	0.9	22.5	16/08/2022	18:00	1.3	112.5
13/08/2022	19:00	0	135	14/08/2022	19:00	1.3	247.5	15/08/2022	19:00	1.3	67.5	16/08/2022	19:00	1.3	90
13/08/2022	20:00	0.4	112.5	14/08/2022	20:00	1.8	247.5	15/08/2022	20:00	1.8	135	16/08/2022	20:00	1.3	45
13/08/2022	21:00	0.4	112.5	14/08/2022	21:00	1.3	225	15/08/2022	21:00	1.3	112.5	16/08/2022	21:00	1.8	112.5
13/08/2022	22:00	0.4	90	14/08/2022	22:00	1.8	247.5	15/08/2022	22:00	1.3	112.5	16/08/2022	22:00	2.7	270
13/08/2022	23:00	0.4	135	14/08/2022	23:00	1.3	225	15/08/2022	23:00	1.3	112.5	16/08/2022	23:00	0.9	315

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
17/08/2022	0:00	0.4	112.5	18/08/2022	0:00	1.3	270	19/08/2022	0:00	1.3	337.5	20/08/2022	0:00	1.8	67.5
17/08/2022	1:00	0.4	180	18/08/2022	1:00	1.3	315	19/08/2022	1:00	1.3	22.5	20/08/2022	1:00	0.9	247.5
17/08/2022	2:00	0.9	135	18/08/2022	2:00	1.3	45	19/08/2022	2:00	1.3	315	20/08/2022	2:00	2.2	247.5
17/08/2022	3:00	0.9	112.5	18/08/2022	3:00	1.3	270	19/08/2022	3:00	1.3	112.5	20/08/2022	3:00	0.9	90
17/08/2022	4:00	1.3	135	18/08/2022	4:00	1.3	247.5	19/08/2022	4:00	1.3	67.5	20/08/2022	4:00	0.9	90
17/08/2022	5:00	0.9	135	18/08/2022	5:00	1.3	247.5	19/08/2022	5:00	0.9	292.5	20/08/2022	5:00	0.4	135
17/08/2022	6:00	0.9	112.5	18/08/2022	6:00	0.9	270	19/08/2022	6:00	0.9	112.5	20/08/2022	6:00	0.4	135
17/08/2022	7:00	0.9	135	18/08/2022	7:00	0.9	247.5	19/08/2022	7:00	0.9	292.5	20/08/2022	7:00	0.9	112.5
17/08/2022	8:00	1.3	157.5	18/08/2022	8:00	0.9	247.5	19/08/2022	8:00	0.9	45	20/08/2022	8:00	0.9	112.5
17/08/2022	9:00	1.3	90	18/08/2022	9:00	0.9	270	19/08/2022	9:00	0.4	67.5	20/08/2022	9:00	0.4	112.5
17/08/2022	10:00	0.9	135	18/08/2022	10:00	1.3	90	19/08/2022	10:00	0.9	22.5	20/08/2022	10:00	0.9	90
17/08/2022	11:00	1.8	112.5	18/08/2022	11:00	0.9	67.5	19/08/2022	11:00	0.9	157.5	20/08/2022	11:00	0.9	112.5
17/08/2022	12:00	1.3	90	18/08/2022	12:00	1.3	90	19/08/2022	12:00	0.9	67.5	20/08/2022	12:00	0.9	90
17/08/2022	13:00	1.3	90	18/08/2022	13:00	0.9	90	19/08/2022	13:00	0.4	135	20/08/2022	13:00	0.9	112.5
17/08/2022	14:00	0.9	135	18/08/2022	14:00	2.7	90	19/08/2022	14:00	0.9	90	20/08/2022	14:00	0.9	180
17/08/2022	15:00	1.3	90	18/08/2022	15:00	2.2	90	19/08/2022	15:00	0.9	157.5	20/08/2022	15:00	0.9	247.5
17/08/2022	16:00	0.9	135	18/08/2022	16:00	1.8	67.5	19/08/2022	16:00	0.9	157.5	20/08/2022	16:00	0.9	225
17/08/2022	17:00	1.3	90	18/08/2022	17:00	1.3	90	19/08/2022	17:00	0.4	135	20/08/2022	17:00	1.3	225
17/08/2022	18:00	1.8	90	18/08/2022	18:00	1.8	112.5	19/08/2022	18:00	0.4	90	20/08/2022	18:00	0.4	247.5
17/08/2022	19:00	1.3	90	18/08/2022	19:00	1.3	67.5	19/08/2022	19:00	0.9	135	20/08/2022	19:00	0.4	247.5
17/08/2022	20:00	1.3	90	18/08/2022	20:00	1.3	112.5	19/08/2022	20:00	0.9	112.5	20/08/2022	20:00	0.4	247.5
17/08/2022	21:00	1.3	67.5	18/08/2022	21:00	0.9	90	19/08/2022	21:00	0.9	157.5	20/08/2022	21:00	0.4	315
17/08/2022	22:00	1.3	67.5	18/08/2022	22:00	0.9	112.5	19/08/2022	22:00	0.4	270	20/08/2022	22:00	1.8	270
17/08/2022	23:00	0.9	90	18/08/2022	23:00	0.9	112.5	19/08/2022	23:00	0.4	112.5	20/08/2022	23:00	1.8	270

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
21/08/2022	0:00	1.8	112.5	22/08/2022	0:00	0.9	90	23/08/2022	0:00	0.9	135	24/08/2022	0:00	2.2	270
21/08/2022	1:00	1.3	112.5	22/08/2022	1:00	0.4	247.5	23/08/2022	1:00	1.3	135	24/08/2022	1:00	1.8	135
21/08/2022	2:00	0.4	112.5	22/08/2022	2:00	0.9	225	23/08/2022	2:00	0.9	337.5	24/08/2022	2:00	1.8	135
21/08/2022	3:00	0.4	112.5	22/08/2022	3:00	0.4	225	23/08/2022	3:00	0.9	292.5	24/08/2022	3:00	0.9	225
21/08/2022	4:00	0.4	135	22/08/2022	4:00	0.9	247.5	23/08/2022	4:00	0.9	292.5	24/08/2022	4:00	0.4	225
21/08/2022	5:00	0.9	112.5	22/08/2022	5:00	0.9	247.5	23/08/2022	5:00	1.3	270	24/08/2022	5:00	0.4	270
21/08/2022	6:00	0.9	90	22/08/2022	6:00	0.4	225	23/08/2022	6:00	0.9	270	24/08/2022	6:00	0.9	225
21/08/2022	7:00	0.9	135	22/08/2022	7:00	0.4	225	23/08/2022	7:00	1.8	292.5	24/08/2022	7:00	0.9	247.5
21/08/2022	8:00	1.3	112.5	22/08/2022	8:00	0.4	292.5	23/08/2022	8:00	1.8	247.5	24/08/2022	8:00	0.9	247.5
21/08/2022	9:00	1.3	112.5	22/08/2022	9:00	0.4	112.5	23/08/2022	9:00	0.4	247.5	24/08/2022	9:00	0.9	247.5
21/08/2022	10:00	0.9	112.5	22/08/2022	10:00	0.4	135	23/08/2022	10:00	0.4	247.5	24/08/2022	10:00	0.9	225
21/08/2022	11:00	1.3	112.5	22/08/2022	11:00	0.9	135	23/08/2022	11:00	0.4	202.5	24/08/2022	11:00	0.9	225
21/08/2022	12:00	0.9	67.5	22/08/2022	12:00	0.9	247.5	23/08/2022	12:00	1.3	247.5	24/08/2022	12:00	1.3	247.5
21/08/2022	13:00	0.9	90	22/08/2022	13:00	0.9	270	23/08/2022	13:00	0.9	247.5	24/08/2022	13:00	1.8	247.5
21/08/2022	14:00	1.3	135	22/08/2022	14:00	0.9	292.5	23/08/2022	14:00	0.9	247.5	24/08/2022	14:00	1.8	247.5
21/08/2022	15:00	0.4	135	22/08/2022	15:00	0.4	292.5	23/08/2022	15:00	0.4	270	24/08/2022	15:00	1.3	247.5
21/08/2022	16:00	0.4	135	22/08/2022	16:00	1.8	292.5	23/08/2022	16:00	0.4	157.5	24/08/2022	16:00	1.3	225
21/08/2022	17:00	0.9	135	22/08/2022	17:00	2.2	225	23/08/2022	17:00	0.9	90	24/08/2022	17:00	1.3	247.5
21/08/2022	18:00	0.4	135	22/08/2022	18:00	2.2	270	23/08/2022	18:00	0.9	270	24/08/2022	18:00	1.3	112.5
21/08/2022	19:00	0.9	135	22/08/2022	19:00	1.8	90	23/08/2022	19:00	0.4	270	24/08/2022	19:00	1.3	112.5
21/08/2022	20:00	0.4	135	22/08/2022	20:00	1.3	112.5	23/08/2022	20:00	0.9	247.5	24/08/2022	20:00	1.3	112.5
21/08/2022	21:00	0.4	135	22/08/2022	21:00	0.9	292.5	23/08/2022	21:00	0.4	270	24/08/2022	21:00	0.9	337.5
21/08/2022	22:00	0.4	247.5	22/08/2022	22:00	0.4	270	23/08/2022	22:00	1.3	157.5	24/08/2022	22:00	0.4	22.5
21/08/2022	23:00	0.4	202.5	22/08/2022	23:00	0.4	270	23/08/2022	23:00	0.9	67.5	24/08/2022	23:00	0.4	315

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
25/08/2022	0:00	0.4	112.5	26/08/2022	0:00	1.3	135	27/08/2022	0:00	2.2	112.5	28/08/2022	0:00	0.9	112.5
25/08/2022	1:00	0.4	135	26/08/2022	1:00	0.4	135	27/08/2022	1:00	1.3	247.5	28/08/2022	1:00	1.3	67.5
25/08/2022	2:00	1.8	112.5	26/08/2022	2:00	0.9	135	27/08/2022	2:00	1.8	225	28/08/2022	2:00	0.9	292.5
25/08/2022	3:00	1.8	112.5	26/08/2022	3:00	0.9	90	27/08/2022	3:00	2.2	202.5	28/08/2022	3:00	0.9	112.5
25/08/2022	4:00	1.3	225	26/08/2022	4:00	0.4	90	27/08/2022	4:00	2.2	90	28/08/2022	4:00	0.9	135
25/08/2022	5:00	1.8	247.5	26/08/2022	5:00	0.4	22.5	27/08/2022	5:00	1.8	22.5	28/08/2022	5:00	0.9	112.5
25/08/2022	6:00	2.2	247.5	26/08/2022	6:00	0.4	247.5	27/08/2022	6:00	1.8	90	28/08/2022	6:00	0.9	135
25/08/2022	7:00	2.2	225	26/08/2022	7:00	0.9	270	27/08/2022	7:00	2.2	225	28/08/2022	7:00	0.9	112.5
25/08/2022	8:00	2.2	247.5	26/08/2022	8:00	0.9	67.5	27/08/2022	8:00	2.2	247.5	28/08/2022	8:00	0.9	90
25/08/2022	9:00	2.2	270	26/08/2022	9:00	0.9	225	27/08/2022	9:00	2.2	247.5	28/08/2022	9:00	0.4	135
25/08/2022	10:00	2.2	157.5	26/08/2022	10:00	0.9	225	27/08/2022	10:00	1.8	112.5	28/08/2022	10:00	0.4	90
25/08/2022	11:00	1.8	225	26/08/2022	11:00	0.9	225	27/08/2022	11:00	1.8	45	28/08/2022	11:00	0.9	135
25/08/2022	12:00	2.2	225	26/08/2022	12:00	0.9	202.5	27/08/2022	12:00	0.9	90	28/08/2022	12:00	0.9	90
25/08/2022	13:00	1.8	22.5	26/08/2022	13:00	0.4	270	27/08/2022	13:00	0.9	202.5	28/08/2022	13:00	0.4	135
25/08/2022	14:00	1.3	225	26/08/2022	14:00	0.4	247.5	27/08/2022	14:00	0.4	225	28/08/2022	14:00	0.9	90
25/08/2022	15:00	2.2	225	26/08/2022	15:00	0.4	225	27/08/2022	15:00	0.9	247.5	28/08/2022	15:00	0.9	90
25/08/2022	16:00	1.8	225	26/08/2022	16:00	0.4	225	27/08/2022	16:00	0.9	270	28/08/2022	16:00	0.9	292.5
25/08/2022	17:00	2.2	247.5	26/08/2022	17:00	0.9	247.5	27/08/2022	17:00	1.3	292.5	28/08/2022	17:00	0.9	112.5
25/08/2022	18:00	1.8	225	26/08/2022	18:00	0.4	225	27/08/2022	18:00	0.9	270	28/08/2022	18:00	0.9	112.5
25/08/2022	19:00	1.3	225	26/08/2022	19:00	0.9	225	27/08/2022	19:00	0.4	247.5	28/08/2022	19:00	0.9	112.5
25/08/2022	20:00	1.3	135	26/08/2022	20:00	0.9	247.5	27/08/2022	20:00	0.9	112.5	28/08/2022	20:00	0.9	112.5
25/08/2022	21:00	1.3	225	26/08/2022	21:00	0.9	225	27/08/2022	21:00	0.9	112.5	28/08/2022	21:00	0.9	112.5
25/08/2022	22:00	1.3	225	26/08/2022	22:00	1.8	247.5	27/08/2022	22:00	0.4	247.5	28/08/2022	22:00	0.9	135
25/08/2022	23:00	0.4	247.5	26/08/2022	23:00	1.3	247.5	27/08/2022	23:00	0.9	247.5	28/08/2022	23:00	1.3	112.5



Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
29/08/2022	0:00	2.2	247.5	30/08/2022	0:00	0.9	90	31/08/2022	0:00	0.4	270				
29/08/2022	1:00	1.3	247.5	30/08/2022	1:00	0.9	90	31/08/2022	1:00	0.9	270				
29/08/2022	2:00	1.8	270	30/08/2022	2:00	0.4	135	31/08/2022	2:00	0.4	112.5				
29/08/2022	3:00	1.8	270	30/08/2022	3:00	0.4	112.5	31/08/2022	3:00	0.4	247.5				
29/08/2022	4:00	1.3	270	30/08/2022	4:00	0.4	112.5	31/08/2022	4:00	0.9	225				
29/08/2022	5:00	0.9	247.5	30/08/2022	5:00	1.3	90	31/08/2022	5:00	0.4	247.5				
29/08/2022	6:00	0.9	337.5	30/08/2022	6:00	1.3	135	31/08/2022	6:00	0.4	247.5				
29/08/2022	7:00	0.4	225	30/08/2022	7:00	0.9	112.5	31/08/2022	7:00	0.4	112.5				
29/08/2022	8:00	0.4	270	30/08/2022	8:00	1.3	112.5	31/08/2022	8:00	0.9	112.5				
29/08/2022	9:00	0.9	225	30/08/2022	9:00	1.3	112.5	31/08/2022	9:00	0.9	135				
29/08/2022	10:00	0.4	247.5	30/08/2022	10:00	1.3	90	31/08/2022	10:00	0.9	112.5				
29/08/2022	11:00	0.4	225	30/08/2022	11:00	1.3	90	31/08/2022	11:00	0.9	112.5				
29/08/2022	12:00	0.9	247.5	30/08/2022	12:00	0.9	90	31/08/2022	12:00	0.9	112.5				
29/08/2022	13:00	0.9	225	30/08/2022	13:00	0.9	135	31/08/2022	13:00	0.9	112.5				
29/08/2022	14:00	0.9	90	30/08/2022	14:00	0.9	135	31/08/2022	14:00	0.9	112.5				
29/08/2022	15:00	0.4	112.5	30/08/2022	15:00	0.9	22.5	31/08/2022	15:00	0.9	112.5				
29/08/2022	16:00	0.9	225	30/08/2022	16:00	0.4	157.5	31/08/2022	16:00	0.9	112.5				
29/08/2022	17:00	0.9	247.5	30/08/2022	17:00	0.4	67.5	31/08/2022	17:00	0.4	112.5				
29/08/2025	18:00	0.9	112.5	30/08/2022	18:00	1.3	112.5	31/08/2022	18:00	0.9	135				
29/08/2022	19:00	0.4	67.5	30/08/2022	19:00	1.3	112.5	31/08/2022	19:00	1.3	112.5				
29/08/2022	20:00	0.9	202.5	30/08/2022	20:00	1.3	90	31/08/2022	20:00	1.3	135				
29/08/2022	21:00	0.4	270	30/08/2022	21:00	1.8	90	31/08/2022	21:00	1.3	135				
29/08/2022	22:00	0.4	112.5	30/08/2022	22:00	0.9	135	31/08/2022	22:00	1.3	135				
29/08/2022	23:00	0.4	90	30/08/2022	23:00	0.4	45	31/08/2022	23:00	0.9	112.5				

