

Our ref: 25-1-2024

25-1-2024

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 Environmental Monitoring and Audit Report (July 2023 – September 2023)

We refer to the Environment Permit (EP) No. EP-337/2009 and EP-445/2013/B 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, 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 9382 4204 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. Monthly EM&A report for July 2023 – September 2023

Ref.: CEDKTDS4EM00_0_0333L.24

23 January 2024

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

By Post and Email

Attention: Ms. Fanny Lau

Dear Ms. Lau,

**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 2023 to September 2023

Reference is made to the Environmental Team's submission of the Quarterly EM&A Summary Report for July 2023 to September 2023 (Version 1.2) certified by the ET Leader and provided to us via email on 19 January 2024.

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 2023 – September 2023)
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 1.2)

Certified By: _____



(Environmental Team Leader)

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EXECUTIVE SUMMARY

1. This is the 15th Quarterly Environmental Monitoring & Audit (EM&A) Summary Report which summaries the findings of the EM&A Programme during the reporting period from 1st July 2023 to 30th September 2023 (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 Limit Level exceedance was recorded.

Complaint log

5. One complaint (one for water) was referred to the Contractor on 29 June 2023 through E-Mail regarding a complaint received by EPD (ref.: K19/RE/00014944-23) on 19 June 2023, then referred to ET and IEC on 4 July 2023. Summary of complaints in the reporting period is tabulated in Table 6.2.

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 undertaken during the reporting period included:

Table I Major construction activities in the reporting period

July 2023	August 2023	September 2023
- Laying of stormwater drainage pipes/ sewer pipes/watermains and construction of associated manholes at Road L12d and at-grade road.	- Laying of stormwater drainage pipes/ sewer pipes/watermains and construction of associated manholes at Road L12d and at-grade road.	- Laying of stormwater drainage pipes/ sewer pipes/watermains and construction of associated manholes at Road L12d and at-grade road.
- Construction of central median & profile barrier, installation of timber slats & noise absorptive panel and E&M works for Underpass D3	- Construction of central median & profile barrier, installation of timber slats & noise absorptive panel and E&M works for Underpass D3	- Construction of central median & profile barrier, installation of timber slats & noise absorptive panel and E&M works for Underpass D3
- Construction of remaining works for Noise Barrier	- Construction of remaining works for Noise Barrier	- Construction of remaining works for Noise Barrier
- Construction of RC structure for Lift LT-1 and LT-2	- Construction of RC structure for Lift LT-1 and LT-2	- Construction of RC structure for Lift LT-1 and LT-2
- Construction of profile barrier for NDR	- Construction of profile barrier for NDR	- Construction of profile barrier for NDR
- Modification works at Shing Kai Road	- Modification works at Shing Kai Road	- Modification works at Shing Kai Road
- Installation of Lift LT-4	- Installation of Lift LT-4	- Installation of Lift LT-4
- Laying of stormwater drainage pipes/ sewer pipes/ watermains	- Laying of stormwater drainage pipes/ sewer pipes/ watermains	- Laying of stormwater drainage pipes/ sewer pipes/ watermains
- Installation of water pipe for ELD	- Installation of water pipe for ELD	- Installation of water pipe for ELD
- Construction of	- Construction of	- Construction of

July 2023	August 2023	September 2023
<p>Seawater Intake Box Culvert</p> <ul style="list-style-type: none"> - Excavation for construction of Pumping Stations - Construction of pre-bored H piles for Observation Deck - Construction of road works 	<p>Seawater Intake Box Culvert</p> <ul style="list-style-type: none"> - Excavation for construction of Pumping Stations - Construction of Observation Deck - Construction of road works - Construction of Harbour Steps - Concreting and RC structure of Toilet cum Changing Room 	<p>Seawater Intake Box Culvert</p> <ul style="list-style-type: none"> - Excavation for construction of Pumping Stations - Construction of Observation Deck - Construction of road works - Construction of Harbour Steps - Concreting and RC structure of Toilet cum Changing Room

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/B.
- 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. Jason Wong	Senior Engineer	3579 2453	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)	Ms. Fanny Lau	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. Tony Tang	Environmental Officer	9433 2628	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 2023	August 2023	September 2023
- Laying of stormwater drainage pipes/ sewer pipes/watermains and construction of associated manholes at Road L12d and at-grade road.	- Laying of stormwater drainage pipes/ sewer pipes/watermains and construction of associated manholes at Road L12d and at-grade road.	- Laying of stormwater drainage pipes/ sewer pipes/watermains and construction of associated manholes at Road L12d and at-grade road.
- Construction of central median & profile barrier, installation of timber slats & noise absorptive panel and E&M works for Underpass D3	- Construction of central median & profile barrier, installation of timber slats & noise absorptive panel and E&M works for Underpass D3	- Construction of central median & profile barrier, installation of timber slats & noise absorptive panel and E&M works for Underpass D3
- Construction of remaining works for Noise Barrier	- Construction of remaining works for Noise Barrier	- Construction of remaining works for Noise Barrier
- Construction of RC structure for Lift LT-1 and LT-2	- Construction of RC structure for Lift LT-1 and LT-2	- Construction of RC structure for Lift LT-1 and LT-2
- Construction of profile barrier for NDR	- Construction of profile barrier for NDR	- Construction of profile barrier for NDR
- Modification works at Shing Kai Road	- Modification works at Shing Kai Road	- Modification works at Shing Kai Road
- Installation of Lift LT-4	- Installation of Lift LT-4	- Installation of Lift LT-4
- Laying of stormwater drainage pipes/ sewer pipes/ watermains	- Laying of stormwater drainage pipes/ sewer pipes/ watermains	- Laying of stormwater drainage pipes/ sewer pipes/ watermains
- Installation of water pipe for ELD	- Installation of water pipe for ELD	- Installation of water pipe for ELD
- Construction of	- Construction of	- Construction of

July 2023	August 2023	September 2023
Seawater Intake Box Culvert - Excavation for construction of Pumping Stations - Construction of pre-bored H piles for Observation Deck - Construction of road works	Seawater Intake Box Culvert - Excavation for construction of Pumping Stations - Construction of Observation Deck - Construction of road works - Construction of Harbour Steps - Concreting and RC structure of Toilet cum Changing Room	Seawater Intake Box Culvert - Excavation for construction of Pumping Stations - Construction of Observation Deck - Construction of road works - Construction of Harbour Steps - Concreting and RC structure of Toilet cum Changing Room

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	Ground
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 up to 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 up to 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	3
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 m³/min. and 1.7 m³/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 2023		August 2023		September 2023		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	61	40 – 97	38	24 – 52	53	29 – 80	182	260
AM4(A)*	/	/ – /	/	/ – /	/	/ – /	187	260
AM7	67	39 – 96	39	25 – 68	54	37 – 94	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 2023		August 2023		September 2023		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	59	35 – 98	44	22 – 66	50	28 – 82	297	500
AM4(A)*	72	43 – 118	56	34 – 79	57	31 – 93	326	500
AM7	68	31 – 122	49	26 – 77	46	27 – 88	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	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*	Ground Floor (Façade)*	L _{Aeq} , L _{A10} and L _{A90}	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	3
Sound Level Calibrator	RION NC 74	3
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 ^
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 2023		August 2023		September 2023		Action Level	Limit Level ^
	Measured LAeq, 30-min, Average, dB(A)	Measured LAeq, 30-min, Range, dB(A)	Measured LAeq, 30-min, Average, dB(A)	Measured LAeq, 30-min, Range, dB(A)	Measured LAeq, 30-min, Average, dB(A)	Measured LAeq, 30-min, Range, dB(A)		
M11	72.9	72.0 – 73.7	71.2	69.7 – 72.6	71.5	69.2 – 72.9	When one documented complaint is received.	75 dB(A)
M12	66.9	63.6 – 70.6	63.9	62.9 – 64.8	66.2	64.6 – 67.8		

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 No Action or Limit Level of noise monitoring was recorded in 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 2023), $\mu\text{g}/\text{m}^3$	Measured 24-hr average TSP in Reporting Month (August 2023), $\mu\text{g}/\text{m}^3$	Measured 24-hr average TSP in Reporting Month (September 2023), $\mu\text{g}/\text{m}^3$
		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	40 – 97	24 – 52	29 – 80
AM4(A) - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop*	A43^	123	195	/ – /*	/ – /*	/ – /*
AM7 – Hong Kong Children's Hospital	PA60	NA	NA	39 – 96	25 – 68	37 – 94

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 2023), $\mu\text{g}/\text{m}^3$	Measured 1-hr average TSP in Reporting Month (August 2023), $\mu\text{g}/\text{m}^3$	Measured 1-hr average TSP in Reporting Month (September 2023), $\mu\text{g}/\text{m}^3$
		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 [^]	247 [^]	35 – 98	22 – 66	28 – 82
AM4(A) - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop*	A43	283 [^]	409 [^]	43 – 118*	34 – 79*	31 – 93*
AM7 – Hong Kong Children's Hospital	PA60	NA	NA	31 – 122	26 – 77	27 – 88

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. 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 $L_{Aeq, 30min}$, dB(A)	Measured Noise Level in Reporting Month (July 2023) $L_{Aeq, 30min}$, dB(A)	Measured Noise Level in Reporting Month (August 2023) $L_{Aeq, 30min}$, dB(A)	Measured Noise Level in Reporting Month (September 2023) $L_{Aeq, 30min}$, dB(A)
M11 - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop*	N18	50 – 76 [^]	72.0 – 73.7*	69.7 – 72.6*	69.2 – 72.9*
M12 - Hong Kong Children's Hospital	PN83, PN84, PN84A	NA	63.6 – 70.6	62.9 – 64.8	64.6 – 67.8

Note

[^] 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 reporting period 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 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 since 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 since 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 since 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
06 July 2023	NA	NA	NA
12 July 2023	NA	NA	NA
20 July 2023	NA	NA	NA
27 July 2023	NA	NA	NA
03 August 2023	NA	NA	NA
09 August 2023	NA	NA	NA
17 August 2023	NA	NA	NA
24 August 2023	NA	NA	NA
31 August 2023	NA	NA	NA
07 September 2023	NA	NA	NA
13 September 2023	NA	NA	NA
21 September 2023	NA	NA	NA
28 September 2023	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 G.
- 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
06 July 2023	Observation: The channel should be cleaned regularly.	Action Taken: The channel has been cleaned regularly.	Closed-out on 12 July 2023
12 July 2023	Observation: Secondary container should be provided for the chemicals to prevent soil contamination.	Action Taken: Secondary container has been provided for the chemicals and cover entirely by impervious sheeting placed in an area sheltered on the top to prevent soil contamination.	Closed-out on 20 June 2023
20 July 2023	Observation: Sandbags should be provided at box culvert to prevent flooding and overflow.	Action Taken: Sandbags have been provided at box culvert to prevent flooding and overflow.	Closed-out on 27 July 2023
27 July 2023	NA	NA	NA
03 August 2023	NA	NA	NA
09 August 2023	Observation: Reminder: The crawler crane @pumping station area was found missing the NRMM label, please display properly.	Action Taken: The NRMM label is properly demonstrated.	Closed-out on 17 August 2023

Inspection Date	Key Observations / Recommendations	Actions	Close-out Date / Status
17 August 2023	NA	NA	NA
24 August 2023	Observation: The channel should be cleaning regularly.	Action Taken: The channel has been cleaning regularly.	Closed-out on 31 August 2023
	Observation: Secondary container should be provided for the chemicals to prevent soil contamination.	Action Taken: Secondary container has been provided for the chemicals to prevent soil contamination.	Closed-out on 31 August 2023
	Observation: Stagnant water should be removed regularly.	Action Taken: Stagnant water was removed.	Closed-out on 31 August 2023
31 August 2023	NA	NA	NA
07 September 2023	Observation: The wood processing should use bags to contain wood chips at toilet cum changing room	Action Taken: Wood chips has been removed.	Closed-out on 13 September 2023
13 September 2023	Observation: NRMM Label should be display color correctly.	Action Taken: The NRMM label has been display color correctly.	Closed-out on 21 September 2023
21 September 2023	Observation: The vehicles should be restricted to maximum speed of 8 km per hour.	Action Taken: The vehicles have been restricted to maximum speed of 8 km per hour.	Closed-out on 28 September 2023
28 September 2023	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 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 2023	0	0	N/A
	August 2023	0	0	N/A
	September 2023	0	0	N/A
24-hr TSP	July 2023	0	0	N/A
	August 2023	0	0	N/A
	September 2023	0	0	N/A
Construction noise	July 2023	0	0	N/A
	August 2023	0	0	N/A
	September 2023	0	0	N/A

Environmental Complaint and Non-compliance

- 6.5 One complaint (one for water) was referred to the Contractor on 29 June 2023 through E-Mail regarding a complaint received by EPD (ref.: K19/RE/00014944-23) on 19 June 2023, then referred to ET and IEC on 4 July 2023. 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
<p>A water complaint was received by EPD on 19 June 2023.</p> <p>Contractor (POC) received the Notification of Environmental Complaints from EPD (ref.: K19/RE/000149 44-23) by E-Mail on 29 June 2023 and forwarded the E-mail to ER, ET and IEC on 4 July 2023.</p>	<p>18 Jun 2023</p>	<p>- Complaint of muddy water being discharged into Kai Tak Approach Channel on 18 Jun 2023.</p> <p>- Complaint of construction work being conducted on the Sunday of 18 Jun 2023.</p>	<p><u>Investigation</u></p> <p>Joint site inspection was conducted by Contractor (POC), ER and ET on 6 Jul 2023.</p> <ol style="list-style-type: none"> As per Mr. Tony Tang from POC, the concerned area was the section of Shing Fung Road at the nearby channel. Heavy raining was recorded on 18 Jun 2023. The recorded rainfall was 35.8mm (sourced from manned weather station of Hong Kong Observatory at https://www.hko.gov.hk/en/cis/dailyExtract.htm?y=2023&m=6). The implication of heavy rainfall storm runoff might wash across the exposed soil surfaces which was direct muddy water discharge. This is the possible source of water nuisance. As per Mr. Tony Tang from POC, no construction work was conducted on 18 Jun 2023. Based on the attendance record, 6 employees including 4 watchman, labourer and driver, were on site on 18 Jun 2023 and they were not involved in the construction work. In the joint site inspection, no construction work was conducted on the nearby channel. No adverse observation against the muddy water impact were found during the site inspection on 14 and 20 June 2023, and 6 July 2023. The sedimentation tank and wastewater treatment plant are operating efficiently during the site inspection. <p><u>Action taken</u></p> <ol style="list-style-type: none"> The ditch is maintained regularly and excavated deeper by workers. Pumps are placed at the ditch to prevent flooding and overflow. 	<p>Closed-out on 2 Aug 2023.</p> <p>-</p>

Date of complaint received	Date of complaint	Description of complaint	Investigation / Recommendations / Action take	Close-out date / Status
			<p>3. Enhanced training for site workers to prevent flushing during heavy rain by placing pumps in the ditch to prevent flooding and overflow during periods of heavy rain during Tool- Box-Talk training.</p> <p><u>Recommendations</u> There was no direct evidence showing that the muddy water nuisance was caused by the contractor at the complaint area, however Contractor (POC) is recommended to implement the following measures to minimize the impact for water quality:</p> <ol style="list-style-type: none"> 1. Regular cleaning and maintenance drainage systems at the nearby Kai Tak Approach Channel. 	

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	NA	NA	NA	NA

Date of receiving notification of summons or prosecutions period.	Date of event	Description of event	Action take	Close-out date / Status

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
06 July 2023	NA
12 July 2023	Underground water at box culvert (near ELD) should ensure treated by

Inspection Date	Recommendations / Reminder
20 July 2023	sed-tank before discharging. Haul road at pumping station area should be sprayed with water regularly to reduce dust emission.
27 July 2023	Haul road at pumping station area should be sprayed with water regularly to reduce dust emission. Secondary container should be provided for the plastic chemicals to prevent soil contamination. Water safety barriers (near UU channel) should be removed.
03 August 2023	NA
09 August 2023	The crawler crane pumping station area was found missing the NRMM label, please display properly.
17 August 2023	NA
24 August 2023	The channel should be cleaning regularly. Secondary container should be provided for the chemicals to prevent soil contamination. Stagnant water should be removed regularly.
31 August 2023	NA
07 September 2023	The wood processing should use bags to contain wood chips at toilet cum changing room.
13 September 2023	NRMM Label should be display color correctly.
21 September 2023	The vehicles should be restricted to maximum speed of 8 km per hour.
28 September 2023	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

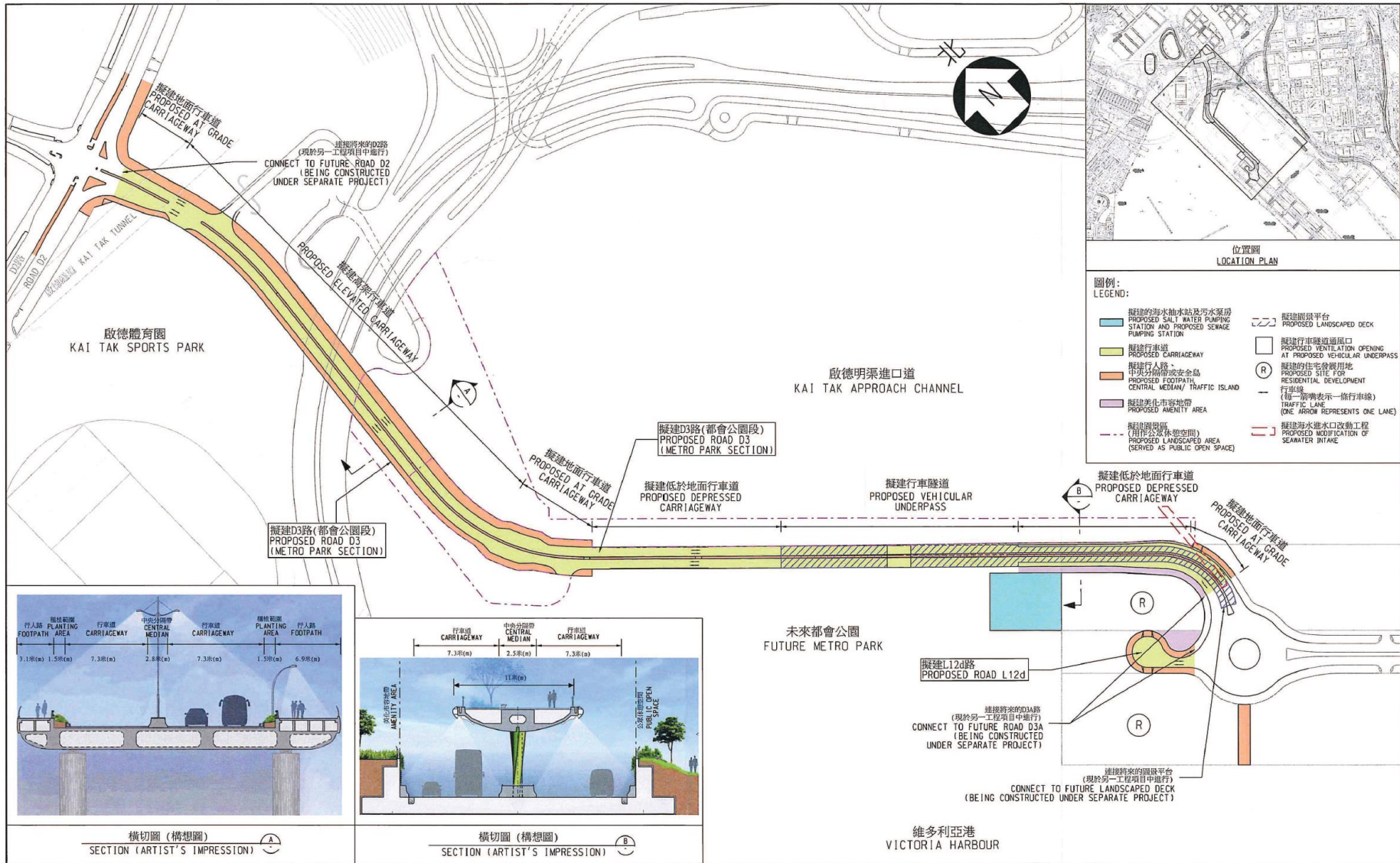
Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 September 2022. No 24-hour TSP monitoring was conducted at AM4(A) because of the assess limitation since September 2022.

7.8 Construction noise monitoring was conducted as scheduled in the reporting period. 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 April and May 2023. One complaint (one for dust) were received in June 2023 and was closed-out on 19 June 2023. No further complaint was received.

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

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A3 420MM X 297MM

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

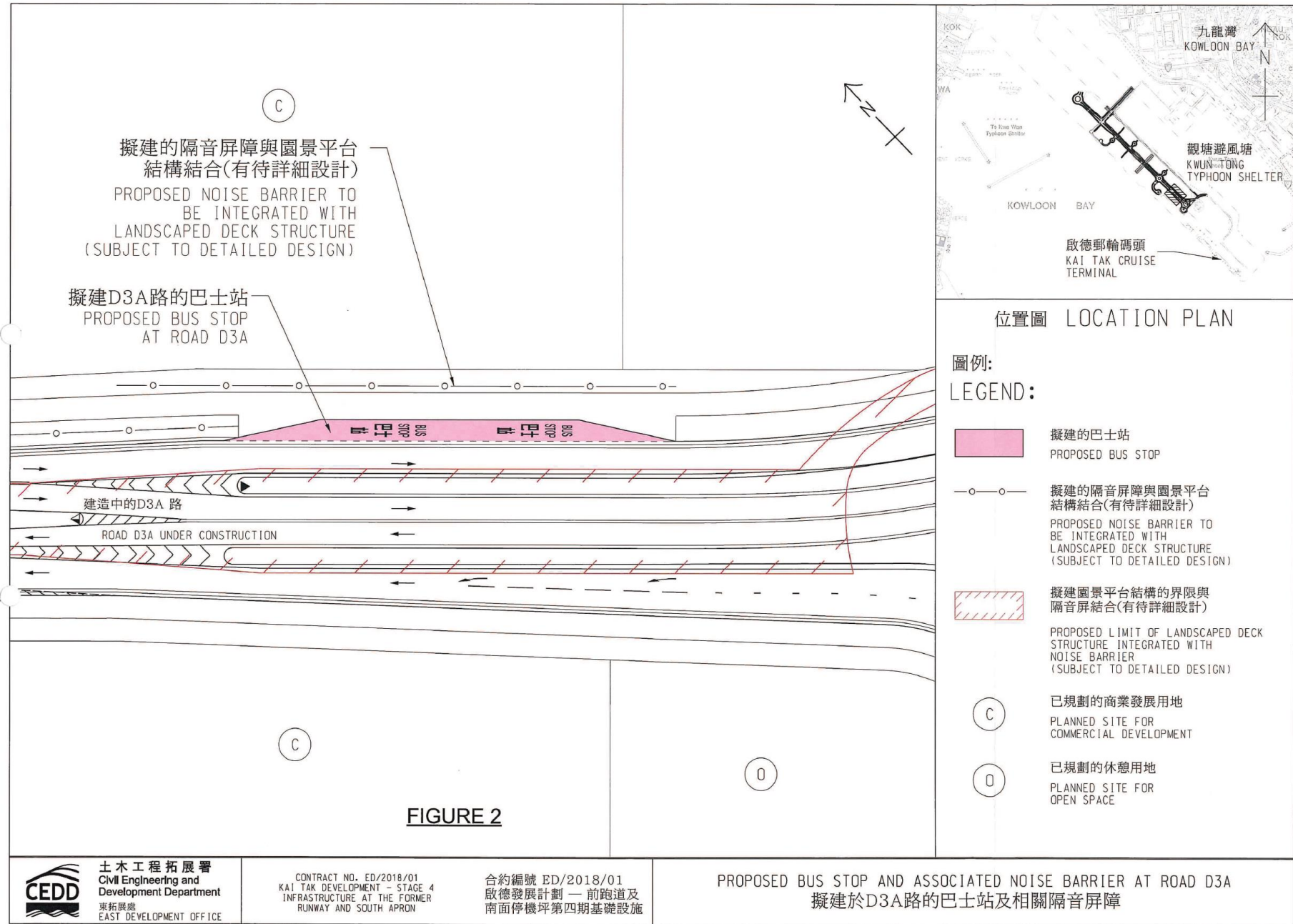


Figure 2 – Proposed Bus Stop And Associated Noise Barrier At Road D3A



Path : Z:\KL2014011TO Team\Drawing (Internal Use)\KTD-400-KTD-499\KTD-414 (PL Location).dgn

Print Date : 7/3/2019

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

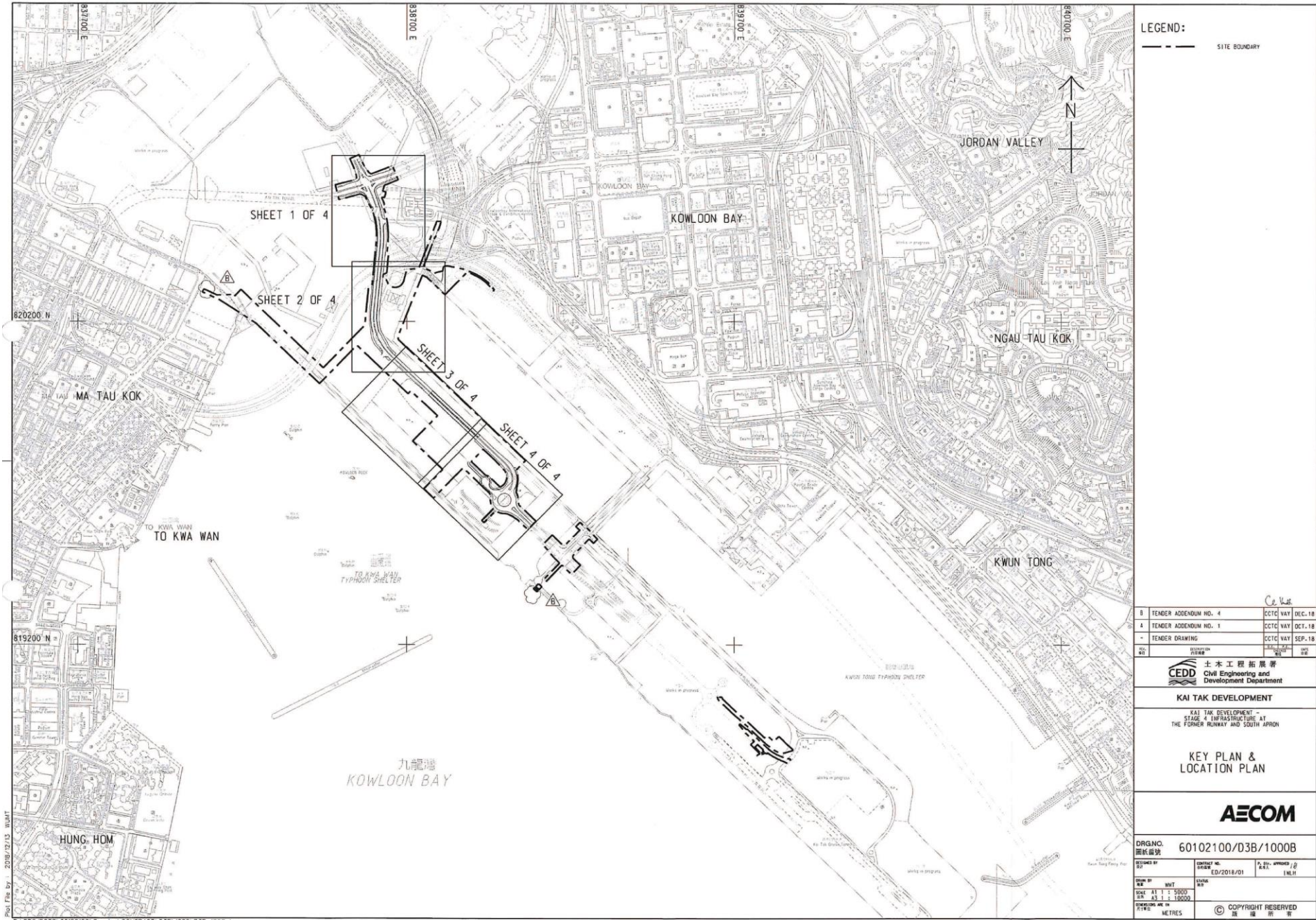


Figure 4 – Site Layout Plan

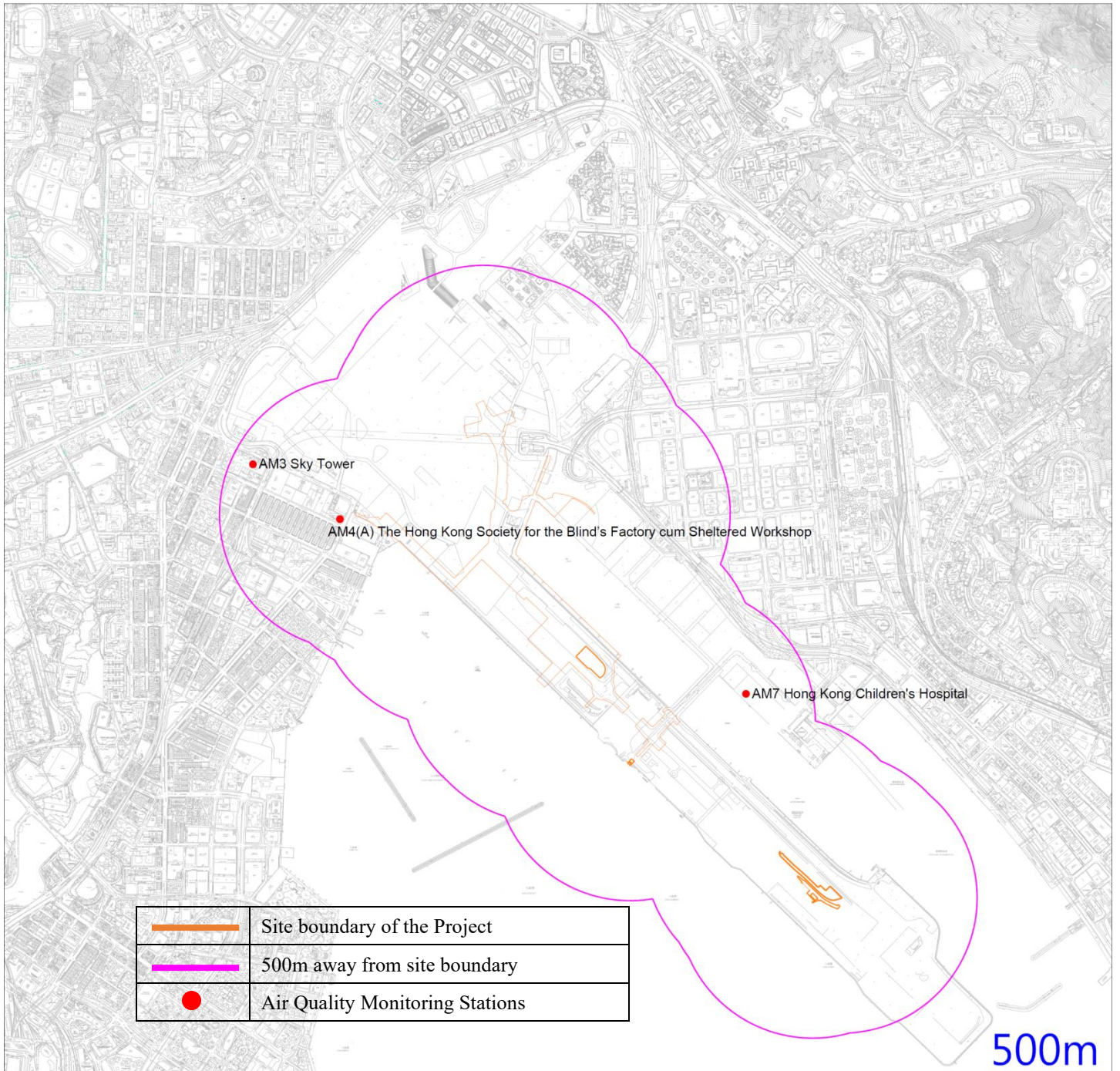


Figure 5 – Air Quality Monitoring Stations

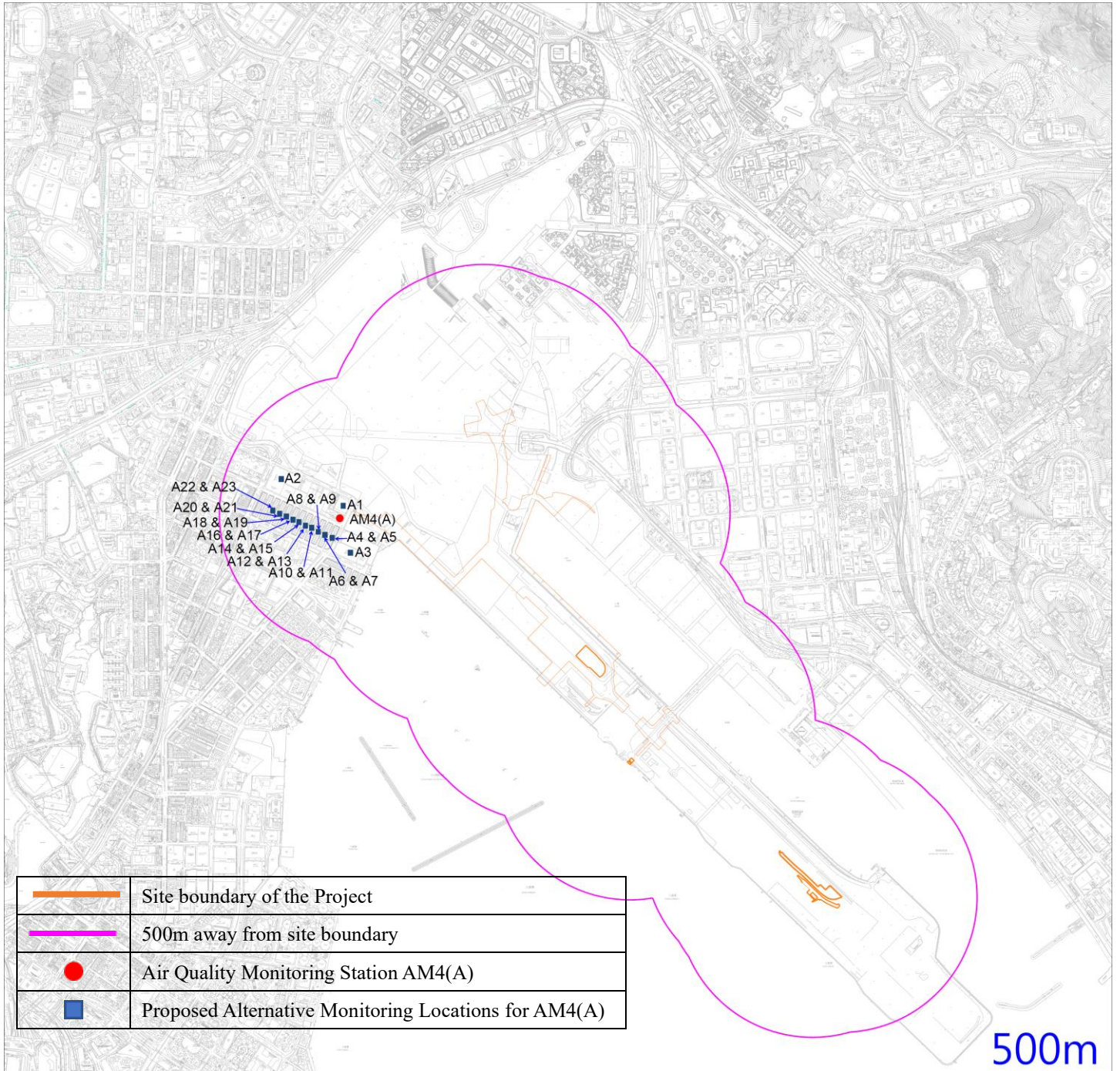


Figure 6 – Proposed Alternative Monitoring Locations for AM4(A)