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
01/09/2022	0:00	1.3	112.5	02/09/2022	0:00	1.3	112.5	03/09/2022	0:00	0.9	292.5	04/09/2022	0:00	1.8	67.5
01/09/2022	1:00	1.3	112.5	02/09/2022	1:00	1.3	45	03/09/2022	1:00	0.9	67.5	04/09/2022	1:00	1.8	22.5
01/09/2022	2:00	2.2	135	02/09/2022	2:00	0.9	202.5	03/09/2022	2:00	1.3	67.5	04/09/2022	2:00	2.7	45
01/09/2022	3:00	1.3	135	02/09/2022	3:00	1.8	45	03/09/2022	3:00	0.4	90	04/09/2022	3:00	2.2	45
01/09/2022	4:00	1.8	112.5	02/09/2022	4:00	1.8	22.5	03/09/2022	4:00	1.3	315	04/09/2022	4:00	2.2	45
01/09/2022	5:00	1.3	90	02/09/2022	5:00	1.3	112.5	03/09/2022	5:00	1.8	67.5	04/09/2022	5:00	2.2	90
01/09/2022	6:00	1.3	135	02/09/2022	6:00	0.9	90	03/09/2022	6:00	1.8	337.5	04/09/2022	6:00	1.8	90
01/09/2022	7:00	1.8	135	02/09/2022	7:00	0.9	180	03/09/2022	7:00	2.2	67.5	04/09/2022	7:00	1.3	112.5
01/09/2022	8:00	1.8	112.5	02/09/2022	8:00	1.3	135	03/09/2022	8:00	0.9	247.5	04/09/2022	8:00	1.3	45
01/09/2022	9:00	1.3	135	02/09/2022	9:00	0.9	337.5	03/09/2022	9:00	2.2	90	04/09/2022	9:00	2.2	90
01/09/2022	10:00	1.3	90	02/09/2022	10:00	1.3	90	03/09/2022	10:00	1.3	180	04/09/2022	10:00	1.8	67.5
01/09/2022	11:00	0.9	112.5	02/09/2022	11:00	0.9	0	03/09/2022	11:00	1.8	90	04/09/2022	11:00	1.8	45
01/09/2022	12:00	1.3	112.5	02/09/2022	12:00	0.4	22.5	03/09/2022	12:00	1.8	67.5	04/09/2022	12:00	0.9	45
01/09/2022	13:00	1.3	112.5	02/09/2022	13:00	0.9	315	03/09/2022	13:00	2.2	90	04/09/2022	13:00	1.3	112.5
01/09/2022	14:00	0.9	112.5	02/09/2022	14:00	1.8	0	03/09/2022	14:00	2.7	90	04/09/2022	14:00	1.3	337.5
01/09/2022	15:00	1.3	112.5	02/09/2022	15:00	1.8	45	03/09/2022	15:00	2.2	67.5	04/09/2022	15:00	1.3	90
01/09/2022	16:00	0.9	112.5	02/09/2022	16:00	0.9	337.5	03/09/2022	16:00	1.8	22.5	04/09/2022	16:00	0.9	135
01/09/2022	17:00	0.9	67.5	02/09/2022	17:00	1.3	45	03/09/2022	17:00	2.2	67.5	04/09/2022	17:00	0.9	90
01/09/2022	18:00	0.9	112.5	02/09/2022	18:00	0.9	135	03/09/2022	18:00	2.2	90	04/09/2022	18:00	0.9	112.5
01/09/2022	19:00	0.4	337.5	02/09/2022	19:00	1.3	22.5	03/09/2022	19:00	1.3	135	04/09/2022	19:00	0.9	270
01/09/2022	20:00	0.4	135	02/09/2022	20:00	1.3	90	03/09/2022	20:00	2.2	67.5	04/09/2022	20:00	1.3	157.5
01/09/2022	21:00	0.9	112.5	02/09/2022	21:00	0.9	337.5	03/09/2022	21:00	1.3	225	04/09/2022	21:00	0.9	315
01/09/2022	22:00	0.9	22.5	02/09/2022	22:00	1.3	157.5	03/09/2022	22:00	0.9	157.5	04/09/2022	22:00	0.9	112.5
01/09/2022	23:00	0.4	45	02/09/2022	23:00	1.8	112.5	03/09/2022	23:00	1.3	112.5	04/09/2022	23:00	1.3	112.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
05/09/2022	0:00	1.3	112.5	06/09/2022	0:00	1.3	292.5	07/09/2022	0:00	1.3	135	08/09/2022	0:00	1.3	112.5
05/09/2022	1:00	0.9	90	06/09/2022	1:00	0.9	0	07/09/2022	1:00	0.9	135	08/09/2022	1:00	1.3	90
05/09/2022	2:00	0.9	112.5	06/09/2022	2:00	1.3	45	07/09/2022	2:00	0.9	157.5	08/09/2022	2:00	2.2	112.5
05/09/2022	3:00	1.3	112.5	06/09/2022	3:00	0.9	157.5	07/09/2022	3:00	1.3	112.5	08/09/2022	3:00	1.8	135
05/09/2022	4:00	0.9	112.5	06/09/2022	4:00	0.9	247.5	07/09/2022	4:00	0.9	157.5	08/09/2022	4:00	1.3	90
05/09/2022	5:00	0.4	292.5	06/09/2022	5:00	0.9	292.5	07/09/2022	5:00	1.3	112.5	08/09/2022	5:00	1.8	112.5
05/09/2022	6:00	0.9	315	06/09/2022	6:00	0.4	180	07/09/2022	6:00	0.9	157.5	08/09/2022	6:00	1.3	135
05/09/2022	7:00	1.8	90	06/09/2022	7:00	1.3	45	07/09/2022	7:00	1.3	112.5	08/09/2022	7:00	1.3	90
05/09/2022	8:00	0.9	22.5	06/09/2022	8:00	1.3	135	07/09/2022	8:00	0.9	135	08/09/2022	8:00	1.3	90
05/09/2022	9:00	0.9	112.5	06/09/2022	9:00	0.9	45	07/09/2022	9:00	1.3	112.5	08/09/2022	9:00	1.3	112.5
05/09/2022	10:00	0.9	135	06/09/2022	10:00	1.3	45	07/09/2022	10:00	0.9	135	08/09/2022	10:00	1.3	135
05/09/2022	11:00	1.8	90	06/09/2022	11:00	0.9	45	07/09/2022	11:00	1.8	112.5	08/09/2022	11:00	0.9	135
05/09/2022	12:00	1.3	90	06/09/2022	12:00	0.9	135	07/09/2022	12:00	1.3	135	08/09/2022	12:00	0.9	157.5
05/09/2022	13:00	1.3	90	06/09/2022	13:00	0.4	112.5	07/09/2022	13:00	0.9	135	08/09/2022	13:00	1.3	90
05/09/2022	14:00	1.3	112.5	06/09/2022	14:00	0.4	90	07/09/2022	14:00	1.3	112.5	08/09/2022	14:00	1.3	112.5
05/09/2022	15:00	1.3	112.5	06/09/2022	15:00	0.9	337.5	07/09/2022	15:00	1.8	135	08/09/2022	15:00	0.9	112.5
05/09/2022	16:00	0.9	45	06/09/2022	16:00	0.4	292.5	07/09/2022	16:00	2.2	90	08/09/2022	16:00	0.4	112.5
05/09/2022	17:00	0.4	292.5	06/09/2022	17:00	0.4	292.5	07/09/2022	17:00	1.8	90	08/09/2022	17:00	0.4	90
05/09/2022	18:00	1.3	90	06/09/2022	18:00	0.9	180	07/09/2022	18:00	0.9	315	08/09/2022	18:00	1.3	90
05/09/2022	19:00	0.9	45	06/09/2022	19:00	0.9	180	07/09/2022	19:00	1.3	67.5	08/09/2022	19:00	0.9	135
05/09/2022	20:00	1.3	112.5	06/09/2022	20:00	1.3	22.5	07/09/2022	20:00	1.3	22.5	08/09/2022	20:00	0.9	90
05/09/2022	21:00	1.8	67.5	06/09/2022	21:00	0.9	0	07/09/2022	21:00	1.3	135	08/09/2022	21:00	0.4	135
05/09/2022	22:00	1.3	45	06/09/2022	22:00	0.4	135	07/09/2022	22:00	1.3	157.5	08/09/2022	22:00	0.4	112.5
05/09/2022	23:00	1.3	22.5	06/09/2022	23:00	0.4	180	07/09/2022	23:00	0.9	180	08/09/2022	23:00	0.4	112.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
09/09/2022	0:00	0.9	180	10/09/2022	0:00	0.4	315	11/09/2022	0:00	0.9	135	12/09/2022	0:00	0.4	112.5
09/09/2022	1:00	0.4	337.5	10/09/2022	1:00	0.4	337.5	11/09/2022	1:00	0.9	112.5	12/09/2022	1:00	0.4	135
09/09/2022	2:00	0.9	337.5	10/09/2022	2:00	0.4	0	11/09/2022	2:00	0.9	135	12/09/2022	2:00	0.4	157.5
09/09/2022	3:00	1.3	180	10/09/2022	3:00	1.3	112.5	11/09/2022	3:00	0.9	112.5	12/09/2022	3:00	0.4	135
09/09/2022	4:00	0.9	112.5	10/09/2022	4:00	1.3	112.5	11/09/2022	4:00	0.9	135	12/09/2022	4:00	0.4	135
09/09/2022	5:00	1.3	135	10/09/2022	5:00	1.3	112.5	11/09/2022	5:00	0.9	112.5	12/09/2022	5:00	0.9	112.5
09/09/2022	6:00	0.4	337.5	10/09/2022	6:00	0.4	22.5	11/09/2022	6:00	0.4	135	12/09/2022	6:00	0.9	112.5
09/09/2022	7:00	1.3	315	10/09/2022	7:00	0.4	135	11/09/2022	7:00	0.9	135	12/09/2022	7:00	0.9	157.5
09/09/2022	8:00	0.4	315	10/09/2022	8:00	0.9	112.5	11/09/2022	8:00	0.9	157.5	12/09/2022	8:00	1.3	135
09/09/2022	9:00	0.9	90	10/09/2022	9:00	0.9	135	11/09/2022	9:00	0.9	135	12/09/2022	9:00	1.3	112.5
09/09/2022	10:00	0.9	270	10/09/2022	10:00	0.4	135	11/09/2022	10:00	0.9	112.5	12/09/2022	10:00	1.8	112.5
09/09/2022	11:00	0.4	112.5	10/09/2022	11:00	0.9	225	11/09/2022	11:00	0.9	135	12/09/2022	11:00	0.9	90
09/09/2022	12:00	0.4	45	10/09/2022	12:00	1.3	135	11/09/2022	12:00	0.9	135	12/09/2022	12:00	0.9	135
09/09/2022	13:00	0.4	157.5	10/09/2022	13:00	0.9	135	11/09/2022	13:00	0.9	112.5	12/09/2022	13:00	0.9	135
09/09/2022	14:00	0.4	45	10/09/2022	14:00	1.3	112.5	11/09/2022	14:00	0.9	135	12/09/2022	14:00	0.9	112.5
09/09/2022	15:00	0	22.5	10/09/2022	15:00	1.3	135	11/09/2022	15:00	0.9	135	12/09/2022	15:00	1.3	135
09/09/2022	16:00	0.4	45	10/09/2022	16:00	1.3	135	11/09/2022	16:00	1.3	112.5	12/09/2022	16:00	1.3	112.5
09/09/2022	17:00	0.4	45	10/09/2022	17:00	1.3	135	11/09/2022	17:00	1.8	112.5	12/09/2022	17:00	1.3	112.5
09/09/2022	18:00	0.4	0	10/09/2022	18:00	1.8	135	11/09/2022	18:00	1.3	112.5	12/09/2022	18:00	1.3	45
09/09/2022	19:00	0.4	22.5	10/09/2022	19:00	1.8	135	11/09/2022	19:00	1.3	112.5	12/09/2022	19:00	1.3	337.5
09/09/2022	20:00	0	0	10/09/2022	20:00	1.3	112.5	11/09/2022	20:00	0.9	112.5	12/09/2022	20:00	1.3	337.5
09/09/2022	21:00	0.4	157.5	10/09/2022	21:00	1.3	112.5	11/09/2022	21:00	0.9	112.5	12/09/2022	21:00	1.8	337.5
09/09/2022	22:00	0	270	10/09/2022	22:00	0.9	112.5	11/09/2022	22:00	0.9	135	12/09/2022	22:00	1.8	337.5
09/09/2022	23:00	0	270	10/09/2022	23:00	0.9	135	11/09/2022	23:00	0.9	112.5	12/09/2022	23:00	1.8	315

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
13/09/2022	0:00	0.4	270	14/09/2022	0:00	0.4	225	15/09/2022	0:00	0.4	270	16/09/2022	0:00	0.9	202.5
13/09/2022	1:00	0.9	225	14/09/2022	1:00	0.4	247.5	15/09/2022	1:00	0.4	135	16/09/2022	1:00	0.4	225
13/09/2022	2:00	0.9	247.5	14/09/2022	2:00	0.4	315	15/09/2022	2:00	0.4	180	16/09/2022	2:00	0.4	135
13/09/2022	3:00	0.9	247.5	14/09/2022	3:00	0.9	270	15/09/2022	3:00	0.4	270	16/09/2022	3:00	0.4	135
13/09/2022	4:00	0.9	225	14/09/2022	4:00	0.4	270	15/09/2022	4:00	0.4	22.5	16/09/2022	4:00	0.4	112.5
13/09/2022	5:00	0.4	337.5	14/09/2022	5:00	1.3	337.5	15/09/2022	5:00	0.4	22.5	16/09/2022	5:00	0.4	135
13/09/2022	6:00	0.4	135	14/09/2022	6:00	0.4	247.5	15/09/2022	6:00	0.4	292.5	16/09/2022	6:00	0.9	135
13/09/2022	7:00	0.4	90	14/09/2022	7:00	0.9	22.5	15/09/2022	7:00	0.4	22.5	16/09/2022	7:00	0.9	135
13/09/2022	8:00	0.9	112.5	14/09/2022	8:00	0.4	337.5	15/09/2022	8:00	0.4	112.5	16/09/2022	8:00	0.9	157.5
13/09/2022	9:00	0.9	112.5	14/09/2022	9:00	0.4	315	15/09/2022	9:00	0.4	112.5	16/09/2022	9:00	0.9	112.5
13/09/2022	10:00	1.3	112.5	14/09/2022	10:00	0.9	22.5	15/09/2022	10:00	0.4	112.5	16/09/2022	10:00	0.9	135
13/09/2022	11:00	0.9	112.5	14/09/2022	11:00	0.9	315	15/09/2022	11:00	0.4	180	16/09/2022	11:00	1.3	135
13/09/2022	12:00	0.9	112.5	14/09/2022	12:00	1.3	225	15/09/2022	12:00	0.4	112.5	16/09/2022	12:00	2.2	157.5
13/09/2022	13:00	0.4	90	14/09/2022	13:00	1.3	247.5	15/09/2022	13:00	0.4	270	16/09/2022	13:00	1.3	112.5
13/09/2022	14:00	0.4	112.5	14/09/2022	14:00	1.3	315	15/09/2022	14:00	0.4	157.5	16/09/2022	14:00	1.3	112.5
13/09/2022	15:00	0.4	337.5	14/09/2022	15:00	0.9	202.5	15/09/2022	15:00	0.4	270	16/09/2022	15:00	1.3	135
13/09/2022	16:00	0.9	112.5	14/09/2022	16:00	1.3	247.5	15/09/2022	16:00	0.4	270	16/09/2022	16:00	0.9	135
13/09/2022	17:00	0.4	112.5	14/09/2022	17:00	1.3	180	15/09/2022	17:00	0.4	270	16/09/2022	17:00	0.4	67.5
13/09/2022	18:00	0.9	315	14/09/2022	18:00	0.9	270	15/09/2022	18:00	0.9	247.5	16/09/2022	18:00	0.4	112.5
13/09/2022	19:00	0.9	270	14/09/2022	19:00	1.3	225	15/09/2022	19:00	0.9	247.5	16/09/2022	19:00	0.9	112.5
13/09/2022	20:00	0.9	270	14/09/2022	20:00	1.3	247.5	15/09/2022	20:00	0.9	270	16/09/2022	20:00	0.4	157.5
13/09/2022	21:00	1.3	337.5	14/09/2022	21:00	1.8	247.5	15/09/2022	21:00	0.9	270	16/09/2022	21:00	0.4	157.5
13/09/2022	22:00	0.9	270	14/09/2022	22:00	1.8	247.5	15/09/2022	22:00	0.9	225	16/09/2022	22:00	0.9	90
13/09/2022	23:00	0.9	270	14/09/2022	23:00	1.3	157.5	15/09/2022	23:00	0.4	225	16/09/2022	23:00	0.9	135

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
17/09/2022	0:00	0.4	292.5	18/09/2022	0:00	1.3	247.5	19/09/2022	0:00	0.4	112.5	20/09/2022	0:00	1.3	112.5
17/09/2022	1:00	0.4	180	18/09/2022	1:00	0.9	270	19/09/2022	1:00	0.4	135	20/09/2022	1:00	1.3	135
17/09/2022	2:00	0.4	180	18/09/2022	2:00	0.4	247.5	19/09/2022	2:00	0.4	45	20/09/2022	2:00	1.3	90
17/09/2022	3:00	0.4	157.5	18/09/2022	3:00	1.3	247.5	19/09/2022	3:00	0.9	45	20/09/2022	3:00	0.9	45
17/09/2022	4:00	0.4	157.5	18/09/2022	4:00	0.9	247.5	19/09/2022	4:00	1.3	45	20/09/2022	4:00	0.9	292.5
17/09/2022	5:00	0.4	135	18/09/2022	5:00	0.9	247.5	19/09/2022	5:00	0.9	45	20/09/2022	5:00	2.2	90
17/09/2022	6:00	0.4	135	18/09/2022	6:00	0.4	247.5	19/09/2022	6:00	0.9	22.5	20/09/2022	6:00	1.3	90
17/09/2022	7:00	0.4	135	18/09/2022	7:00	1.3	247.5	19/09/2022	7:00	1.3	45	20/09/2022	7:00	0.4	135
17/09/2022	8:00	0.9	135	18/09/2022	8:00	1.3	247.5	19/09/2022	8:00	0.9	112.5	20/09/2022	8:00	0.4	112.5
17/09/2022	9:00	0.9	135	18/09/2022	9:00	1.3	270	19/09/2022	9:00	0.9	67.5	20/09/2022	9:00	0.9	67.5
17/09/2022	10:00	0.9	135	18/09/2022	10:00	0.9	247.5	19/09/2022	10:00	0.9	0	20/09/2022	10:00	0.9	112.5
17/09/2022	11:00	0.9	135	18/09/2022	11:00	0.4	247.5	19/09/2022	11:00	1.3	112.5	20/09/2022	11:00	0.4	90
17/09/2022	12:00	0.9	157.5	18/09/2022	12:00	1.3	247.5	19/09/2022	12:00	1.3	67.5	20/09/2022	12:00	0.4	157.5
17/09/2022	13:00	0.9	135	18/09/2022	13:00	2.2	247.5	19/09/2022	13:00	0.9	67.5	20/09/2022	13:00	1.3	90
17/09/2022	14:00	0.9	112.5	18/09/2022	14:00	1.3	247.5	19/09/2022	14:00	0.9	90	20/09/2022	14:00	0.9	337.5
17/09/2022	15:00	0.9	112.5	18/09/2022	15:00	1.8	247.5	19/09/2022	15:00	0.4	270	20/09/2022	15:00	1.8	135
17/09/2022	16:00	0.9	112.5	18/09/2022	16:00	1.3	247.5	19/09/2022	16:00	0.4	225	20/09/2022	16:00	1.3	90
17/09/2022	17:00	0.9	157.5	18/09/2022	17:00	1.8	225	19/09/2022	17:00	0.9	270	20/09/2022	17:00	1.3	67.5
17/09/2022	18:00	1.3	135	18/09/2022	18:00	1.8	247.5	19/09/2022	18:00	0.4	247.5	20/09/2022	18:00	1.3	112.5
17/09/2022	19:00	0.9	112.5	18/09/2022	19:00	1.8	247.5	19/09/2022	19:00	0.4	247.5	20/09/2022	19:00	1.3	90
17/09/2022	20:00	0.9	225	18/09/2022	20:00	1.8	247.5	19/09/2022	20:00	0.4	270	20/09/2022	20:00	1.8	135
17/09/2022	21:00	0.4	112.5	18/09/2022	21:00	1.8	292.5	19/09/2022	21:00	0.4	247.5	20/09/2022	21:00	1.3	90
17/09/2022	22:00	0.4	112.5	18/09/2022	22:00	2.2	315	19/09/2022	22:00	0.9	202.5	20/09/2022	22:00	1.3	135
17/09/2022	23:00	0.9	135	18/09/2022	23:00	2.2	45	19/09/2022	23:00	0.4	270	20/09/2022	23:00	1.3	112.5



Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
21/09/2022	0:00	2.2	112.5	22/09/2022	0:00	1.3	135	23/09/2022	0:00	0.4	135	24/09/2022	0:00	1.3	315
21/09/2022	1:00	1.8	135	22/09/2022	1:00	1.3	135	23/09/2022	1:00	0.4	112.5	24/09/2022	1:00	1.3	67.5
21/09/2022	2:00	2.2	112.5	22/09/2022	2:00	1.3	22.5	23/09/2022	2:00	0.4	67.5	24/09/2022	2:00	1.3	22.5
21/09/2022	3:00	1.8	90	22/09/2022	3:00	0.9	270	23/09/2022	3:00	0.4	90	24/09/2022	3:00	0.9	337.5
21/09/2022	4:00	1.3	90	22/09/2022	4:00	0.9	112.5	23/09/2022	4:00	0.4	135	24/09/2022	4:00	1.3	67.5
21/09/2022	5:00	1.8	45	22/09/2022	5:00	1.3	45	23/09/2022	5:00	0.4	90	24/09/2022	5:00	1.3	135
21/09/2022	6:00	2.2	45	22/09/2022	6:00	1.3	180	23/09/2022	6:00	0.4	90	24/09/2022	6:00	0.9	45
21/09/2022	7:00	2.7	247.5	22/09/2022	7:00	0.9	22.5	23/09/2022	7:00	0.4	112.5	24/09/2022	7:00	1.3	135
21/09/2022	8:00	0.9	292.5	22/09/2022	8:00	0.9	135	23/09/2022	8:00	0.4	112.5	24/09/2022	8:00	0.9	135
21/09/2022	9:00	0.9	157.5	22/09/2022	9:00	0.9	247.5	23/09/2022	9:00	0.9	90	24/09/2022	9:00	1.8	67.5
21/09/2022	10:00	1.3	90	22/09/2022	10:00	0.9	292.5	23/09/2022	10:00	1.3	112.5	24/09/2022	10:00	0.9	337.5
21/09/2022	11:00	2.2	90	22/09/2022	11:00	0.4	67.5	23/09/2022	11:00	1.3	90	24/09/2022	11:00	0.9	337.5
21/09/2022	12:00	1.3	22.5	22/09/2022	12:00	0.4	112.5	23/09/2022	12:00	1.8	90	24/09/2022	12:00	0.9	112.5
21/09/2022	13:00	1.3	112.5	22/09/2022	13:00	0.9	67.5	23/09/2022	13:00	1.8	90	24/09/2022	13:00	0.9	90
21/09/2022	14:00	1.3	67.5	22/09/2022	14:00	0.4	112.5	23/09/2022	14:00	1.8	90	24/09/2022	14:00	0.9	67.5
21/09/2022	15:00	1.8	67.5	22/09/2022	15:00	0.9	337.5	23/09/2022	15:00	0.4	112.5	24/09/2022	15:00	0.9	90
21/09/2022	16:00	1.3	45	22/09/2022	16:00	0.9	90	23/09/2022	16:00	0.4	157.5	24/09/2022	16:00	1.3	112.5
21/09/2022	17:00	1.3	270	22/09/2022	17:00	0.4	67.5	23/09/2022	17:00	0.4	45	24/09/2022	17:00	0.9	90
21/09/2022	18:00	1.3	112.5	22/09/2022	18:00	0.9	90	23/09/2022	18:00	0.9	112.5	24/09/2022	18:00	0.9	22.5
21/09/2022	19:00	2.2	90	22/09/2022	19:00	1.3	90	23/09/2022	19:00	0.9	45	24/09/2022	19:00	0.9	135
21/09/2022	20:00	1.3	112.5	22/09/2022	20:00	0.9	112.5	23/09/2022	20:00	0.4	22.5	24/09/2022	20:00	1.3	112.5
21/09/2022	21:00	2.2	90	22/09/2022	21:00	0.9	112.5	23/09/2022	21:00	0.9	45	24/09/2022	21:00	1.3	247.5
21/09/2022	22:00	2.2	135	22/09/2022	22:00	0.9	90	23/09/2022	22:00	0.9	135	24/09/2022	22:00	0.9	112.5
21/09/2022	23:00	2.7	90	22/09/2022	23:00	1.8	112.5	23/09/2022	23:00	0.4	315	24/09/2022	23:00	1.3	112.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
25/09/2022	0:00	0.9	45	26/09/2022	0:00	1.8	67.5	27/09/2022	0:00	3.1	337.5	28/09/2022	0:00	2.2	67.5
25/09/2022	1:00	0.9	22.5	26/09/2022	1:00	2.2	90	27/09/2022	1:00	3.1	292.5	28/09/2022	1:00	2.2	45
25/09/2022	2:00	1.3	90	26/09/2022	2:00	2.2	90	27/09/2022	2:00	3.1	315	28/09/2022	2:00	3.1	112.5
25/09/2022	3:00	1.3	225	26/09/2022	3:00	1.8	157.5	27/09/2022	3:00	3.1	90	28/09/2022	3:00	3.1	67.5
25/09/2022	4:00	1.3	270	26/09/2022	4:00	1.8	22.5	27/09/2022	4:00	1.8	67.5	28/09/2022	4:00	3.1	67.5
25/09/2022	5:00	0.9	45	26/09/2022	5:00	1.8	135	27/09/2022	5:00	2.2	90	28/09/2022	5:00	3.6	337.5
25/09/2022	6:00	0.4	90	26/09/2022	6:00	1.8	0	27/09/2022	6:00	2.2	45	28/09/2022	6:00	3.6	45
25/09/2022	7:00	0.4	67.5	26/09/2022	7:00	1.3	337.5	27/09/2022	7:00	1.3	67.5	28/09/2022	7:00	2.7	45
25/09/2022	8:00	1.3	315	26/09/2022	8:00	1.8	67.5	27/09/2022	8:00	0.9	337.5	28/09/2022	8:00	2.7	45
25/09/2022	9:00	1.3	45	26/09/2022	9:00	2.2	45	27/09/2022	9:00	1.8	67.5	28/09/2022	9:00	2.7	67.5
25/09/2022	10:00	1.3	45	26/09/2022	10:00	1.8	67.5	27/09/2022	10:00	1.8	337.5	28/09/2022	10:00	3.1	90
25/09/2022	11:00	0.4	337.5	26/09/2022	11:00	1.3	90	27/09/2022	11:00	2.2	112.5	28/09/2022	11:00	3.1	90
25/09/2022	12:00	0.9	157.5	26/09/2022	12:00	0.9	112.5	27/09/2022	12:00	1.8	90	28/09/2022	12:00	3.1	135
25/09/2022	13:00	0.9	225	26/09/2022	13:00	0.9	90	27/09/2022	13:00	1.8	90	28/09/2022	13:00	2.2	337.5
25/09/2022	14:00	0.9	45	26/09/2022	14:00	0.9	67.5	27/09/2022	14:00	1.8	90	28/09/2022	14:00	2.2	90
25/09/2022	15:00	0.9	135	26/09/2022	15:00	1.3	67.5	27/09/2022	15:00	2.2	67.5	28/09/2022	15:00	2.2	112.5
25/09/2022	16:00	1.3	112.5	26/09/2022	16:00	0.9	45	27/09/2022	16:00	1.3	112.5	28/09/2022	16:00	2.7	67.5
25/09/2022	17:00	1.3	135	26/09/2022	17:00	1.8	67.5	27/09/2022	17:00	1.3	67.5	28/09/2022	17:00	1.3	45
25/09/2022	18:00	1.3	337.5	26/09/2022	18:00	2.2	90	27/09/2022	18:00	1.8	45	28/09/2022	18:00	1.3	247.5
25/09/2022	19:00	1.3	135	26/09/2022	19:00	1.3	67.5	27/09/2022	19:00	1.3	45	28/09/2022	19:00	1.8	22.5
25/09/2022	20:00	0.9	67.5	26/09/2022	20:00	1.3	67.5	27/09/2022	20:00	2.2	45	28/09/2022	20:00	0.9	45
25/09/2022	21:00	0.9	90	26/09/2022	21:00	1.8	22.5	27/09/2022	21:00	2.2	67.5	28/09/2022	21:00	1.3	135
25/09/2022	22:00	0.9	112.5	26/09/2022	22:00	1.3	90	27/09/2022	22:00	1.8	67.5	28/09/2022	22:00	0.9	90
25/09/2022	23:00	0.4	90	26/09/2022	23:00	1.3	90	27/09/2022	23:00	2.2	45	28/09/2022	23:00	0.9	112.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