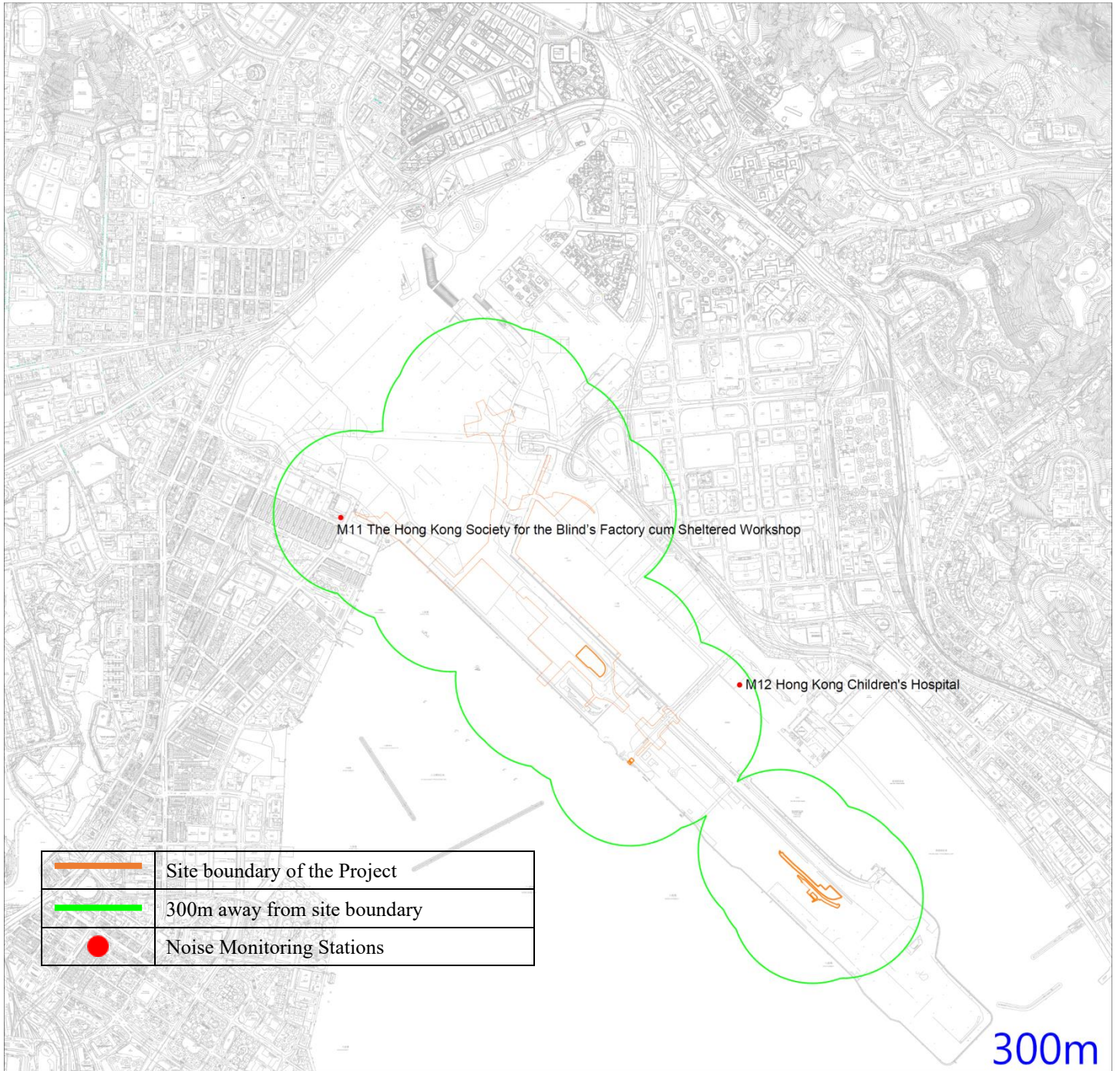


Figure 7 – Noise Monitoring Stations

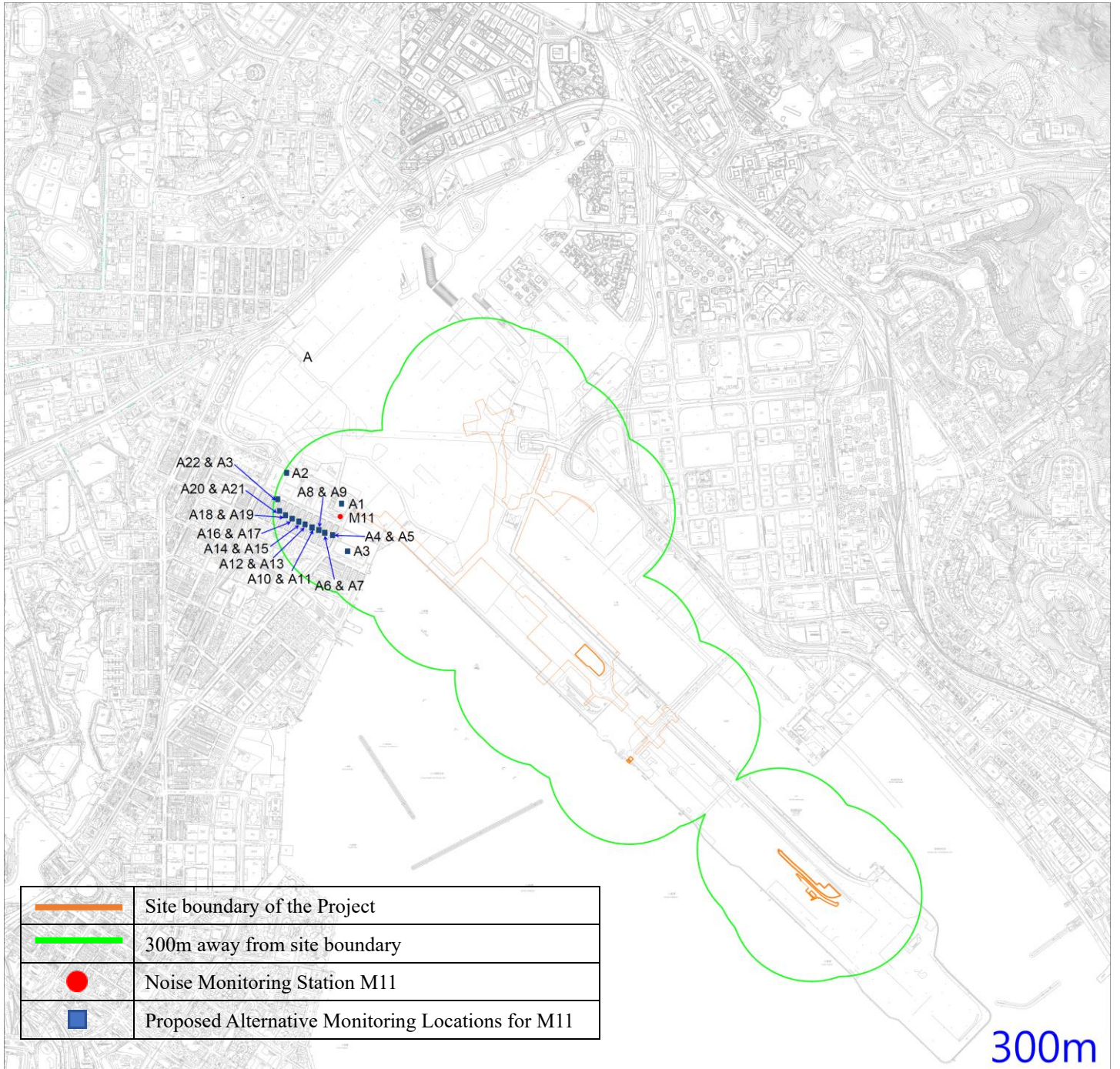
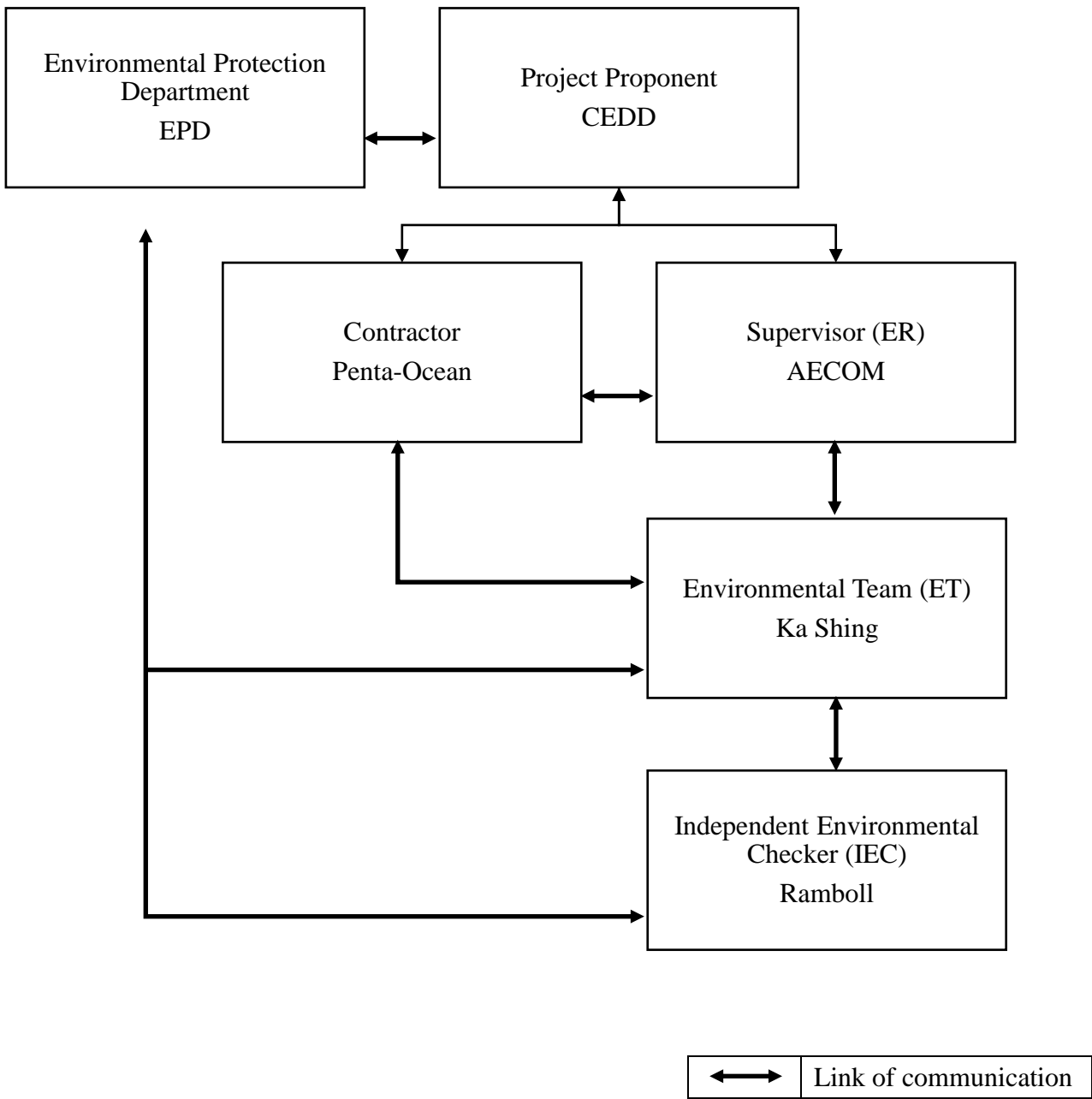


Figure 8 – Proposed Alternative Monitoring Locations for M11

**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
Emergency Hotline : 9317-0821			
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
Emergency Contact of Authorities / Utility Companies			
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&MD Dept 機電工程</i>		2882-8011 / 2333-3762	
<i>Highways Dept (24hrs) 路政處熱線</i>		2923-7766	
Utility Undertakers Companies			
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							
															Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2			
696	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	12 days	0 days	1357FF,1546FF																				
697	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	0 days	1549FF																				
698	Section 8	0 days	0 days	0 days	0%	Wed 24/11/21	Wed 24/11/21	NA	NA	Thu 2/12/21	Thu 2/12/21	8 days	0 days	1144FF																				
699	Section 9	0 days	0 days	0 days	0%	Sat 3/7/21	Sat 3/7/21	NA	NA	Mon 5/7/21	Mon 5/7/21	2 days	0 days	1222																				
700	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 days	1559FF																				
701	KD1	0 days	0 days	0 days	0%	Tue 11/8/20	Tue 11/8/20	NA	NA	Fri 7/8/20	Fri 7/8/20	-4 days	0 days	758																				
702	KD2	0 days	0 days	0 days	0%	Sat 17/4/21	Sat 17/4/21	NA	NA	Sun 18/4/21	Sun 18/4/21	1 day	0 days	791,821,771,774																				
703	KD3	0 days	0 days	0 days	0%	Mon 26/4/21	Mon 26/4/21	NA	NA	Tue 1/6/21	Tue 1/6/21	36 days	0 days	822,821																				
704	KD4	0 days	0 days	0 days	0%	Fri 28/1/22	Fri 28/1/22	NA	NA	Mon 31/1/22	Mon 31/1/22	3 days	0 days	1255FF																				
705	KD5	0 days	0 days	0 days	0%	Fri 25/6/21	Fri 25/6/21	NA	NA	Fri 17/9/21	Fri 17/9/21	84 days	0 days	1252FF																				
706	KD6	0 days	0 days	0 days	0%	Tue 21/12/21	Tue 21/12/21	NA	NA	Wed 29/12/21	Wed 29/12/21	8 days	0 days	883																				
707	KD7	0 days	0 days	0 days	0%	Thu 19/8/21	Thu 19/8/21	NA	NA	Fri 3/6/22	Fri 3/6/22	288 days	0 days	1254FF																				
708	Construction Works	1499 days	75.67 days	1423.33 days?	0%	Thu 16/5/19	Wed 29/5/24	Thu 16/5/19	NA	Thu 16/5/19	Wed 29/5/24	0 days?																						
709	Procurement of Materials and Equipments	615 days	12.7 days	602.3 days	0%	Thu 8/8/19	Wed 1/9/21	Thu 8/8/19	NA	Thu 8/8/19	Tue 22/2/22	140 days																						
710	Office Accommodation	21 days	21 days	0 days	100%	Thu 8/8/19	Fri 20/12/19	Thu 8/8/19	Fri 20/12/19	Thu 8/8/19	Fri 20/12/19	0 days	1 day																					
711	Lift Submission Preparation	15 days	0 days	15 days	0%	Sat 12/9/20	Sat 26/9/20	NA	NA	Wed 23/9/20	Wed 7/10/20	11 days	0.5 days	173																				
712	Lift Comment & Approval	21 days	0 days	21 days	0%	Sun 27/9/20	Sat 17/10/20	NA	NA	Thu 8/10/20	Wed 28/10/20	11 days	0.5 days	711																				
713	Lifts ((5 nos)	180 days	0 days	180 days	0%	Sun 18/10/20	Thu 15/4/21	NA	NA	Thu 29/10/20	Mon 26/4/21	11 days	30 days	712																				
714	Pumps for Pump Room next to Underpass	150 days	0 days	150 days	0%	Sat 23/5/20	Thu 19/11/20	NA	NA	Wed 8/7/20	Tue 5/1/21	37 days	30 days																					
715	Elevated landscape deck soffit panels	120 days	0 days	120 days	0%	Mon 14/9/20	Sat 6/2/21	NA	NA	Thu 4/2/21	Mon 5/7/21	117 days	30 days																					
716	Underpass & Depressed Rd - facades	120 days	0 days	120 days	0%	Tue 1/12/20	Thu 29/4/21	NA	NA	Wed 12/5/21	Mon 4/10/21	129 days	30 days																					
717	E & M equipment & fittings (for Open space & Promenade)	120 days	0 days	120 days	0%	Tue 6/4/21	Fri 27/8/21	NA	NA	Mon 27/9/21	Tue 22/2/22	144 days	30 days																					
718	Bridge Parapet Fabrication	120 days	0 days	120 days	0%	Mon 16/11/20	Mon 15/3/21	NA	NA	Wed 26/5/21	Wed 22/9/21	191 days	30 days																					
719	Pumps for Salt and Sewage Pumping Stations	150 days	0 days	150 days	0%	Mon 5/4/21	Wed 1/9/21	NA	NA	Sun 19/9/21	Tue 15/2/22	167 days	30 days																					
720	Excavation Permit	300 days	0 days	300 days	0%	Mon 31/8/20	Thu 2/9/21	NA	NA	Mon 23/11/20	Tue 1/3/22	69 days																						
721	TTA Application for Junction Modification Rd L6 & D2	182 days	0 days	182 days	0%	Tue 1/9/20	Mon 1/3/21	NA	NA	Mon 23/11/20	Sun 23/5/21	83 days	2 days																					
722	Interfaced DCS 3 x DN150mm chilled water pipes under contract no. 2852EM17A and 4 nos. of signaling cable along North Approach Ramp and Gate 3B (Agreed)	368 days	0 days	368 days	0%	Mon 31/8/20	Thu 2/9/21	NA	NA	Sat 27/2/21	Tue 1/3/22	180 days	3 day																					
723	Section 1	842 days	107.17 days	734.83 days	0%	Thu 16/5/19	Mon 14/3/22	Thu 16/5/19	NA	Thu 16/5/19	Wed 29/5/24	657 days																						
724	Agree Interface Coordination Plan with CKR & KTSP	14 days	14 days	0 days	100%	Tue 27/8/19	Wed 11/9/19	Tue 27/8/19	Wed 11/9/19	Tue 27/8/19	Wed 11/9/19	0 days	0 days	1225,1226																				
725	Ground Investigation	341 days	193.02 days	147.98 days	0%	Thu 12/9/19	Thu 5/11/20	Thu 12/9/19	NA	Thu 12/9/19	Sat 13/8/22	526 days																						
726	GI Work	318 days	180 days	138 days	57%	Thu 12/9/19	Thu 5/11/20	Thu 12/9/19	NA	Thu 12/9/19	Sat 13/8/22	526 days	0.5 days	724																				
727	Part 1 - Junction Modification Rd L6 & D2	414 days	0 days	414 days	0%	Mon 5/10/20	Fri 25/2/22	NA	NA	Mon 23/11/20	Tue 1/3/22	3 days																						
728	XP Application for Junction Modification Rd L6 & D2	182 days	0 days	182 days	0%	Mon 5/10/20	Sun 4/4/21	NA	NA	Mon 23/11/20	Sun 23/5/21	49 days	1 day																					
729	Stage 1: Trial Pit to locate the existing underground cables and utilities	14 days	0 days	14 days	0%	Thu 20/5/21	Fri 4/6/21	NA	NA	Mon 24/5/21	Tue 8/6/21	3 days	1 day	141,375,721,728																				
730	Stage 2: Trial Pit to locate the existing underground cables and utilities	14 days	0 days	14 days	0%	Sat 5/6/21	Tue 22/6/21	NA	NA	Wed 9/6/21	Fri 25/6/21	3 days	1 day	729																				
731	Stage 3: East Bound + Drop Kerb Modification + Road Marking	76 days	0 days	76 days	0%	Wed 23/6/21	Mon 20/9/21	NA	NA	Sat 26/6/21	Fri 24/9/21	3 days	1 day	730																				
732	Stage 4: TTA for Central Divider	76 days	0 days	76 days	0%	Tue 21/9/21	Tue 21/12/21	NA	NA	Sat 25/9/21	Fri 24/12/21	3 days	1 day	731,113																				
733	Stage 5: Construct 2 Dividers	51 days	0 days	51 days	0%	Wed 22/12/21	Fri 25/2/22	NA	NA	Tue 28/12/21	Tue 1/3/22	3 days	1 day	732																				
734	Bridge D3 (Approach Ramp and Bridge) CH1087-1444.7	812 days	91.74 days	720.26 days	0%	Thu 16/5/19	Mon 7/2/22	Thu 16/5/19	NA	Mon 11/11/19	Wed 29/5/24	687 days																						
735	North Approach Ramp	636 days	66.85 days	569.15 days	0%	Wed 25/12/19	Fri 18/2/22	Wed 25/12/19	NA	Wed 25/12/19	Tue 1/3/22	9 days																						
736	Procurement of Movement Joints for Bridge Works	180 days	0 days	180 days	0%	Tue 11/8/20	Sat 6/2/21	NA	NA	Fri 9/10/20	Tue 6/4/21	59 days	30 days	194,220																				
737	Sheetpile Driven along North, South & East Side ELS Cofferdam (assume 169 long)	4 days	4 days	0 days	100%	Tue 14/1/20	Fri 17/1/20	Tue 14/1/20	Fri 17/1/20	Tue 14/1/20	Fri 17/1/20	0 days	0.5 day																					
738	KTSP Completed Driven H-pile Installation	41 days	41 days	0 days	100%	Wed 25/12/19	Mon 3/2/20	Wed 25/12/19	Mon 3/2/20	Wed 25/12/19	Mon 3/2/20	0 days																						
739	Hoarding Removal along KTSP Site	5 days	5 days	0 days	100%	Tue 4/2/20	Sat 8/2/20	Tue 4/2/20	Sat 8/2/20	Tue 4/2/20	Sat 8/2/20	0 days	0.5 day	738																				