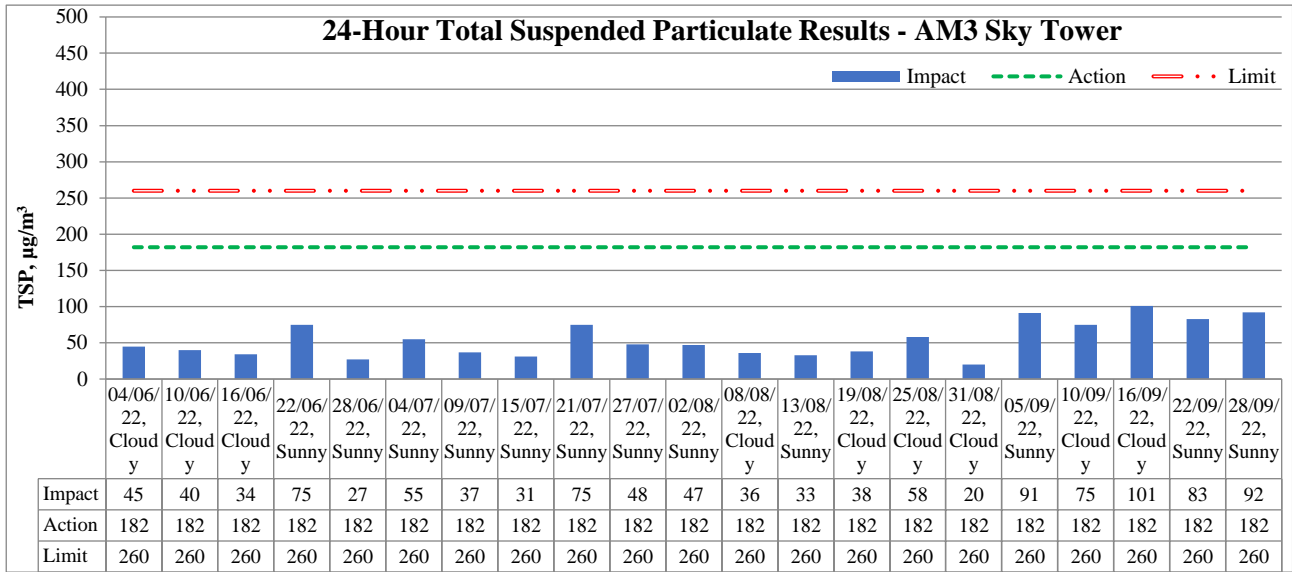
Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
29/09/2022	0:00	0.4	112.5	30/09/2022	0:00	1.3	45								
29/09/2022	1:00	0.4	22.5	30/09/2022	1:00	2.2	135								
29/09/2022	2:00	0.4	45	30/09/2022	2:00	1.3	90								
29/09/2022	3:00	0.4	45	30/09/2022	3:00	1.8	135								
29/09/2022	4:00	0.4	67.5	30/09/2022	4:00	1.8	112.5								
29/09/2022	5:00	0.4	135	30/09/2022	5:00	2.2	112.5								
29/09/2022	6:00	1.8	112.5	30/09/2022	6:00	2.2	90								
29/09/2022	7:00	1.8	135	30/09/2022	7:00	1.3	112.5								
29/09/2022	8:00	1.8	112.5	30/09/2022	8:00	0.9	90								
29/09/2022	9:00	2.2	135	30/09/2022	9:00	1.3	112.5								
29/09/2022	10:00	2.2	45	30/09/2022	10:00	1.3	90								
29/09/2022	11:00	2.2	112.5	30/09/2022	11:00	2.2	112.5								
29/09/2022	12:00	2.7	22.5	30/09/2022	12:00	2.2	135								
29/09/2022	13:00	1.8	270	30/09/2022	13:00	1.8	45								
29/09/2022	14:00	1.3	45	30/09/2022	14:00	1.3	135								
29/09/2022	15:00	1.8	112.5	30/09/2022	15:00	1.8	67.5								
29/09/2022	16:00	1.8	90	30/09/2022	16:00	1.3	112.5								
29/09/2022	17:00	1.8	135	30/09/2022	17:00	2.2	112.5								
29/09/2025	18:00	1.3	135	30/09/2022	18:00	1.3	112.5								
29/09/2022	19:00	1.3	112.5	30/09/2022	19:00	0.4	90								
29/09/2022	20:00	1.8	135	30/09/2022	20:00	0.4	135								
29/09/2022	21:00	2.2	180	30/09/2022	21:00	0.4	135								
29/09/2022	22:00	1.3	135	30/09/2022	22:00	0.9	135								
29/09/2022	23:00	1.8	112.5	30/09/2022	23:00	1.3	135								

**Appendix E – Monitoring data and graphical plots**

## 24-hour average TSP

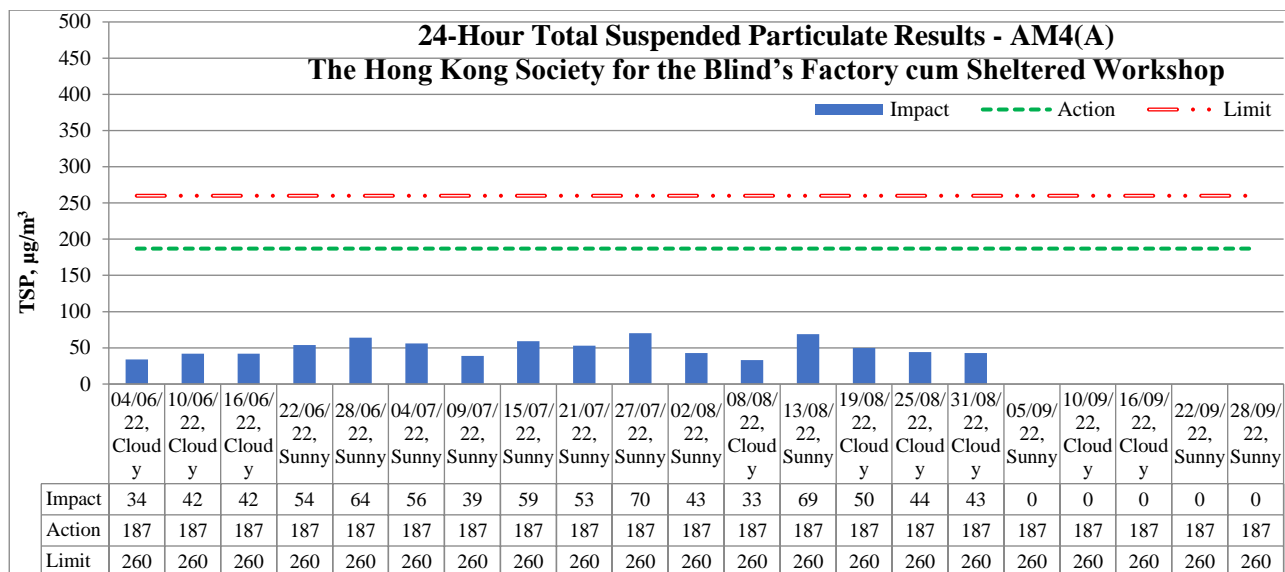
Air Monitoring Station		AM3 – Sky Tower	AM4(A) – The Hong Kong Society for the Blind’s Factory cum Sheltered Workshop*	AM7 – Hong Kong Children’s Hospital
Start Date	Weather	24-hr Average TSP Concentration, $\mu\text{g}/\text{m}^3$	24-hr Average TSP Concentration, $\mu\text{g}/\text{m}^3$	24-hr Average TSP Concentration, $\mu\text{g}/\text{m}^3$
4/6/2022	Cloudy	45	34	35
10/6/2022	Cloudy	40	42	65
16/6/2022	Cloudy	34	42	29
22/6/2022	Sunny	75	54	49
28/6/2022	Sunny	27	64	35
4/7/2022	Sunny	55	56	44
9/7/2022	Sunny	37	39	20
15/7/2022	Sunny	31	59	39
21/7/2022	Sunny	75	53	84
27/7/2022	Sunny	48	70	86
2/8/2022	Sunny	47	43	37
8/8/2022	Cloudy	36	33	38
13/8/2022	Sunny	33	69	43
19/8/2022	Cloudy	38	50	28
25/8/2022	Cloudy	58	44	30
31/8/2022	Cloudy	20	43	73
5/9/2022	Sunny	91	/	79
10/9/2022	Cloudy	75	/	87
16/9/2022	Cloudy	101	/	104
22/9/2022	Sunny	83	/	95
28/9/2022	Sunny	92	/	86

NOTE: \* Due to the relocation of The Hong Kong Society for the Blind’s Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. No 24-hour TSP monitoring was conducted at AM4(A) because of the assess limitation in September 2022.



Major Construction Activities	Reporting Period			
	Jun 2022	Jul 2022	Aug 2022	Sep 2022
South Approach Ramp – Construction of Permanent Structure	✓	✓	✓	✓
Underpass – Construction of walls and roof slab	✓	✓		
South Depressed Road – Installation of ELS system / construction of permanent works	✓			
Rising Main and Water Pipe – Laying of sewage	✓	✓	✓	✓
Landscaped Deck – Construction of pile caps and installation of columns	✓			
Lift 1 & 2 – Installation of ELS system	✓	✓	✓	✓
North Approach Ramp – Construction of utilities trough	✓	✓	✓	
Bridge D3 – Construction of Bridge Deck	✓		✓	✓
North Depressed Road – Construction of wall & top slab	✓	✓	✓	
District Cooling System seawater intake box culvert - reinstatement of the seawall and backfilling works	✓	✓	✓	✓
Lift 3 – Modification works	✓	✓	✓	✓
Lift 4 – Construction of linking platform	✓			
Transformer Room - Construction of permanent structure	✓	✓	✓	✓
CLP substation – Construction of wall & intermediate slab	✓			
Noise Barrier – Remaining works, Bus lay-by construction	✓	✓	✓	✓
Seawater Intake Box Culvert of Saltwater Pumping Station – Installation of sheetpiles and ELS system	✓	✓	✓	✓
Bridge D3 – Construction of Bridge Deck and abutments		✓		
Lift 4 – Construction of linking platform, Installation of glass		✓		
South Depressed Road – construction of permanent works		✓	✓	✓
Landscaped Deck – Construction of pile caps and installation of columns, construction of Landscaped Deck		✓		
Shing Kai Road – Modification works, laying of storm water drainage pipes	✓	✓	✓	✓
CLP substation – Construction of wall & intermediate slab, permanent structure		✓	✓	✓
Underpass – Construction of upstand wall			✓	
Lift 4 – Construction of lift shaft			✓	
Landscaped Deck – Installation of columns, construction of Landscaped Deck			✓	
North Approach Ramp – Construction of end wall				✓
North Depressed Road – Construction of central median and profile barrier				✓
Underpass – Construction of upstand wall, Panel timber slat installation				✓
Lift 4 – Construction of lift shaft and glass panel				✓
Elevated Landscaped Deck – Installation of columns, construction of Landscaped Deck				✓

Factors might affect the monitoring results	Reporting Period			
	Jun 2022	Jul 2022	Aug 2022	Sep 2022
Non-project related construction activities in the adjacent construction sites were observed.	✓	✓	✓	✓

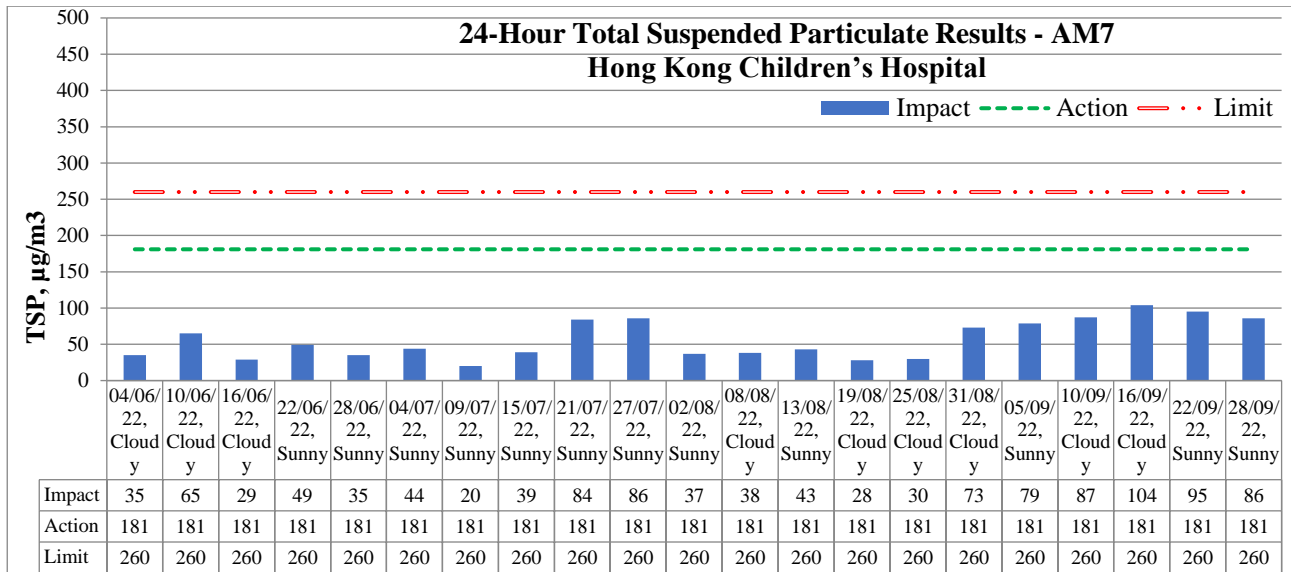


NOTE: \*Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. No 24-hour TSP monitoring was conducted at AM4(A) because of the assess limitation in September 2022.

Major Construction Activities	Reporting Period			
	Jun 2022	Jul 2022	Aug 2022	Sep 2022
South Approach Ramp – Construction of Permanent Structure	✓	✓	✓	✓
Underpass – Construction of walls and roof slab	✓	✓		
South Depressed Road – Installation of ELS system / construction of permanent works	✓			
Rising Main and Water Pipe – Laying of sewage	✓	✓	✓	✓
Landscaped Deck – Construction of pile caps and installation of columns	✓			
Lift 1 & 2 – Installation of ELS system	✓	✓	✓	✓
North Approach Ramp – Construction of utilities trough	✓	✓	✓	
Bridge D3 – Construction of Bridge Deck	✓		✓	✓
North Depressed Road – Construction of wall & top slab	✓	✓	✓	
District Cooling System seawater intake box culvert - reinstatement of the seawall and backfilling works	✓	✓	✓	✓
Lift 3 – Modification works	✓	✓	✓	✓
Lift 4 – Construction of linking platform	✓			
Transformer Room - Construction of permanent structure	✓	✓	✓	✓
CLP substation – Construction of wall & intermediate slab	✓			
Noise Barrier – Remaining works, Bus lay-by construction	✓	✓	✓	✓
Seawater Intake Box Culvert of Saltwater Pumping Station – Installation of sheetpiles and ELS system	✓	✓	✓	✓
Bridge D3 – Construction of Bridge Deck and abutments		✓		
Lift 4 – Construction of linking platform, Installation of glass		✓		
South Depressed Road – construction of permanent works		✓	✓	✓
Landscaped Deck – Construction of pile caps and installation of columns, construction of Landscaped Deck		✓		
Shing Kai Road – Modification works, laying of storm water drainage pipes	✓	✓	✓	✓
CLP substation – Construction of wall & intermediate slab, permeant structure		✓	✓	✓
Underpass – Construction of upstand wall			✓	
Lift 4 – Construction of lift shaft			✓	
Landscaped Deck – Installation of columns, construction of Landscaped Deck			✓	
North Approach Ramp – Construction of end wall				✓
North Depressed Road – Construction of central median and profile barrier				✓
Underpass – Construction of upstand wall, Panel timber slat installation				✓
Lift 4 – Construction of lift shaft and glass panel				✓
Elevated Landscaped Deck – Installation of columns, construction of Landscaped Deck				✓

Factors might affect the monitoring results	Reporting Period			
	Jun 2022	Jul 2022	Aug 2022	Sep 2022
Non-project related construction activities in the adjacent construction sites were observed.	✓	✓	✓	✓





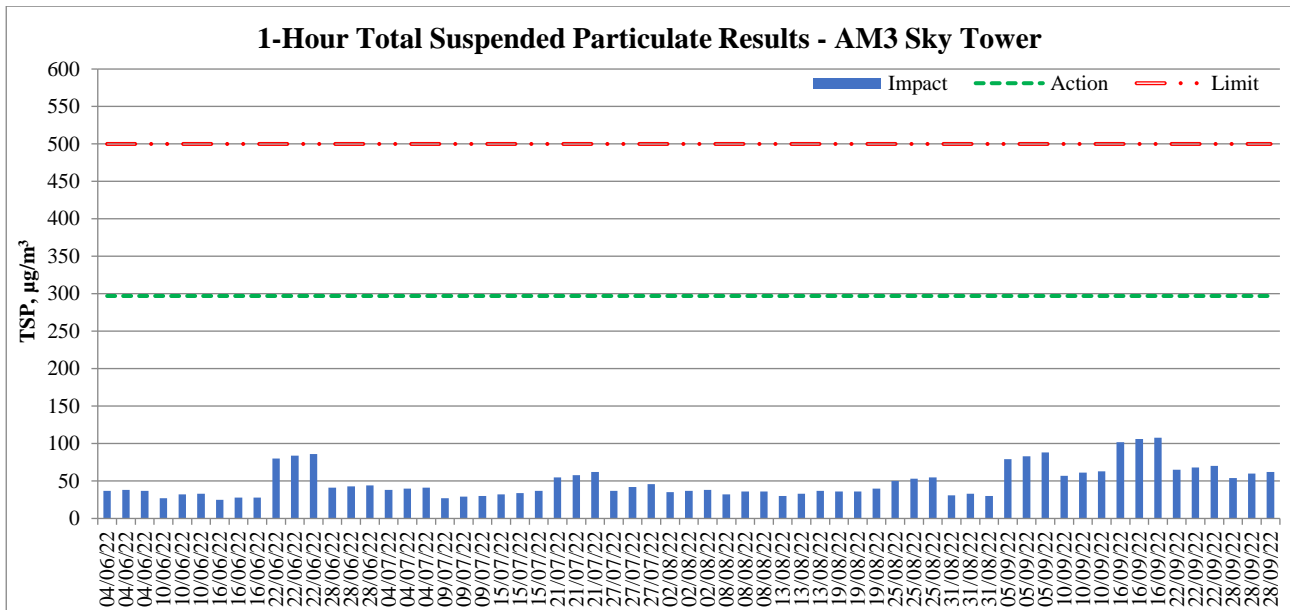
Major Construction Activities	Reporting Period			
	Jun 2022	Jul 2022	Aug 2022	Sep 2022
South Approach Ramp – Construction of Permanent Structure	✓	✓	✓	✓
Underpass – Construction of walls and roof slab	✓	✓		
South Depressed Road – Installation of ELS system / construction of permanent works	✓			
Rising Main and Water Pipe – Laying of sewage	✓	✓	✓	✓
Landscaped Deck – Construction of pile caps and installation of columns	✓			
Lift 1 & 2 – Installation of ELS system	✓	✓	✓	✓
North Approach Ramp – Construction of utilities trough	✓	✓	✓	
Bridge D3 – Construction of Bridge Deck	✓		✓	✓
North Depressed Road – Construction of wall & top slab	✓	✓	✓	
District Cooling System seawater intake box culvert - reinstatement of the seawall and backfilling works	✓	✓	✓	✓
Lift 3 – Modification works	✓	✓	✓	✓
Lift 4 – Construction of linking platform	✓			
Transformer Room - Construction of permanent structure	✓	✓	✓	✓
CLP substation – Construction of wall & intermediate slab	✓			
Noise Barrier – Remaining works, Bus lay-by construction	✓	✓	✓	✓
Seawater Intake Box Culvert of Saltwater Pumping Station – Installation of sheetpiles and ELS system	✓	✓	✓	✓
Bridge D3 – Construction of Bridge Deck and abutments		✓		
Lift 4 – Construction of linking platform, Installation of glass		✓		
South Depressed Road – construction of permanent works		✓	✓	✓
Landscaped Deck – Construction of pile caps and installation of columns, construction of Landscaped Deck		✓		
Shing Kai Road – Modification works, laying of storm water drainage pipes	✓	✓	✓	✓
CLP substation – Construction of wall & intermediate slab, permanent structure		✓	✓	✓
Underpass – Construction of upstand wall			✓	
Lift 4 – Construction of lift shaft			✓	
Landscaped Deck – Installation of columns, construction of Landscaped Deck			✓	
North Approach Ramp – Construction of end wall				✓
North Depressed Road – Construction of central median and profile barrier				✓
Underpass – Construction of upstand wall, Panel timber slat installation				✓
Lift 4 – Construction of lift shaft and glass panel				✓
Elevated Landscaped Deck – Installation of columns, construction of Landscaped Deck				✓

Factors might affect the monitoring results	Reporting Period			
	Jun 2022	Jul 2022	Aug 2022	Sep 2022
Non-project related construction activities in the adjacent construction sites were observed.	✓	✓	✓	✓

## 1-hour average TSP

Air Monitoring Station				AM3 – Sky Tower	
Date	Measurement Period			Weather	1-hr Average TSP Concentration, $\mu\text{g}/\text{m}^3$
4/6/2022	13:00	-	14:00	Cloudy	37
4/6/2022	14:00	-	15:00		38
4/6/2022	15:00	-	16:00		37
10/6/2022	13:00	-	14:00	Cloudy	27
10/6/2022	14:00	-	15:00		32
10/6/2022	15:00	-	16:00		33
16/6/2022	9:00	-	10:00	Cloudy	25
16/6/2022	10:00	-	11:00		28
16/6/2022	11:00	-	12:00		28
22/6/2022	13:00	-	14:00	Sunny	80
22/6/2022	14:00	-	15:00		84
22/6/2022	15:00	-	16:00		86
28/6/2022	9:00	-	10:00	Sunny	41
28/6/2022	10:00	-	11:00		43
28/6/2022	11:00	-	12:00		44
4/7/2022	9:00	-	10:00	Sunny	38
4/7/2022	10:00	-	11:00		40
4/7/2022	11:00	-	12:00		41
9/7/2022	13:00	-	14:00	Sunny	27
9/7/2022	14:00	-	15:00		29
9/7/2022	15:00	-	16:00		30
15/7/2022	13:00	-	14:00	Sunny	32
15/7/2022	14:00	-	15:00		34
15/7/2022	15:00	-	16:00		37
21/7/2022	9:00	-	10:00	Sunny	55
21/7/2022	10:00	-	11:00		58
21/7/2022	11:00	-	12:00		62
27/7/2022	13:00	-	14:00	Sunny	37
27/7/2022	14:00	-	15:00		42
27/7/2022	15:00	-	16:00		46
2/8/2022	9:00	-	10:00	Sunny	35
2/8/2022	10:00	-	11:00		37
2/8/2022	11:00	-	12:00		38
8/8/2022	13:00	-	14:00	Cloudy	32
8/8/2022	14:00	-	15:00		36
8/8/2022	15:00	-	16:00		36
13/8/2022	13:00	-	14:00	Sunny	30
13/8/2022	14:00	-	15:00		33
13/8/2022	15:00	-	16:00		37
19/8/2022	9:00	-	10:00	Cloudy	36
19/8/2022	10:00	-	11:00		36
19/8/2022	11:00	-	12:00		40
25/8/2022	11:00	-	12:00	Cloudy	50
25/8/2022	13:00	-	14:00		53
25/8/2022	14:00	-	15:00		55
31/8/2022	9:00	-	10:00	Cloudy	31
31/8/2022	10:00	-	11:00		33

Air Monitoring Station				AM3 – Sky Tower	
Date	Measurement Period			Weather	1-hr Average TSP Concentration, $\mu\text{g}/\text{m}^3$
31/8/2022	11:00	-	12:00		30
5/9/2022	13:00	-	14:00	Sunny	79
5/9/2022	14:00	-	15:00		83
5/9/2022	15:00	-	16:00		88
10/9/2022	9:00	-	10:00	Cloudy	57
10/9/2022	10:00	-	11:00		61
10/9/2022	11:00	-	12:00		63
16/9/2022	13:00	-	14:00	Cloudy	102
16/9/2022	14:00	-	15:00		106
16/9/2022	15:00	-	16:00		108
22/9/2022	9:00	-	10:00	Sunny	65
22/9/2022	10:00	-	11:00		68
22/9/2022	11:00	-	12:00		70
28/9/2022	9:00	-	10:00	Sunny	54
28/9/2022	10:00	-	11:00		60
28/9/2022	11:00	-	12:00		62



Major Construction Activities	Reporting Period			
	Jun 2022	Jul 2022	Aug 2022	Sep 2022
South Approach Ramp – Construction of Permanent Structure	✓	✓	✓	✓
Underpass – Construction of walls and roof slab	✓	✓		
South Depressed Road – Installation of ELS system / construction of permanent works	✓			
Rising Main and Water Pipe – Laying of sewage	✓	✓	✓	✓
Landscaped Deck – Construction of pile caps and installation of columns	✓			
Lift 1 & 2 – Installation of ELS system	✓	✓	✓	✓
North Approach Ramp – Construction of utilities trough	✓	✓	✓	
Bridge D3 – Construction of Bridge Deck	✓		✓	✓
North Depressed Road – Construction of wall & top slab	✓	✓	✓	
District Cooling System seawater intake box culvert - reinstatement of the seawall and backfilling works	✓	✓	✓	✓
Lift 3 – Modification works	✓	✓	✓	✓
Lift 4 – Construction of linking platform	✓			
Transformer Room - Construction of permanent structure	✓	✓	✓	✓
CLP substation – Construction of wall & intermediate slab	✓			
Noise Barrier – Remaining works, Bus lay-by construction	✓	✓	✓	✓
Seawater Intake Box Culvert of Saltwater Pumping Station – Installation of sheetpiles and ELS system	✓	✓	✓	✓
Bridge D3 – Construction of Bridge Deck and abutments		✓		
Lift 4 – Construction of linking platform, Installation of glass		✓		
South Depressed Road – construction of permanent works		✓	✓	✓
Landscaped Deck – Construction of pile caps and installation of columns, construction of Landscaped Deck		✓		
Shing Kai Road – Modification works, laying of storm water drainage pipes	✓	✓	✓	✓
CLP substation – Construction of wall & intermediate slab, permeant structure		✓	✓	✓
Underpass – Construction of upstand wall			✓	
Lift 4 – Construction of lift shaft			✓	
Landscaped Deck – Installation of columns, construction of Landscaped Deck			✓	
North Approach Ramp – Construction of end wall				✓
North Depressed Road – Construction of central median and profile barrier				✓
Underpass – Construction of upstand wall, Panel timber slat installation				✓
Lift 4 – Construction of lift shaft and glass panel				✓
Elevated Landscaped Deck – Installation of columns, construction of Landscaped Deck				✓

Factors might affect the monitoring results	Reporting Period			
	Jun 2022	Jul 2022	Aug 2022	Sep 2022
Non-project related construction activities in the adjacent construction sites were observed.	✓	✓	✓	✓

Air Monitoring Station				AM4(A) – The Hong Kong Society for the Blind’s Factory cum Sheltered Workshop*	
Date	Measurement Period			Weather	1-hr Average TSP Concentration, $\mu\text{g}/\text{m}^3$
4/6/2022	9:00	-	10:00	Cloudy	31
4/6/2022	10:00	-	11:00		33
4/6/2022	11:00	-	12:00		33
10/6/2022	9:00	-	10:00	Cloudy	29
10/6/2022	10:00	-	11:00		34
10/6/2022	11:00	-	12:00		32
16/6/2022	13:00	-	14:00	Cloudy	34
16/6/2022	14:00	-	15:00		37
16/6/2022	15:00	-	16:00		37
22/6/2022	13:00	-	14:00	Sunny	73
22/6/2022	14:00	-	15:00		76
22/6/2022	15:00	-	16:00		73
28/6/2022	9:00	-	10:00	Sunny	58
28/6/2022	10:00	-	11:00		60
28/6/2022	11:00	-	12:00		62
4/7/2022	9:00	-	10:00	Sunny	43
4/7/2022	10:00	-	11:00		42
4/7/2022	11:00	-	12:00		46
9/7/2022	9:00	-	10:00	Sunny	31
9/7/2022	10:00	-	11:00		31
9/7/2022	11:00	-	12:00		33
15/7/2022	13:00	-	14:00	Sunny	44
15/7/2022	14:00	-	15:00		45
15/7/2022	15:00	-	16:00		44
21/7/2022	9:00	-	10:00	Sunny	47
21/7/2022	10:00	-	11:00		51
21/7/2022	11:00	-	12:00		52
27/7/2022	13:00	-	14:00	Sunny	59
27/7/2022	14:00	-	15:00		64
27/7/2022	15:00	-	16:00		64
2/8/2022	9:00	-	10:00	Sunny	40
2/8/2022	10:00	-	11:00		42
2/8/2022	11:00	-	12:00		44
8/8/2022	13:00	-	14:00	Cloudy	37
8/8/2022	14:00	-	15:00		39
8/8/2022	15:00	-	16:00		37
13/8/2022	9:00	-	10:00	Sunny	55
13/8/2022	10:00	-	11:00		56
13/8/2022	11:00	-	12:00		59
19/8/2022	9:00	-	10:00	Cloudy	38
19/8/2022	10:00	-	11:00		44
19/8/2022	11:00	-	12:00		47
25/8/2022	13:00	-	14:00	Cloudy	39
25/8/2022	14:00	-	15:00		42
25/8/2022	15:00	-	16:00		41
31/8/2022	13:00	-	14:00	Cloudy	35
31/8/2022	14:00	-	15:00		40
31/8/2022	15:00	-	16:00		40
5/9/2022	13:00	-	14:00		92

Air Monitoring Station				AM4(A) – The Hong Kong Society for the Blind’s Factory cum Sheltered Workshop*	
Date	Measurement Period			Weather	1-hr Average TSP Concentration, $\mu\text{g}/\text{m}^3$
5/9/2022	14:00	-	15:00	Sunny	94
5/9/2022	15:00	-	16:00		97
10/9/2022	9:00	-	10:00	Cloudy	75
10/9/2022	10:00	-	11:00		77
10/9/2022	11:00	-	12:00		81
16/9/2022	9:00	-	10:00	Cloudy	107
16/9/2022	10:00	-	11:00		114
16/9/2022	11:00	-	12:00		114
22/9/2022	9:00	-	10:00	Sunny	83
22/9/2022	10:00	-	11:00		88
22/9/2022	11:00	-	12:00		87
28/9/2022	13:00	-	14:00	Sunny	70
28/9/2022	14:00	-	15:00		73
28/9/2022	15:00	-	16:00		79

NOTE: \* Due to the relocation of The Hong Kong Society for the Blind’s Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. 1-hour TSP monitoring was conducted on the ground floor outside AM4(A) with facing to the Project Site because of the access limitation in September 2022.





Air Monitoring Station				AM7 – Hong Kong Children’s Hospital	
Date	Measurement Period			Weather	1-hr Average TSP Concentration, $\mu\text{g}/\text{m}^3$
4/6/2022	13:00	-	14:00	Cloudy	26
4/6/2022	14:00	-	15:00		30
4/6/2022	15:00	-	16:00		29
10/6/2022	13:00	-	14:00	Cloudy	25
10/6/2022	14:00	-	15:00		31
10/6/2022	15:00	-	16:00		30
16/6/2022	9:00	-	10:00	Cloudy	24
16/6/2022	10:00	-	11:00		26
16/6/2022	11:00	-	12:00		28
22/6/2022	9:00	-	10:00	Sunny	52
22/6/2022	10:00	-	11:00		52
22/6/2022	11:00	-	12:00		50
28/6/2022	13:00	-	14:00	Sunny	44
28/6/2022	14:00	-	15:00		48
28/6/2022	15:00	-	16:00		47
4/7/2022	13:00	-	14:00	Sunny	35
4/7/2022	14:00	-	15:00		35
4/7/2022	15:00	-	16:00		39
9/7/2022	13:00	-	14:00	Sunny	22
9/7/2022	14:00	-	15:00		26
9/7/2022	15:00	-	16:00		26
15/7/2022	9:00	-	10:00	Sunny	33
15/7/2022	10:00	-	11:00		36
15/7/2022	11:00	-	12:00		35
21/7/2022	13:00	-	14:00	Sunny	65
21/7/2022	14:00	-	15:00		68
21/7/2022	15:00	-	16:00		71
27/7/2022	9:00	-	10:00	Sunny	60
27/7/2022	10:00	-	11:00		65
27/7/2022	11:00	-	12:00		64
2/8/2022	13:00	-	14:00	Sunny	28
2/8/2022	14:00	-	15:00		31
2/8/2022	15:00	-	16:00		30
8/8/2022	9:00	-	10:00	Cloudy	27
8/8/2022	10:00	-	11:00		30
8/8/2022	11:00	-	12:00		30
13/8/2022	13:00	-	14:00	Sunny	42
13/8/2022	14:00	-	15:00		43
13/8/2022	15:00	-	16:00		46
19/8/2022	13:00	-	14:00	Cloudy	22
19/8/2022	14:00	-	15:00		26
19/8/2022	15:00	-	16:00		27
25/8/2022	11:00	-	12:00	Cloudy	25
25/8/2022	16:00	-	17:00		29
25/8/2022	17:00	-	18:00		28
31/8/2022	9:00	-	10:00		59