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	

Contract No. ED/2018/01 KTD Project

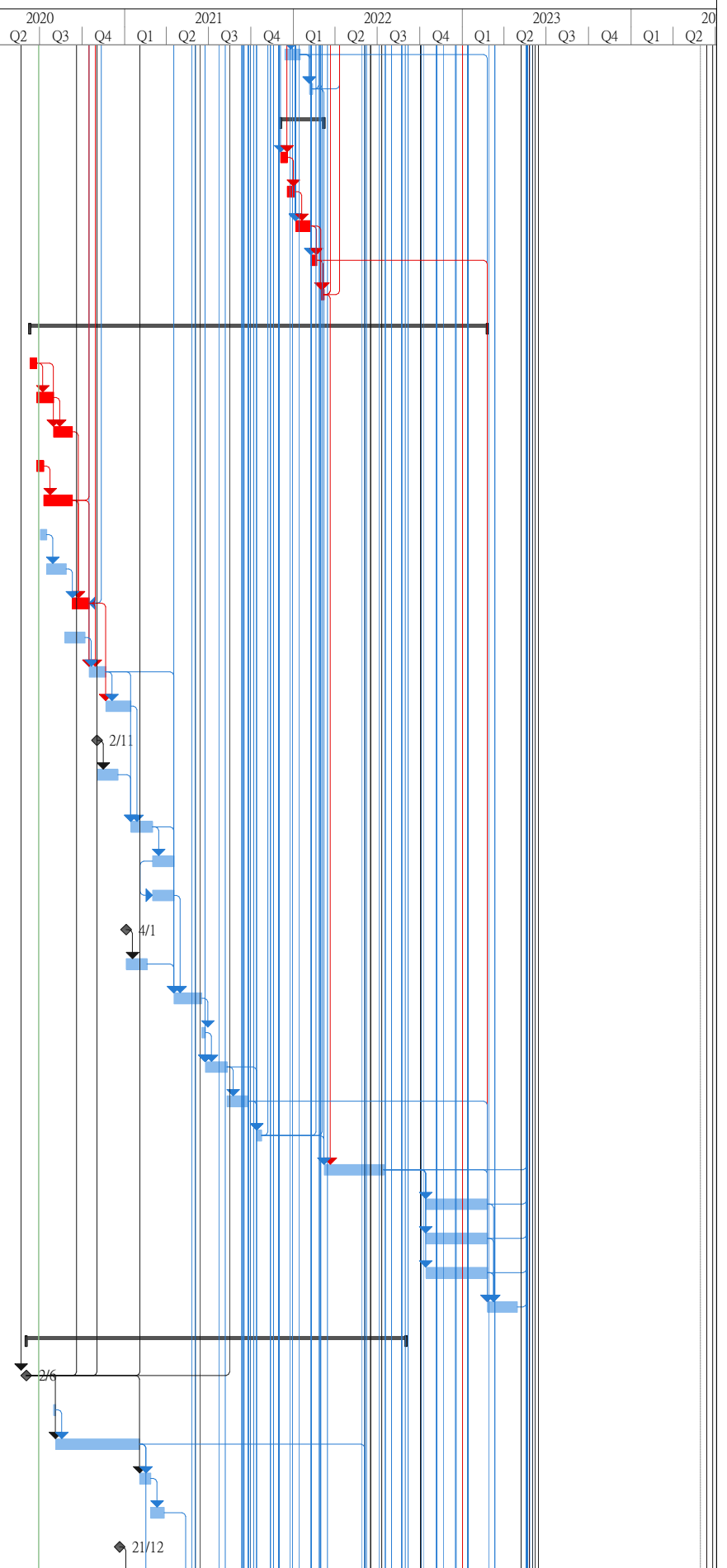
ID	Task Name	Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors	2020				2021				2022				2023			
															Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
1362	FSD Inspection	0 days	0 days	0 days	0%	Sat 29/4/23	Sat 29/4/23	NA	NA	Thu 11/5/23	Thu 11/5/23	8 days	0.5 days	1361FS+15 days																
1363	Issuance of FS Certificate	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	8 days	0.5 days	1362FS+15 days																
1364	Salt Water and Sewage Pumping Station: Landscaping hardworks and softworks	110 days	0 days	110 days	0%	Wed 30/11/22	Sat 15/4/23	NA	NA	Wed 11/1/23	Mon 29/5/23	35 days	2 days	562,1351,548																
1365	Salt Water and Sewage Pumping Station: Planting Works	110 days	0 days	110 days	0%	Wed 30/11/22	Sat 15/4/23	NA	NA	Wed 11/1/23	Mon 29/5/23	35 days	2 days	562,1351,548																
1366	Section 6 Completion	0 days	0 days	0 days	0%	Tue 30/5/23	Tue 30/5/23	NA	NA	Tue 30/5/23	Tue 30/5/23	0 days		1350,1363,1364																
1367	Seawater Intake Box Culvert (~169m)	647 days	0 days	647 days	0%	Fri 5/3/21	Mon 8/5/23	NA	NA	Fri 5/3/21	Tue 30/5/23	0 days																		
1368	Access Date - Part 4	0 days	0 days	0 days	0%	Fri 5/3/21	Fri 5/3/21	NA	NA	Fri 5/3/21	Fri 5/3/21	0 days	0 days	4FS+645 days																
1369	Part 4 - CHA.0-79 (79m)	290 days	0 days	290 days	0%	Thu 19/5/22	Mon 8/5/23	NA	NA	Fri 10/6/22	Tue 30/5/23	18 days																		
1370	CHA 0-24 Precast Section	34 days	0 days	34 days	0%	Thu 19/5/22	Tue 28/6/22	NA	NA	Fri 10/6/22	Wed 20/7/22	18 days																		
1371	Temporary ELS & Excavation and Shoring Installation	24 days	0 days	24 days	0%	Thu 19/5/22	Thu 16/6/22	NA	NA	Fri 10/6/22	Fri 8/7/22	18 days	1 days	1384,1386,1238																
1372	Install 3 nos. 8 m long precast units (2.5 days per unit)	10 days	0 days	10 days	0%	Fri 17/6/22	Tue 28/6/22	NA	NA	Sat 9/7/22	Wed 20/7/22	18 days	2.5 days	1371																
1373	CHA 24-79 (75m) (5 units)	256 days	0 days	256 days	0%	Wed 29/6/22	Mon 8/5/23	NA	NA	Thu 21/7/22	Tue 30/5/23	18 days																		
1374	Temporary ELS & Excavation	50 days	0 days	50 days	0%	Wed 29/6/22	Fri 26/8/22	NA	NA	Thu 21/7/22	Sat 17/9/22	18 days	1 day	1372																
1375	Unit 1 & 3 (41 days per unit)	44 days	0 days	44 days	0%	Sat 27/8/22	Thu 20/10/22	NA	NA	Mon 19/9/22	Thu 10/11/22	18 days	3 days	1374																
1376	Unit 2 & 4 (41 days per unit)	44 days	0 days	44 days	0%	Fri 21/10/22	Sat 10/12/22	NA	NA	Fri 11/11/22	Mon 2/1/23	18 days	3 days	1375																
1377	Unit 5 & 6 (41 days per unit)	44 days	0 days	44 days	0%	Mon 12/12/22	Sat 4/2/23	NA	NA	Tue 3/1/23	Sat 25/2/23	18 days	3 days	1376																
1378	Remove struts and backfilling	24 days	0 days	24 days	0%	Mon 6/2/23	Sat 4/3/23	NA	NA	Mon 27/2/23	Sat 25/3/23	18 days	1 days	1376,1377																
1379	Reinstate seawall	50 days	0 days	50 days	0%	Mon 6/3/23	Mon 8/5/23	NA	NA	Mon 27/3/23	Tue 30/5/23	18 days	1 days	1378																
1380	Part 10 - CHA79-89 (10m)	286 days	0 days	286 days	0%	Wed 2/6/21	Wed 18/5/22	NA	NA	Wed 2/6/21	Thu 9/6/22	0 days																		
1381	Access Date - Part 10	0 days	0 days	0 days	0%	Wed 2/6/21	Wed 2/6/21	NA	NA	Wed 2/6/21	Wed 2/6/21	0 days	0 days	4FS+734 days,1																
1382	Tempoary Works Design and Method Statement Submission	0 days	0 days	0 days	0%	Sun 2/1/22	Sun 2/1/22	NA	NA	Tue 22/2/22	Tue 22/2/22	40 days																		
1383	Tempoary Works Design and Method Statement Comment by PM	21 days	0 days	21 days	0%	Mon 3/1/22	Wed 26/1/22	NA	NA	Tue 22/2/22	Thu 17/3/22	40 days		1382																
1384	Temporary ELS & Excavation	14 days	0 days	14 days	0%	Fri 25/2/22	Sat 12/3/22	NA	NA	Fri 18/3/22	Sat 2/4/22	18 days	0 days	1388,1381,1391																
1385	Box Culvert with Feeder Installation	47 days	0 days	47 days	0%	Mon 14/3/22	Wed 11/5/22	NA	NA	Mon 4/4/22	Wed 1/6/22	18 days	6 days	1384,1381,1391																
1386	Remove struts and backfilling	6 days	0 days	6 days	0%	Thu 12/5/22	Wed 18/5/22	NA	NA	Thu 2/6/22	Thu 9/6/22	18 days	1 days	1392,1385																
1387	Part 1 - CH89-165 (76m) 6 Units	193 days	0 days	193 days	0%	Mon 16/8/21	Fri 8/4/22	NA	NA	Mon 6/9/21	Wed 1/6/22	18 days																		
1388	Temporary ELS & Excavation	25 days	0 days	25 days	0%	Mon 16/8/21	Mon 13/9/21	NA	NA	Mon 6/9/21	Wed 6/10/21	18 days	0.5 days	9,1147,1445																
1389	Unit 1 & 3 (41 days per unit)	44 days	0 days	44 days	0%	Tue 14/9/21	Sat 6/11/21	NA	NA	Thu 7/10/21	Sat 27/11/21	18 days	4 days	1388,418,570																
1390	Unit 2 & 4 (41 days per unit)	44 days	0 days	44 days	0%	Mon 8/11/21	Thu 30/12/21	NA	NA	Mon 29/11/21	Fri 21/1/22	18 days	4 days	1389																
1391	Unit 5 & 6 (41 days per unit)	44 days	0 days	44 days	0%	Fri 31/12/21	Thu 24/2/22	NA	NA	Sat 22/1/22	Thu 17/3/22	18 days	4 days	1390																
1392	Remove struts and backfilling	36 days	0 days	36 days	0%	Fri 25/2/22	Fri 8/4/22	NA	NA	Thu 21/4/22	Wed 1/6/22	43 days	1 days	1390,1391																
1393	Elevated Landscape Deck CH1920 - 2090	1178 days	11.27 days	1166.74 days?	0%	Thu 16/5/19	Sat 29/4/23	Thu 16/5/19	NA	Thu 16/5/19	Wed 29/5/24	321 da...																		
1394	Agree Interface Coordination Plan with KL/2014/01 Contractor	14 days	14 days	0 days	100%	Thu 16/5/19	Fri 31/5/19	Thu 16/5/19	Fri 31/5/19	Thu 16/5/19	Fri 31/5/19	0 days	0 days																	
1395	Ch1920-CH2060	1 day?	0 days	1 day?	0%	Sat 23/5/20	Sat 23/5/20	NA	NA	Wed 29/5/24	Wed 29/5/24	1467 d...																		
1396	Part 1 - CH1919-2020 (70m) 4 bays	181 days	0 days	181 days	0%	Mon 5/7/21	Thu 10/2/22	NA	NA	Wed 8/9/21	Mon 14/2/22	3 days																		
1397	Pier Temporary Works Design and Method Statement Submission	0 days	0 days	0 days	0%	Mon 5/7/21	Mon 5/7/21	NA	NA	Wed 8/9/21	Wed 8/9/21	65 days	1 day																	
1398	Pier Temporary Works Design and Method Statement Comment & Approval	45 days	0 days	45 days	0%	Mon 5/7/21	Wed 18/8/21	NA	NA	Wed 8/9/21	Fri 22/10/21	65 days	1 day	1397																
1399	CH1930 Pier (1set x 3nos.):	12 days	0 days	12 days	0%	Tue 5/10/21	Tue 19/10/21	NA	NA	Fri 8/10/21	Fri 22/10/21	3 days		1075,1076,1066																
1400	CH1950-CH2020: Pier (3sets x 3nos) - 1 day/no.. 1 team	11 days	0 days	11 days	0%	Wed 20/10/21	Mon 1/11/21	NA	NA	Sat 23/10/21	Thu 4/11/21	3 days	2 day	579,1398,1399																
1401	Falsework Temporary Works Design and Method Statement Submission	0 days	0 days	0 days	0%	Wed 1/9/21	Wed 1/9/21	NA	NA	Tue 21/9/21	Tue 21/9/21	20 days	1 day																	
1402	Falsework Temporary Works Design and Method Statement Comment & Approval	45 days	0 days	45 days	0%	Wed 1/9/21	Fri 15/10/21	NA	NA	Tue 21/9/21	Thu 4/11/21	20 days	1 day	1401																
1403	Falsework erection	10 days	0 days	10 days	0%	Tue 2/11/21	Fri 12/11/21	NA	NA	Fri 5/11/21	Tue 16/11/21	3 days	1 day	1400,1402																
1404	Deck & Secondary Upstand Beam Temporary Works Design and Method Statement Submission	0 days	0 days	0 days	0%	Wed 1/9/21	Wed 1/9/21	NA	NA	Sun 3/10/21	Sun 3/10/21	32 days	1 day																	
1405	Deck & Secondary Upstand Beam Temporary Works Design and Method Statement Comment & Approval	45 days	0 days	45 days	0%	Wed 1/9/21	Fri 15/10/21	NA	NA	Sun 3/10/21	Tue 16/11/21	32 days	1 day	1404																
1406	Deck (4 bays) 12d/bay & link bridge (12d/bay)	25 days	0 days	25 days	0%	Sat 13/11/21	Sat 11/12/21	NA	NA	Wed 17/11/21	Wed 15/12/21	3 days	1 day	1403,625,623FS																

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	

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			
															Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
1407	Secondary Upstand Beam	26 days	0 days	26 days	0%	Mon 13/12/21	Fri 14/1/22	NA	NA	Thu 16/12/21	Tue 18/1/22	3 days	1.5 day	1406																
1408	Dismantle falsework	6 days	0 days	6 days	0%	Fri 4/2/22	Thu 10/2/22	NA	NA	Tue 8/2/22	Mon 14/2/22	3 days	0.5 day	1406FS+14 days																
1409	Part 2A - CH2020-2050 (30m) 3 bays	74 days	0 days	74 days	0%	Sat 4/12/21	Mon 7/3/22	NA	NA	Mon 22/11/21	Tue 22/2/22	-11 days																		
1410	Pier (3sets x 3nos) within CH2007-2090. 1 team	12 days	0 days	12 days	0%	Sat 4/12/21	Fri 17/12/21	NA	NA	Mon 22/11/21	Sat 4/12/21	-11 days	3 day	579,1087																
1411	Falsework erection	12 days	0 days	12 days	0%	Sat 18/12/21	Tue 4/1/22	NA	NA	Mon 6/12/21	Sat 18/12/21	-11 days	3 days	1410																
1412	Deck (3 bays) 12d/bay	25 days	0 days	25 days	0%	Wed 5/1/22	Sat 5/2/22	NA	NA	Mon 20/12/21	Thu 20/1/22	-11 days	3 day	1411,1406,625,6																
1413	Secondary Upstand Beam	12 days	0 days	12 days	0%	Mon 7/2/22	Sat 19/2/22	NA	NA	Fri 21/1/22	Mon 7/2/22	-11 days	1.5 day	1412,1406,1407																
1414	Dismantle falsework	6 days	0 days	6 days	0%	Tue 1/3/22	Mon 7/3/22	NA	NA	Wed 16/2/22	Tue 22/2/22	-11 days	0.5 day	1412,1413FS+7																
1415	Elevated Landscaped Deck CH2090 - Ch2109	989 days	0 days	989 days	0%	Wed 10/6/20	Thu 23/2/23	NA	NA	Wed 10/6/20	Thu 23/3/23	0 days																		
1416	G.I. Works/Predrilling Works for Bored Pile No. LD-BP03	12 days	0 days	12 days	0%	Wed 10/6/20	Tue 23/6/20	NA	NA	Wed 10/6/20	Tue 23/6/20	0 days	1 day																	
1417	Design Verification for Bored Pile No. LD-BP02	30 days	0 days	30 days	0%	Wed 24/6/20	Thu 30/7/20	NA	NA	Wed 24/6/20	Thu 30/7/20	0 days	1 day	1416																
1418	CH2090: Bored Pile No. LD-BP02	34 days	0 days	34 days	0%	Fri 31/7/20	Tue 8/9/20	NA	NA	Fri 31/7/20	Tue 8/9/20	0 days	1 day	1416,1417																
1419	Triplet	12 days	0 days	12 days	0%	Wed 24/6/20	Thu 9/7/20	NA	NA	Wed 24/6/20	Thu 9/7/20	0 days	1 day																	
1420	Diversion of existing watermain and CLP cable (Tentative)	52 days	0 days	52 days	0%	Fri 10/7/20	Tue 8/9/20	NA	NA	Fri 10/7/20	Tue 8/9/20	0 days	15 day	1419																
1421	G.I. Works/Predrilling Works for Bored Pile No. LD-BP03	12 days	0 days	12 days	0%	Thu 2/7/20	Wed 15/7/20	NA	NA	Wed 15/7/20	Tue 28/7/20	11 days	1 day																	
1422	Design Verification for Bored Pile No. LD-BP03	36 days	0 days	36 days	0%	Thu 16/7/20	Wed 26/8/20	NA	NA	Wed 29/7/20	Tue 8/9/20	11 days	1 day	1421																
1423	CH2069: Bored Pile No. LD-BP03	30 days	0 days	30 days	0%	Wed 9/9/20	Thu 15/10/20	NA	NA	Wed 9/9/20	Thu 15/10/20	0 days	1 day	1418,314FF,142																
1424	Design Verification for Bored Pile No. LD-BP01	36 days	0 days	36 days	0%	Mon 24/8/20	Tue 6/10/20	NA	NA	Sat 12/9/20	Tue 27/10/20	17 days	1 day																	
1425	CH2109: Bored Pile No. LD-BP01	30 days	0 days	30 days	0%	Fri 16/10/20	Fri 20/11/20	NA	NA	Wed 28/10/20	Tue 1/12/20	9 days	1 day	1423,314,1420,1																
1426	Pile testing	43 days	0 days	43 days	0%	Sat 21/11/20	Wed 13/1/21	NA	NA	Wed 2/12/20	Sat 23/1/21	9 days	1 day	1423,1425																
1427	Elevated Landscape Deck - Pilecap with ELS Temp. Works Design and Method Statement Submission	0 days	0 days	0 days	0%	Mon 2/11/20	Mon 2/11/20	NA	NA	Fri 11/12/20	Fri 11/12/20	39 days	1.5 day																	
1428	Elevated Landscape Deck - Pilecap with ELS Temp. Works Design and Method Statement Comment & Approval	45 days	0 days	45 days	0%	Mon 2/11/20	Wed 16/12/20	NA	NA	Fri 11/12/20	Sun 24/1/21	39 days	1.5 day	1427																
1429	CH2090: Pilecap with ELS	37 days	0 days	37 days	0%	Thu 14/1/21	Mon 1/3/21	NA	NA	Mon 25/1/21	Thu 11/3/21	9 days	1 day	1425,1426,1428																
1430	CH2069: Pilecap with ELS	37 days	0 days	37 days	0%	Tue 2/3/21	Fri 16/4/21	NA	NA	Fri 12/3/21	Tue 27/4/21	9 days	1 day	1429																
1431	CH2109: Pilecap with ELS	37 days	0 days	37 days	0%	Tue 2/3/21	Fri 16/4/21	NA	NA	Fri 12/3/21	Tue 27/4/21	9 days	1 day	1430SS																
1432	Elevated Landscape Deck - Temp. Works Design and Method Statement Submission	0 days	0 days	0 days	0%	Mon 4/1/21	Mon 4/1/21	NA	NA	Sun 14/3/21	Sun 14/3/21	69 days	0.5 day																	
1433	Elevated Landscape Deck - Temp. Works Design and Method Statement Comment & Approval	45 days	0 days	45 days	0%	Mon 4/1/21	Wed 17/2/21	NA	NA	Sun 14/3/21	Tue 27/4/21	69 days	0.5 day	1432																
1434	Pier (3sets x 3nos) within CH2060-2119. 1 team, 1 no./day	48 days	0 days	48 days	0%	Sat 17/4/21	Tue 15/6/21	NA	NA	Wed 28/4/21	Fri 25/6/21	9 days	3 day	1433,579,1425,1																
1435	Falsework erection	7 days	0 days	7 days	0%	Wed 16/6/21	Wed 23/6/21	NA	NA	Sat 26/6/21	Mon 5/7/21	9 days	0 days	1434																
1436	Deck (3 bays) 12d/bay	39 days	0 days	39 days	0%	Thu 24/6/21	Mon 9/8/21	NA	NA	Tue 6/7/21	Thu 19/8/21	9 days	3 day	1435,715,625,62																
1437	Secondary Upstand Beam	39 days	0 days	39 days	0%	Tue 10/8/21	Fri 24/9/21	NA	NA	Fri 20/8/21	Wed 6/10/21	9 days	1.5 day	1436																
1438	Dismantle falsework	9 days	0 days	9 days	0%	Wed 13/10/21	Sat 23/10/21	NA	NA	Mon 25/10/21	Wed 3/11/21	9 days	1 day	1436FS+14 days																
1439	Install External Cladding	105 days	0 days	105 days	0%	Tue 8/3/22	Thu 14/7/22	NA	NA	Wed 6/4/22	Thu 11/8/22	24 days	5 days	1438,1408,1414																
1440	Elevated Landscaped Deck: Hard Landscaping Works	110 days	0 days	110 days	0%	Fri 14/10/22	Thu 23/2/23	NA	NA	Fri 11/11/22	Thu 23/3/23	24 days	2 days	1439FS+75 days																
1441	Elevated Landscaped Deck: Soft Landscaping Works	110 days	0 days	110 days	0%	Fri 14/10/22	Thu 23/2/23	NA	NA	Fri 11/11/22	Thu 23/3/23	24 days	2 days	1439FS+75 days																
1442	Elevated Landscaped Deck: Planting Works	110 days	0 days	110 days	0%	Fri 14/10/22	Thu 23/2/23	NA	NA	Fri 11/11/22	Thu 23/3/23	24 days	2 days	1439FS+75 days																
1443	Installation of Glass Balustrade	52 days	0 days	52 days	0%	Fri 24/2/23	Sat 29/4/23	NA	NA	Fri 24/3/23	Tue 30/5/23	24 days	6 days	1437,1407,1413,																
1444	Part 2A - Lift LT1 & LT2 (Landscaped Deck)	671 days	0 days	671 days	0%	Tue 2/6/20	Wed 31/8/22	NA	NA	Tue 2/6/20	Tue 30/5/23	0 days																		
1445	Access Date - Part 2A,2C	0 days	0 days	0 days	0%	Tue 2/6/20	Tue 2/6/20	NA	NA	Tue 2/6/20	Tue 2/6/20	0 days	0 days	4FS+369 days																
1446	TTA Implementation	3 days	0 days	3 days	0%	Fri 31/7/20	Mon 3/8/20	NA	NA	Wed 9/6/21	Fri 11/6/21	254 days																		
1447	Utilities Diversion (Towngas and Telecom Cable) (tentative)	150 days	0 days	150 days	0%	Tue 4/8/20	Mon 1/2/21	NA	NA	Sat 12/6/21	Thu 9/12/21	254 days	5 days	1445,1446																
1448	G.I. works	18 days	0 days	18 days	0%	Tue 2/2/21	Thu 25/2/21	NA	NA	Fri 10/12/21	Mon 3/1/22	254 days	1 day	1445,1447																
1449	Design Verification	25 days	0 days	25 days	0%	Fri 26/2/21	Fri 26/3/21	NA	NA	Tue 4/1/22	Fri 4/2/22	254 days	2 days	1448																
1450	Lift Pilecap & ELS- Temp. Works Design and Method Statement Submission	0 days	0 days	0 days	0%	Mon 21/12/20	Mon 21/12/20	NA	NA	Tue 16/11/21	Tue 16/11/21	330 days	0.5 day																	



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, [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 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)
01/07/2023	26.2	30.9	4.7
02/07/2023	26.2	29.3	15.6
03/07/2023	27	32.4	3.6
04/07/2023	26.7	32	10.6
05/07/2023	28.9	33	Trace
06/07/2023	28.4	32.8	Trace
07/07/2023	29	33.4	0.3
08/07/2023	28.8	33.2	0
09/07/2023	28.7	33.7	Trace
10/07/2023	28.9	33.7	0
11/07/2023	28.9	33.6	0
12/07/2023	28.9	34.5	0
13/07/2023	28.6	34.8	0
14/07/2023	28.5	33.8	0
15/07/2023	28.2	34.5	2.5
16/07/2023	27.2	33.3	4.9
17/07/2023	27.2	29.4	29
18/07/2023	27.5	31.1	10.9
19/07/2023	27.3	30.3	3.9
20/07/2023	26.8	33.6	4.8
21/07/2023	27.7	32.4	Trace
22/07/2023	28.3	34	0
23/07/2023	28.6	34.1	Trace
24/07/2023	28.4	34.6	0
25/07/2023	28.4	33.4	0
26/07/2023	29.3	35.5	0
27/07/2023	28.4	36.1	6.9
28/07/2023	28.9	34.7	0
29/07/2023	27.2	31.5	21
30/07/2023	27.5	32.1	10
31/07/2023	26.5	32.5	46.5

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=2023&m=7>

Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)	Total Rainfall (mm)
01/08/2023	27.9	32.2	Trace
02/08/2023	27.9	34.6	0
03/08/2023	27.9	35.1	0
04/08/2023	28.3	33.5	2.6
05/08/2023	28.3	33	5.9
06/08/2023	29.2	33	Trace
07/08/2023	28	32.4	1.6
08/08/2023	28.9	33.3	0
09/08/2023	28.7	32.8	Trace
10/08/2023	27.5	32.1	11.1
11/08/2023	25.7	30.1	26.4
12/08/2023	26.6	32.1	0.9
13/08/2023	26.1	29.6	34.2
14/08/2023	27	32.2	3.6
15/08/2023	28.8	32.5	Trace
16/08/2023	28.8	34	0
17/08/2023	29	32	Trace
18/08/2023	27.2	30.6	9.3
19/08/2023	27.3	30.6	0.3
20/08/2023	28.4	31.5	0.6
21/08/2023	28.2	32.1	0.2
22/08/2023	28	33	0.3
23/08/2023	28.2	33.5	0.3
24/08/2023	27.5	31.4	5.7
25/08/2023	28.2	30.9	0.2
26/08/2023	27.9	32.8	0
27/08/2023	26.4	31.9	2.2
28/08/2023	28.1	33.4	0.5
29/08/2023	26.8	32.6	34.4
30/08/2023	26.7	32	0
31/08/2023	27.7	32.1	0.4

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=2023&m=8>

General Information

Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)	Total Rainfall (mm)
01/09/2023	25	28.7	98.9
02/09/2023	25.2	27.2	80.4
03/09/2023	27	33.7	0.1
04/09/2023	27.3	32.6	Trace
05/09/2023	27.7	31	0.4
06/09/2023	27.8	32.1	0
07/09/2023	25.5	29.7	215.7
08/09/2023	25	26.3	425
09/09/2023	25.5	26.6	9.8
10/09/2023	24.8	26.5	67.4
11/09/2023	25.6	28.2	20.5
12/09/2023	26	29.4	0.9
13/09/2023	26.8	30.4	2.5
14/09/2023	25.6	28.2	103.5
15/09/2023	25.2	30.6	28.5
16/09/2023	25.4	28.8	4.3
17/09/2023	26.8	31.7	0
18/09/2023	27.4	32.7	0
19/09/2023	27.3	33.5	0
20/09/2023	27.5	32.9	0
21/09/2023	27.6	33.6	0
22/09/2023	28.4	34.4	Trace
23/09/2023	28.3	33.7	0
24/09/2023	28.5	33.1	0
25/09/2023	27.9	33.1	1.5
26/09/2023	28.3	33.4	0
27/09/2023	28.6	33.9	Trace
28/09/2023	28.7	33.6	0
29/09/2023	26.7	33.7	7.7
30/09/2023	28.2	33.6	0

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=2023&m=9>

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
01/07/2023	0:00	0.4	112.5	02/07/2023	0:00	0.4	112.5	03/07/2023	0:00	1.8	112.5	04/07/2023	0:00	0.4	157.5
01/07/2023	1:00	0.4	112.5	02/07/2023	1:00	0.9	22.5	03/07/2023	1:00	1.8	112.5	04/07/2023	1:00	0.4	67.5
01/07/2023	2:00	0.9	90	02/07/2023	2:00	0.4	22.5	03/07/2023	2:00	1.8	112.5	04/07/2023	2:00	0.4	22.5
01/07/2023	3:00	0.4	90	02/07/2023	3:00	0.4	112.5	03/07/2023	3:00	1.8	112.5	04/07/2023	3:00	0.4	225
01/07/2023	4:00	0.9	90	02/07/2023	4:00	0.9	112.5	03/07/2023	4:00	1.3	67.5	04/07/2023	4:00	0.9	315
01/07/2023	5:00	0.9	112.5	02/07/2023	5:00	1.3	112.5	03/07/2023	5:00	1.8	67.5	04/07/2023	5:00	0.9	337.5
01/07/2023	6:00	0.4	90	02/07/2023	6:00	0.9	67.5	03/07/2023	6:00	0.4	112.5	04/07/2023	6:00	0.4	67.5
01/07/2023	7:00	0.4	135	02/07/2023	7:00	0.9	112.5	03/07/2023	7:00	0.4	112.5	04/07/2023	7:00	0.4	112.5
01/07/2023	8:00	0.4	90	02/07/2023	8:00	0.9	112.5	03/07/2023	8:00	0.4	112.5	04/07/2023	8:00	0.4	135
01/07/2023	9:00	0.4	90	02/07/2023	9:00	1.3	90	03/07/2023	9:00	0.4	45	04/07/2023	9:00	0.9	45
01/07/2023	10:00	0.4	112.5	02/07/2023	10:00	1.3	112.5	03/07/2023	10:00	0.9	67.5	04/07/2023	10:00	0.4	22.5
01/07/2023	11:00	0.9	135	02/07/2023	11:00	0.9	112.5	03/07/2023	11:00	1.8	67.5	04/07/2023	11:00	0.9	135
01/07/2023	12:00	1.3	112.5	02/07/2023	12:00	1.3	112.5	03/07/2023	12:00	2.7	90	04/07/2023	12:00	0.9	157.5
01/07/2023	13:00	1.3	112.5	02/07/2023	13:00	0.9	112.5	03/07/2023	13:00	1.3	67.5	04/07/2023	13:00	0.9	157.5
01/07/2023	14:00	0.9	90	02/07/2023	14:00	1.3	90	03/07/2023	14:00	1.3	67.5	04/07/2023	14:00	0.9	112.5
01/07/2023	15:00	0.4	112.5	02/07/2023	15:00	1.8	90	03/07/2023	15:00	1.3	135	04/07/2023	15:00	0.9	90
01/07/2023	16:00	1.3	112.5	02/07/2023	16:00	1.3	112.5	03/07/2023	16:00	0.9	112.5	04/07/2023	16:00	0.9	90
01/07/2023	17:00	0.9	112.5	02/07/2023	17:00	1.3	112.5	03/07/2023	17:00	1.8	90	04/07/2023	17:00	1.3	67.5
01/07/2023	18:00	0.4	247.5	02/07/2023	18:00	2.2	112.5	03/07/2023	18:00	1.3	112.5	04/07/2023	18:00	1.8	90
01/07/2023	19:00	0.4	135	02/07/2023	19:00	2.7	135	03/07/2023	19:00	0.9	90	04/07/2023	19:00	1.3	67.5
01/07/2023	20:00	0.9	67.5	02/07/2023	20:00	2.2	112.5	03/07/2023	20:00	1.3	112.5	04/07/2023	20:00	1.8	90
01/07/2023	21:00	0.9	202.5	02/07/2023	21:00	4	112.5	03/07/2023	21:00	2.2	112.5	04/07/2023	21:00	1.8	90
01/07/2023	22:00	0.9	270	02/07/2023	22:00	2.7	112.5	03/07/2023	22:00	1.3	112.5	04/07/2023	22:00	1.8	112.5
01/07/2023	23:00	0.4	90	02/07/2023	23:00	2.7	112.5	03/07/2023	23:00	1.8	90	04/07/2023	23:00	2.2	90