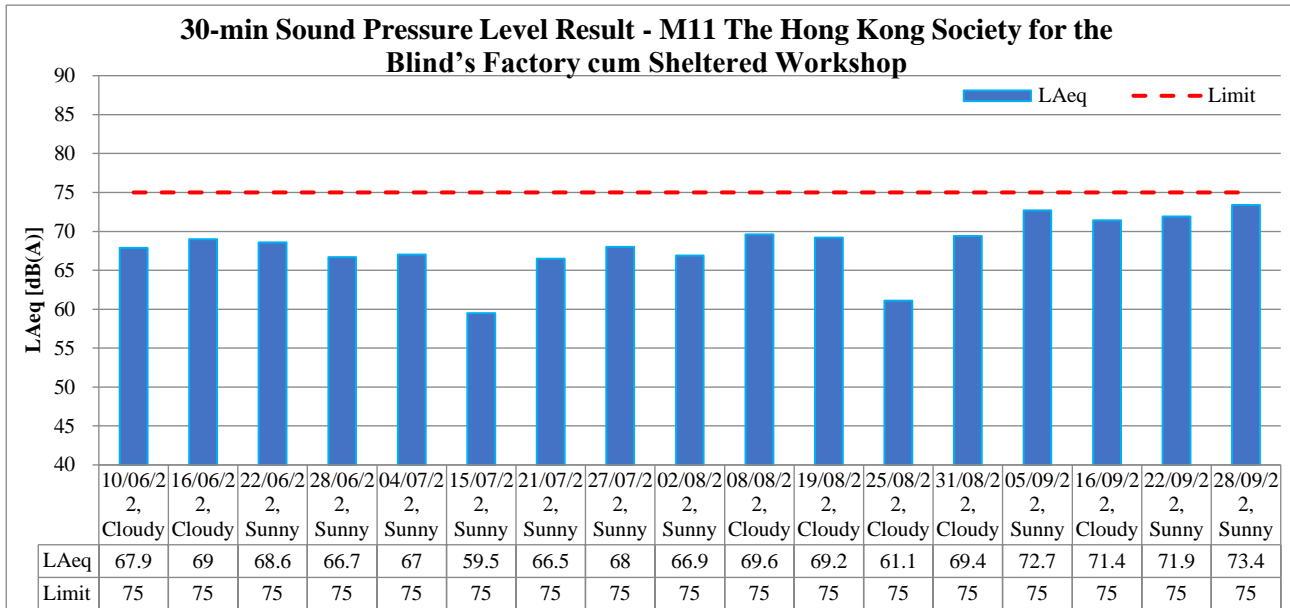
Air Monitoring Station				AM7 – Hong Kong Children’s Hospital	
Date	Measurement Period			Weather	1-hr Average TSP Concentration, $\mu\text{g}/\text{m}^3$
31/8/2022	10:00	-	11:00	Cloudy	62
31/8/2022	11:00	-	12:00		66
5/9/2022	9:00	-	10:00	Sunny	72
5/9/2022	10:00	-	11:00		76
5/9/2022	11:00	-	12:00		75
10/9/2022	13:00	-	14:00	Cloudy	66
10/9/2022	14:00	-	15:00		69
10/9/2022	15:00	-	16:00		67
16/9/2022	13:00	-	14:00	Cloudy	110
16/9/2022	14:00	-	15:00		126
16/9/2022	15:00	-	16:00		127
22/9/2022	13:00	-	14:00	Sunny	75
22/9/2022	14:00	-	15:00		79
22/9/2022	15:00	-	16:00		81
28/9/2022	9:30	-	10:30	Sunny	66
28/9/2022	10:30	-	11:30		67
28/9/2022	13:00	-	14:00		72



### 30-minute Noise

Noise Monitoring Station			M11 – The Hong Kong Society for the Blind’s Factory cum Sheltered Workshop*				
Date	Measurement Period		Weather	L <sub>Aeq</sub> , dB(A)	L <sub>A10</sub> , dB(A)	L <sub>A90</sub> , dB(A)	
10/6/2022	10:55	-	11:25	Cloudy	67.9	70.6	62.2
16/6/2022	13:43	-	14:13	Cloudy	69	73.1	60.3
22/6/2022	14:23	-	14:53	Sunny	68.6	70.9	62.2
28/6/2022	11:10	-	11:40	Sunny	66.7	69.7	59.7
4/7/2022	11:15	-	11:45	Sunny	67.0	70.1	60.6
15/7/2022	15:04	-	15:34	Sunny	59.5	60.7	58.9
21/7/2022	10:00	-	10:30	Sunny	66.5	69.4	62.0
27/7/2022	13:09	-	13:39	Sunny	68.0	70.7	63.2
2/8/2022	11:30	-	12:00	Sunny	66.9	70.5	59.5
08/8/2022	14:14	-	14:44	Cloudy	69.6	73	63.0
19/8/2022	10:03	-	10:33	Cloudy	69.2	71.9	63.3
25/8/2022	15:23	-	15:53	Cloudy	61.1	63.2	56.8
31/8/2022	14:53	-	15:23	Cloudy	69.4	71.6	61.3
5/9/2022	13:49	-	14:19	Sunny	72.7	75.8	62.1
16/9/2022	10:24	-	10:54	Cloudy	71.4	74.7	63.7
22/9/2022	11:06	-	11:36	Sunny	71.9	75.4	62.8
28/9/2022	14:25	-	14:55	Sunny	73.4	76.8	63.0

NOTE: \* Due to the relocation of The Hong Kong Society for the Blind’s Factory cum Sheltered Workshop (M11), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. Construction noise monitoring was conducted on the ground floor outside M11 with facing to the Project Site because of the access limitation in September 2022.

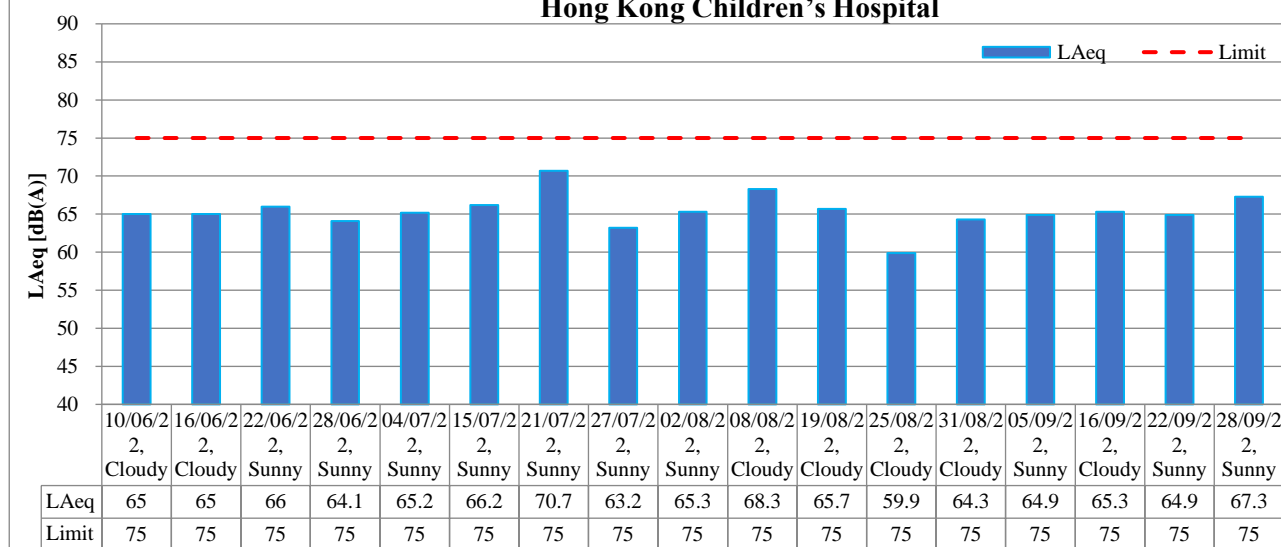


Major Construction Activities	Reporting Period			
	Jun 2022	Jul 2022	Aug 2022	Sep 2022
South Approach Ramp – Construction of Permanent Structure	✓	✓	✓	✓
Underpass – Construction of walls and roof slab	✓	✓		
South Depressed Road – Installation of ELS system / construction of permanent works	✓			
Rising Main and Water Pipe – Laying of sewage	✓	✓	✓	✓
Landscaped Deck – Construction of pile caps and installation of columns	✓			
Lift 1 & 2 – Installation of ELS system	✓	✓	✓	✓
North Approach Ramp – Construction of utilities trough	✓	✓	✓	
Bridge D3 – Construction of Bridge Deck	✓		✓	✓
North Depressed Road – Construction of wall & top slab	✓	✓	✓	
District Cooling System seawater intake box culvert - reinstatement of the seawall and backfilling works	✓	✓	✓	✓
Lift 3 – Modification works	✓	✓	✓	✓
Lift 4 – Construction of linking platform	✓			
Transformer Room - Construction of permanent structure	✓	✓	✓	✓
CLP substation – Construction of wall & intermediate slab	✓			
Noise Barrier – Remaining works, Bus lay-by construction	✓	✓	✓	✓
Seawater Intake Box Culvert of Saltwater Pumping Station – Installation of sheetpiles and ELS system	✓	✓	✓	✓
Bridge D3 – Construction of Bridge Deck and abutments		✓		
Lift 4 – Construction of linking platform, Installation of glass		✓		
South Depressed Road – construction of permanent works		✓	✓	✓
Landscaped Deck – Construction of pile caps and installation of columns, construction of Landscaped Deck		✓		
Shing Kai Road – Modification works, laying of storm water drainage pipes	✓	✓	✓	✓
CLP substation – Construction of wall & intermediate slab, permeant structure		✓	✓	✓
Underpass – Construction of upstand wall			✓	
Lift 4 – Construction of lift shaft			✓	
Landscaped Deck – Installation of columns, construction of Landscaped Deck			✓	
North Approach Ramp – Construction of end wall				✓
North Depressed Road – Construction of central median and profile barrier				✓
Underpass – Construction of upstand wall, Panel timber slat installation				✓
Lift 4 – Construction of lift shaft and glass panel				✓
Elevated Landscaped Deck – Installation of columns, construction of Landscaped Deck				✓

Factors might affect the monitoring results	Reporting Period			
	Jun 2022	Jul 2022	Aug 2022	Sep 2022
Non-project related construction activities in the adjacent construction sites were observed.	✓	✓	✓	✓

Noise Monitoring Station				M12 – Hong Kong Children’s Hospital			
Date	Measurement Period			Weather	L <sub>Aeq</sub> , dB(A)	L <sub>A10</sub> , dB(A)	L <sub>A90</sub> , dB(A)
10/6/2022	14:56	-	15:26	Cloudy	65.0	66.8	63.0
16/6/2022	9:26	-	9:56	Cloudy	65.0	66.5	63.1
22/6/2022	9:51	-	10:21	Sunny	66.0	67.6	64.1
28/6/2022	15:02	-	15:32	Sunny	64.1	66.9	61.2
4/7/2022	15:00	-	15:30	Sunny	65.2	67.0	63.1
15/7/2022	10:02	-	10:32	Sunny	66.2	68.5	62.5
21/7/2022	14:00	-	14:30	Sunny	70.7	72.5	69.4
27/7/2022	10:39	-	11:09	Sunny	63.2	65.0	60.9
2/8/2022	14:14	-	14:44	Sunny	65.3	66.8	63.2
08/8/2022	9:36	-	10:06	Cloudy	68.3	71.2	60.8
19/8/2022	13:21	-	13:51	Cloudy	65.7	67.8	63.0
25/8/2022	17:13	-	17:43	Cloudy	59.9	61.0	58.8
31/8/2022	10:21	-	10:51	Cloudy	64.3	66.3	61.7
5/9/2022	10:20	-	10:50	Sunny	64.9	66.8	62.1
16/9/2022	13:22	-	13:52	Cloudy	65.3	67.4	62.8
22/9/2022	14:31	-	15:01	Sunny	64.9	67.0	62.5
28/9/2022	10:17	-	10:47	Sunny	67.3	69.1	65.0

**30-min Sound Pressure Level Result - M12  
Hong Kong Children's Hospital**



Major Construction Activities	Reporting Period			
	Jun 2022	Jul 2022	Aug 2022	Sep 2022
South Approach Ramp – Construction of Permanent Structure	✓	✓	✓	✓
Underpass – Construction of walls and roof slab	✓	✓		
South Depressed Road – Installation of ELS system / construction of permanent works	✓			
Rising Main and Water Pipe – Laying of sewage	✓	✓	✓	✓
Landscaped Deck – Construction of pile caps and installation of columns	✓			
Lift 1 & 2 – Installation of ELS system	✓	✓	✓	✓
North Approach Ramp – Construction of utilities trough	✓	✓	✓	
Bridge D3 – Construction of Bridge Deck	✓		✓	✓
North Depressed Road – Construction of wall & top slab	✓	✓	✓	
District Cooling System seawater intake box culvert - reinstatement of the seawall and backfilling works	✓	✓	✓	✓
Lift 3 – Modification works	✓	✓	✓	✓
Lift 4 – Construction of linking platform	✓			
Transformer Room - Construction of permanent structure	✓	✓	✓	✓
CLP substation – Construction of wall & intermediate slab	✓			
Noise Barrier – Remaining works, Bus lay-by construction	✓	✓	✓	✓
Seawater Intake Box Culvert of Saltwater Pumping Station – Installation of sheetpiles and ELS system	✓	✓	✓	✓
Bridge D3 – Construction of Bridge Deck and abutments		✓		
Lift 4 – Construction of linking platform, Installation of glass		✓		
South Depressed Road – construction of permanent works		✓	✓	✓
Landscaped Deck – Construction of pile caps and installation of columns, construction of Landscaped Deck		✓		
Shing Kai Road – Modification works, laying of storm water drainage pipes	✓	✓	✓	✓
CLP substation – Construction of wall & intermediate slab, permeant structure		✓	✓	✓
Underpass – Construction of upstand wall			✓	
Lift 4 – Construction of lift shaft			✓	
Landscaped Deck – Installation of columns, construction of Landscaped Deck			✓	
North Approach Ramp – Construction of end wall				✓
North Depressed Road – Construction of central median and profile barrier				✓
Underpass – Construction of upstand wall, Panel timber slat installation				✓
Lift 4 – Construction of lift shaft and glass panel				✓
Elevated Landscaped Deck – Installation of columns, construction of Landscaped Deck				✓

Factors might affect the monitoring results	Reporting Period			
	Jun 2022	Jul 2022	Aug 2022	Sep 2022
Non-project related construction activities in the adjacent construction sites were observed.	✓	✓	✓	✓



**Appendix F – Event and Action Plans for Construction Dust  
Monitoring, Construction Noise and Landscape and Visual Impact**

<b>Event and Action Plans for Construction Dust Monitoring</b>				
<b>Event</b>	<b>Action</b>			
	<b>ET</b>	<b>IEC</b>	<b>Supervisor / ER</b>	<b>Contractor</b>
Action Level being exceeded by one sampling	<ol style="list-style-type: none"> <li>1. Identify source and investigate the causes of exceedance;</li> <li>2. Inform Contractor, IEC and Supervisor /ER;</li> <li>3. Repeat measurement to confirm finding.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET;</li> <li>2. Check Contractor's working method.</li> </ol>	<ol style="list-style-type: none"> <li>1. Notify Contractor.</li> </ol>	<ol style="list-style-type: none"> <li>1. Rectify any unacceptable practice;</li> <li>2. Amend working methods if appropriate.</li> </ol>
Action Level being exceeded by two or more consecutive sampling	<ol style="list-style-type: none"> <li>1. Identify source and investigate the causes of exceedance;</li> <li>2. Inform Contractor, IEC and Supervisor /ER;</li> <li>3. Increase monitoring frequency to daily;</li> <li>4. Discuss with IEC and Contractor on remedial actions required;</li> <li>5. Assess the effectiveness of Contractor's remedial actions;</li> <li>6. If exceedance continues, arrange meeting with IEC and Supervisor /ER;</li> <li>7. If exceedance stops, cease additional monitoring.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET;</li> <li>2. Check Contractor's working method;</li> <li>3. Discuss with ET and Contractor on possible remedial measures;</li> <li>4. Advise the Supervisor /ER on the effectiveness of the proposed remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of exceedance in writing;</li> <li>2. Notify Contractor;</li> <li>3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>4. Supervise implementation of remedial measures;</li> <li>5. Conduct meeting with ET and IEC if exceedance continues.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss with ET and IEC on proper remedial actions;</li> <li>2. Submit proposals for remedial actions to Supervisor /ER and IEC within three working day of notification;</li> <li>3. Implement the agreed proposals;</li> <li>4. Amend proposal if appropriate.</li> </ol>
Limit Level being exceeded by one sampling	<ol style="list-style-type: none"> <li>1. Identify source and investigate the causes of exceedance;</li> <li>2. Inform Contractor, IEC, Supervisor /ER, and EPD;</li> <li>3. Repeat measurement to confirm finding;</li> <li>4. Assess effectiveness of</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET;</li> <li>2. Check Contractor's working method;</li> <li>3. Discuss possible remedial measures with ET and Contractor;</li> <li>4. Advise the Supervisor /ER</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of exceedance in writing;</li> <li>2. Notify Contractor;</li> <li>3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be</li> </ol>	<ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance;</li> <li>2. Discuss with ET and IEC on proper remedial actions;</li> <li>3. Submit proposal for remedial actions to Supervisor /ER and IEC</li> </ol>