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
05/07/2023	0:00	0.9	112.5	06/07/2023	0:00	2.7	112.5	07/07/2023	0:00	0.4	22.5	08/07/2023	0:00	0.4	45
05/07/2023	1:00	1.3	90	06/07/2023	1:00	2.7	67.5	07/07/2023	1:00	0.4	22.5	08/07/2023	1:00	0.4	67.5
05/07/2023	2:00	1.3	112.5	06/07/2023	2:00	0.9	90	07/07/2023	2:00	0.4	67.5	08/07/2023	2:00	1.3	67.5
05/07/2023	3:00	1.3	157.5	06/07/2023	3:00	0.9	112.5	07/07/2023	3:00	0.4	292.5	08/07/2023	3:00	0.9	67.5
05/07/2023	4:00	1.3	90	06/07/2023	4:00	0.9	45	07/07/2023	4:00	0.4	22.5	08/07/2023	4:00	0.4	90
05/07/2023	5:00	0.9	112.5	06/07/2023	5:00	0.9	90	07/07/2023	5:00	0.4	337.5	08/07/2023	5:00	0.4	22.5
05/07/2023	6:00	0.4	112.5	06/07/2023	6:00	0.9	90	07/07/2023	6:00	0.9	112.5	08/07/2023	6:00	0.4	112.5
05/07/2023	7:00	0.4	112.5	06/07/2023	7:00	1.3	90	07/07/2023	7:00	0.9	45	08/07/2023	7:00	0.9	112.5
05/07/2023	8:00	0.9	112.5	06/07/2023	8:00	1.3	112.5	07/07/2023	8:00	0.4	135	08/07/2023	8:00	0.9	112.5
05/07/2023	9:00	0.9	112.5	06/07/2023	9:00	1.3	112.5	07/07/2023	9:00	0.4	112.5	08/07/2023	9:00	0.4	112.5
05/07/2023	10:00	0.9	112.5	06/07/2023	10:00	0.9	112.5	07/07/2023	10:00	0.9	135	08/07/2023	10:00	0.4	112.5
05/07/2023	11:00	1.3	22.5	06/07/2023	11:00	0.9	90	07/07/2023	11:00	0.4	112.5	08/07/2023	11:00	0.9	135
05/07/2023	12:00	0.9	112.5	06/07/2023	12:00	1.3	112.5	07/07/2023	12:00	1.3	112.5	08/07/2023	12:00	1.3	247.5
05/07/2023	13:00	0.9	112.5	06/07/2023	13:00	1.3	112.5	07/07/2023	13:00	1.3	90	08/07/2023	13:00	1.3	247.5
05/07/2023	14:00	1.3	45	06/07/2023	14:00	0.9	90	07/07/2023	14:00	1.3	112.5	08/07/2023	14:00	0.9	112.5
05/07/2023	15:00	0.9	270	06/07/2023	15:00	0.9	112.5	07/07/2023	15:00	1.3	90	08/07/2023	15:00	1.3	112.5
05/07/2023	16:00	0.9	90	06/07/2023	16:00	0.4	112.5	07/07/2023	16:00	1.3	90	08/07/2023	16:00	1.3	112.5
05/07/2023	17:00	0.9	90	06/07/2023	17:00	0.4	112.5	07/07/2023	17:00	1.3	90	08/07/2023	17:00	0.9	112.5
05/07/2023	18:00	0.9	45	06/07/2023	18:00	0.9	112.5	07/07/2023	18:00	0.9	112.5	08/07/2023	18:00	1.3	112.5
05/07/2023	19:00	0.9	67.5	06/07/2023	19:00	0.9	112.5	07/07/2023	19:00	1.3	90	08/07/2023	19:00	0.9	135
05/07/2023	20:00	0.4	45	06/07/2023	20:00	0.9	112.5	07/07/2023	20:00	0.9	112.5	08/07/2023	20:00	0.9	135
05/07/2023	21:00	0.9	22.5	06/07/2023	21:00	0.9	112.5	07/07/2023	21:00	0.9	112.5	08/07/2023	21:00	0.4	112.5
05/07/2023	22:00	2.2	337.5	06/07/2023	22:00	1.3	112.5	07/07/2023	22:00	0.9	112.5	08/07/2023	22:00	0.9	112.5
05/07/2023	23:00	0.9	90	06/07/2023	23:00	0.9	112.5	07/07/2023	23:00	1.3	112.5	08/07/2023	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
09/07/2023	0:00	0.4	135	10/07/2023	0:00	0.4	67.5	11/07/2023	0:00	0.4	225	12/07/2023	0:00	0.9	112.5
09/07/2023	1:00	0.4	112.5	10/07/2023	1:00	0.4	112.5	11/07/2023	1:00	0.9	225	12/07/2023	1:00	1.3	112.5
09/07/2023	2:00	0.4	90	10/07/2023	2:00	0.9	22.5	11/07/2023	2:00	0.9	112.5	12/07/2023	2:00	0.9	112.5
09/07/2023	3:00	0.4	112.5	10/07/2023	3:00	0.9	90	11/07/2023	3:00	1.3	180	12/07/2023	3:00	0.9	112.5
09/07/2023	4:00	1.3	112.5	10/07/2023	4:00	0.9	292.5	11/07/2023	4:00	0.4	337.5	12/07/2023	4:00	0.9	135
09/07/2023	5:00	0.9	90	10/07/2023	5:00	0.4	292.5	11/07/2023	5:00	0.4	247.5	12/07/2023	5:00	0.9	45
09/07/2023	6:00	0.9	247.5	10/07/2023	6:00	0.4	292.5	11/07/2023	6:00	0.4	225	12/07/2023	6:00	0.4	45
09/07/2023	7:00	0.9	247.5	10/07/2023	7:00	0.9	22.5	11/07/2023	7:00	0.4	247.5	12/07/2023	7:00	0.9	67.5
09/07/2023	8:00	0.4	247.5	10/07/2023	8:00	0.4	22.5	11/07/2023	8:00	0.4	180	12/07/2023	8:00	0.9	90
09/07/2023	9:00	1.3	247.5	10/07/2023	9:00	1.3	45	11/07/2023	9:00	0.9	225	12/07/2023	9:00	0.9	112.5
09/07/2023	10:00	0.4	247.5	10/07/2023	10:00	0.9	22.5	11/07/2023	10:00	0.9	112.5	12/07/2023	10:00	0.9	135
09/07/2023	11:00	0.4	247.5	10/07/2023	11:00	0.4	22.5	11/07/2023	11:00	0.9	270	12/07/2023	11:00	1.3	112.5
09/07/2023	12:00	0.4	247.5	10/07/2023	12:00	0.9	45	11/07/2023	12:00	0.9	90	12/07/2023	12:00	1.3	67.5
09/07/2023	13:00	0.4	225	10/07/2023	13:00	0.9	337.5	11/07/2023	13:00	0.4	67.5	12/07/2023	13:00	0.9	90
09/07/2023	14:00	0.4	202.5	10/07/2023	14:00	1.3	270	11/07/2023	14:00	0.4	270	12/07/2023	14:00	0.9	90
09/07/2023	15:00	0.4	180	10/07/2023	15:00	0.9	112.5	11/07/2023	15:00	0.4	112.5	12/07/2023	15:00	0.9	180
09/07/2023	16:00	0.4	225	10/07/2023	16:00	1.3	90	11/07/2023	16:00	1.8	112.5	12/07/2023	16:00	0.4	67.5
09/07/2023	17:00	0.4	202.5	10/07/2023	17:00	1.3	112.5	11/07/2023	17:00	1.8	135	12/07/2023	17:00	0.9	135
09/07/2023	18:00	0.4	157.5	10/07/2023	18:00	0.9	112.5	11/07/2023	18:00	2.7	90	12/07/2023	18:00	0.9	112.5
09/07/2023	19:00	0.4	225	10/07/2023	19:00	0.9	112.5	11/07/2023	19:00	2.2	292.5	12/07/2023	19:00	0.9	90
09/07/2023	20:00	0.4	135	10/07/2023	20:00	1.3	135	11/07/2023	20:00	1.3	225	12/07/2023	20:00	0.4	90
09/07/2023	21:00	0.9	90	10/07/2023	21:00	0.9	135	11/07/2023	21:00	1.8	247.5	12/07/2023	21:00	0.9	67.5
09/07/2023	22:00	0.9	112.5	10/07/2023	22:00	0.9	112.5	11/07/2023	22:00	0.9	247.5	12/07/2023	22:00	0.9	112.5
09/07/2023	23:00	0.4	112.5	10/07/2023	23:00	0.9	112.5	11/07/2023	23:00	0.4	247.5	12/07/2023	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
13/07/2023	0:00	1.3	22.5	14/07/2023	0:00	0.9	135	15/07/2023	0:00	0.9	112.5	16/07/2023	0:00	1.8	112.5
13/07/2023	1:00	1.3	180	14/07/2023	1:00	1.3	67.5	15/07/2023	1:00	0.9	112.5	16/07/2023	1:00	1.3	112.5
13/07/2023	2:00	0.9	90	14/07/2023	2:00	1.3	90	15/07/2023	2:00	0.4	112.5	16/07/2023	2:00	0.4	112.5
13/07/2023	3:00	0.4	22.5	14/07/2023	3:00	0.4	90	15/07/2023	3:00	0.9	112.5	16/07/2023	3:00	1.3	112.5
13/07/2023	4:00	0.9	90	14/07/2023	4:00	1.3	112.5	15/07/2023	4:00	0.9	112.5	16/07/2023	4:00	0.9	112.5
13/07/2023	5:00	1.8	112.5	14/07/2023	5:00	1.3	67.5	15/07/2023	5:00	0.9	112.5	16/07/2023	5:00	0.9	112.5
13/07/2023	6:00	1.3	67.5	14/07/2023	6:00	1.8	112.5	15/07/2023	6:00	0.9	112.5	16/07/2023	6:00	0.4	112.5
13/07/2023	7:00	0.9	45	14/07/2023	7:00	0.9	90	15/07/2023	7:00	0.9	112.5	16/07/2023	7:00	0.4	112.5
13/07/2023	8:00	1.3	45	14/07/2023	8:00	1.3	90	15/07/2023	8:00	0.9	112.5	16/07/2023	8:00	0.4	112.5
13/07/2023	9:00	1.3	67.5	14/07/2023	9:00	1.3	90	15/07/2023	9:00	1.3	112.5	16/07/2023	9:00	0.4	135
13/07/2023	10:00	1.3	67.5	14/07/2023	10:00	1.8	112.5	15/07/2023	10:00	1.3	112.5	16/07/2023	10:00	0.4	112.5
13/07/2023	11:00	1.8	45	14/07/2023	11:00	1.8	112.5	15/07/2023	11:00	0.9	112.5	16/07/2023	11:00	0.9	112.5
13/07/2023	12:00	1.3	22.5	14/07/2023	12:00	2.2	112.5	15/07/2023	12:00	0.4	112.5	16/07/2023	12:00	0.4	112.5
13/07/2023	13:00	0.9	112.5	14/07/2023	13:00	2.2	90	15/07/2023	13:00	0.9	112.5	16/07/2023	13:00	0.9	157.5
13/07/2023	14:00	1.3	112.5	14/07/2023	14:00	1.3	90	15/07/2023	14:00	0.4	112.5	16/07/2023	14:00	0.9	112.5
13/07/2023	15:00	1.3	112.5	14/07/2023	15:00	0.9	90	15/07/2023	15:00	0.4	112.5	16/07/2023	15:00	0.9	112.5
13/07/2023	16:00	1.8	112.5	14/07/2023	16:00	0.4	112.5	15/07/2023	16:00	0.9	112.5	16/07/2023	16:00	1.3	90
13/07/2023	17:00	1.8	135	14/07/2023	17:00	0.4	112.5	15/07/2023	17:00	0.9	135	16/07/2023	17:00	1.3	90
13/07/2023	18:00	1.8	112.5	14/07/2023	18:00	0.9	112.5	15/07/2023	18:00	0.4	135	16/07/2023	18:00	1.8	112.5
13/07/2023	19:00	1.3	112.5	14/07/2023	19:00	0.4	112.5	15/07/2023	19:00	0.9	135	16/07/2023	19:00	1.8	112.5
13/07/2023	20:00	1.3	135	14/07/2023	20:00	1.3	112.5	15/07/2023	20:00	0.4	112.5	16/07/2023	20:00	1.3	112.5
13/07/2023	21:00	1.8	67.5	14/07/2023	21:00	1.3	112.5	15/07/2023	21:00	0.4	112.5	16/07/2023	21:00	2.2	112.5
13/07/2023	22:00	2.2	90	14/07/2023	22:00	0.4	112.5	15/07/2023	22:00	0.4	112.5	16/07/2023	22:00	1.3	112.5
13/07/2023	23:00	1.3	90	14/07/2023	23:00	0.4	112.5	15/07/2023	23:00	0.4	112.5	16/07/2023	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
17/07/2023	0:00	0.9	225	18/07/2023	0:00	0.9	112.5	19/07/2023	0:00	0.9	112.5	20/07/2023	0:00	0.4	112.5
17/07/2023	1:00	0.9	112.5	18/07/2023	1:00	1.3	90	19/07/2023	1:00	1.8	67.5	20/07/2023	1:00	0.4	112.5
17/07/2023	2:00	0.9	270	18/07/2023	2:00	1.3	90	19/07/2023	2:00	1.3	22.5	20/07/2023	2:00	0.9	135
17/07/2023	3:00	0.9	90	18/07/2023	3:00	1.8	90	19/07/2023	3:00	0.9	112.5	20/07/2023	3:00	0.9	112.5
17/07/2023	4:00	1.3	67.5	18/07/2023	4:00	1.8	135	19/07/2023	4:00	0.9	90	20/07/2023	4:00	0.4	45
17/07/2023	5:00	1.3	270	18/07/2023	5:00	1.3	90	19/07/2023	5:00	1.3	90	20/07/2023	5:00	0.9	90
17/07/2023	6:00	1.8	112.5	18/07/2023	6:00	1.3	67.5	19/07/2023	6:00	0.9	67.5	20/07/2023	6:00	0.9	112.5
17/07/2023	7:00	1.8	112.5	18/07/2023	7:00	1.3	157.5	19/07/2023	7:00	0.9	67.5	20/07/2023	7:00	1.3	135
17/07/2023	8:00	2.2	135	18/07/2023	8:00	1.8	67.5	19/07/2023	8:00	0.9	45	20/07/2023	8:00	1.8	135
17/07/2023	9:00	2.7	90	18/07/2023	9:00	2.2	22.5	19/07/2023	9:00	1.3	90	20/07/2023	9:00	1.8	135
17/07/2023	10:00	2.2	292.5	18/07/2023	10:00	2.7	112.5	19/07/2023	10:00	1.3	112.5	20/07/2023	10:00	0.4	135
17/07/2023	11:00	1.3	225	18/07/2023	11:00	2.2	112.5	19/07/2023	11:00	0.9	67.5	20/07/2023	11:00	0.4	135
17/07/2023	12:00	1.8	247.5	18/07/2023	12:00	1.8	112.5	19/07/2023	12:00	0.9	112.5	20/07/2023	12:00	0.4	135
17/07/2023	13:00	2.2	247.5	18/07/2023	13:00	2.2	67.5	19/07/2023	13:00	1.3	112.5	20/07/2023	13:00	0.9	112.5
17/07/2023	14:00	1.8	247.5	18/07/2023	14:00	1.8	67.5	19/07/2023	14:00	0.9	112.5	20/07/2023	14:00	0.4	112.5
17/07/2023	15:00	1.8	135	18/07/2023	15:00	1.3	90	19/07/2023	15:00	0.4	112.5	20/07/2023	15:00	0.9	112.5
17/07/2023	16:00	2.2	180	18/07/2023	16:00	1.3	90	19/07/2023	16:00	0.4	112.5	20/07/2023	16:00	1.3	112.5
17/07/2023	17:00	2.7	135	18/07/2023	17:00	0.9	22.5	19/07/2023	17:00	0.4	135	20/07/2023	17:00	1.3	112.5
17/07/2023	18:00	2.2	112.5	18/07/2023	18:00	0.9	112.5	19/07/2023	18:00	0.9	135	20/07/2023	18:00	1.3	112.5
17/07/2023	19:00	0.9	225	18/07/2023	19:00	1.3	112.5	19/07/2023	19:00	0.9	157.5	20/07/2023	19:00	0.9	112.5
17/07/2023	20:00	2.2	157.5	18/07/2023	20:00	1.8	112.5	19/07/2023	20:00	0.4	135	20/07/2023	20:00	0.9	135
17/07/2023	21:00	1.8	112.5	18/07/2023	21:00	2.2	112.5	19/07/2023	21:00	0.9	112.5	20/07/2023	21:00	0.4	112.5
17/07/2023	22:00	1.8	112.5	18/07/2023	22:00	2.2	112.5	19/07/2023	22:00	0.9	112.5	20/07/2023	22:00	0.4	135
17/07/2023	23:00	2.2	112.5	18/07/2023	23:00	2.7	112.5	19/07/2023	23:00	0.4	112.5	20/07/2023	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
21/07/2023	0:00	1.8	112.5	22/07/2023	0:00	1.3	112.5	23/07/2023	0:00	1.3	90	24/07/2023	0:00	0.4	112.5
21/07/2023	1:00	1.3	112.5	22/07/2023	1:00	1.3	112.5	23/07/2023	1:00	0.9	112.5	24/07/2023	1:00	0.4	67.5
21/07/2023	2:00	1.8	112.5	22/07/2023	2:00	1.3	45	23/07/2023	2:00	1.3	90	24/07/2023	2:00	0.4	247.5
21/07/2023	3:00	0.9	135	22/07/2023	3:00	0.9	45	23/07/2023	3:00	0.9	112.5	24/07/2023	3:00	0.4	270
21/07/2023	4:00	1.8	112.5	22/07/2023	4:00	0.9	45	23/07/2023	4:00	0.9	112.5	24/07/2023	4:00	0.9	67.5
21/07/2023	5:00	1.3	112.5	22/07/2023	5:00	0.4	270	23/07/2023	5:00	0.9	112.5	24/07/2023	5:00	0.9	45
21/07/2023	6:00	0.9	90	22/07/2023	6:00	0.4	135	23/07/2023	6:00	1.8	112.5	24/07/2023	6:00	0.9	45
21/07/2023	7:00	0.9	90	22/07/2023	7:00	1.3	247.5	23/07/2023	7:00	1.3	90	24/07/2023	7:00	0.4	45
21/07/2023	8:00	0.9	112.5	22/07/2023	8:00	0.4	247.5	23/07/2023	8:00	0.9	67.5	24/07/2023	8:00	0.4	247.5
21/07/2023	9:00	1.3	135	22/07/2023	9:00	0.4	225	23/07/2023	9:00	0.9	90	24/07/2023	9:00	0.9	337.5
21/07/2023	10:00	1.3	135	22/07/2023	10:00	0.9	112.5	23/07/2023	10:00	1.3	67.5	24/07/2023	10:00	1.3	112.5
21/07/2023	11:00	0.9	112.5	22/07/2023	11:00	0.9	112.5	23/07/2023	11:00	1.8	90	24/07/2023	11:00	1.3	135
21/07/2023	12:00	0.9	112.5	22/07/2023	12:00	0.9	135	23/07/2023	12:00	0.9	90	24/07/2023	12:00	1.3	22.5
21/07/2023	13:00	0.9	112.5	22/07/2023	13:00	1.3	112.5	23/07/2023	13:00	1.3	112.5	24/07/2023	13:00	0.4	45
21/07/2023	14:00	0.9	112.5	22/07/2023	14:00	0.9	112.5	23/07/2023	14:00	1.3	112.5	24/07/2023	14:00	0.9	135
21/07/2023	15:00	1.3	112.5	22/07/2023	15:00	0.9	112.5	23/07/2023	15:00	1.3	112.5	24/07/2023	15:00	1.3	67.5
21/07/2023	16:00	1.3	112.5	22/07/2023	16:00	0.9	112.5	23/07/2023	16:00	1.8	112.5	24/07/2023	16:00	1.3	90
21/07/2023	17:00	0.9	90	22/07/2023	17:00	0.9	112.5	23/07/2023	17:00	1.8	112.5	24/07/2023	17:00	1.3	292.5
21/07/2023	18:00	1.3	135	22/07/2023	18:00	0.9	112.5	23/07/2023	18:00	1.8	112.5	24/07/2023	18:00	1.3	112.5
21/07/2023	19:00	0.9	135	22/07/2023	19:00	0.9	112.5	23/07/2023	19:00	1.3	90	24/07/2023	19:00	1.3	22.5
21/07/2023	20:00	0.4	112.5	22/07/2023	20:00	0.9	90	23/07/2023	20:00	1.8	112.5	24/07/2023	20:00	1.3	135
21/07/2023	21:00	0.4	112.5	22/07/2023	21:00	0.9	112.5	23/07/2023	21:00	1.3	112.5	24/07/2023	21:00	1.8	22.5
21/07/2023	22:00	0.4	112.5	22/07/2023	22:00	0.9	67.5	23/07/2023	22:00	1.3	112.5	24/07/2023	22:00	1.3	90
21/07/2023	23:00	0.9	112.5	22/07/2023	23:00	0.9	135	23/07/2023	23:00	1.8	112.5	24/07/2023	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
25/07/2023	0:00	0.9	135	26/07/2023	0:00	1.3	112.5	27/07/2023	0:00	0.4	112.5	28/07/2023	0:00	0.9	22.5
25/07/2023	1:00	1.3	112.5	26/07/2023	1:00	0.4	90	27/07/2023	1:00	0.4	112.5	28/07/2023	1:00	0.9	315
25/07/2023	2:00	1.3	112.5	26/07/2023	2:00	0.9	112.5	27/07/2023	2:00	0.4	90	28/07/2023	2:00	0.9	90
25/07/2023	3:00	1.3	135	26/07/2023	3:00	0.4	90	27/07/2023	3:00	0.4	112.5	28/07/2023	3:00	0.9	112.5
25/07/2023	4:00	0.9	135	26/07/2023	4:00	1.3	135	27/07/2023	4:00	0.4	112.5	28/07/2023	4:00	1.3	45
25/07/2023	5:00	0.9	112.5	26/07/2023	5:00	1.8	67.5	27/07/2023	5:00	0.4	112.5	28/07/2023	5:00	1.3	90
25/07/2023	6:00	0.4	112.5	26/07/2023	6:00	2.2	90	27/07/2023	6:00	0.4	135	28/07/2023	6:00	1.8	90
25/07/2023	7:00	0.9	45	26/07/2023	7:00	1.8	135	27/07/2023	7:00	0.4	112.5	28/07/2023	7:00	1.3	90
25/07/2023	8:00	0.4	112.5	26/07/2023	8:00	1.3	135	27/07/2023	8:00	0.4	112.5	28/07/2023	8:00	1.3	90
25/07/2023	9:00	0.4	157.5	26/07/2023	9:00	1.8	90	27/07/2023	9:00	0.4	67.5	28/07/2023	9:00	1.3	90
25/07/2023	10:00	0.4	292.5	26/07/2023	10:00	0.9	112.5	27/07/2023	10:00	1.8	157.5	28/07/2023	10:00	0.9	112.5
25/07/2023	11:00	0.4	112.5	26/07/2023	11:00	1.8	337.5	27/07/2023	11:00	1.8	112.5	28/07/2023	11:00	1.3	90
25/07/2023	12:00	0.4	247.5	26/07/2023	12:00	1.3	112.5	27/07/2023	12:00	2.7	180	28/07/2023	12:00	2.2	112.5
25/07/2023	13:00	0.9	315	26/07/2023	13:00	1.3	90	27/07/2023	13:00	1.3	112.5	28/07/2023	13:00	2.2	112.5
25/07/2023	14:00	0.4	315	26/07/2023	14:00	0.9	112.5	27/07/2023	14:00	1.3	90	28/07/2023	14:00	2.2	112.5
25/07/2023	15:00	0.4	135	26/07/2023	15:00	0.9	112.5	27/07/2023	15:00	1.3	135	28/07/2023	15:00	2.7	135
25/07/2023	16:00	0.9	112.5	26/07/2023	16:00	0.9	112.5	27/07/2023	16:00	1.3	112.5	28/07/2023	16:00	1.3	135
25/07/2023	17:00	1.3	67.5	26/07/2023	17:00	0.9	112.5	27/07/2023	17:00	1.8	135	28/07/2023	17:00	1.3	135
25/07/2023	18:00	1.3	247.5	26/07/2023	18:00	1.3	135	27/07/2023	18:00	1.3	135	28/07/2023	18:00	1.8	90
25/07/2023	19:00	1.3	22.5	26/07/2023	19:00	1.3	90	27/07/2023	19:00	0.9	135	28/07/2023	19:00	1.8	135
25/07/2023	20:00	1.7	112.5	26/07/2023	20:00	1.8	112.5	27/07/2023	20:00	0.9	157.5	28/07/2023	20:00	1.3	112.5
25/07/2023	21:00	0.9	135	26/07/2023	21:00	1.8	112.5	27/07/2023	21:00	0.9	135	28/07/2023	21:00	0.9	112.5
25/07/2023	22:00	0.9	112.5	26/07/2023	22:00	1.3	112.5	27/07/2023	22:00	0.9	112.5	28/07/2023	22:00	0.9	112.5
25/07/2023	23:00	0.4	112.5	26/07/2023	23:00	0.9	112.5	27/07/2023	23:00	0.9	270	28/07/2023	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
29/07/2023	0:00	0.4	112.5	30/07/2023	0:00	0.4	315	31/07/2023	0:00	1.3	247.5				
29/07/2023	1:00	0.4	112.5	30/07/2023	1:00	0.4	67.5	31/07/2023	1:00	0.9	270				
29/07/2023	2:00	0.9	90	30/07/2023	2:00	0.9	112.5	31/07/2023	2:00	0.4	247.5				
29/07/2023	3:00	0.4	112.5	30/07/2023	3:00	0.9	270	31/07/2023	3:00	0.4	247.5				
29/07/2023	4:00	0.4	112.5	30/07/2023	4:00	0.9	45	31/07/2023	4:00	0.9	247.5				
29/07/2023	5:00	0.4	112.5	30/07/2023	5:00	0.4	67.5	31/07/2023	5:00	0.9	270				
29/07/2023	6:00	0.9	135	30/07/2023	6:00	0.4	247.5	31/07/2023	6:00	1.3	247.5				
29/07/2023	7:00	0.4	112.5	30/07/2023	7:00	1.3	225	31/07/2023	7:00	0.9	270				
29/07/2023	8:00	0.4	112.5	30/07/2023	8:00	1.3	270	31/07/2023	8:00	1.8	247.5				
29/07/2023	9:00	0.9	67.5	30/07/2023	9:00	0.4	225	31/07/2023	9:00	0.9	225				
29/07/2023	10:00	1.3	157.5	30/07/2023	10:00	0.9	45	31/07/2023	10:00	1.3	247.5				
29/07/2023	11:00	1.3	112.5	30/07/2023	11:00	0.9	67.5	31/07/2023	11:00	0.9	247.5				
29/07/2023	12:00	2.2	180	30/07/2023	12:00	0.9	270	31/07/2023	12:00	0.9	247.5				
29/07/2023	13:00	1.3	112.5	30/07/2023	13:00	0.4	247.5	31/07/2023	13:00	0.9	225				
29/07/2023	14:00	1.3	90	30/07/2023	14:00	0.9	90	31/07/2023	14:00	0.9	270				
29/07/2023	15:00	1.3	135	30/07/2023	15:00	0.4	90	31/07/2023	15:00	0.9	45				
29/07/2023	16:00	1.3	112.5	30/07/2023	16:00	0.4	292.5	31/07/2023	16:00	0.9	45				
29/07/2023	17:00	1.8	135	30/07/2023	17:00	0.9	247.5	31/07/2023	17:00	1.3	45				
29/07/2023	18:00	1.3	135	30/07/2023	18:00	1.8	247.5	31/07/2023	18:00	1.3	22.5				
29/07/2023	19:00	0.9	135	30/07/2023	19:00	1.3	45	31/07/2023	19:00	1.3	67.5				
29/07/2023	20:00	0.4	157.5	30/07/2023	20:00	0.9	45	31/07/2023	20:00	0.9	45				
29/07/2023	21:00	0.4	135	30/07/2023	21:00	0.9	45	31/07/2023	21:00	0.4	22.5				
29/07/2023	22:00	0.4	112.5	30/07/2023	22:00	0.9	22.5	31/07/2023	22:00	0.4	22.5				
29/07/2023	23:00	0.9	270	30/07/2023	23:00	1.3	45	31/07/2023	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
01/08/2023	0:00	1.3	67.5	02/08/2023	0:00	1.8	135	03/08/2023	0:00	0.9	112.5	04/08/2023	0:00	0.9	135
01/08/2023	1:00	1.3	90	02/08/2023	1:00	2.2	90	03/08/2023	1:00	0.4	112.5	04/08/2023	1:00	0.4	270
01/08/2023	2:00	2.2	90	02/08/2023	2:00	2.2	90	03/08/2023	2:00	0.4	112.5	04/08/2023	2:00	0.4	270
01/08/2023	3:00	1.3	67.5	02/08/2023	3:00	1.8	90	03/08/2023	3:00	0.9	112.5	04/08/2023	3:00	0.4	270
01/08/2023	4:00	1.8	22.5	02/08/2023	4:00	1.3	112.5	03/08/2023	4:00	0.4	67.5	04/08/2023	4:00	0.9	247.5
01/08/2023	5:00	1.3	67.5	02/08/2023	5:00	1.8	112.5	03/08/2023	5:00	0.4	67.5	04/08/2023	5:00	0.4	270
01/08/2023	6:00	1.3	90	02/08/2023	6:00	1.3	45	03/08/2023	6:00	0.9	112.5	04/08/2023	6:00	0.9	270
01/08/2023	7:00	1.8	135	02/08/2023	7:00	1.3	292.5	03/08/2023	7:00	0.9	112.5	04/08/2023	7:00	1.3	247.5
01/08/2023	8:00	1.8	67.5	02/08/2023	8:00	0.9	90	03/08/2023	8:00	1.3	112.5	04/08/2023	8:00	0.9	270
01/08/2023	9:00	1.3	225	02/08/2023	9:00	1.8	45	03/08/2023	9:00	0.9	45	04/08/2023	9:00	1.3	270
01/08/2023	10:00	1.3	157.5	02/08/2023	10:00	1.8	112.5	03/08/2023	10:00	0.4	67.5	04/08/2023	10:00	1.8	247.5
01/08/2023	11:00	1.8	112.5	02/08/2023	11:00	0.9	67.5	03/08/2023	11:00	0.4	67.5	04/08/2023	11:00	2.7	247.5
01/08/2023	12:00	1.8	67.5	02/08/2023	12:00	0.9	45	03/08/2023	12:00	1.3	90	04/08/2023	12:00	4	90
01/08/2023	13:00	2.2	22.5	02/08/2023	13:00	0.9	22.5	03/08/2023	13:00	0.9	67.5	04/08/2023	13:00	4.5	90
01/08/2023	14:00	2.7	45	02/08/2023	14:00	0.9	292.5	03/08/2023	14:00	0.9	67.5	04/08/2023	14:00	4	67.5
01/08/2023	15:00	2.2	45	02/08/2023	15:00	1.3	90	03/08/2023	15:00	1.3	135	04/08/2023	15:00	3.1	112.5
01/08/2023	16:00	2.7	45	02/08/2023	16:00	0.4	45	03/08/2023	16:00	0.9	112.5	04/08/2023	16:00	4	112.5
01/08/2023	17:00	3.1	90	02/08/2023	17:00	0.9	157.5	03/08/2023	17:00	1.3	90	04/08/2023	17:00	4	337.5
01/08/2023	18:00	3.1	90	02/08/2023	18:00	0.9	247.5	03/08/2023	18:00	0.9	112.5	04/08/2023	18:00	3.6	67.5
01/08/2023	19:00	2.7	112.5	02/08/2023	19:00	1.3	292.5	03/08/2023	19:00	1.3	90	04/08/2023	19:00	3.1	315
01/08/2023	20:00	2.2	45	02/08/2023	20:00	0.9	90	03/08/2023	20:00	0.9	112.5	04/08/2023	20:00	1.3	22.5
01/08/2023	21:00	3.1	90	02/08/2023	21:00	0.4	135	03/08/2023	21:00	1.3	112.5	04/08/2023	21:00	4	90
01/08/2023	22:00	2.7	67.5	02/08/2023	22:00	0.9	135	03/08/2023	22:00	0.9	112.5	04/08/2023	22:00	3.6	202.5
01/08/2023	23:00	2.2	45	02/08/2023	23:00	1.8	135	03/08/2023	23:00	1.8	90	04/08/2023	23:00	3.6	90

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
05/08/2023	0:00	1.8	337.5	06/08/2023	0:00	1.8	337.5	07/08/2023	0:00	1.3	247.5	08/08/2023	0:00	1.8	90
05/08/2023	1:00	4.9	22.5	06/08/2023	1:00	1.8	22.5	07/08/2023	1:00	1.3	247.5	08/08/2023	1:00	1.8	135
05/08/2023	2:00	2.2	337.5	06/08/2023	2:00	2.7	315	07/08/2023	2:00	1.3	247.5	08/08/2023	2:00	1.3	135
05/08/2023	3:00	3.1	22.5	06/08/2023	3:00	2.7	247.5	07/08/2023	3:00	1.3	270	08/08/2023	3:00	1.8	90
05/08/2023	4:00	2.7	67.5	06/08/2023	4:00	2.2	247.5	07/08/2023	4:00	1.3	247.5	08/08/2023	4:00	2.2	90
05/08/2023	5:00	2.2	112.5	06/08/2023	5:00	2.7	247.5	07/08/2023	5:00	1.3	225	08/08/2023	5:00	3.1	315
05/08/2023	6:00	2.2	90	06/08/2023	6:00	1.8	202.5	07/08/2023	6:00	1.8	270	08/08/2023	6:00	1.3	112.5
05/08/2023	7:00	1.8	135	06/08/2023	7:00	1.8	270	07/08/2023	7:00	2.2	270	08/08/2023	7:00	1.8	135
05/08/2023	8:00	2.2	337.5	06/08/2023	8:00	1.3	270	07/08/2023	8:00	2.7	270	08/08/2023	8:00	1.8	202.5
05/08/2023	9:00	1.3	90	06/08/2023	9:00	1.8	202.5	07/08/2023	9:00	1.8	247.5	08/08/2023	9:00	1.8	135
05/08/2023	10:00	2.2	135	06/08/2023	10:00	0.9	270	07/08/2023	10:00	1.3	247.5	08/08/2023	10:00	2.2	202.5
05/08/2023	11:00	2.7	135	06/08/2023	11:00	0.9	112.5	07/08/2023	11:00	1.3	247.5	08/08/2023	11:00	2.2	135
05/08/2023	12:00	3.1	135	06/08/2023	12:00	0.9	135	07/08/2023	12:00	1.3	247.5	08/08/2023	12:00	2.7	135
05/08/2023	13:00	2.7	202.5	06/08/2023	13:00	0.9	135	07/08/2023	13:00	1.3	247.5	08/08/2023	13:00	2.7	157.5
05/08/2023	14:00	3.1	135	06/08/2023	14:00	1.3	270	07/08/2023	14:00	1.8	247.5	08/08/2023	14:00	2.2	112.5
05/08/2023	15:00	3.1	135	06/08/2023	15:00	1.3	270	07/08/2023	15:00	1.8	337.5	08/08/2023	15:00	1.8	135
05/08/2023	16:00	2.7	112.5	06/08/2023	16:00	1.3	112.5	07/08/2023	16:00	1.8	45	08/08/2023	16:00	1.8	90
05/08/2023	17:00	3.1	202.5	06/08/2023	17:00	1.3	112.5	07/08/2023	17:00	1.3	112.5	08/08/2023	17:00	1.3	112.5
05/08/2023	18:00	3.1	112.5	06/08/2023	18:00	1.3	135	07/08/2023	18:00	1.3	157.5	08/08/2023	18:00	1.8	157.5
05/08/2023	19:00	3.6	112.5	06/08/2023	19:00	1.3	135	07/08/2023	19:00	1.8	112.5	08/08/2023	19:00	1.3	157.5
05/08/2023	20:00	4.5	135	06/08/2023	20:00	1.8	202.5	07/08/2023	20:00	1.8	112.5	08/08/2023	20:00	1.8	135
05/08/2023	21:00	4	135	06/08/2023	21:00	0.9	157.5	07/08/2023	21:00	2.2	135	08/08/2023	21:00	1.3	135
05/08/2023	22:00	3.6	292.5	06/08/2023	22:00	0.9	135	07/08/2023	22:00	0.9	135	08/08/2023	22:00	1.8	67.5
05/08/2023	23:00	3.1	270	06/08/2023	23:00	1.3	157.5	07/08/2023	23:00	1.3	202.5	08/08/2023	23:00	2.2	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
09/08/2023	0:00	3.1	270	10/08/2023	0:00	0.9	67.5	11/08/2023	0:00	1.3	157.5	12/08/2023	0:00	0.9	112.5
09/08/2023	1:00	1.8	270	10/08/2023	1:00	0.9	112.5	11/08/2023	1:00	0.9	135	12/08/2023	1:00	0.9	112.5
09/08/2023	2:00	2.2	112.5	10/08/2023	2:00	0.9	22.5	11/08/2023	2:00	0.9	157.5	12/08/2023	2:00	0.4	135
09/08/2023	3:00	2.2	270	10/08/2023	3:00	0.9	90	11/08/2023	3:00	0.4	202.5	12/08/2023	3:00	0.9	157.5
09/08/2023	4:00	1.8	270	10/08/2023	4:00	0.9	292.5	11/08/2023	4:00	0.4	135	12/08/2023	4:00	0.4	135
09/08/2023	5:00	1.8	337.5	10/08/2023	5:00	0.4	292.5	11/08/2023	5:00	1.3	315	12/08/2023	5:00	0.4	202.5
09/08/2023	6:00	1.8	337.5	10/08/2023	6:00	0.4	292.5	11/08/2023	6:00	1.8	112.5	12/08/2023	6:00	0.4	247.5
09/08/2023	7:00	1.8	225	10/08/2023	7:00	0.9	22.5	11/08/2023	7:00	1.3	225	12/08/2023	7:00	0.4	247.5
09/08/2023	8:00	1.8	22.5	10/08/2023	8:00	0.9	22.5	11/08/2023	8:00	2.7	225	12/08/2023	8:00	0.4	247.5
09/08/2023	9:00	1.3	22.5	10/08/2023	9:00	0.9	45	11/08/2023	9:00	2.2	270	12/08/2023	9:00	0.9	247.5
09/08/2023	10:00	1.3	337.5	10/08/2023	10:00	0.9	22.5	11/08/2023	10:00	1.8	270	12/08/2023	10:00	1.3	202.5
09/08/2023	11:00	0.9	270	10/08/2023	11:00	0.4	22.5	11/08/2023	11:00	1.8	270	12/08/2023	11:00	1.8	202.5
09/08/2023	12:00	0.9	337.5	10/08/2023	12:00	0.4	45	11/08/2023	12:00	1.3	270	12/08/2023	12:00	1.3	225
09/08/2023	13:00	1.3	22.5	10/08/2023	13:00	0.4	337.5	11/08/2023	13:00	1.3	270	12/08/2023	13:00	2.2	247.5
09/08/2023	14:00	1.8	247.5	10/08/2023	14:00	0.9	270	11/08/2023	14:00	1.3	202.5	12/08/2023	14:00	1.8	247.5
09/08/2023	15:00	0.9	315	10/08/2023	15:00	0.9	112.5	11/08/2023	15:00	1.3	202.5	12/08/2023	15:00	1.3	247.5
09/08/2023	16:00	0.9	22.5	10/08/2023	16:00	1.3	90	11/08/2023	16:00	1.3	247.5	12/08/2023	16:00	1.8	247.5
09/08/2023	17:00	0.4	0	10/08/2023	17:00	0.9	112.5	11/08/2023	17:00	0.9	247.5	12/08/2023	17:00	0.4	247.5
09/08/2023	18:00	0.9	337.5	10/08/2023	18:00	0.9	112.5	11/08/2023	18:00	0.9	247.5	12/08/2023	18:00	0.4	337.5
09/08/2023	19:00	1.3	45	10/08/2023	19:00	0.4	112.5	11/08/2023	19:00	0.4	247.5	12/08/2023	19:00	0.4	22.5
09/08/2023	20:00	0.9	202.5	10/08/2023	20:00	0.4	135	11/08/2023	20:00	0.4	247.5	12/08/2023	20:00	0.4	225
09/08/2023	21:00	0.4	337.5	10/08/2023	21:00	0.4	135	11/08/2023	21:00	0.4	247.5	12/08/2023	21:00	0.9	112.5
09/08/2023	22:00	0.4	225	10/08/2023	22:00	0.9	112.5	11/08/2023	22:00	0.9	247.5	12/08/2023	22:00	0.4	270
09/08/2023	23:00	0.4	270	10/08/2023	23:00	0.4	112.5	11/08/2023	23:00	0.9	247.5	12/08/2023	23:00	1.3	90

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
13/08/2023	0:00	0.4	0	14/08/2023	0:00	1.3	270	15/08/2023	0:00	0.9	22.5	16/08/2023	0:00	0.4	270
13/08/2023	1:00	0.9	337.5	14/08/2023	1:00	1.3	270	15/08/2023	1:00	0.9	337.5	16/08/2023	1:00	0.9	247.5
13/08/2023	2:00	0.9	270	14/08/2023	2:00	0.9	135	15/08/2023	2:00	0.4	337.5	16/08/2023	2:00	0.4	225
13/08/2023	3:00	0.4	22.5	14/08/2023	3:00	1.3	180	15/08/2023	3:00	0.4	337.5	16/08/2023	3:00	0.4	292.5
13/08/2023	4:00	0.9	202.5	14/08/2023	4:00	1.3	270	15/08/2023	4:00	1.3	337.5	16/08/2023	4:00	0.9	315
13/08/2023	5:00	0.4	270	14/08/2023	5:00	0.9	22.5	15/08/2023	5:00	0.9	45	16/08/2023	5:00	0.9	247.5
13/08/2023	6:00	0.4	247.5	14/08/2023	6:00	1.3	22.5	15/08/2023	6:00	0.9	292.5	16/08/2023	6:00	1.3	225
13/08/2023	7:00	0.9	247.5	14/08/2023	7:00	1.3	292.5	15/08/2023	7:00	0.4	337.5	16/08/2023	7:00	1.3	157.5
13/08/2023	8:00	0.9	247.5	14/08/2023	8:00	1.8	22.5	15/08/2023	8:00	0.4	22.5	16/08/2023	8:00	1.3	202.5
13/08/2023	9:00	1.3	315	14/08/2023	9:00	1.8	0	15/08/2023	9:00	0.4	45	16/08/2023	9:00	0.9	202.5
13/08/2023	10:00	1.3	270	14/08/2023	10:00	1.3	270	15/08/2023	10:00	0.4	45	16/08/2023	10:00	1.3	247.5
13/08/2023	11:00	1.3	270	14/08/2023	11:00	2.2	292.5	15/08/2023	11:00	0.4	315	16/08/2023	11:00	0.9	90
13/08/2023	12:00	0.9	337.5	14/08/2023	12:00	2.2	247.5	15/08/2023	12:00	0.9	202.5	16/08/2023	12:00	0.4	90
13/08/2023	13:00	1.3	247.5	14/08/2023	13:00	1.8	337.5	15/08/2023	13:00	0.4	247.5	16/08/2023	13:00	0.4	135
13/08/2023	14:00	1.3	22.5	14/08/2023	14:00	1.8	202.5	15/08/2023	14:00	0.9	202.5	16/08/2023	14:00	0.9	135
13/08/2023	15:00	2.7	337.5	14/08/2023	15:00	2.2	337.5	15/08/2023	15:00	1.8	270	16/08/2023	15:00	0.4	135
13/08/2023	16:00	2.2	315	14/08/2023	16:00	1.8	337.5	15/08/2023	16:00	1.8	67.5	16/08/2023	16:00	1.8	337.5
13/08/2023	17:00	1.8	22.5	14/08/2023	17:00	1.3	292.5	15/08/2023	17:00	1.3	270	16/08/2023	17:00	1.3	22.5
13/08/2023	18:00	1.8	315	14/08/2023	18:00	2.2	270	15/08/2023	18:00	1.3	135	16/08/2023	18:00	0.9	315
13/08/2023	19:00	1.8	225	14/08/2023	19:00	2.2	270	15/08/2023	19:00	0.9	135	16/08/2023	19:00	0.9	112.5
13/08/2023	20:00	2.2	247.5	14/08/2023	20:00	2.2	202.5	15/08/2023	20:00	0.9	112.5	16/08/2023	20:00	0.4	315
13/08/2023	21:00	3.6	270	14/08/2023	21:00	1.8	270	15/08/2023	21:00	0.4	90	16/08/2023	21:00	0.9	292.5
13/08/2023	22:00	2.2	225	14/08/2023	22:00	1.8	270	15/08/2023	22:00	0.9	112.5	16/08/2023	22:00	2.7	270
13/08/2023	23:00	2.2	247.5	14/08/2023	23:00	1.3	270	15/08/2023	23:00	1.3	135	16/08/2023	23:00	2.7	202.5

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
17/08/2023	0:00	2.2	247.5	18/08/2023	0:00	1.8	247.5	19/08/2023	0:00	1.8	135	20/08/2023	0:00	1.3	247.5
17/08/2023	1:00	2.7	337.5	18/08/2023	1:00	1.3	225	19/08/2023	1:00	1.3	135	20/08/2023	1:00	1.3	247.5
17/08/2023	2:00	2.2	270	18/08/2023	2:00	1.3	247.5	19/08/2023	2:00	1.3	202.5	20/08/2023	2:00	2.2	270
17/08/2023	3:00	1.8	157.5	18/08/2023	3:00	1.3	270	19/08/2023	3:00	1.3	247.5	20/08/2023	3:00	0.4	270
17/08/2023	4:00	2.2	270	18/08/2023	4:00	1.3	270	19/08/2023	4:00	0.4	247.5	20/08/2023	4:00	0.4	315
17/08/2023	5:00	1.8	270	18/08/2023	5:00	1.8	247.5	19/08/2023	5:00	0.4	157.5	20/08/2023	5:00	0.4	112.5
17/08/2023	6:00	0.4	270	18/08/2023	6:00	1.3	270	19/08/2023	6:00	0.9	202.5	20/08/2023	6:00	0.4	157.5
17/08/2023	7:00	0.4	247.5	18/08/2023	7:00	2.7	247.5	19/08/2023	7:00	0.4	225	20/08/2023	7:00	0.4	202.5
17/08/2023	8:00	0.4	247.5	18/08/2023	8:00	1.8	247.5	19/08/2023	8:00	0.4	225	20/08/2023	8:00	0.4	112.5
17/08/2023	9:00	0.4	270	18/08/2023	9:00	2.7	247.5	19/08/2023	9:00	0.4	225	20/08/2023	9:00	0.4	247.5
17/08/2023	10:00	0.9	270	18/08/2023	10:00	2.2	270	19/08/2023	10:00	0.4	225	20/08/2023	10:00	0.4	270
17/08/2023	11:00	1.3	225	18/08/2023	11:00	1.3	270	19/08/2023	11:00	0.9	270	20/08/2023	11:00	0.4	247.5
17/08/2023	12:00	0.9	225	18/08/2023	12:00	1.8	247.5	19/08/2023	12:00	0.9	157.5	20/08/2023	12:00	0.4	247.5
17/08/2023	13:00	0.9	225	18/08/2023	13:00	2.2	247.5	19/08/2023	13:00	0.9	135	20/08/2023	13:00	0.4	247.5
17/08/2023	14:00	0.9	315	18/08/2023	14:00	1.8	247.5	19/08/2023	14:00	1.3	112.5	20/08/2023	14:00	0.4	67.5
17/08/2023	15:00	0.9	315	18/08/2023	15:00	1.3	247.5	19/08/2023	15:00	1.3	112.5	20/08/2023	15:00	0.4	112.5
17/08/2023	16:00	0.9	315	18/08/2023	16:00	2.2	247.5	19/08/2023	16:00	0.9	135	20/08/2023	16:00	0.4	270
17/08/2023	17:00	0.4	157.5	18/08/2023	17:00	1.3	225	19/08/2023	17:00	0.4	157.5	20/08/2023	17:00	0.4	315
17/08/2023	18:00	0.4	157.5	18/08/2023	18:00	1.8	90	19/08/2023	18:00	0.4	157.5	20/08/2023	18:00	1.3	247.5
17/08/2023	19:00	0.4	202.5	18/08/2023	19:00	1.3	315	19/08/2023	19:00	0.4	135	20/08/2023	19:00	0.9	22.5
17/08/2023	20:00	0.4	202.5	18/08/2023	20:00	2.2	112.5	19/08/2023	20:00	0.9	202.5	20/08/2023	20:00	0.4	45
17/08/2023	21:00	1.3	292.5	18/08/2023	21:00	2.2	157.5	19/08/2023	21:00	1.3	135	20/08/2023	21:00	1.3	45
17/08/2023	22:00	2.2	247.5	18/08/2023	22:00	1.3	202.5	19/08/2023	22:00	0.9	270	20/08/2023	22:00	0.9	90
17/08/2023	23:00	2.2	225	18/08/2023	23:00	1.3	112.5	19/08/2023	23:00	0.9	270	20/08/2023	23:00	0.9	90

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
21/08/2023	0:00	2.7	247.5	22/08/2023	0:00	0.4	135	23/08/2023	0:00	0.4	247.5	24/07/2023	0:00	0.9	22.5
21/08/2023	1:00	2.2	225	22/08/2023	1:00	0.4	112.5	23/08/2023	1:00	0.4	225	24/08/2023	1:00	0.4	337.5
21/08/2023	2:00	1.8	247.5	22/08/2023	2:00	0.4	135	23/08/2023	2:00	0.9	270	24/08/2023	2:00	0.4	45
21/08/2023	3:00	0.9	247.5	22/08/2023	3:00	0.9	135	23/08/2023	3:00	1.3	247.5	24/08/2023	3:00	1.3	67.5
21/08/2023	4:00	0.9	247.5	22/08/2023	4:00	0.4	112.5	23/08/2023	4:00	1.3	135	24/08/2023	4:00	0.9	112.5
21/08/2023	5:00	1.8	247.5	22/08/2023	5:00	0.4	157.5	23/08/2023	5:00	1.8	112.5	24/08/2023	5:00	1.8	135
21/08/2023	6:00	1.3	180	22/08/2023	6:00	0.4	135	23/08/2023	6:00	1.3	135	24/08/2023	6:00	1.3	90
21/08/2023	7:00	1.3	247.5	22/08/2023	7:00	0.4	112.5	23/08/2023	7:00	1.3	135	24/08/2023	7:00	1.3	337.5
21/08/2023	8:00	1.3	247.5	22/08/2023	8:00	0.9	292.5	23/08/2023	8:00	0.9	202.5	24/08/2023	8:00	1.3	90
21/08/2023	9:00	1.8	225	22/08/2023	9:00	0.4	112.5	23/08/2023	9:00	1.3	135	24/08/2023	9:00	1.3	22.5
21/08/2023	10:00	1.8	225	22/08/2023	10:00	0.4	135	23/08/2023	10:00	2.7	135	24/08/2023	10:00	1.8	112.5
21/08/2023	11:00	0.4	225	22/08/2023	11:00	0.4	112.5	23/08/2023	11:00	1.3	112.5	24/08/2023	11:00	1.3	67.5
21/08/2023	12:00	0.9	202.5	22/08/2023	12:00	0.9	135	23/08/2023	12:00	0.4	90	24/08/2023	12:00	1.3	45
21/08/2023	13:00	0.4	225	22/08/2023	13:00	0.9	90	23/08/2023	13:00	0.9	337.5	24/08/2023	13:00	1.3	112.5
21/08/2023	14:00	0.9	225	22/08/2023	14:00	0.4	112.5	23/08/2023	14:00	0.4	90	24/08/2023	14:00	1.3	45
21/08/2023	15:00	0.9	247.5	22/08/2023	15:00	0.4	45	23/08/2023	15:00	0.4	45	24/08/2023	15:00	1.8	90
21/08/2023	16:00	1.3	315	22/08/2023	16:00	0.9	247.5	23/08/2023	16:00	0.4	90	24/08/2023	16:00	1.8	45
21/08/2023	17:00	0.9	112.5	22/08/2023	17:00	0.4	247.5	23/08/2023	17:00	0.4	67.5	24/08/2023	17:00	1.3	67.5
21/08/2023	18:00	1.3	157.5	22/08/2023	18:00	0.4	247.5	23/08/2023	18:00	0.4	135	24/08/2023	18:00	2.2	135
21/08/2023	19:00	1.3	202.5	22/08/2023	19:00	0.9	247.5	23/08/2023	19:00	0.4	90	24/08/2023	19:00	1.8	90
21/08/2023	20:00	0.9	112.5	22/08/2023	20:00	0.9	202.5	23/08/2023	20:00	0.4	112.5	24/08/2023	20:00	1.3	90
21/08/2023	21:00	0.4	135	22/08/2023	21:00	1.3	90	23/08/2023	21:00	0.9	112.5	24/08/2023	21:00	1.8	67.5
21/08/2023	22:00	0.9	112.5	22/08/2023	22:00	0.9	315	23/08/2023	22:00	1.3	247.5	24/08/2023	22:00	1.3	112.5
21/08/2023	23:00	0.9	135	22/08/2023	23:00	0.9	112.5	23/08/2023	23:00	1.8	135	24/08/2023	23:00	0.4	90

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
25/08/2023	0:00	1.3	135	26/08/2023	0:00	0.9	157.5	27/08/2023	0:00	1.3	90	28/08/2023	0:00	2.2	135
25/08/2023	1:00	0.9	112.5	26/08/2023	1:00	0.9	202.5	27/08/2023	1:00	1.3	112.5	28/08/2023	1:00	1.3	90
25/08/2023	2:00	1.3	157.5	26/08/2023	2:00	0.4	112.5	27/08/2023	2:00	1.3	90	28/08/2023	2:00	1.3	135
25/08/2023	3:00	0.9	135	26/08/2023	3:00	1.3	157.5	27/08/2023	3:00	1.3	112.5	28/08/2023	3:00	0.9	112.5
25/08/2023	4:00	1.3	112.5	26/08/2023	4:00	1.3	90	27/08/2023	4:00	1.3	112.5	28/08/2023	4:00	1.8	90
25/08/2023	5:00	1.3	157.5	26/08/2023	5:00	0.9	90	27/08/2023	5:00	1.3	112.5	28/08/2023	5:00	1.3	112.5
25/08/2023	6:00	1.3	112.5	26/08/2023	6:00	1.3	22.5	27/08/2023	6:00	1.8	135	28/08/2023	6:00	1.3	135
25/08/2023	7:00	1.3	90	26/08/2023	7:00	1.3	90	27/08/2023	7:00	1.3	112.5	28/08/2023	7:00	1.3	180
25/08/2023	8:00	1.8	135	26/08/2023	8:00	1.8	45	27/08/2023	8:00	1.3	112.5	28/08/2023	8:00	0.9	90
25/08/2023	9:00	1.8	90	26/08/2023	9:00	1.8	90	27/08/2023	9:00	1.3	67.5	28/08/2023	9:00	0.9	135
25/08/2023	10:00	1.3	45	26/08/2023	10:00	0.9	90	27/08/2023	10:00	2.2	157.5	28/08/2023	10:00	1.8	45
25/08/2023	11:00	2.2	90	26/08/2023	11:00	1.3	112.5	27/08/2023	11:00	1.3	112.5	28/08/2023	11:00	1.3	135
25/08/2023	12:00	1.8	112.5	26/08/2023	12:00	0.9	202.5	27/08/2023	12:00	1.3	180	28/08/2023	12:00	1.8	112.5
25/08/2023	13:00	1.3	90	26/08/2023	13:00	1.3	45	27/08/2023	13:00	1.3	112.5	28/08/2023	13:00	1.8	112.5
25/08/2023	14:00	1.3	67.5	26/08/2023	14:00	1.3	45	27/08/2023	14:00	0.9	90	28/08/2023	14:00	1.3	90
25/08/2023	15:00	1.3	90	26/08/2023	15:00	1.8	90	27/08/2023	15:00	1.8	135	28/08/2023	15:00	0.9	135
25/08/2023	16:00	1.3	90	26/08/2023	16:00	2.2	112.5	27/08/2023	16:00	1.3	112.5	28/08/2023	16:00	0.4	135
25/08/2023	17:00	0.9	90	26/08/2023	17:00	2.2	112.5	27/08/2023	17:00	1.3	135	28/08/2023	17:00	0.9	112.5
25/08/2023	18:00	0.9	112.5	26/08/2023	18:00	1.8	112.5	27/08/2023	18:00	1.3	135	28/08/2023	18:00	0.9	112.5
25/08/2023	19:00	0.9	112.5	26/08/2023	19:00	2.2	112.5	27/08/2023	19:00	0.9	135	28/08/2023	19:00	0.9	112.5
25/08/2023	20:00	0.9	157.5	26/08/2023	20:00	1.8	67.5	27/08/2023	20:00	0.9	157.5	28/08/2023	20:00	0.4	90
25/08/2023	21:00	1.3	112.5	26/08/2023	21:00	1.3	112.5	27/08/2023	21:00	1.8	135	28/08/2023	21:00	1.8	112.5
25/08/2023	22:00	0.9	90	26/08/2023	22:00	1.3	112.5	27/08/2023	22:00	2.2	112.5	28/08/2023	22:00	1.8	112.5
25/08/2023	23:00	0.9	112.5	26/08/2023	23:00	0.9	67.5	27/08/2023	23:00	2.2	270	28/08/2023	23:00	1.3	90

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
29/08/2023	0:00	1.3	90	30/08/2023	0:00	0.9	180	31/08/2023	0:00	1.8	292.5				
29/08/2023	1:00	1.3	135	30/08/2023	1:00	0.4	157.5	31/08/2023	1:00	1.3	247.5				
29/08/2023	2:00	1.3	67.5	30/08/2023	2:00	0.9	135	31/08/2023	2:00	1.8	247.5				
29/08/2023	3:00	0.9	90	30/08/2023	3:00	1.3	135	31/08/2023	3:00	1.8	292.5				
29/08/2023	4:00	1.3	270	30/08/2023	4:00	0.9	135	31/08/2023	4:00	2.2	112.5				
29/08/2023	5:00	1.3	112.5	30/08/2023	5:00	0.9	112.5	31/08/2023	5:00	2.2	67.5				
29/08/2023	6:00	1.8	22.5	30/08/2023	6:00	0.9	67.5	31/08/2023	6:00	2.2	45				
29/08/2023	7:00	2.2	90	30/08/2023	7:00	1.8	90	31/08/2023	7:00	1.8	112.5				
29/08/2023	8:00	1.3	22.5	30/08/2023	8:00	1.8	135	31/08/2023	8:00	2.7	45				
29/08/2023	9:00	1.8	22.5	30/08/2023	9:00	1.8	45	31/08/2023	9:00	2.7	22.5				
29/08/2023	10:00	1.3	22.5	30/08/2023	10:00	1.3	90	31/08/2023	10:00	2.2	45				
29/08/2023	11:00	1.8	315	30/08/2023	11:00	1.8	112.5	31/08/2023	11:00	2.2	135				
29/08/2023	12:00	2.7	315	30/08/2023	12:00	1.8	90	31/08/2023	12:00	1.8	315				
29/08/2023	13:00	2.2	315	30/08/2023	13:00	1.3	45	31/08/2023	13:00	2.7	112.5				
29/08/2023	14:00	1.8	247.5	30/08/2023	14:00	2.2	22.5	31/08/2023	14:00	3.1	112.5				
29/08/2023	15:00	1.8	247.5	30/08/2023	15:00	1.3	67.5	31/08/2023	15:00	2.2	157.5				
29/08/2023	16:00	1.8	157.5	30/08/2023	16:00	2.2	135	31/08/2023	16:00	4.5	247.5				
29/08/2023	17:00	2.2	135	30/08/2023	17:00	3.1	135	31/08/2023	17:00	5.4	292.5				
29/08/2023	18:00	1.3	157.5	30/08/2023	18:00	2.7	180	31/08/2023	18:00	3.1	112.5				
29/08/2023	19:00	2.2	135	30/08/2023	19:00	3.1	67.5	31/08/2023	19:00	3.1	67.5				
29/08/2023	20:00	3.1	112.5	30/08/2023	20:00	3.6	315	31/08/2023	20:00	4	22.5				
29/08/2023	21:00	2.7	135	30/08/2023	21:00	1.8	67.5	31/08/2023	21:00	3.6	67.5				
29/08/2023	22:00	3.1	157.5	30/08/2023	22:00	1.8	22.5	31/08/2023	22:00	4.5	135				
29/08/2023	23:00	3.6	157.5	30/08/2023	23:00	1.8	337.5	31/08/2023	23:00	3.6	67.5				