Event and Action Plans for Construction Dust Monitoring				
Event	Action			
	ET	IEC	Supervisor / ER	Contractor
	Contractor's remedial actions and keep EPD, IEC and Supervisor /ER informed of the results.	on the effectiveness of the proposed remedial measures.	implemented; 4. Supervise implementation of remedial measures; 5. Conduct meeting with ET and IEC if exceedance continues.	within three working days of notification; 4. Implement the agreed proposals.
Limit Level being exceeded by two or more consecutive sampling	<ol style="list-style-type: none"> <li>1. Notify IEC, Supervisor /ER, Contractor and EPD;</li> <li>2. Repeat measurement to confirm findings;</li> <li>3. Carry out analysis of Contractor's working procedures to identify source and investigate the causes of exceedance;</li> <li>4. Increase monitoring frequency to daily;</li> <li>5. Arrange meeting with IEC, Supervisor /ER and Contractor to discuss the remedial action to be taken;</li> <li>6. Assess effectiveness of Contractor's remedial actions and keep EPD, IEC and Supervisor /ER informed of the results;</li> <li>7. If exceedance stop, cease additional monitoring.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET;</li> <li>2. Check Contractor's working method;</li> <li>3. Discuss with Supervisor /ER, ET, and Contractor on the potential remedial actions;</li> <li>4. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the Supervisor /ER accordingly.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of exceedance in writing;</li> <li>2. Notify Contractor;</li> <li>3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>4. Supervise implementation of remedial measures;</li> <li>5. If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated.</li> </ol>	<ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance;</li> <li>2. Discuss with ET and IEC on proper remedial actions;</li> <li>3. Submit proposal for remedial actions to Supervisor /ER and IEC within three working days of notification;</li> <li>4. Implement the agreed proposals;</li> <li>5. Submit further remedial actions if problem still not under control;</li> <li>6. Stop the relevant portion of works as instructed by the Supervisor /ER until the exceedance is abated.</li> </ol>

Event and Action Plans for Construction Noise				
Event	Action			
	ET	IEC	Supervisor / ER	Contractor
Action Level being exceeded	<ol style="list-style-type: none"> <li>1. Notify Supervisor / ER, IEC and Contractor;</li> <li>2. Carry out investigation;</li> <li>3. Report the results of investigation to the IEC, Supervisor / ER and Contractor;</li> <li>4. Discuss with the IEC and Contractor on remedial measures required;</li> <li>5. Increase monitoring frequency to check mitigation effectiveness.</li> </ol> <p>(The above actions should be taken within 2 working days after the exceedance is identified.)</p>	<ol style="list-style-type: none"> <li>1. Review the investigation results submitted by the ET;</li> <li>2. Review the proposed remedial measures submitted by the Contractor and advise the ER accordingly;</li> <li>3. Advise the Supervisor / ER on the proposed remedial measures.</li> </ol> <p>(The above actions should be taken within 2 working days after the exceedance is identified.)</p>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>4. Supervise the implementation of remedial measures.</li> </ol> <p>(The above actions should be taken within 2 working days after the exceedance is identified.)</p>	<ol style="list-style-type: none"> <li>1. Submit noise mitigation proposal to IEC and Supervisor / ER;</li> <li>2. Implement noise mitigation proposals.</li> </ol> <p>(The above actions should be taken within 2 working days after the exceedance is identified.)</p>
Limit Level being exceeded	<ol style="list-style-type: none"> <li>1. Inform IEC, Supervisor /ER, Contractor and EPD;</li> <li>2. Repeat measurement to confirm findings;</li> <li>3. Increase monitoring frequency;</li> <li>4. Identify source and investigate the cause of exceedance;</li> <li>5. Carry out analysis of Contract's working procedure;</li> <li>6. Discuss remedial measures required with the IEC, Contractor and Supervisor /ER;</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss the potential remedial actions with Supervisor /ER, ET and Contractor;</li> <li>2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the Supervisor /ER accordingly.</li> </ol> <p>(The above actions should be taken within 2 working days after the exceedance is identified.)</p>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>4. Supervise the implementation of remedial measures;</li> <li>5. If exceedance continues, consider stopping the Contractor to continue working on that portion of</li> </ol>	<ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance;</li> <li>2. Submit proposals for remedial actions to IEC and Supervisor /ER within 3 working days of notification;</li> <li>3. Implement the agreed proposal;</li> <li>4. Submit further proposal if problem still not under control;</li> <li>5. Stop the relevant portion of works as instructed by the Supervisor /ER until the exceedance is abated.</li> </ol>

<b>Event and Action Plans for Construction Noise</b>				
<b>Event</b>	<b>Action</b>			
	<b>ET</b>	<b>IEC</b>	<b>Supervisor / ER</b>	<b>Contractor</b>
	<p>7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD, and Supervisor /ER informed of the results;</p> <p>8. If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified.)</p>		<p>work which causes the exceedance until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified.)</p>	<p>(The above actions should be taken within 2 working days after the exceedance is identified.)</p>

<b>Event and Action Plans for Landscape and Visual Impact</b>				
<b>Event</b>	<b>Action</b>			
	<b>ET</b>	<b>IEC</b>	<b>Supervisor / ER</b>	<b>Contractor</b>
Design Check	<ol style="list-style-type: none"> <li>1. Check final design conforms to the requirements of EP and prepare report.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check report.</li> <li>2. Recommend remedial design if necessary.</li> </ol>	<ol style="list-style-type: none"> <li>1. Undertake remedial design if necessary.</li> </ol>	
Non-conformity on one occasion	<ol style="list-style-type: none"> <li>1. Identify Source.</li> <li>2. Inform IEC and Supervisor /ER.</li> <li>3. Discuss remedial actions with IEC, Supervisor /ER and Contractor.</li> <li>4. Monitor remedial actions until rectification has been completed.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check report.</li> <li>2. Check Contractor's working method.</li> <li>3. Discuss with ET and Contractor on possible remedial measures.</li> <li>4. Advise Supervisor /ER on effectiveness of proposed remedial measures.</li> <li>5. Check implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Notify Contractor.</li> <li>2. Ensure remedial measures are properly implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Amend working methods.</li> <li>2. Rectify damage and undertake any necessary replacement.</li> </ol>
Repeated Non-conformity	<ol style="list-style-type: none"> <li>1. Identify Source.</li> <li>2. Inform IEC and Supervisor /ER.</li> <li>3. Increase monitoring frequency.</li> <li>4. Discuss remedial actions with IEC, Supervisor /ER and Contractor.</li> <li>5. Monitor remedial actions until rectification has been completed.</li> <li>6. If non-conformity stops, cease additional monitoring.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring report.</li> <li>2. Check Contractor's working method.</li> <li>3. Discuss with ET and Contractor on possible remedial measures.</li> <li>4. Advise Supervisor /ER on effectiveness of proposed remedial measures.</li> <li>5. Supervise implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Notify Contractor.</li> <li>2. Ensure remedial measures are properly implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Amend working methods.</li> <li>2. Rectify damage and undertake any necessary replacement.</li> </ol>

**Appendix G – Waste Flow Table**



## Appendix F - Monthly Summary Waste Flow Table

Name of Department: CEDD

Contract No.: ED/2018/01

**Monthly Summary Waste Flow Table for September 2022**

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper / cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan	0.832	--	--	--	0.832	--	--	0.100	--	--	0.144
Feb	0.749	--	0.450	--	0.299	--	--	--	--	--	0.124
Mar	0.768	--	--	--	0.768	--	--	--	--	--	0.154
Apr	0.488	--	--	--	0.488	--	--	--	--	--	0.167
May	2.374	--	--	--	2.374	--	--	--	--	--	0.190
Jun	2.555	--	0.442	--	1.857	0.256	--	--	--	--	0.174
<b>Sub-total</b>	<b>7.766</b>	<b>--</b>	<b>0.892</b>	<b>--</b>	<b>6.618</b>	<b>0.256</b>	<b>--</b>	<b>0.100</b>	<b>--</b>	<b>--</b>	<b>0.953</b>
July	3.255	--	--	--	3.255	--	--	--	--	--	0.158
Aug	4.764	--	--	--	4.614	0.15	--	0.118	--	--	0.283
Sep	1.876	--	0.350	--	2.076	0.15	--	--	--	--	0.195
Oct											
Nov											
Dec											
<b>Total</b>	<b>17.661</b>	<b>--</b>	<b>1.242</b>	<b>--</b>	<b>16.563</b>	<b>0.556</b>	<b>--</b>	<b>0.218</b>	<b>--</b>	<b>--</b>	<b>1.589</b>
Forecast of Total Quantities of C&D Materials to be Generated from the Contract*											
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper / cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse	
(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )	
<b>195.01</b>	<b>2.103</b>	<b>10.2</b>	<b>140</b>	<b>19.81</b>	<b>25</b>	<b>200</b>	<b>0.8</b>	<b>0.1</b>	<b>--</b>	<b>3.4</b>	

- Notes:
- (1) The performance targets are given in **ER Appendix 8I Clause 14** and the EM&A Manual
  - (2) The waste flow table shall also include C&D materials to be imported for use at the Site
  - (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material and water barrier
  - (4) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000m<sup>3</sup> (**ER Part 8 Clause 8.7.5(d)(ii)** refers)
  - (5) Assume inert C&D materials density and non-inert C&D materials are 1.9 m<sup>3</sup>/ton and 1.5 m<sup>3</sup>/ton

**Appendix H – Environmental Mitigation Implementation Schedule  
(EMIS)**

<b>Implementation Schedule for Air Quality Measures</b>			
<b>EIA for KTD Development Ref.</b>	<b>EIA for KTD – Roads D3A &amp; D4A Ref.</b>	<b>Environmental Protection Measures / Mitigation Measures</b>	<b>Status</b>
S3.2		8 times daily watering of the work site with active dust emitting activities.	^
S3.2	S4.8	Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation. The following mitigation measures, good site practices and a comprehensive dust monitoring and audit programme are recommended to minimize cumulative dust impacts.	^
		- Stockpiling site(s) should be lined with impermeable sheeting and bunded. Stockpiles should be fully covered by impermeable sheeting to reduce dust emission.	^
		- Misting for the dusty material should be carried out before being loaded into the vehicle.	^
		- Any vehicle with an open load carrying area should have properly fitted side and tail boards.	^
		- Material having the potential to create dust should not be loaded from a level higher than the side and tail boards and should be dampened and covered by a clean tarpaulin.	^
		- The tarpaulin should be properly secured and should extend at least 300 mm over the edges of the sides and tailboards. The material should also be dampened if necessary, before transportation.	^
		- The vehicles should be restricted to maximum speed of 10 km per hour and confined haulage and delivery vehicle to designated roadways inside the site. On-site unpaved roads should be compacted and kept free of loose materials.	^
		- Vehicle washing facilities should be provided at every vehicle exit point.	^
		- The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores.	^
		- Every main haul road should be sealed with concrete and kept clear of dusty materials or sprayed with water so as to maintain the entire road surface wet.	^
		- Every stock of more than 20 bags of cement should be covered entirely by impervious sheeting placed in an area sheltered on the top and the three sides.	^
		- Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites.	^

<b>Implementation Schedule for Noise Measures</b>			
<b>EIA for KTD Development Ref.</b>	<b>EIA for KTD – Roads D3A &amp; D4A Ref.</b>	<b>Environmental Protection Measures / Mitigation Measures</b>	<b>Status</b>
S3.3		Use of quiet PME, movable barriers barrier for Asphalt Paver, Breaker, Excavator and Hand-held breaker and full enclosure for Air Compressor, Bar Bender, Concrete Pump, Generator and Water Pump.	^
S3.3		Good Site Practice:	
S3.3		- Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program.	^*
		- Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program.	^
		- Mobile plant, if any, should be sited as far away from NSRs as possible.	^
		- Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum.	^
		- Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs.	^
		- Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities.	^
		- Scheduling of Construction Works during School Examination Period	^

<b>Implementation Schedule for Water Quality Measures</b>			
<b>EIA for KTD Development Ref.</b>	<b>EIA for KTD – Roads D3A &amp; D4A Ref.</b>	<b>Environmental Protection Measures / Mitigation Measures</b>	<b>Status</b>
S3.4		<u>Construction Runoff</u> Exposed soil areas should be minimised to reduce the potential for increased siltation, contamination of runoff, and erosion. Construction runoff related impacts associated with the above ground construction activities can be readily controlled through the use of appropriate mitigation measures which include:	^
S3.4		- use of sediment traps.	^
S3.4		- adequate maintenance of drainage systems to prevent flooding	^

<b>Implementation Schedule for Water Quality Measures</b>			
<b>EIA for KTD Development Ref.</b>	<b>EIA for KTD – Roads D3A &amp; D4A Ref.</b>	<b>Environmental Protection Measures / Mitigation Measures</b>	<b>Status</b>
		and overflow.	
	S5.8	- Surface run-off from construction sites should be discharged into storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sedimentation basins.	^
	S5.8	- Channels or earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Perimeter channels should be provided on site boundaries where necessary to intercept storm run-off from outside the site so that it will not wash across the site. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks.	^
	S5.8	- Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly, at the onset of and after each rainstorm to prevent local flooding. Any practical options for the diversion and re-alignment of drainage should comply with both engineering and environmental requirements in order to provide adequate hydraulic capacity of all drains. Minimum distance of 100 m should be maintained between the discharge points of construction site run-off and the existing saltwater intakes.	^
	S5.8	- Earthworks final surfaces should be well compacted and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary.	^
	S5.8	- Measures should be taken to minimize the ingress of rainwater into trenches. If excavation of trenches in wet seasons is necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	^
	S5.8	- Open stockpiles of construction materials (e.g. aggregates, sand and fill material) on sites should be covered with tarpaulin or similar fabric during rainstorms.	^
	S5.8	- Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers. Discharge of surface run-off into foul sewers must	^

<b>Implementation Schedule for Water Quality Measures</b>			
<b>EIA for KTD Development Ref.</b>	<b>EIA for KTD – Roads D3A &amp; D4A Ref.</b>	<b>Environmental Protection Measures / Mitigation Measures</b>	<b>Status</b>
		always be prevented in order not to unduly overload the foul sewerage system.	
	S5.8	- Good site practices should be adopted to remove rubbish and litter from construction sites so as to prevent the rubbish and litter from spreading from the site area. It is recommended to clean the construction sites on a regular basis.	^
S3.4		Construction site should be provided with adequately designed perimeter channel and pre-treatment facilities and proper maintenance. The boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches should be provided to facilitate runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94.	^
S3.4	S5.8	Ideally, construction works should be programmed to minimise surface excavation works during the rainy season (April to September). All exposed earth areas should be completed as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable.  If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means.  If excavation in soil cannot be avoided in these months or at any time of year when rainstorms are likely, for the purpose of preventing soil erosion, temporary exposed slope surfaces should be covered e.g. by tarpaulin, and temporary access roads should be protected by crushed stone or gravel, as excavation proceeds. Intercepting channels should be provided (e.g. along the crest / edge of excavation) to prevent storm runoff from washing across exposed soil surfaces. Arrangements should always be in place in such a way that adequate surface protection measures can be safely carried out well before the arrival of a rainstorm.	^
S3.4		Sediment tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8 m <sup>3</sup> capacity, are recommended as a general mitigation measure which can be used for settling surface runoff prior to disposal. The system capacity is	^