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
01/09/2023	0:00	0.9	247.5	02/09/2023	0:00	4.9	270	03/09/2023	0:00	3.6	67.5	04/09/2023	0:00	0.4	112.5
01/09/2023	1:00	0.9	270	02/09/2023	1:00	4.9	247.5	03/09/2023	1:00	3.6	67.5	04/09/2023	1:00	0.4	135
01/09/2023	2:00	1.3	247.5	02/09/2023	2:00	4	315	03/09/2023	2:00	3.1	67.5	04/09/2023	2:00	0.9	90
01/09/2023	3:00	1.8	247.5	02/09/2023	3:00	5.8	135	03/09/2023	3:00	3.1	45	04/09/2023	3:00	0.4	67.5
01/09/2023	4:00	2.7	247.5	02/09/2023	4:00	5.4	135	03/09/2023	4:00	2.7	67.5	04/09/2023	4:00	0.9	90
01/09/2023	5:00	3.6	247.5	02/09/2023	5:00	4.9	157.5	03/09/2023	5:00	3.6	45	04/09/2023	5:00	0.9	112.5
01/09/2023	6:00	3.6	247.5	02/09/2023	6:00	4.5	202.5	03/09/2023	6:00	2.2	67.5	04/09/2023	6:00	0.9	67.5
01/09/2023	7:00	3.6	270	02/09/2023	7:00	3.6	292.5	03/09/2023	7:00	2.7	67.5	04/09/2023	7:00	0.9	112.5
01/09/2023	8:00	3.1	247.5	02/09/2023	8:00	3.1	270	03/09/2023	8:00	3.1	67.5	04/09/2023	8:00	0.9	90
01/09/2023	9:00	3.1	270	02/09/2023	9:00	4	270	03/09/2023	9:00	2.7	90	04/09/2023	9:00	0.9	112.5
01/09/2023	10:00	2.7	270	02/09/2023	10:00	5.8	225	03/09/2023	10:00	1.8	112.5	04/09/2023	10:00	0.9	112.5
01/09/2023	11:00	4	270	02/09/2023	11:00	4.5	247.5	03/09/2023	11:00	1.8	90	04/09/2023	11:00	0.9	90
01/09/2023	12:00	3.1	270	02/09/2023	12:00	4.9	225	03/09/2023	12:00	1.8	67.5	04/09/2023	12:00	0.9	90
01/09/2023	13:00	4	247.5	02/09/2023	13:00	4	247.5	03/09/2023	13:00	0.4	67.5	04/09/2023	13:00	0.9	67.5
01/09/2023	14:00	2.7	247.5	02/09/2023	14:00	3.1	247.5	03/09/2023	14:00	0.4	67.5	04/09/2023	14:00	0.4	45
01/09/2023	15:00	4	247.5	02/09/2023	15:00	3.1	247.5	03/09/2023	15:00	0.4	45	04/09/2023	15:00	0.4	90
01/09/2023	16:00	4.5	247.5	02/09/2023	16:00	3.1	270	03/09/2023	16:00	0.4	112.5	04/09/2023	16:00	0.4	67.5
01/09/2023	17:00	4.5	247.5	02/09/2023	17:00	1.8	247.5	03/09/2023	17:00	0.4	135	04/09/2023	17:00	0.9	90
01/09/2023	18:00	4	270	02/09/2023	18:00	2.7	247.5	03/09/2023	18:00	1.3	157.5	04/09/2023	18:00	0.9	157.5
01/09/2023	19:00	4	247.5	02/09/2023	19:00	4.5	67.5	03/09/2023	19:00	1.3	90	04/09/2023	19:00	1.3	270
01/09/2023	20:00	4.9	270	02/09/2023	20:00	5.8	112.5	03/09/2023	20:00	1.8	135	04/09/2023	20:00	0.9	90
01/09/2023	21:00	4	270	02/09/2023	21:00	4.9	135	03/09/2023	21:00	1.8	112.5	04/09/2023	21:00	0.9	247.5
01/09/2023	22:00	4	90	02/09/2023	22:00	4.9	112.5	03/09/2023	22:00	1.8	247.5	04/09/2023	22:00	1.3	112.5
01/09/2023	23:00	4.5	90	02/09/2023	23:00	4	247.5	03/09/2023	23:00	1.8	247.5	04/09/2023	23:00	1.3	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
05/09/2023	0:00	1.3	112.5	06/09/2023	0:00	0.4	112.5	07/09/2023	0:00	3.6	90	08/09/2023	0:00	4	90
05/09/2023	1:00	1.8	135	06/09/2023	1:00	0.4	90	07/09/2023	1:00	4	67.5	08/09/2023	1:00	4.5	90
05/09/2023	2:00	1.3	112.5	06/09/2023	2:00	0.9	270	07/09/2023	2:00	4.5	90	08/09/2023	2:00	3.6	225
05/09/2023	3:00	1.3	90	06/09/2023	3:00	0.4	135	07/09/2023	3:00	4.5	135	08/09/2023	3:00	3.6	225
05/09/2023	4:00	1.3	135	06/09/2023	4:00	0.4	135	07/09/2023	4:00	4.5	112.5	08/09/2023	4:00	3.6	270
05/09/2023	5:00	1.3	90	06/09/2023	5:00	0.4	112.5	07/09/2023	5:00	4.9	247.5	08/09/2023	5:00	3.6	292.5
05/09/2023	6:00	1.3	90	06/09/2023	6:00	0.4	247.5	07/09/2023	6:00	5.4	247.5	08/09/2023	6:00	3.1	270
05/09/2023	7:00	1.8	112.5	06/09/2023	7:00	0.9	202.5	07/09/2023	7:00	4	67.5	08/09/2023	7:00	4.5	292.5
05/09/2023	8:00	1.3	112.5	06/09/2023	8:00	0.4	112.5	07/09/2023	8:00	4	22.5	08/09/2023	8:00	4.9	270
05/09/2023	9:00	1.3	112.5	06/09/2023	9:00	0.4	135	07/09/2023	9:00	3.6	135	08/09/2023	9:00	4	270
05/09/2023	10:00	1.3	112.5	06/09/2023	10:00	0.4	112.5	07/09/2023	10:00	3.6	180	08/09/2023	10:00	4.9	90
05/09/2023	11:00	1.8	90	06/09/2023	11:00	0.9	112.5	07/09/2023	11:00	2.7	337.5	08/09/2023	11:00	4.5	112.5
05/09/2023	12:00	1.3	90	06/09/2023	12:00	0.9	112.5	07/09/2023	12:00	4	22.5	08/09/2023	12:00	4.5	270
05/09/2023	13:00	0.9	112.5	06/09/2023	13:00	0.9	337.5	07/09/2023	13:00	2.7	67.5	08/09/2023	13:00	3.6	112.5
05/09/2023	14:00	0.9	112.5	06/09/2023	14:00	0.4	22.5	07/09/2023	14:00	3.6	337.5	08/09/2023	14:00	4.5	135
05/09/2023	15:00	0.9	112.5	06/09/2023	15:00	0.9	315	07/09/2023	15:00	4	22.5	08/09/2023	15:00	4	135
05/09/2023	16:00	0.4	112.5	06/09/2023	16:00	0.9	112.5	07/09/2023	16:00	3.1	22.5	08/09/2023	16:00	3.6	112.5
05/09/2023	17:00	0.4	112.5	06/09/2023	17:00	0.9	67.5	07/09/2023	17:00	3.1	315	08/09/2023	17:00	3.1	112.5
05/09/2023	18:00	1.8	90	06/09/2023	18:00	0.9	292.5	07/09/2023	18:00	3.1	90	08/09/2023	18:00	4	112.5
05/09/2023	19:00	1.3	112.5	06/09/2023	19:00	0.9	247.5	07/09/2023	19:00	5.8	112.5	08/09/2023	19:00	3.6	135
05/09/2023	20:00	1.3	112.5	06/09/2023	20:00	0.9	247.5	07/09/2023	20:00	3.6	112.5	08/09/2023	20:00	4	112.5
05/09/2023	21:00	0.9	112.5	06/09/2023	21:00	1.3	225	07/09/2023	21:00	3.6	112.5	08/09/2023	21:00	3.6	112.5
05/09/2023	22:00	1.3	90	06/09/2023	22:00	1.3	247.5	07/09/2023	22:00	4.9	135	08/09/2023	22:00	3.6	90
05/09/2023	23:00	1.3	112.5	06/09/2023	23:00	1.3	225	07/09/2023	23:00	5.8	135	08/09/2023	23:00	3.1	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
09/09/2023	0:00	1.8	112.5	10/09/2023	0:00	1.8	270	11/09/2023	0:00	3.1	135	12/09/2023	0:00	1.3	112.5
09/09/2023	1:00	1.8	180	10/09/2023	1:00	1.3	315	11/09/2023	1:00	4	135	12/09/2023	1:00	1.8	112.5
09/09/2023	2:00	1.3	135	10/09/2023	2:00	1.3	45	11/09/2023	2:00	4	112.5	12/09/2023	2:00	1.3	112.5
09/09/2023	3:00	0.9	112.5	10/09/2023	3:00	1.8	270	11/09/2023	3:00	3.6	90	12/09/2023	3:00	1.3	112.5
09/09/2023	4:00	1.8	135	10/09/2023	4:00	2.7	247.5	11/09/2023	4:00	3.6	112.5	12/09/2023	4:00	1.8	135
09/09/2023	5:00	2.2	135	10/09/2023	5:00	1.8	247.5	11/09/2023	5:00	4.5	135	12/09/2023	5:00	1.8	112.5
09/09/2023	6:00	2.2	112.5	10/09/2023	6:00	1.3	270	11/09/2023	6:00	3.6	270	12/09/2023	6:00	2.7	90
09/09/2023	7:00	1.8	135	10/09/2023	7:00	0.9	247.5	11/09/2023	7:00	3.6	270	12/09/2023	7:00	2.7	135
09/09/2023	8:00	1.8	157.5	10/09/2023	8:00	0.9	247.5	11/09/2023	8:00	4	270	12/09/2023	8:00	1.3	112.5
09/09/2023	9:00	0.4	90	10/09/2023	9:00	1.3	270	11/09/2023	9:00	4	225	12/09/2023	9:00	2.2	112.5
09/09/2023	10:00	0.8	135	10/09/2023	10:00	2.7	90	11/09/2023	10:00	5.4	225	12/09/2023	10:00	1.3	112.5
09/09/2023	11:00	0.8	112.5	10/09/2023	11:00	2.7	67.5	11/09/2023	11:00	4.5	202.5	12/09/2023	11:00	1.8	112.5
09/09/2023	12:00	0.8	90	10/09/2023	12:00	3.1	90	11/09/2023	12:00	1.8	247.5	12/09/2023	12:00	2.2	67.5
09/09/2023	13:00	0.8	90	10/09/2023	13:00	1.8	90	11/09/2023	13:00	1.8	270	12/09/2023	13:00	1.3	90
09/09/2023	14:00	0.8	135	10/09/2023	14:00	1.8	90	11/09/2023	14:00	3.6	247.5	12/09/2023	14:00	1.3	135
09/09/2023	15:00	1.21	90	10/09/2023	15:00	3.6	90	11/09/2023	15:00	2.7	247.5	12/09/2023	15:00	1.3	135
09/09/2023	16:00	0.8	135	10/09/2023	16:00	2.7	67.5	11/09/2023	16:00	1.8	247.5	12/09/2023	16:00	1.3	135
09/09/2023	17:00	0.8	90	10/09/2023	17:00	1.8	90	11/09/2023	17:00	1.8	225	12/09/2023	17:00	1.3	135
09/09/2023	18:00	0.8	90	10/09/2023	18:00	1.8	112.5	11/09/2023	18:00	2.7	22.5	12/09/2023	18:00	1.3	135
09/09/2023	19:00	0.8	90	10/09/2023	19:00	2.7	67.5	11/09/2023	19:00	1.8	67.5	12/09/2023	19:00	1.3	135
09/09/2023	20:00	0.8	90	10/09/2023	20:00	1.8	112.5	11/09/2023	20:00	1.3	135	12/09/2023	20:00	1.3	135
09/09/2023	21:00	0.4	67.5	10/09/2023	21:00	1.3	90	11/09/2023	21:00	1.8	112.5	12/09/2023	21:00	1.8	135
09/09/2023	22:00	0.8	67.5	10/09/2023	22:00	1.8	112.5	11/09/2023	22:00	1.3	112.5	12/09/2023	22:00	1.8	247.5
09/09/2023	23:00	0.8	90	10/09/2023	23:00	2.2	112.5	11/09/2023	23:00	1.8	112.5	12/09/2023	23:00	0.9	202.5

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
13/09/2023	0:00	0.8	112.5	14/09/2023	0:00	1.8	112.5	15/09/2023	0:00	2.2	112.5	16/09/2023	0:00	0.9	270
13/09/2023	1:00	0.8	135	14/09/2023	1:00	1.3	67.5	15/09/2023	1:00	1.3	247.5	16/09/2023	1:00	0.9	247.5
13/09/2023	2:00	0.4	112.5	14/09/2023	2:00	1.3	292.5	15/09/2023	2:00	1.3	225	16/09/2023	2:00	1.3	225
13/09/2023	3:00	0.4	112.5	14/09/2023	3:00	1.8	112.5	15/09/2023	3:00	1.3	202.5	16/09/2023	3:00	1.3	292.5
13/09/2023	4:00	0.9	225	14/09/2023	4:00	1.8	135	15/09/2023	4:00	1.3	90	16/09/2023	4:00	1.3	315
13/09/2023	5:00	0.9	247.5	14/09/2023	5:00	1.3	112.5	15/09/2023	5:00	1.3	22.5	16/09/2023	5:00	1.8	247.5
13/09/2023	6:00	1.8	247.5	14/09/2023	6:00	0.9	135	15/09/2023	6:00	1.3	90	16/09/2023	6:00	1.8	225
13/09/2023	7:00	0.9	225	14/09/2023	7:00	0.9	112.5	15/09/2023	7:00	1.3	225	16/09/2023	7:00	1.3	157.5
13/09/2023	8:00	1.8	247.5	14/09/2023	8:00	0.4	90	15/09/2023	8:00	1.3	247.5	16/09/2023	8:00	1.8	202.5
13/09/2023	9:00	1.8	270	14/09/2023	9:00	0.9	135	15/09/2023	9:00	1.8	247.5	16/09/2023	9:00	2.2	202.5
13/09/2023	10:00	1.8	157.5	14/09/2023	10:00	1.3	90	15/09/2023	10:00	1.8	112.5	16/09/2023	10:00	2.2	247.5
13/09/2023	11:00	2.7	225	14/09/2023	11:00	1.8	135	15/09/2023	11:00	0.9	45	16/09/2023	11:00	1.3	90
13/09/2023	12:00	1.8	225	14/09/2023	12:00	0.9	90	15/09/2023	12:00	0.9	90	16/09/2023	12:00	1.8	90
13/09/2023	13:00	1.8	22.5	14/09/2023	13:00	0.9	135	15/09/2023	13:00	0.9	202.5	16/09/2023	13:00	1.3	135
13/09/2023	14:00	2.7	225	14/09/2023	14:00	0.9	90	15/09/2023	14:00	0.9	225	16/09/2023	14:00	1.3	135
13/09/2023	15:00	1.8	225	14/09/2023	15:00	0.4	90	15/09/2023	15:00	1.3	247.5	16/09/2023	15:00	0.9	135
13/09/2023	16:00	1.8	225	14/09/2023	16:00	1.8	292.5	15/09/2023	16:00	0.9	270	16/09/2023	16:00	1.3	337.5
13/09/2023	17:00	1.3	247.5	14/09/2023	17:00	1.3	112.5	15/09/2023	17:00	0.9	292.5	16/09/2023	17:00	1.3	22.5
13/09/2023	18:00	0.4	225	14/09/2023	18:00	0.9	112.5	15/09/2023	18:00	0.9	270	16/09/2023	18:00	1.3	315
13/09/2023	19:00	0.4	225	14/09/2023	19:00	0.4	112.5	15/09/2023	19:00	0.9	247.5	16/09/2023	19:00	0.9	112.5
13/09/2023	20:00	0.9	135	14/09/2023	20:00	1.3	112.5	15/09/2023	20:00	0.9	112.5	16/09/2023	20:00	0.9	315
13/09/2023	21:00	0.9	225	14/09/2023	21:00	0.4	112.5	15/09/2023	21:00	0.4	112.5	16/09/2023	21:00	0.4	292.5
13/09/2023	22:00	1.3	225	14/09/2023	22:00	0.9	135	15/09/2023	22:00	0.4	247.5	16/09/2023	22:00	0.9	270
13/09/2023	23:00	1.8	247.5	14/09/2023	23:00	1.8	112.5	15/09/2023	23:00	0.4	247.5	16/09/2023	23:00	0.4	202.5

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
17/09/2023	0:00	0.9	135	18/09/2023	0:00	0.4	45	19/09/2023	0:00	0.4	45	20/09/2023	0:00	0.4	135
17/09/2023	1:00	0.9	112.5	18/09/2023	1:00	0.9	67.5	19/09/2023	1:00	1.3	135	20/09/2023	1:00	0.4	135
17/09/2023	2:00	0.9	67.5	18/09/2023	2:00	1.3	112.5	19/09/2023	2:00	1.8	202.5	20/09/2023	2:00	0.4	112.5
17/09/2023	3:00	0.9	135	18/09/2023	3:00	1.3	22.5	19/09/2023	3:00	1.8	202.5	20/09/2023	3:00	1.3	45
17/09/2023	4:00	0.4	135	18/09/2023	4:00	1.3	45	19/09/2023	4:00	1.3	135	20/09/2023	4:00	1.3	45
17/09/2023	5:00	0.4	135	18/09/2023	5:00	1.3	67.5	19/09/2023	5:00	1.3	112.5	20/09/2023	5:00	1.3	337.5
17/09/2023	6:00	0.9	135	18/09/2023	6:00	1.8	112.5	19/09/2023	6:00	1.8	112.5	20/09/2023	6:00	1.3	90
17/09/2023	7:00	0.9	112.5	18/09/2023	7:00	1.3	157.5	19/09/2023	7:00	1.3	112.5	20/09/2023	7:00	0.9	112.5
17/09/2023	8:00	1.3	112.5	18/09/2023	8:00	1.3	315	19/09/2023	8:00	1.3	135	20/09/2023	8:00	0.9	22.5
17/09/2023	9:00	1.8	135	18/09/2023	9:00	1.3	292.5	19/09/2023	9:00	1.3	45	20/09/2023	9:00	0.9	270
17/09/2023	10:00	1.8	112.5	18/09/2023	10:00	1.8	135	19/09/2023	10:00	1.8	337.5	20/09/2023	10:00	0.9	270
17/09/2023	11:00	0.9	157.5	18/09/2023	11:00	1.8	45	19/09/2023	11:00	0.9	247.5	20/09/2023	11:00	1.3	225
17/09/2023	12:00	1.3	112.5	18/09/2023	12:00	1.3	202.5	19/09/2023	12:00	0.9	112.5	20/09/2023	12:00	0.9	270
17/09/2023	13:00	1.3	67.5	18/09/2023	13:00	1.3	135	19/09/2023	13:00	0.4	112.5	20/09/2023	13:00	0.9	202.5
17/09/2023	14:00	1.8	0	18/09/2023	14:00	1.3	112.5	19/09/2023	14:00	0.4	112.5	20/09/2023	14:00	1.3	135
17/09/2023	15:00	1.8	45	18/09/2023	15:00	1.3	45	19/09/2023	15:00	0.9	135	20/09/2023	15:00	0.4	135
17/09/2023	16:00	1.8	45	18/09/2023	16:00	2.2	135	19/09/2023	16:00	0.4	112.5	20/09/2023	16:00	0.4	135
17/09/2023	17:00	1.3	112.5	18/09/2023	17:00	1.3	180	19/09/2023	17:00	0.9	90	20/09/2023	17:00	0.4	135
17/09/2023	18:00	1.3	22.5	18/09/2023	18:00	1.3	112.5	19/09/2023	18:00	1.3	112.5	20/09/2023	18:00	0.4	112.5
17/09/2023	19:00	0.9	22.5	18/09/2023	19:00	0.9	112.5	19/09/2023	19:00	1.3	112.5	20/09/2023	19:00	0.9	135
17/09/2023	20:00	0.9	45	18/09/2023	20:00	1.8	135	19/09/2023	20:00	0.9	135	20/09/2023	20:00	0.9	112.5
17/09/2023	21:00	0.9	45	18/09/2023	21:00	1.8	135	19/09/2023	21:00	0.9	112.5	20/09/2023	21:00	0.4	135
17/09/2023	22:00	0.9	67.5	18/09/2023	22:00	1.8	112.5	19/09/2023	22:00	1.3	135	20/09/2023	22:00	0.4	112.5
17/09/2023	23:00	0.9	112.5	18/09/2023	23:00	1.8	135	19/09/2023	23:00	0.9	112.5	20/09/2023	23:00	0.4	67.5

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
21/09/2023	0:00	0.9	135	22/09/2023	0:00	1.3	135	23/09/2023	0:00	1.8	270	24/09/2023	0:00	0.9	22.5
21/09/2023	1:00	0.4	135	22/09/2023	1:00	1.8	135	23/09/2023	1:00	0.9	45	24/09/2023	1:00	1.3	337.5
21/09/2023	2:00	0.4	135	22/09/2023	2:00	0.4	112.5	23/09/2023	2:00	1.3	225	24/09/2023	2:00	0.9	45
21/09/2023	3:00	0.9	135	22/09/2023	3:00	0.4	45	23/09/2023	3:00	1.3	270	24/09/2023	3:00	0.9	67.5
21/09/2023	4:00	1.3	112.5	22/09/2023	4:00	0.4	45	23/09/2023	4:00	1.3	135	24/09/2023	4:00	1.8	112.5
21/09/2023	5:00	0.4	135	22/09/2023	5:00	0.9	337.5	23/09/2023	5:00	1.3	90	24/09/2023	5:00	1.8	135
21/09/2023	6:00	1.8	202.5	22/09/2023	6:00	0.9	90	23/09/2023	6:00	1.3	45	24/09/2023	6:00	2.2	90
21/09/2023	7:00	1.8	112.5	22/09/2023	7:00	0.9	337.5	23/09/2023	7:00	0.9	67.5	24/09/2023	7:00	2.7	337.5
21/09/2023	8:00	1.3	90	22/09/2023	8:00	0.9	22.5	23/09/2023	8:00	1.3	135	24/09/2023	8:00	2.2	90
21/09/2023	9:00	1.3	112.5	22/09/2023	9:00	0.4	270	23/09/2023	9:00	0.9	112.5	24/09/2023	9:00	1.3	22.5
21/09/2023	10:00	1.3	45	22/09/2023	10:00	0.4	270	23/09/2023	10:00	1.3	112.5	24/09/2023	10:00	0.9	112.5
21/09/2023	11:00	1.8	67.5	22/09/2023	11:00	0.4	225	23/09/2023	11:00	0.9	45	24/09/2023	11:00	1.3	67.5
21/09/2023	12:00	2.7	112.5	22/09/2023	12:00	0.9	270	23/09/2023	12:00	0.9	112.5	24/09/2023	12:00	0.4	45
21/09/2023	13:00	0.9	202.5	22/09/2023	13:00	0.9	202.5	23/09/2023	13:00	1.3	135	24/09/2023	13:00	1.3	112.5
21/09/2023	14:00	0.9	45	22/09/2023	14:00	0.4	135	23/09/2023	14:00	0.9	67.5	24/09/2023	14:00	0.9	45
21/09/2023	15:00	2.7	135	22/09/2023	15:00	0.4	135	23/09/2023	15:00	0.4	45	24/09/2023	15:00	1.3	90
21/09/2023	16:00	1.3	202.5	22/09/2023	16:00	0.4	135	23/09/2023	16:00	0.4	67.5	24/09/2023	16:00	0.9	45
21/09/2023	17:00	1.3	22.5	22/09/2023	17:00	0.4	135	23/09/2023	17:00	1.3	112.5	24/09/2023	17:00	0.4	67.5
21/09/2023	18:00	1.3	135	22/09/2023	18:00	0.4	112.5	23/09/2023	18:00	0.9	112.5	24/09/2023	18:00	0.9	135
21/09/2023	19:00	1.3	135	22/09/2023	19:00	0.9	135	23/09/2023	19:00	0.9	135	24/09/2023	19:00	0.4	90
21/09/2023	20:00	0.9	202.5	22/09/2023	20:00	0.9	112.5	23/09/2023	20:00	0.4	135	24/09/2023	20:00	1.3	90
21/09/2023	21:00	0.4	202.5	22/09/2023	21:00	0.4	135	23/09/2023	21:00	0.4	112.5	24/09/2023	21:00	1.8	67.5
21/09/2023	22:00	0.4	202.5	22/09/2023	22:00	0.4	112.5	23/09/2023	22:00	0.4	135	24/09/2023	22:00	1.3	112.5
21/09/2023	23:00	1.3	112.5	22/09/2023	23:00	0.9	67.5	23/09/2023	23:00	0.4	112.5	24/09/2023	23:00	0.4	90

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
25/09/2023	0:00	1.8	67.5	26/09/2023	0:00	0.4	157.5	27/09/2023	0:00	0.4	135	28/09/2023	0:00	0.9	22.5
25/09/2023	1:00	1.8	45	26/09/2023	1:00	0.9	202.5	27/09/2023	1:00	0.4	135	28/09/2023	1:00	1.3	315
25/09/2023	2:00	1.8	112.5	26/09/2023	2:00	0.4	112.5	27/09/2023	2:00	0.9	90	28/09/2023	2:00	1.8	45
25/09/2023	3:00	1.8	22.5	26/09/2023	3:00	0.9	157.5	27/09/2023	3:00	1.3	112.5	28/09/2023	3:00	1.8	22.5
25/09/2023	4:00	0.4	112.5	26/09/2023	4:00	0.9	90	27/09/2023	4:00	0.9	112.5	28/09/2023	4:00	0.9	292.5
25/09/2023	5:00	1.3	90	26/09/2023	5:00	0.9	90	27/09/2023	5:00	1.3	112.5	28/09/2023	5:00	0.9	67.5
25/09/2023	6:00	0.9	45	26/09/2023	6:00	0.9	22.5	27/09/2023	6:00	1.3	135	28/09/2023	6:00	1.3	292.5
25/09/2023	7:00	0.4	45	26/09/2023	7:00	0.9	90	27/09/2023	7:00	0.9	112.5	28/09/2023	7:00	1.8	112.5
25/09/2023	8:00	0.4	292.5	26/09/2023	8:00	0.9	45	27/09/2023	8:00	0.9	112.5	28/09/2023	8:00	1.8	135
25/09/2023	9:00	0.9	22.5	26/09/2023	9:00	1.3	90	27/09/2023	9:00	1.3	67.5	28/09/2023	9:00	0.9	135
25/09/2023	10:00	1.3	315	26/09/2023	10:00	1.3	90	27/09/2023	10:00	1.3	157.5	28/09/2023	10:00	0.9	135
25/09/2023	11:00	1.8	337.5	26/09/2023	11:00	1.3	22.5	27/09/2023	11:00	0.9	112.5	28/09/2023	11:00	0.9	315
25/09/2023	12:00	1.3	315	26/09/2023	12:00	0.4	315	27/09/2023	12:00	0.9	180	28/09/2023	12:00	0.9	112.5
25/09/2023	13:00	1.3	67.5	26/09/2023	13:00	0.9	45	27/09/2023	13:00	1.3	112.5	28/09/2023	13:00	0.9	135
25/09/2023	14:00	1.3	67.5	26/09/2023	14:00	1.3	22.5	27/09/2023	14:00	0.9	90	28/09/2023	14:00	0.4	45
25/09/2023	15:00	1.3	337.5	26/09/2023	15:00	0.9	292.5	27/09/2023	15:00	1.3	135	28/09/2023	15:00	0.9	337.5
25/09/2023	16:00	1.3	135	26/09/2023	16:00	0.4	67.5	27/09/2023	16:00	1.3	112.5	28/09/2023	16:00	0.4	135
25/09/2023	17:00	1.8	135	26/09/2023	17:00	0.4	292.5	27/09/2023	17:00	0.4	135	28/09/2023	17:00	0.9	22.5
25/09/2023	18:00	0.4	112.5	26/09/2023	18:00	1.3	112.5	27/09/2023	18:00	0.9	135	28/09/2023	18:00	0.9	22.5
25/09/2023	19:00	0.4	112.5	26/09/2023	19:00	1.3	135	27/09/2023	19:00	1.3	135	28/09/2023	19:00	0.4	22.5
25/09/2023	20:00	0.4	157.5	26/09/2023	20:00	1.3	135	27/09/2023	20:00	1.3	157.5	28/09/2023	20:00	1.3	90
25/09/2023	21:00	0.4	112.5	26/09/2023	21:00	0.9	135	27/09/2023	21:00	0.9	135	28/09/2023	21:00	1.3	135
25/09/2023	22:00	0.4	90	26/09/2023	22:00	0.9	315	27/09/2023	22:00	1.3	112.5	28/09/2023	22:00	1.3	45
25/09/2023	23:00	0.4	112.5	26/09/2023	23:00	0.4	112.5	27/09/2023	23:00	0.4	270	28/09/2023	23:00	1.3	337.5

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

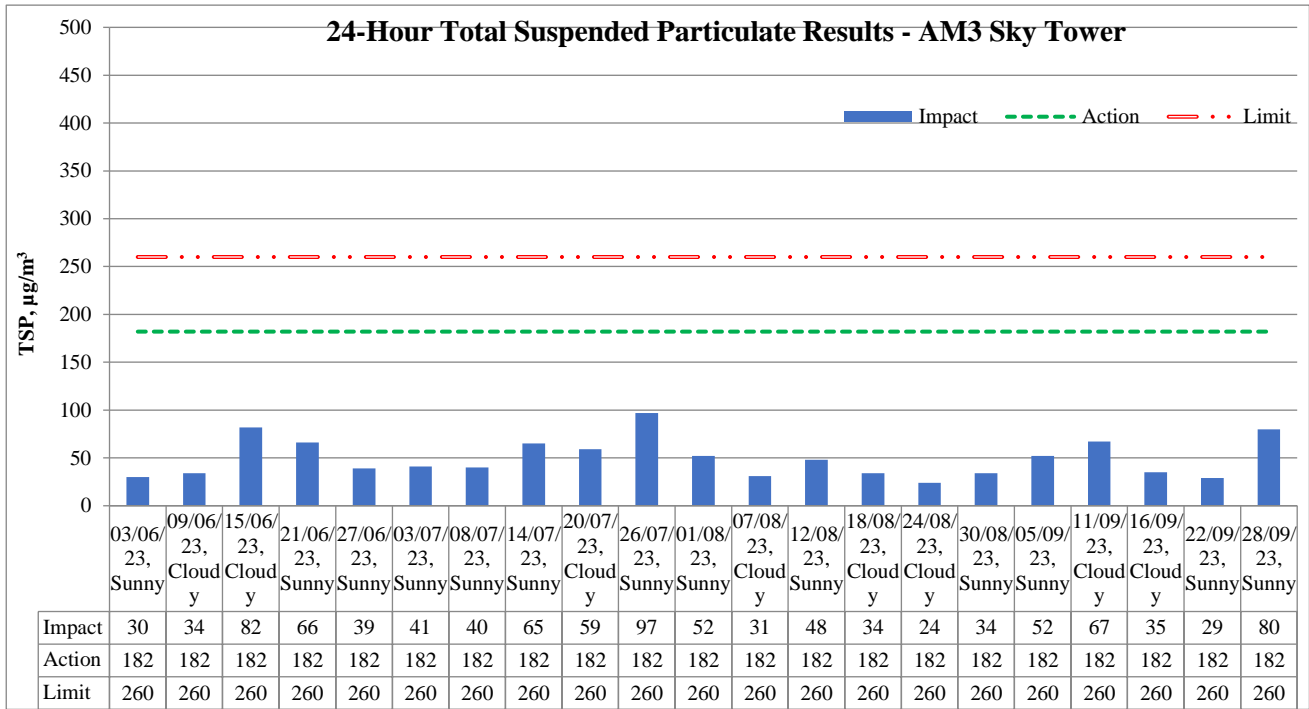
Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
29/09/2023	0:00	0.4	67.5	30/09/2023	0:00	0.9	337.5								
29/09/2023	1:00	0.4	67.5	30/09/2023	1:00	0.9	270								
29/09/2023	2:00	0.4	45	30/09/2023	2:00	1.3	315								
29/09/2023	3:00	1.3	112.5	30/09/2023	3:00	1.3	45								
29/09/2023	4:00	1.3	315	30/09/2023	4:00	1.3	337.5								
29/09/2023	5:00	0.9	135	30/09/2023	5:00	1.3	270								
29/09/2023	6:00	0.4	292.5	30/09/2023	6:00	1.3	315								
29/09/2023	7:00	0.9	135	30/09/2023	7:00	1.8	45								
29/09/2023	8:00	0.4	45	30/09/2023	8:00	1.3	270								
29/09/2023	9:00	0.4	315	30/09/2023	9:00	1.3	45								
29/09/2023	10:00	0.4	22.5	30/09/2023	10:00	0.9	22.5								
29/09/2023	11:00	0.9	112.5	30/09/2023	11:00	1.3	45								
29/09/2023	12:00	0.4	45	30/09/2023	12:00	0.9	22.5								
29/09/2023	13:00	0.4	112.5	30/09/2023	13:00	0.9	202.5								
29/09/2023	14:00	0.4	45	30/09/2023	14:00	0.9	292.5								
29/09/2023	15:00	0.9	22.5	30/09/2023	15:00	0.9	337.5								
29/09/2023	16:00	0.9	45	30/09/2023	16:00	0.9	90								
29/09/2023	17:00	0.4	135	30/09/2023	17:00	0.9	45								
29/09/2023	18:00	1.3	112.5	30/09/2023	18:00	0.9	292.5								
29/09/2023	19:00	0.9	90	30/09/2023	19:00	0.9	270								
29/09/2023	20:00	0.9	90	30/09/2023	20:00	0.9	45								
29/09/2023	21:00	0.9	135	30/09/2023	21:00	1.3	45								
29/09/2023	22:00	1.3	22.5	30/09/2023	22:00	1.3	315								
29/09/2023	23:00	0.4	45	30/09/2023	23:00	1.3	337.5								

Appendix E – Monitoring data and graphical plots

24-hour average TSP

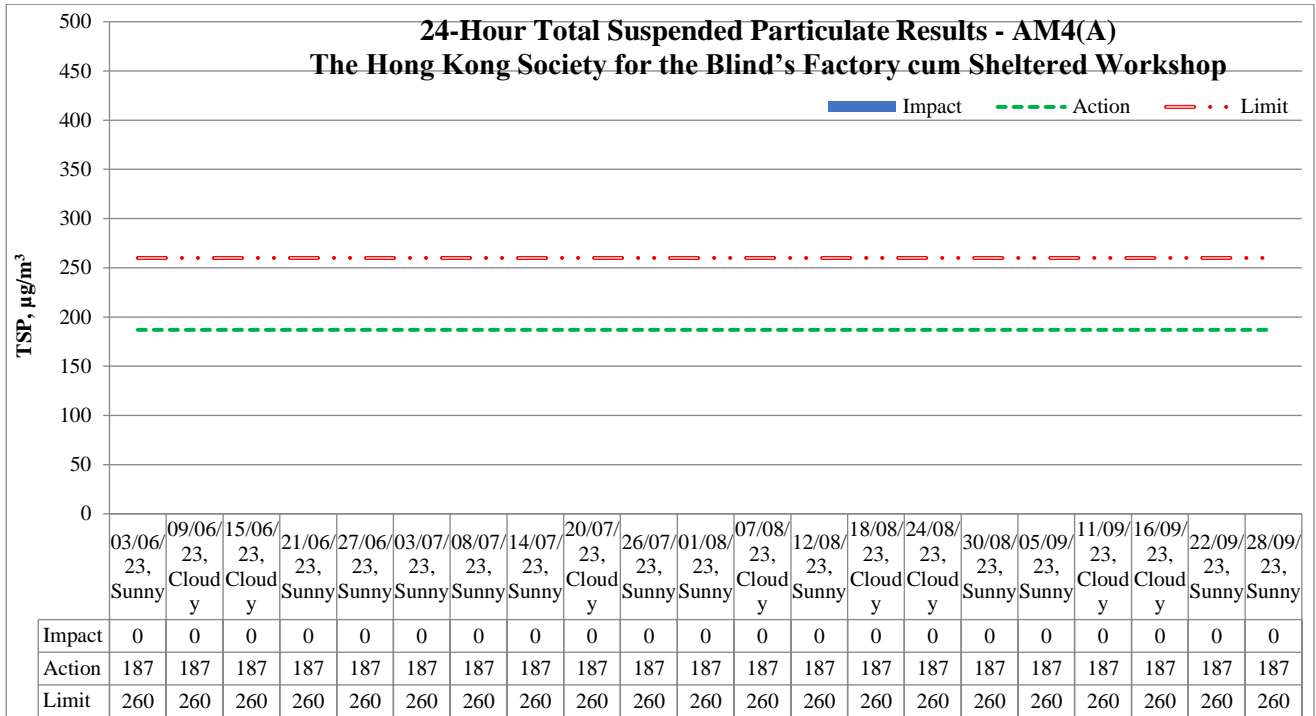
Air Monitoring Station		AM3 – Sky Tower	AM4(A) – The Hong Kong Society for the Blind’s Factory cum Sheltered Workshop*	AM7 – Hong Kong Children’s Hospital
Start Date	Weather	24-hr Average TSP Concentration, $\mu\text{g}/\text{m}^3$	24-hr Average TSP Concentration, $\mu\text{g}/\text{m}^3$	24-hr Average TSP Concentration, $\mu\text{g}/\text{m}^3$
03/06/2023	Sunny	30	/	33
09/06/2023	Cloudy	34	/	37
15/06/2023	Cloudy	82	/	43
21/06/2023	Sunny	66	/	54
27/06/2023	Sunny	39	/	36
03/07/2023	Sunny	41	/	39
08/07/2023	Sunny	40	/	51
14/07/2023	Sunny	65	/	78
20/07/2023	Cloudy	59	/	70
26/07/2023	Sunny	97	/	96
01/08/2023	Sunny	52	/	26
07/08/2023	Cloudy	31	/	68
12/08/2023	Sunny	48	/	32
18/08/2023	Cloudy	34	/	45
24/08/2023	Cloudy	24	/	25
30/08/2023	Sunny	34	/	61
05/09/2023	Sunny	52	/	55
11/09/2023	Cloudy	67	/	40
16/09/2023	Cloudy	35	/	43
22/09/2023	Sunny	29	/	37
28/09/2023	Sunny	80	/	94

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 2023	Jul 2023	Aug 2023	Sep 2023
Construction of road works (e.g. kerb, central median, etc.)	✓	✓	✓	✓
Construction of RC structure for Lift LT-1 and LT-2	✓	✓	✓	✓
Construction of profile barrier for North Depressed Road	✓	✓	✓	✓
Modification works at Shing Kai Road	✓	✓	✓	✓
Construction of central median & profile barrier, installation of noise absorptive panel and E&M works for Underpass 03	✓	✓	✓	✓
Laying of stormwater drainage pipes/ sewer pipes/ watermains	✓	✓	✓	✓
Construction of remaining works for Noise Barrier	✓	✓	✓	✓
Construction of Seawater Intake Box Culvert	✓	✓	✓	✓
Excavation for construction of Pumping Stations	✓	✓	✓	✓
Installation of water pipe for ELD	✓	✓	✓	✓
Construction of pre-bored H piles for Observation Deck	✓	✓		
Laying of stormwater drainage pipes/ sewer pipes/watermains and construction of associated manholes at Road L12d	✓			
Installation of Lift LT-4	✓	✓	✓	✓
Laying of stormwater drainage pipes/ sewer pipes/watermains and construction of associated manholes at Road L12d and at-grade road.		✓	✓	✓
Construction of Observation Deck			✓	✓
Construction of Harbour Steps			✓	✓
Concreting and RC structure of Toilet cum Changing Room			✓	✓

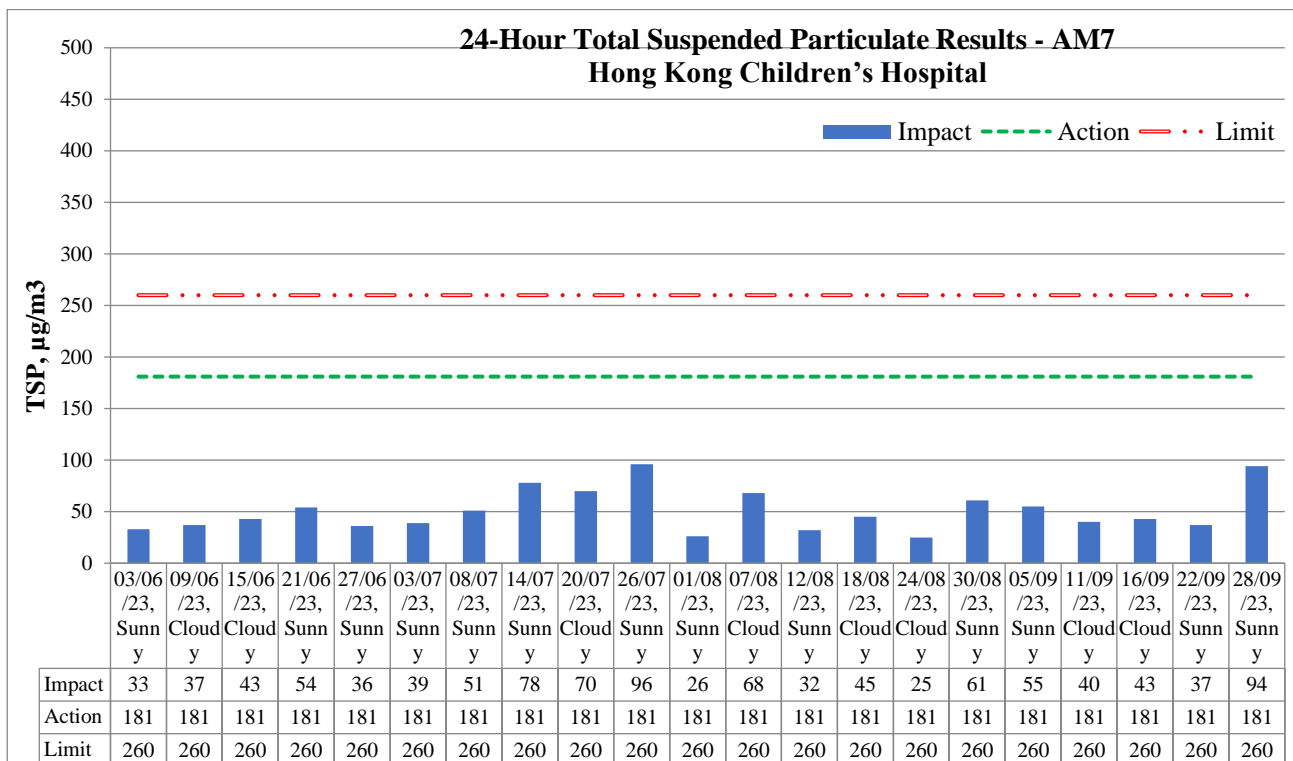
Factors might affect the monitoring results	Reporting Period			
	Jun 2023	Jul 2023	Aug 2023	Sep 2023
Non-project related construction activities in the adjacent construction sites were observed.	✓	✓	✓	✓



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 2023	Jul 2023	Aug 2023	Sep 2023
Construction of road works (e.g. kerb, central median, etc.)	✓	✓	✓	✓
Construction of RC structure for Lift LT-1 and LT-2	✓	✓	✓	✓
Construction of profile barrier for North Depressed Road	✓	✓	✓	✓
Modification works at Shing Kai Road	✓	✓	✓	✓
Construction of central median & profile barrier, installation of noise absorptive panel and E&M works for Underpass 03	✓	✓	✓	✓
Laying of stormwater drainage pipes/ sewer pipes/ watermains	✓	✓	✓	✓
Construction of remaining works for Noise Barrier	✓	✓	✓	✓
Construction of Seawater Intake Box Culvert	✓	✓	✓	✓
Excavation for construction of Pumping Stations	✓	✓	✓	✓
Installation of water pipe for ELD	✓	✓	✓	✓
Construction of pre-bored H piles for Observation Deck	✓	✓		
Laying of stormwater drainage pipes/ sewer pipes/watermains and construction of associated manholes at Road L12d	✓			
Installation of Lift LT-4	✓	✓	✓	✓
Laying of stormwater drainage pipes/ sewer pipes/watermains and construction of associated manholes at Road L12d and at-grade road.		✓	✓	✓
Construction of Observation Deck			✓	✓
Construction of Harbour Steps			✓	✓
Concreting and RC structure of Toilet cum Changing Room			✓	✓

Factors might affect the monitoring results	Reporting Period			
	Jun 2023	Jul 2023	Aug 2023	Sep 2023
Non-project related construction activities in the adjacent construction sites were observed.	✓	✓	✓	✓



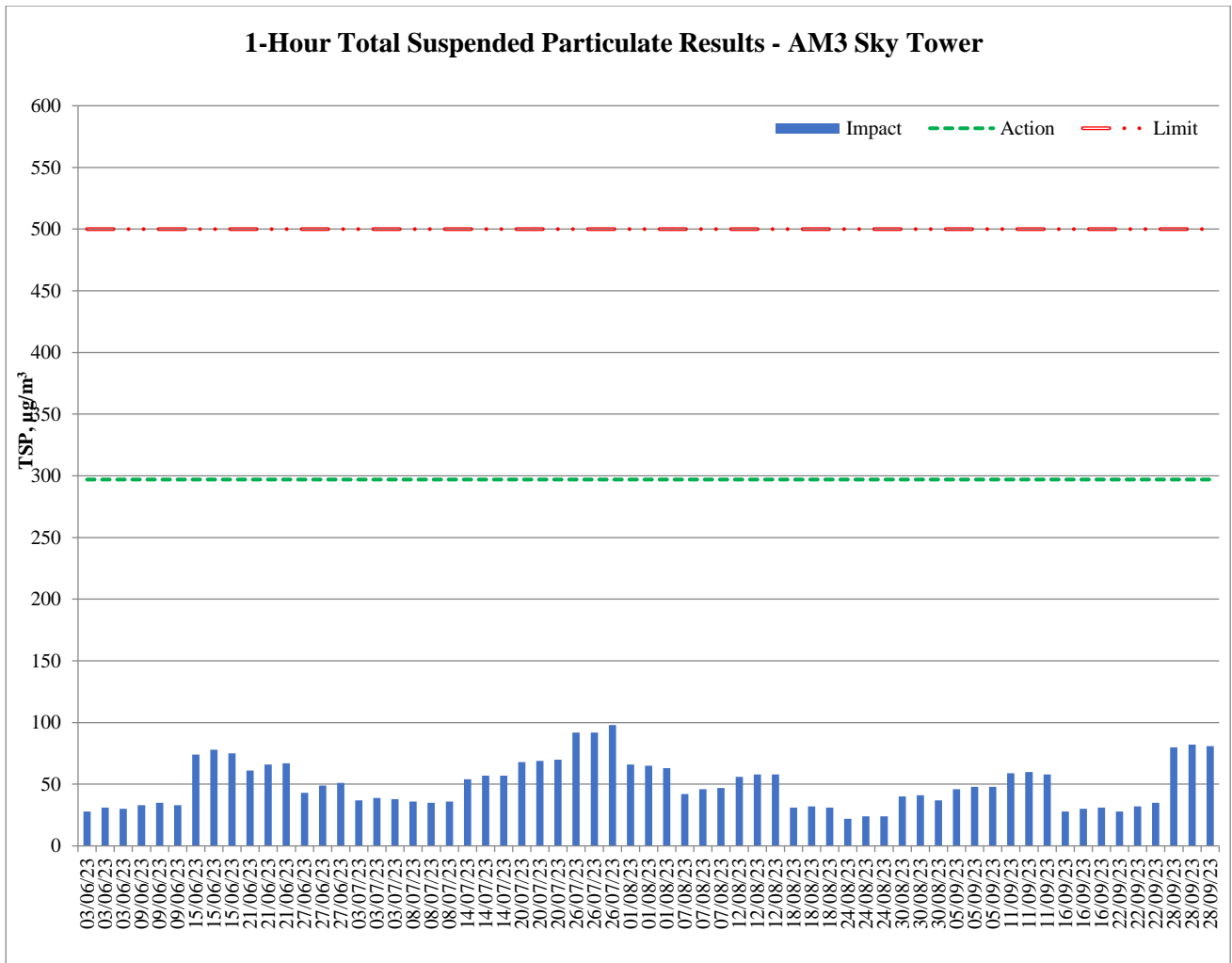
Major Construction Activities	Reporting Period			
	Jun 2023	Jul 2023	Aug 2023	Sep 2023
Construction of road works (e.g. kerb, central median, etc.)	✓	✓	✓	✓
Construction of RC structure for Lift LT-1 and LT-2	✓	✓	✓	✓
Construction of profile barrier for North Depressed Road	✓	✓	✓	✓
Modification works at Shing Kai Road	✓	✓	✓	✓
Construction of central median & profile barrier, installation of noise absorptive panel and E&M works for Underpass 03	✓	✓	✓	✓
Laying of stormwater drainage pipes/ sewer pipes/ watermains	✓	✓	✓	✓
Construction of remaining works for Noise Barrier	✓	✓	✓	✓
Construction of Seawater Intake Box Culvert	✓	✓	✓	✓
Excavation for construction of Pumping Stations	✓	✓	✓	✓
Installation of water pipe for ELD	✓	✓	✓	✓
Construction of pre-bored H piles for Observation Deck	✓	✓		
Laying of stormwater drainage pipes/ sewer pipes/watermains and construction of associated manholes at Road L12d	✓			
Installation of Lift LT-4	✓	✓	✓	✓
Laying of stormwater drainage pipes/ sewer pipes/watermains and construction of associated manholes at Road L12d and at-grade road.		✓	✓	✓
Construction of Observation Deck			✓	✓
Construction of Harbour Steps			✓	✓
Concreting and RC structure of Toilet cum Changing Room			✓	✓

Factors might affect the monitoring results	Reporting Period			
	Jun 2023	Jul 2023	Aug 2023	Sep 2023
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, $\mu\text{g}/\text{m}^3$
03/06/2023	13:00	-	14:00	Sunny	37
03/06/2023	14:00	-	15:00		37
03/06/2023	15:00	-	16:00		41
09/06/2023	9:00	-	10:00	Cloudy	42
09/06/2023	10:00	-	11:00		42
09/06/2023	11:00	-	12:00		44
15/06/2023	13:00	-	14:00	Cloudy	63
15/06/2023	14:00	-	15:00		68
15/06/2023	15:00	-	16:00		67
21/06/2023	13:00	-	14:00	Sunny	72
21/06/2023	14:00	-	15:00		73
21/06/2023	15:00	-	16:00		77
27/06/2023	9:00	-	10:00	Sunny	54
27/06/2023	10:00	-	11:00		60
27/06/2023	11:00	-	12:00		61
03/07/2023	13:00	-	14:00	Sunny	37
03/07/2023	14:00	-	15:00		39
03/07/2023	15:00	-	16:00		38
08/07/2023	9:00	-	10:00	Sunny	36
08/07/2023	10:00	-	11:00		35
08/07/2023	11:00	-	12:00		36
14/07/2023	13:00	-	14:00	Sunny	54
14/07/2023	14:00	-	15:00		57
14/07/2023	15:00	-	16:00		57
20/07/2023	9:00	-	10:00	Cloudy	68
20/07/2023	10:00	-	11:00		69
20/07/2023	11:00	-	12:00		70
26/07/2023	9:00	-	10:00	Sunny	92
26/07/2023	10:00	-	11:00		92
26/07/2023	11:00	-	12:00		98
01/08/2023	9:00	-	10:00	Sunny	66
01/08/2023	10:00	-	11:00		65
01/08/2023	11:00	-	12:00		63
07/08/2023	13:00	-	14:00	Cloudy	42
07/08/2023	14:00	-	15:00		46
07/08/2023	15:00	-	16:00		47
12/08/2023	13:00	-	14:00	Sunny	56
12/08/2023	14:00	-	15:00		58
12/08/2023	15:00	-	16:00		58
18/08/2023	9:00	-	10:00	Cloudy	31
18/08/2023	10:00	-	11:00		32
18/08/2023	11:00	-	12:00		31
24/08/2023	13:00	-	14:00		22

24/08/2023	14:00	-	15:00	Cloudy	24
24/08/2023	15:00	-	16:00		24
30/08/2023	13:00	-	14:00	Sunny	40
30/08/2023	14:00	-	15:00		41
30/08/2023	15:00	-	16:00		37
05/09/2023	9:00	-	10:00	Sunny	46
05/09/2023	10:00	-	11:00		48
05/09/2023	11:00	-	12:00		48
11/09/2023	13:00	-	14:00	Cloudy	59
11/09/2023	14:00	-	15:00		60
11/09/2023	15:00	-	16:00		58
16/09/2023	9:00	-	10:00	Cloudy	28
16/09/2023	10:00	-	11:00		30
16/09/2023	11:00	-	12:00		31
22/09/2023	13:00	-	14:00	Sunny	28
22/09/2023	14:00	-	15:00		32
22/09/2023	15:00	-	16:00		35
28/09/2023	13:00	-	14:00	Sunny	80
28/09/2023	14:00	-	15:00		82
28/09/2023	15:00	-	16:00		81



Major Construction Activities	Reporting Period			
	Jun 2023	Jul 2023	Aug 2023	Sep 2023
Construction of road works (e.g. kerb, central median, etc.)	✓	✓	✓	✓
Construction of RC structure for Lift LT-1 and LT-2	✓	✓	✓	✓
Construction of profile barrier for North Depressed Road	✓	✓	✓	✓
Modification works at Shing Kai Road	✓	✓	✓	✓
Construction of central median & profile barrier, installation of noise absorptive panel and E&M works for Underpass 03	✓	✓	✓	✓
Laying of stormwater drainage pipes/ sewer pipes/ watermains	✓	✓	✓	✓
Construction of remaining works for Noise Barrier	✓	✓	✓	✓
Construction of Seawater Intake Box Culvert	✓	✓	✓	✓
Excavation for construction of Pumping Stations	✓	✓	✓	✓
Installation of water pipe for ELD	✓	✓	✓	✓
Construction of pre-bored H piles for Observation Deck	✓	✓		
Laying of stormwater drainage pipes/ sewer pipes/watermains and construction of associated manholes at Road L12d	✓			
Installation of Lift LT-4	✓	✓	✓	✓
Laying of stormwater drainage pipes/ sewer pipes/watermains and construction of associated manholes at Road L12d and at-grade road.		✓	✓	✓
Construction of Observation Deck			✓	✓
Construction of Harbour Steps			✓	✓
Concreting and RC structure of Toilet cum Changing Room			✓	✓

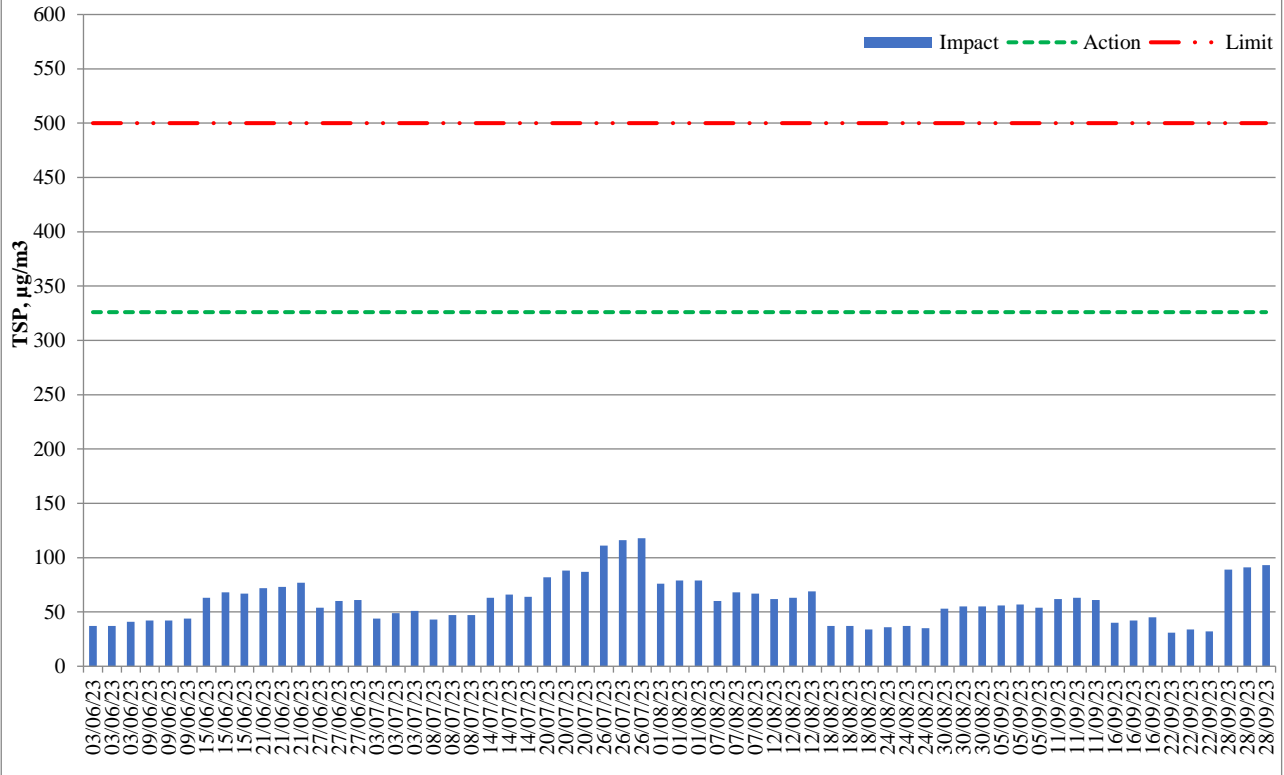
Factors might affect the monitoring results	Reporting Period			
	Jun 2023	Jul 2023	Aug 2023	Sep 2023
Non-project related construction activities in the adjacent construction sites were observed.	✓	✓	✓	✓

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, $\mu\text{g}/\text{m}^3$
03/06/2023	13:00	-	14:00	Sunny	37
03/06/2023	14:00	-	15:00		37
03/06/2023	15:00	-	16:00		41
09/06/2023	9:00	-	10:00	Cloudy	42
09/06/2023	10:00	-	11:00		42
09/06/2023	11:00	-	12:00		44
15/06/2023	13:00	-	14:00	Cloudy	63
15/06/2023	14:00	-	15:00		68
15/06/2023	15:00	-	16:00		67
21/06/2023	13:00	-	14:00	Sunny	72
21/06/2023	14:00	-	15:00		73
21/06/2023	15:00	-	16:00		77
27/06/2023	9:00	-	10:00	Sunny	54
27/06/2023	10:00	-	11:00		60
27/06/2023	11:00	-	12:00		61
03/07/2023	13:00	-	14:00	Sunny	44
03/07/2023	14:00	-	15:00		49

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, $\mu\text{g}/\text{m}^3$
03/07/2023	15:00	-	16:00		51
08/07/2023	9:00	-	10:00	Sunny	43
08/07/2023	10:00	-	11:00		47
08/07/2023	11:00	-	12:00		47
14/07/2023	9:00	-	10:00		63
14/07/2023	10:00	-	11:00	Sunny	66
14/07/2023	11:00	-	12:00		64
20/07/2023	9:00	-	10:00		82
20/07/2023	10:00	-	11:00	Cloudy	88
20/07/2023	11:00	-	12:00		87
26/07/2023	9:00	-	10:00		111
26/07/2023	10:00	-	11:00	Sunny	116
26/07/2023	11:00	-	12:00		118
01/08/2023	9:00	-	10:00		76
01/08/2023	10:00	-	11:00	Sunny	79
01/08/2023	11:00	-	12:00		79
07/08/2023	13:00	-	14:00		60
07/08/2023	14:00	-	15:00	Cloudy	68
07/08/2023	15:00	-	16:00		67
12/08/2023	13:00	-	14:00		62
12/08/2023	14:00	-	15:00	Sunny	63
12/08/2023	15:00	-	16:00		69
18/08/2023	9:00	-	10:00		37
18/08/2023	10:00	-	11:00	Cloudy	37
18/08/2023	11:00	-	12:00		34
24/08/2023	13:00	-	14:00		36
24/08/2023	14:00	-	15:00	Cloudy	37
24/08/2023	15:00	-	16:00		35
30/08/2023	9:00	-	10:00		53
30/08/2023	10:00	-	11:00	Sunny	55
30/08/2023	11:00	-	12:00		55
05/09/2023	9:00	-	10:00		56
05/09/2023	10:00	-	11:00	Sunny	57
05/09/2023	11:00	-	12:00		54
11/09/2023	13:00	-	14:00		62
11/09/2023	14:00	-	15:00	Cloudy	63
11/09/2023	15:00	-	16:00		61
16/09/2023	9:00	-	10:00		40
16/09/2023	10:00	-	11:00	Cloudy	42
16/09/2023	11:00	-	12:00		45
22/09/2023	9:30	-	10:30		31
22/09/2023	10:30	-	11:30	Sunny	34
22/09/2023	16:30	-	17:30		32
28/09/2023	13:00	-	14:00		89
28/09/2023	14:00	-	15:00	Sunny	91
28/09/2023	15:00	-	16:00		93

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.

1-Hour Total Suspended Particulate Results - AM4(A)
The Hong Kong Society for the Blind's Factory cum Sheltered Workshop

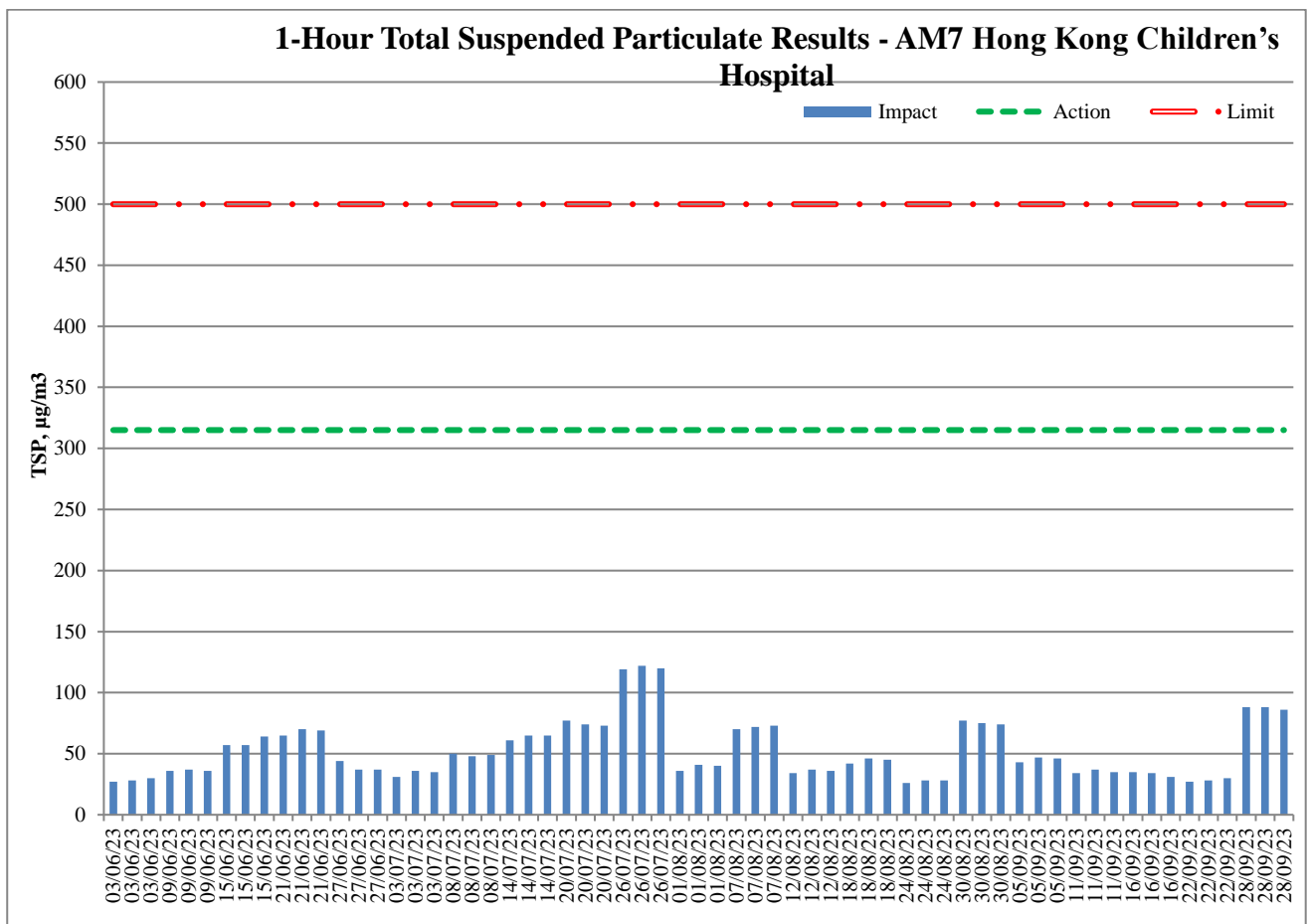


Major Construction Activities	Reporting Period			
	Jun 2023	Jul 2023	Aug 2023	Sep 2023
Construction of road works (e.g. kerb, central median, etc.)	✓	✓	✓	✓
Construction of RC structure for Lift LT-1 and LT-2	✓	✓	✓	✓
Construction of profile barrier for North Depressed Road	✓	✓	✓	✓
Modification works at Shing Kai Road	✓	✓	✓	✓
Construction of central median & profile barrier, installation of noise absorptive panel and E&M works for Underpass 03	✓	✓	✓	✓
Laying of stormwater drainage pipes/ sewer pipes/ watermains	✓	✓	✓	✓
Construction of remaining works for Noise Barrier	✓	✓	✓	✓
Construction of Seawater Intake Box Culvert	✓	✓	✓	✓
Excavation for construction of Pumping Stations	✓	✓	✓	✓
Installation of water pipe for ELD	✓	✓	✓	✓
Construction of pre-bored H piles for Observation Deck	✓	✓		
Laying of stormwater drainage pipes/ sewer pipes/watermains and construction of associated manholes at Road L12d	✓			
Installation of Lift LT-4	✓	✓	✓	✓
Laying of stormwater drainage pipes/ sewer pipes/watermains and construction of associated manholes at Road L12d and at-grade road.		✓	✓	✓
Construction of Observation Deck			✓	✓
Construction of Harbour Steps			✓	✓
Concreting and RC structure of Toilet cum Changing Room			✓	✓

Factors might affect the monitoring results	Reporting Period			
	Jun 2023	Jul 2023	Aug 2023	Sep 2023
Non-project related construction activities in the adjacent construction sites were observed.	✓	✓	✓	✓

Air Monitoring Station				AM7 – Hong Kong Children’s Hospital	
Date	Measurement Period			Weather	1-hr Average TSP Concentration, $\mu\text{g}/\text{m}^3$
03/06/2023	9:00	-	10:00	Sunny	27
03/06/2023	10:00	-	11:00		28
03/06/2023	11:00	-	12:00		30
09/06/2023	13:00	-	14:00	Cloudy	36
09/06/2023	14:00	-	15:00		37
09/06/2023	15:00	-	16:00		36
15/06/2023	9:00	-	10:00	Cloudy	57
15/06/2023	10:00	-	11:00		57
15/06/2023	11:00	-	12:00		64
21/06/2023	9:30	-	10:30	Sunny	65
21/06/2023	10:30	-	11:30		70
21/06/2023	13:00	-	14:00		69
27/06/2023	13:00	-	14:00	Sunny	44
27/06/2023	14:00	-	15:00		37
27/06/2023	15:00	-	16:00		37
03/07/2023	9:00	-	10:00	Sunny	31
03/07/2023	10:00	-	11:00		36
03/07/2023	11:00	-	12:00		35
08/07/2023	13:00	-	14:00	Sunny	50
08/07/2023	14:00	-	15:00		48
08/07/2023	15:00	-	16:00		49
14/07/2023	13:00	-	14:00	Sunny	61
14/07/2023	14:00	-	15:00		65
14/07/2023	15:00	-	16:00		65
20/07/2023	13:00	-	14:00	Sunny	77
20/07/2023	14:00	-	15:00		74
20/07/2023	15:00	-	16:00		73
26/07/2023	13:00	-	14:00	Cloudy	119
26/07/2023	14:00	-	15:00		122
26/07/2023	15:00	-	16:00		120
01/08/2023	13:00	-	14:00	Sunny	36
01/08/2023	14:00	-	15:00		41
01/08/2023	15:00	-	16:00		40
07/08/2023	9:00	-	10:00	Sunny	70
07/08/2023	10:00	-	11:00		72
07/08/2023	11:00	-	12:00		73
12/08/2023	9:00	-	10:00	Sunny	34
12/08/2023	10:00	-	11:00		37
12/08/2023	15:00	-	16:00		36
18/08/2023	13:00	-	14:00	Cloudy	42
18/08/2023	14:00	-	15:00		46
18/08/2023	15:00	-	16:00		45
24/08/2023	9:00	-	10:00		26