<b>Implementation Schedule for Water Quality Measures</b>			
<b>EIA for KTD Development Ref.</b>	<b>EIA for KTD – Roads D3A &amp; D4A Ref.</b>	<b>Environmental Protection Measures / Mitigation Measures</b>	<b>Status</b>
		flexible and able to handle multiple inputs from a variety of sources and particularly suited to applications where the influent is pumped.	
S3.4		Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50 m <sup>3</sup> should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.	^
S3.4		Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers.	^
S3.4		Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecast, and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events.	^
S3.4		Oil interceptors should be provided in the drainage system and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain.	NA
S3.4	S5.8	<u>Wheel Washing Water</u> All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and located wheel washing bay should be provided at every site exit, and wash-water should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.	^
S3.4		<u>Drainage</u> It is recommended that on-site drainage system should be installed prior to the commencement of other construction activities. Sediment traps should be installed in order to minimise the sediment loading of the effluent prior to discharge into foul sewers. There should be no direct discharge of effluent from the site into the sea.	^

<b>Implementation Schedule for Water Quality Measures</b>			
<b>EIA for KTD Development Ref.</b>	<b>EIA for KTD – Roads D3A &amp; D4A Ref.</b>	<b>Environmental Protection Measures / Mitigation Measures</b>	<b>Status</b>
S3.4		All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled release of storm flows. All sediment control measures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage should be reinstated to its original condition when the construction work has finished or the temporary diversion is no longer required.	^*
S3.4		All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters of the Victoria Harbour WCZ.	^
S3.4	S5.8	<p><u>Sewage Effluent</u></p> <p>Construction work force sewage discharges on site are expected to be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage may need to be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets should be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor should also be responsible for waste disposal and maintenance practices.</p> <p>Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the surrounding environment. Regular environmental audit of the construction site will provide an effective control of any malpractices and can encourage continual improvement of environmental performance on site. It is anticipated that sewage generation during the construction phase of the project would not cause water pollution problem after undertaking all required measures.</p>	^
S3.4		<p><u>Stormwater Discharges</u></p> <p>Minimum distances of 100 m should be maintained between the existing or planned stormwater discharges and the existing or planned seawater intakes</p>	^
S3.4		<p><u>Debris and Litter</u></p> <p>In order to maintain water quality in acceptable conditions with regard to aesthetic quality, contractors should be required, under</p>	^



<b>Implementation Schedule for Water Quality Measures</b>			
<b>EIA for KTD Development Ref.</b>	<b>EIA for KTD – Roads D3A &amp; D4A Ref.</b>	<b>Environmental Protection Measures / Mitigation Measures</b>	<b>Status</b>
		conditions of contract, to ensure that site management is optimised and that disposal of any solid materials, litter or wastes to marine waters does not occur.	
	S5.8	<u>Boring and Drilling Water</u> Water used in ground boring and drilling for site investigation or rock / soil anchoring should as far as practicable be re-circulated after sedimentation. When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities.	^
	S5.8	<u>Acid Cleaning, Etching and Pickling Wastewater</u> Acidic wastewater generated from acid cleaning, etching, pickling and similar activities should be neutralized to within the pH range of 6 to 10 before discharging into foul sewers.	NA
	S5.8	<u>Effluent Discharge</u> There is a need to apply to EPD for a discharge licence for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements specified in the discharge licence. All the runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS. Minimum distance of 100 m should be maintained between the discharge points of construction site effluent and the existing seawater intakes and the planned WSR mentioned in S5.3.1 as appropriate. The beneficial uses of the treated effluent for other on-site activities such as dust suppression, wheel washing and general cleaning etc., can minimise water consumption and reduce the effluent discharge volume. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the relevant WPCO licence which is under the ambit of regional office (RO) of EPD.	^
	S5.8	<u>Accidental Spillage</u> 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.	^*

<b>Implementation Schedule for Water Quality Measures</b>			
<b>EIA for KTD Development Ref.</b>	<b>EIA for KTD – Roads D3A &amp; D4A Ref.</b>	<b>Environmental Protection Measures / Mitigation Measures</b>	<b>Status</b>
		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.	
	S5.8	Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows: - Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport.	^*
	S5.8	- Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents.	^
	S5.8	- Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.	^

<b>Implementation Schedule for Waste Management Measures</b>			
<b>EIA for KTD Development Ref.</b>	<b>EIA for KTD – Roads D3A &amp; D4A Ref.</b>	<b>Environmental Protection Measures / Mitigation Measures</b>	<b>Status</b>
S3.5		<u>Good Site Practices</u> It is not anticipated that adverse waste management related impacts would arise, provided that good site practices are adhered to. Recommendations for good site practices during construction activities include:	
S3.5		- Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.	^
	S6.7	- Prepare a Waste Management Plan, which becomes a part of the Environmental Management Plan, in accordance with the requirements stipulated in ETWB TC(W) No. 19/2005, approved by the Engineer/Supervising Officer of the Project based on current practices on construction sites.	^

<b>Implementation Schedule for Waste Management Measures</b>			
<b>EIA for KTD Development Ref.</b>	<b>EIA for KTD – Roads D3A &amp; D4A Ref.</b>	<b>Environmental Protection Measures / Mitigation Measures</b>	<b>Status</b>
S3.5	S6.7	- Training of site personnel in proper waste management and chemical waste handling procedures.	^
S3.5	S6.7	- Provision of sufficient waste disposal points and regular collection for disposal.	^*
S3.5	S6.7	- Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers.	^
S3.5		- A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites).	^
	S6.7	- Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.	^
	S6.7	- Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycle.	^
S3.5		<u>Waste Reduction Measures</u> Good management and control can prevent the generation of a significant amount of waste. Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include:	^
S3.5	S6.7	- Sort C&D waste from demolition of the remaining structures to recover recyclable portions such as metals.	NA
S3.5	S6.7	- Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.	^
S3.5	S6.7	- Encourage collection of aluminium cans, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the work force.	^
S3.5		- Any unused chemicals or those with remaining functional capacity should be recycled.	^
S3.5	S6.7	- Proper storage and site practices to minimise the potential for damage or contamination of construction materials.	^
S3.5		<u>Construction and Demolition Materials</u> Mitigation measures and good site practices should be incorporated in the contract document to control potential environmental impact from handling and transportation of C&D material. The mitigation measures include:	

<b>Implementation Schedule for Waste Management Measures</b>			
<b>EIA for KTD Development Ref.</b>	<b>EIA for KTD – Roads D3A &amp; D4A Ref.</b>	<b>Environmental Protection Measures / Mitigation Measures</b>	<b>Status</b>
S3.5		- Where it is unavoidable to have transient stockpiles of C&D material within the Project work site pending collection for disposal, the transient stockpiles shall be located away from waterfront or storm drains as far as possible.	^
S3.5		- Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric.	^
S3.5		- Skip hoist for material transport should be totally enclosed by impervious sheeting.	^
S3.5		- Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site.	^
S3.5		- The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores.	^
S3.5		- The load of dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure dust materials do not leak from the vehicle.	^
S3.5		- All dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet.	^
S3.5		- The height from which excavated materials are dropped should be controlled to a minimum practical height to limit fugitive dust generation from unloading.	^
S3.5		- When delivering inert C&D material to public fill reception facilities, the material should consist entirely of inert construction waste and of size less than 250mm or other sizes as agreed with the Secretary of the Public Fill Committee. In order to monitor the disposal of the surplus C&D material at the designed public fill reception facility and to control fly tipping, a trip-ticket system as stipulated in the ETWB TCW No. 31/2004 “Trip Ticket System for Disposal of Construction and Demolition Materials” should be included as one of the contractual requirements and implemented by an Environmental Team undertaking the Environmental Monitoring and Audit work. An Independent Environmental Checker should be responsible for auditing the results of the system.	^

<b>Implementation Schedule for Waste Management Measures</b>			
<b>EIA for KTD Development Ref.</b>	<b>EIA for KTD – Roads D3A &amp; D4A Ref.</b>	<b>Environmental Protection Measures / Mitigation Measures</b>	<b>Status</b>
	S6.7	- Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste.	^
S3.5		<u>Chemical Waste</u> After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals should be collected by a licensed collector for disposal at the CWTF or other licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	^
	S6.7	Separation of chemical wastes for special handling and appropriate treatment.	^
S3.5		<u>General Refuse</u> General refuse should be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D material. Effective collection and storage methods (including enclosed and covered area) of site wastes would be required to prevent waste materials from being blown around by wind, wastewater discharge by flushing or leaching into the marine environment, or creating odour nuisance or pest and vermin problem.	^

<b>Implementation Schedule for Landscape and Visual Measures</b>			
<b>EIA for KTD Development Ref.</b>	<b>EIA for KTD – Roads D3A &amp; D4A Ref.</b>	<b>Environmental Protection Measures / Mitigation Measures</b>	<b>Status</b>
S3.8.12		All existing trees should be carefully protected during construction	^
S3.8.12		Trees unavoidably affected by the works should be transplanted where practical. Detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBC 2/2004 and 3/2006. Final locations of transplanted trees should be agreed prior to commencement of the work.	NA
S3.8.12		Control of night-time lighting.	^
S3.8.12		Erection of decorative screen hoarding.	^
	S7.9	<u>Construction Site Control</u> - CM1 - Minimized construction area and contractor's temporary works areas.	^
		- CM2- Control of night-time lighting and glare by hooding all	^

<b>Implementation Schedule for Landscape and Visual Measures</b>			
<b>EIA for KTD Development Ref.</b>	<b>EIA for KTD – Roads D3A &amp; D4A Ref.</b>	<b>Environmental Protection Measures / Mitigation Measures</b>	<b>Status</b>
		lights.	
		- CM3 - Erection of decorative mesh screens or construction hoardings around works areas in visually unobtrusive colours.	^
		- CM4 - Reduction of construction period to practical minimum.	^
		- CM5 - Limitation of / Ensuring no run-off into surrounding landscape and adjacent seawater areas.	^
		- CM6 - Temporary or advance landscape should be provided along the temporary access roads to the Cruise Terminal until such time as road D3 is open.	NA

<b>Remarks:</b>			
^	Compliance of mitigation measure.	X	Non-compliance of mitigation measure.
N/A	Not Applicable at this stage.	●	Non-compliance but rectified by the contractor.
N/A (1)	Not observed.		
*	Recommendation was made during site audit but improved/rectified by the contractor.	#	Recommendation was made during audit and to be improved/ rectified by the contractor.

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

**Reporting Period: July 2022 to September 2022**

<b>Contract No.</b>	<b>Record of Complaint (Yes/No)</b>	<b>Record of Warning (Yes/No)</b>	<b>Notification of Summons and Successful Prosecutions (Yes/No)</b>
ED/2018/01	No	No	No

**Cumulative Statistics on Complaints, Notification of Summons and Successful Prosecutions upto reporting period**

<b>Contract No.</b>	<b>Record of Complaint</b>	<b>Record of Warning</b>	<b>Notification of Summons and Successful Prosecutions</b>
ED/2018/01	3	0	0



<b>Complaint Log for ED/2018/01</b>				
Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Recommendations / Actions	Close-Out Date / Status
C0001	A dust complaint was referred from the Contractor on 21 October 2020 regarding a public complaint via 1823 hotline (Case no. 3-6518939602) on 20 October 2020.	<ol style="list-style-type: none"> <li>1. The water spraying system was not operated in proper time.</li> <li>2. Stockpile was not covered properly.</li> <li>3. Haul road was not wetted.</li> <li>4. Materials transported on trucks were not provided with mechanical covers.</li> </ol>	<p><u>Investigation</u></p> <ol style="list-style-type: none"> <li>1. Based on the information provided by the Contractor on 22 October 2020, the water sprinklers system was sprayed every 15 minutes with 70 seconds interval automatically. For the area that water sprinklers system was not covered, manual water spraying was provided. Dump trucks were covered with mechanical cover after loading the materials. The stockpile area was covered by the tarpaulin during night time.</li> <li>2. Based on the monitoring results on 16 October 2020, the 1-hour and 24-hour TSP results were below the Action Levels and Limit Levels.</li> <li>3. Regular site inspection was conducted by ET on 22 October 2020, no adverse observation against the dust impact was recorded.</li> </ol> <p><u>Recommendations</u></p> <p>To minimize the impact for air quality, mitigation measures should be enhanced specially in dry seasons are recommended:</p> <ol style="list-style-type: none"> <li>1. Increase the frequency and duration for automatic water spraying system.</li> <li>2. Main haul road and the area that water sprinklers system was not covered in the construction site should be wetted by water trucks or manually in regular basis.</li> <li>3. Ensure stockpiling sites should be lined with impermeable sheeting and banded. Stockpiles should be fully covered by impermeable sheeting at all time except</li> </ol>	<ul style="list-style-type: none"> <li>- Closed-out on 5 Nov 2020</li> <li>- No further complaint was received.</li> </ul>

<b>Complaint Log for ED/2018/01</b>				
Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Recommendations / Actions	Close-Out Date / Status
			<p>during working process.</p> <p><u>Action taken</u> As per the Contractor, the water sprinklers are now adjusted to start at 8:00am and end at 6:00pm for Monday to Saturday while from 8:00am to 5:00pm on Sunday. Water spraying are set with 5-minute time interval with duration 30-60 seconds.</p>	
C0002	A dust complaint was referred from the Contractor on 8 September 2021 through E-Mail regarding a complaint received by EPD (EPD ref.: K19/RE/00021205-21) on 7 September 2021.	Complaint of dust problem at the pavement of Muk Tai Street near Sports Park.	<p><u>Investigation</u> As per contractor, part of the complaint area was within the site boundary of the project.</p> <ul style="list-style-type: none"> <li>- Manual water spraying was provided.</li> <li>- The exposed surface and stockpile areas were covered by the impermeable tarpaulin sheet.</li> </ul> <p><u>Recommendations</u> There was no direct evidence showing that the dust nuisance was caused by the contractor at the complaint area, however the contractor is recommended to implement the following measures to minimize the impact for air quality:</p> <ol style="list-style-type: none"> <li>1. Ensure stockpiling sites should be lined with impermeable sheeting and banded.</li> <li>2. Stockpiles should be fully covered by impermeable sheeting at all time except during working process.</li> <li>3. Ensure the work fulfill the relevant statutory requirements on control of air pollution.</li> <li>4. Take necessary measures to minimize the environmental nuisance arising from the</li> </ol>	<ul style="list-style-type: none"> <li>- Closed-out on 4 Oct 2021</li> <li>- No further complaint was received.</li> </ul>

<b>Complaint Log for ED/2018/01</b>				
Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Recommendations / Actions	Close-Out Date / Status
			<p>construction site.</p> <p><u>Action taken</u> The exposed surface and stockpile area was covered by the impermeable tarpaulin sheet.</p>	
C0003	A water discharge complaint was referred from the Contractor on 10 December 2021 through E-Mail regarding a complaint received by EPD (ref.: K19/RE/00029046-21) on 9 December 2021.	Complaint of muddy water being discharged into the sea of To Kwa Wan Typhoon Shelter via a DSD outfall near the roundabout of Shing Fung Road.	<p><u>Investigation</u> Joint site inspection was conducted by ER, IEC, ET and the contractor on 14 December 2021, no adverse observation against the water impact was recorded.</p> <ul style="list-style-type: none"> <li>- There was no muddy water discharge to DSD outfall near the roundabout of Shing Fung Road.</li> <li>- The sand bag with layers and filter were provided at the manholes.</li> </ul> <p><u>Recommendations</u> There was no direct evidence showing that the water nuisance was caused by the contractor at the complaint area. Some of muddy water generated from wheel washing might be flow to the outfall inside the site boundary, however the contractor had taken the mitigation measure by using sand bag and filter to ease the nuisance. The contractor is recommended to implement the following measures to minimize the impact for waste water:</p> <ul style="list-style-type: none"> <li>- Enhance the sand bag with several layers instead of one layer only and replace the filter frequently.</li> <li>- Modify the wheel washing area such that the muddy water will be directly flow to</li> </ul>	<ul style="list-style-type: none"> <li>- Closed-out on 5 Jan 2022</li> <li>- No further complaint was received.</li> </ul>