Air Monitoring Station				AM7 – Hong Kong Children’s Hospital	
Date	Measurement Period			Weather	1-hr Average TSP Concentration, $\mu\text{g}/\text{m}^3$
24/08/2023	10:00	-	11:00	Cloudy	28
24/08/2023	11:00	-	12:00		28
30/08/2023	13:00	-	14:00	Sunny	77
30/08/2023	14:00	-	15:00		75
30/08/2023	15:00	-	16:00		74
05/09/2023	13:00	-	14:00	Sunny	43
05/09/2023	14:00	-	15:00		47
05/09/2023	15:00	-	16:00		46
11/09/2023	9:00	-	10:00	Cloudy	34
11/09/2023	10:00	-	11:00		37
11/09/2023	11:00	-	12:00		35
16/09/2023	13:00	-	14:00	Cloudy	35
16/09/2023	14:00	-	15:00		34
16/09/2023	15:00	-	16:00		31
22/09/2023	13:00	-	14:00	Sunny	27
22/09/2023	14:00	-	15:00		28
22/09/2023	15:00	-	16:00		30
28/09/2023	9:00	-	10:00	Sunny	88
28/09/2023	10:00	-	11:00		88
28/09/2023	11:00	-	12:00		86



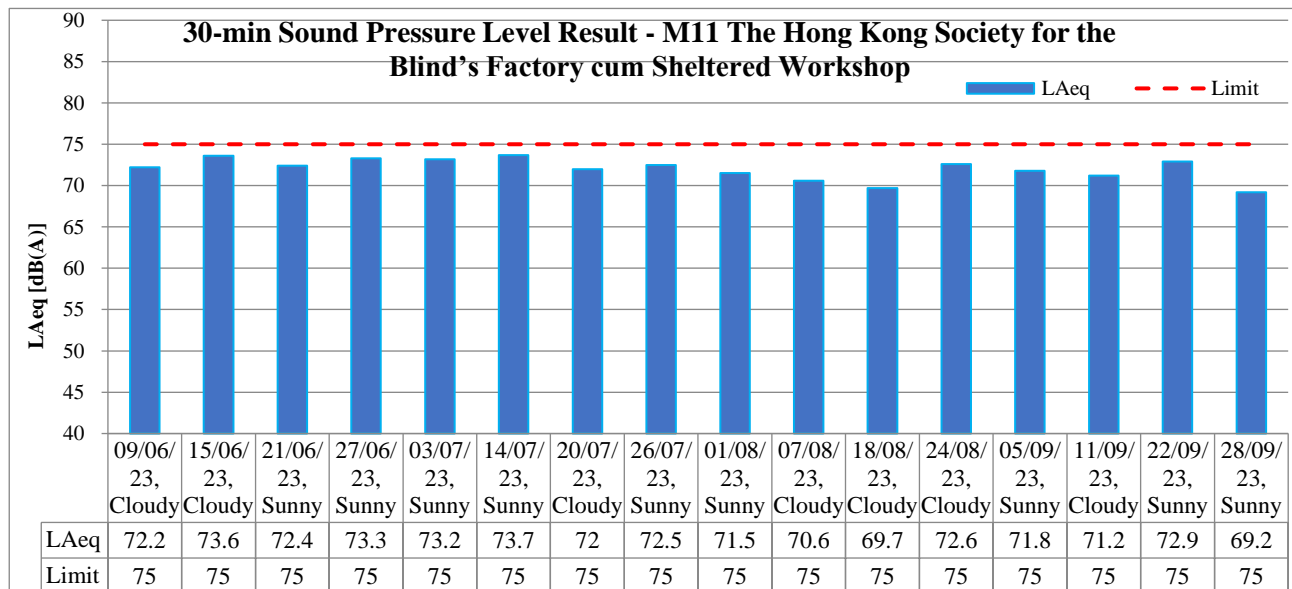
Major Construction Activities	Reporting Period			
	Jun 2023	Jul 2023	Aug 2023	Sep 2023
Construction of road works (e.g. kerb, central median, etc.)	✓	✓	✓	✓
Construction of RC structure for Lift LT-1 and LT-2	✓	✓	✓	✓
Construction of profile barrier for North Depressed Road	✓	✓	✓	✓
Modification works at Shing Kai Road	✓	✓	✓	✓
Construction of central median & profile barrier, installation of noise absorptive panel and E&M works for Underpass 03	✓	✓	✓	✓
Laying of stormwater drainage pipes/ sewer pipes/ watermains	✓	✓	✓	✓
Construction of remaining works for Noise Barrier	✓	✓	✓	✓
Construction of Seawater Intake Box Culvert	✓	✓	✓	✓
Excavation for construction of Pumping Stations	✓	✓	✓	✓
Installation of water pipe for ELD	✓	✓	✓	✓
Construction of pre-bored H piles for Observation Deck	✓	✓		
Laying of stormwater drainage pipes/ sewer pipes/watermains and construction of associated manholes at Road L12d	✓			
Installation of Lift LT-4	✓	✓	✓	✓
Laying of stormwater drainage pipes/ sewer pipes/watermains and construction of associated manholes at Road L12d and at-grade road.		✓	✓	✓
Construction of Observation Deck			✓	✓
Construction of Harbour Steps			✓	✓
Concreting and RC structure of Toilet cum Changing Room			✓	✓

Factors might affect the monitoring results	Reporting Period			
	Jun 2023	Jul 2023	Aug 2023	Sep 2023
Non-project related construction activities in the adjacent construction sites were observed.	✓	✓	✓	✓

30-minute Noise

Noise Monitoring Station				M11 – The Hong Kong Society for the Blind’s Factory cum Sheltered Workshop*			
Date	Measurement Period			Weather	L _{Aeq} , dB(A)	L _{A10} , dB(A)	L _{A90} , dB(A)
09/06/2023	14:00	-	14:30	Cloudy	72.2	73.4	68.6
15/06/2023	10:15	-	10:45	Cloudy	73.6	76.6	66.8
21/06/2023	10:07	-	10:37	Sunny	72.4	74.8	67.9
27/06/2023	14:10	-	14:40	Sunny	73.3	75.4	68.9
03/07/2023	13:41	-	14:11	Sunny	73.2	74.0	68.8
14/07/2023	10:03	-	10:33	Sunny	73.7	75.4	67.4
20/07/2023	11:22	-	11:52	Cloudy	72.0	74.7	66.5
26/07/2023	10:06	-	10:36	Sunny	72.5	74.9	66.1
01/08/2023	10:11	-	10:41	Sunny	71.5	74.3	67.1
07/08/2023	14:30	-	15:00	Cloudy	70.6	73.5	66.5
18/08/2023	10:15	-	10:45	Cloudy	69.7	73.1	65.8
24/08/2023	14:45	-	15:15	Cloudy	72.6	76.4	64.0
30/08/2023	9:33	-	10:03	Sunny	72.0	75.0	65.6
05/09/2023	10:16	-	10:46	Sunny	71.8	75.2	65.6
11/09/2023	13:22	-	13:52	Cloudy	71.2	74.3	65.8
22/09/2023	9:43	-	10:13	Sunny	72.9	75.6	66.9
28/09/2023	13:15	-	13:45	Sunny	69.2	72.6	66.5

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.

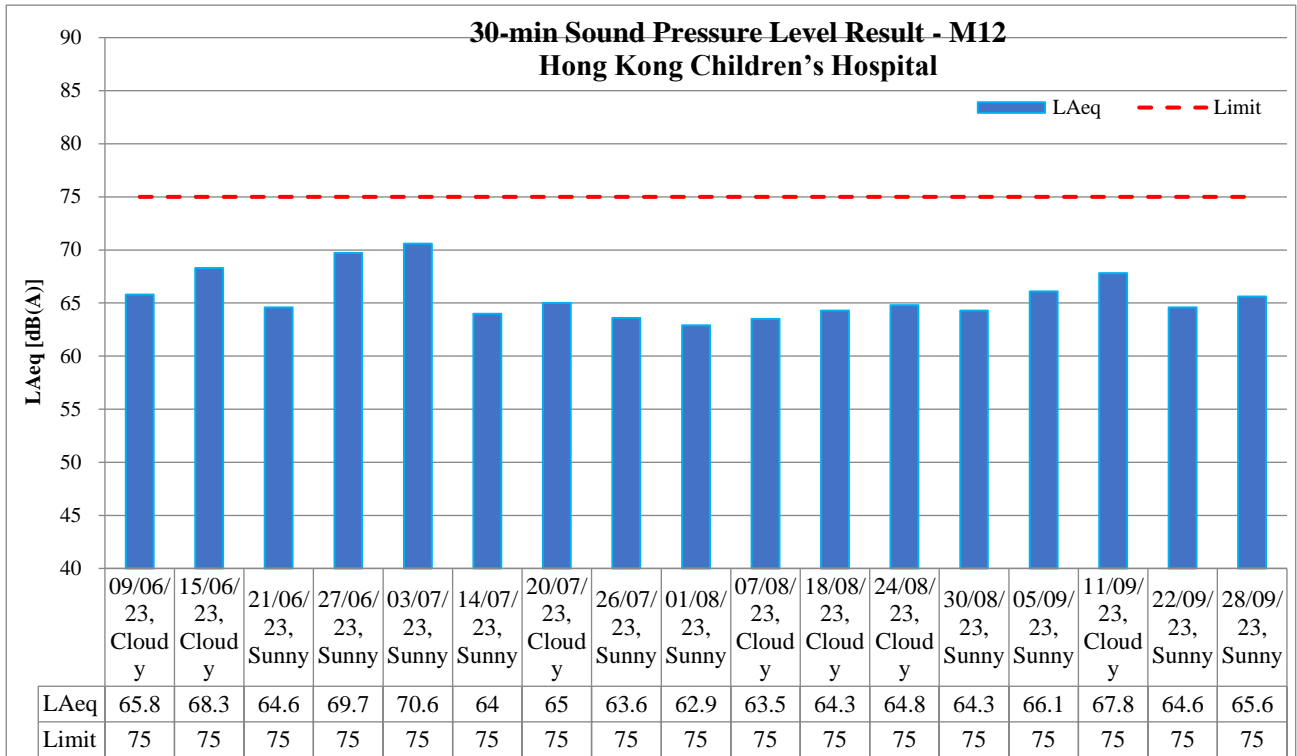


Major Construction Activities	Reporting Period			
	Jun 2023	Jul 2023	Aug 2023	Sep 2023
Construction of road works (e.g. kerb, central median, etc.)	✓	✓	✓	✓
Construction of RC structure for Lift LT-1 and LT-2	✓	✓	✓	✓
Construction of profile barrier for North Depressed Road	✓	✓	✓	✓

Major Construction Activities	Reporting Period			
	Jun 2023	Jul 2023	Aug 2023	Sep 2023
Modification works at Shing Kai Road	✓	✓	✓	✓
Construction of central median & profile barrier, installation of noise absorptive panel and E&M works for Underpass 03	✓	✓	✓	✓
Laying of stormwater drainage pipes/ sewer pipes/ watermains	✓	✓	✓	✓
Construction of remaining works for Noise Barrier	✓	✓	✓	✓
Construction of Seawater Intake Box Culvert	✓	✓	✓	✓
Excavation for construction of Pumping Stations	✓	✓	✓	✓
Installation of water pipe for ELD	✓	✓	✓	✓
Construction of pre-bored H piles for Observation Deck	✓	✓		
Laying of stormwater drainage pipes/ sewer pipes/watermains and construction of associated manholes at Road L12d	✓			
Installation of Lift LT-4	✓	✓	✓	✓
Laying of stormwater drainage pipes/ sewer pipes/watermains and construction of associated manholes at Road L12d and at-grade road.		✓	✓	✓
Construction of Observation Deck			✓	✓
Construction of Harbour Steps			✓	✓
Concreting and RC structure of Toilet cum Changing Room			✓	✓

Factors might affect the monitoring results	Reporting Period			
	Jun 2023	Jul 2023	Aug 2023	Sep 2023
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 _{Aeq} , dB(A)	L _{A10} , dB(A)	L _{A90} , dB(A)
09/06/2023	14:00	-	14:30	Sunny	65.8	69.6	61.9
15/06/2023	10:15	-	10:45	Sunny	68.3	70.3	62.0
21/06/2023	10:07	-	10:37	Sunny	64.6	66.2	62.5
27/06/2023	14:10	-	14:40	Cloudy	69.7	71.0	64.1
03/07/2023	11:03	-	11:33	Cloudy	70.6	73.5	63.9
14/07/2023	14:02	-	14:32	Sunny	64	67.7	60.6
20/07/2023	14:26	-	14:56	Sunny	65.0	66.7	63.4
26/07/2023	13:56	-	14:26	Sunny	63.6	65.4	61.4
01/08/2023	13:44	-	14:14	Cloudy	62.9	64.8	60.7
07/08/2023	10:46	-	11:16	Sunny	63.5	64.7	61.6
18/08/2023	14:11	-	14:41	Sunny	64.3	66.1	61.6
24/08/2023	10:00	-	10:30	Cloudy	64.8	66.7	61.0
30/08/2023	13:36	-	14:06	Cloudy	64.3	65.8	62.0
05/09/2023	14:26	-	14:56	Sunny	66.1	68.5	61.4
11/09/2023	11:23	-	11:53	Cloudy	67.8	69.9	60.3
22/09/2023	14:06	-	14:36	Cloudy	64.6	66.2	62.0
28/09/2023	10:36	-	11:06	Sunny	65.6	67.4	63.4



Major Construction Activities	Reporting Period			
	Jun 2023	Jul 2023	Aug 2023	Sep 2023
Construction of road works (e.g. kerb, central median, etc.)	✓	✓	✓	✓
Construction of RC structure for Lift LT-1 and LT-2	✓	✓	✓	✓
Construction of profile barrier for North Depressed Road	✓	✓	✓	✓
Modification works at Shing Kai Road	✓	✓	✓	✓
Construction of central median & profile barrier, installation of noise absorptive panel and E&M works for Underpass 03	✓	✓	✓	✓
Laying of stormwater drainage pipes/ sewer pipes/ watermains	✓	✓	✓	✓
Construction of remaining works for Noise Barrier	✓	✓	✓	✓
Construction of Seawater Intake Box Culvert	✓	✓	✓	✓
Excavation for construction of Pumping Stations	✓	✓	✓	✓
Installation of water pipe for ELD	✓	✓	✓	✓
Construction of pre-bored H piles for Observation Deck	✓	✓		
Laying of stormwater drainage pipes/ sewer pipes/watermains and construction of associated manholes at Road L12d	✓			
Installation of Lift LT-4	✓	✓	✓	✓
Laying of stormwater drainage pipes/ sewer pipes/watermains and construction of associated manholes at Road L12d and at-grade road.		✓	✓	✓
Construction of Observation Deck			✓	✓
Construction of Harbour Steps			✓	✓
Concreting and RC structure of Toilet cum Changing Room			✓	✓

Factors might affect the monitoring results	Reporting Period			
	Jun 2023	Jul 2023	Aug 2023	Sep 2023
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**

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

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

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

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

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

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 2023

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 ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	1.894	0.109	0.351	--	1.543	--	--	--	--	--	0.142
Feb	3.330	0.086	--	--	3.330	0.474	--	--	--	--	0.139
Mar	3.384	0.303	1.484	--	1.900	0.474	--	0.312	--	--	0.155
Apr	1.590	0.141	0.748	--	0.842	--	--	--	--	--	0.141
May	3.017	0.102	0.758	--	2.259	--	--	0.11	--	--	0.137
Jun	2.332	0.063	0.208	--	2.124	1.100	--	2023--	--	--	0.134
Sub-total	15.547	0.804	3.549	--	11.998	2.048	--	0.422	--	--	0.848
July	4.085	0.074	0.300	--	3.785	0.150	--	0.035	--	--	0.153
Aug	1.597	0.093	--	--	1.597	--	--	--	--	--	0.147
Sep	1.519	0.203	--	--	1.519	--	--	--	--	--	0.133
Oct											
Nov											
Dec											
Total	22.748	1.174	3.849	--	18.899	2.198	--	0.457	--	--	1.281
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 ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)	
207.384	2.103	10.2	140	27.415	25	200	0.8	0.1	--	3.891	

- 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 50,000m³ (**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 ton/m³ and 1.5 ton/m³

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

Implementation Schedule for Air Quality Measures			
EIA for KTD Development Ref.	EIA for KTD – Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
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 extent 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 insider the site. On- site unpaved roads should be compacted and kept free of lose 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 scaled 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.	^

Implementation Schedule for Noise Measures			
EIA for KTD Development Ref.	EIA for KTD – Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
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	^

Implementation Schedule for Water Quality Measures			
EIA for KTD Development Ref.	EIA for KTD – Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
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	^*

Implementation Schedule for Water Quality Measures			
EIA for KTD Development Ref.	EIA for KTD – Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
		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	^

Implementation Schedule for Water Quality Measures			
EIA for KTD Development Ref.	EIA for KTD – Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
		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 ³ capacity, are recommended as a general mitigation measure which can be used for settling surface runoff prior to disposal. The system capacity is	^

Implementation Schedule for Water Quality Measures			
EIA for KTD Development Ref.	EIA for KTD – Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
		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 ³ 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.	^

Implementation Schedule for Water Quality Measures			
EIA for KTD Development Ref.	EIA for KTD – Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
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>	^

Implementation Schedule for Water Quality Measures			
EIA for KTD Development Ref.	EIA for KTD – Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
		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.	^

Implementation Schedule for Water Quality Measures			
EIA for KTD Development Ref.	EIA for KTD – Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
		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.	^

Implementation Schedule for Waste Management Measures			
EIA for KTD Development Ref.	EIA for KTD – Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
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.	^

Implementation Schedule for Waste Management Measures			
EIA for KTD Development Ref.	EIA for KTD – Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
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:	

Implementation Schedule for Waste Management Measures			
EIA for KTD Development Ref.	EIA for KTD – Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
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.	^

Implementation Schedule for Waste Management Measures			
EIA for KTD Development Ref.	EIA for KTD – Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
	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.	^

Implementation Schedule for Landscape and Visual Measures			
EIA for KTD Development Ref.	EIA for KTD – Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
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	^

Implementation Schedule for Landscape and Visual Measures			
EIA for KTD Development Ref.	EIA for KTD – Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
		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

Remarks:			
^	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 2023 to September 2023

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

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

Contract No.	Record of Complaint	Record of Warning	Notification of Summons and Successful Prosecutions
ED/2018/01	13	0	0

Complaint Log for ED/2018/01				
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"> 1. The water spraying system was not operated in proper time. 2. Stockpile was not covered properly. 3. Haul road was not wetted. 4. Materials transported on trucks were not provided with mechanical covers. 	<p><u>Investigation</u></p> <ol style="list-style-type: none"> 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. 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. 3. Regular site inspection was conducted by ET on 22 October 2020, no adverse observation against the dust impact was recorded. <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"> 1. Increase the frequency and duration for automatic water spraying system. 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. 3. Ensure stockpiling sites should be lined with impermeable sheeting and bunded. Stockpiles should be fully covered by impermeable sheeting at all time except during working process. <p><u>Action taken</u></p> <p>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</p>	<ul style="list-style-type: none"> - Closed-out on 5 Nov 2020 - No further complaint was received.

Complaint Log for ED/2018/01				
Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Recommendations / Actions	Close-Out Date / Status
			with 5-minute time interval with duration 30-60 seconds.	
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"> - Manual water spraying was provided. - The exposed surface and stockpile areas were covered by the impermeable tarpaulin sheet. <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"> 1. Ensure stockpiling sites should be lined with impermeable sheeting and banded. 2. Stockpiles should be fully covered by impermeable sheeting at all time except during working process. 3. Ensure the work fulfill the relevant statutory requirements on control of air pollution. 4. Take necessary measures to minimize the environmental nuisance arising from the construction site. <p><u>Action taken</u> The exposed surface and stockpile area was covered by the impermeable tarpaulin sheet.</p>	<ul style="list-style-type: none"> - Closed-out on 4 Oct 2021 - No further complaint was received.

Complaint Log for ED/2018/01				
Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Recommendations / Actions	Close-Out Date / Status
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"> - There was no muddy water discharge to DSD outfall near the roundabout of Shing Fung Road. - The sand bag with layers and filter were provided at the manholes. <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"> - Enhance the sand bag with several layers instead of one layer only and replace the filter frequently. - Modify the wheel washing area such that the muddy water will be directly flow to the pit and then waste water treatment facility. - Take necessary measures to minimize the environmental nuisance arising from the construction site. <p><u>Action taken</u></p> <ul style="list-style-type: none"> - Sand bags and filter were used to block the manholes. - Manholes had been adequately covered and replace the filter frequently. 	<ul style="list-style-type: none"> - Closed-out on 5 Jan 2022 - No further complaint was received.
C0004	A dust complaint was referred received by EPD on 16 December	Contractor received Notification of Environmental Complaints from EPD	<p><u>Investigation</u> Regular site inspection was conducted by ET on 29 December 2022</p>	<ul style="list-style-type: none"> - Closed-out on 13 January

Complaint Log for ED/2018/01				
Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Recommendations / Actions	Close-Out Date / Status
	2022	(ref.: K19/RE/00029136-22) by E-Mail on 22 December 2021. Complaint of mud/ silt being brought out by vehicles from the project site casing mud/silt accumulation on Shing Fung Road.	<ul style="list-style-type: none"> - As per the Contractor, mud / slit generated from nearby construction sites might be brought to Shing Fung Road roundabout. - No adverse observation against the dust impact was recorded during site inspection. <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"> 1. Increase the frequency and duration for automatic water spraying system. 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. 3. Regular wash and clean the share haul road and roundabout in Shing Fung Road. 4. Wheel washing for the trucks and vehicles before leaving the project site. The muddy water after the wheel washing should be directed to sedimentation tank and wastewater treatment facility before discharging to gully. 5. Ensure stockpiling sites should be lined with impermeable sheeting and bunded. Stockpiles should be fully covered by impermeable sheeting at all time except during working process. 6. Dusty materials transported on truck shall be covered. <p><u>Action taken</u></p> <ul style="list-style-type: none"> - Watering manually frequently. - Haul Road surfaces were wetted by water truck. - Wheel washing for the trucks and vehicles before leaving the project site. 	<p>2023.</p> <ul style="list-style-type: none"> - No further complaint was received
C0005	A noise complaint was referred received by	Contractor received Notification of Environmental Complaints from EPD	<p><u>Investigation</u></p> <p>Regular site inspection was conducted by ET on 29 December</p>	<ul style="list-style-type: none"> - Under investigati

Complaint Log for ED/2018/01														
Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Recommendations / Actions		Close-Out Date / Status									
	EPD on 22 December 2022	(ref.: K19/RE/00029422-22) by E-Mail on 22 December 2022. Complaint of construction noise arising from the project site near Shing Kai Toad and Muk Tai Street continued to 01:30 am on 21 Dec 2022.	<p>2022</p> <ul style="list-style-type: none"> - As per the Contractor, the complaint was still under investigation and could not conclude the complaint related to the project site or not. - Status of CNPs in the works area near Shing Kai Road and Muk Tai Street were checked and all of them were valid. <table border="1"> <thead> <tr> <th>Construction Noise Permit</th> <th>Valid Form</th> <th>Valid Till</th> </tr> </thead> <tbody> <tr> <td>GW-RE1297-22</td> <td>10 Dec 2022</td> <td>08 Jun 2023</td> </tr> <tr> <td>GW-RE1299-22</td> <td>17 Dec 2022</td> <td>15 Jun 2023</td> </tr> </tbody> </table> <p><u>Recommendations</u> To minimize the impact for construction noise, mitigation measures are recommended:</p> <ol style="list-style-type: none"> 1. Training to new staff and regular enhance training for staff for CNP and other environmental issues. 2. Regularly check the status of ALL CNP and other environmental permits. <p><u>Action taken</u></p> <ul style="list-style-type: none"> - Trainings for CNP were provided to the labours on 22 Dec 2022. - No construction activities were allowed in the restricted hours for those areas without valid CNP. 		Construction Noise Permit	Valid Form	Valid Till	GW-RE1297-22	10 Dec 2022	08 Jun 2023	GW-RE1299-22	17 Dec 2022	15 Jun 2023	on. - No further complaint was received.
Construction Noise Permit	Valid Form	Valid Till												
GW-RE1297-22	10 Dec 2022	08 Jun 2023												
GW-RE1299-22	17 Dec 2022	15 Jun 2023												
C0006	A dust complaint was received by EPD on 6 Dec 2022. Contractor (POC) received Notification of Environmental Complaints from EPD (ref.: K19/RE/00027862-22)	Complaint of construction dust arising from construction sites along Shing Fung Road.	<p><u>Investigation</u> Site inspections were conducted by ET on 26 Jan 2023 and joint site inspection was conducted by Contractor (POC), ER, ET and IEC on 8 Feb 2023.</p> <ol style="list-style-type: none"> 1. The concerned area (roundabout) is the common road for public vehicles. In addition, construction vehicles from several nearby construction sites also use the concerned road, especially a lots of dump trucks. 2. Construction vehicles from Contractor (POC) project site are not allowed leaving the site to Shing Fung Road directly 		- Closed-out on 16 Mar 2023. -									

Complaint Log for ED/2018/01				
Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Recommendations / Actions	Close-Out Date / Status
	by E-Mail on 7 Dec 2022. IEC received the notification on 19 Jan 2023 and forwarded the notification to CEDD, ER and ET on same day.		<p>as the exit was blocked by barriers since 21 Jan 2023.</p> <ol style="list-style-type: none"> 3. Worker of sub-contractor from Contractor (POC) wetted the part of the concerned road surface during the site inspection on 8 Feb 2023 to suppress dust emission. 4. No construction works was observed on 26 Jan 2023 and no adverse observation against the dust impact were found during the site inspection on both dates. <p><u>Action taken</u></p> <ol style="list-style-type: none"> 1. Haul Road surfaces were wetted manually and washed the dusty water barrier regularly. 2. Wheel washing for the trucks and vehicles before leaving the project site directly through Shing Fung Road exit. 3. Construction vehicles from Contractor (POC) are not allowed leaving the site to Shing Fung Road directly as the exit was blocked by barriers since 21 Jan 2023. <p><u>Recommendations</u></p> <p>There was no direct evidence showing that the dust nuisance was caused by the contractor at the complaint area, however Contractor (POC) is recommended to implement the following measures to minimize the impact for air quality:</p> <ol style="list-style-type: none"> 1. Main haul road and the area that water sprinklers system was not covered in the construction site should be wetted manually in regular basis. 2. Regular wash the share haul road and roundabout in Shing Fung Road. 3. Wheel washing for the trucks and vehicles before leaving the project site. The muddy water after the wheel washing should be directed to sedimentation tank and wastewater treatment facility before discharging to gully. 4. Dusty materials transported on truck shall be covered. 	

Complaint Log for ED/2018/01				
Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Recommendations / Actions	Close-Out Date / Status
C0007	<p>A dust complaint was received by EPD on 19 Jan 2023.</p> <p>Contractor (POC) received Notification of Environmental Complaints from EPD (ref.: K19/RE/00001988-23) by E-Mail on 2 Feb 2023.</p> <p>IEC received the notification on 2 Feb 2023 and forwarded the notification to CEDD, ER and ET on the same day.</p>	<p>Complaint of dusty environment at the new road connecting Shing Fung Road and Shing Kai Road caused by vehicles from construction sites nearby.</p>	<p><u>Investigation</u> Joint site inspection was conducted by Contractor (POC), ER, ET and IEC on 8 Feb 2023.</p> <ol style="list-style-type: none"> 1. The concerned area (new road connecting Shing Fung Road & Shing Kai Road) has been open for public vehicles (not only project related vehicles) since 31 Dec 2022. 2. Construction vehicles from POC are not allowed leaving the site to Shing Fung Road directly with barriers blocked since 21 Jan 2023. 3. Contractor (POC) has restricted the construction vehicles from nearby construction site (Gammon site) using this site entrance for any construction activities since 4 Feb 2023. 4. Worker of sub-contractor from Contractor (POC) wetted the part of the concerned road surface during the site inspection on 8 Feb 2023 to suppress dust emission. 5. No adverse observation against the dust impact were found during the site inspection along the new road. <p><u>Action taken</u></p> <ol style="list-style-type: none"> 1. Haul Road surfaces were wetted manually and washed the dusty water barrier regularly. 2. Wheel washing for the trucks and vehicles before leaving the project site. 3. Contractor (POC) has restricted the construction vehicles from nearby construction site (Gammon site) using this site entrance for any construction activities since 4 Feb 2023. <p><u>Recommendations</u> There was no direct evidence showing that the dust nuisance was caused by the contractor at the complaint area, however Contractor (POC) is recommended to implement the following measures to minimize the impact for air quality:</p> <ol style="list-style-type: none"> 1. Main haul road and the area that water sprinklers system 	<p>- Closed-out on 16 Mar 2023.</p> <p>-</p>

Complaint Log for ED/2018/01				
Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Recommendations / Actions	Close-Out Date / Status
			<p>was not covered in the construction site should be wetted by water trucks or manually in regular basis.</p> <ol style="list-style-type: none"> 2. Regular wash the share haul road in Shing Fung Road. 3. Wheel washing for the trucks and vehicles before leaving the project site. The muddy water after the wheel washing should be directed to sedimentation tank and wastewater treatment facility before discharging to gully. 4. Dusty materials transported on truck shall be covered. 	
C0008	<p>A dust complaint was received by EPD on 13 Feb 2023.</p> <p>Contractor (POC) received the Notification of Environmental Complaints from EPD (ref.: K19/RE/00003909-23) by E-Mail on 17 Feb 2023 and forwarded the E-mail to ER, ET and IEC on same day.</p>	<p>Complaint of silt / mud accumulation on the new road connecting Shing Fung Road and Shing Kai Road caused by vehicles from construction sites nearby.</p>	<p><u>Investigation</u></p> <p>Joint site inspection was conducted by Contractor (POC), ER, ET and IEC on 23 Feb 2023 and regular site inspection was conducted by Contractor (POC), ER and ET on 2 Mar 2023.</p> <ol style="list-style-type: none"> 1. The concerned area (new road connecting Shing Fung Road & Shing Kai Road) has been open for public vehicles (not only project related vehicles) since 31 Dec 2022. Vehicles from nearby construction sites also used the concerned road. Those are the possible sources of dust nuisance. 2. Construction vehicles from POC are not allowed leaving the site to Shing Fung Road directly with barriers blocked since 21 Jan 2023. 3. Contractor (POC) has restricted the construction vehicles from nearby construction site (Gammon site) using this site entrance for any construction activities since 4 Feb 2023. 4. As per Contractor (POC), EPD conducted site visit on 16 Feb 2023. 5. No adverse observation against the dust / muddy water impact were found during the site inspection on both dates. <p><u>Action taken</u></p> <ol style="list-style-type: none"> 1. Construction vehicles from Contractor (POC) are not allowed leaving the site to Shing Fung Road directly as the exit was blocked by barriers since 21 Jan 2023. 	<p>- Closed-out on 29 Mar 2023.</p> <p>-</p>

Complaint Log for ED/2018/01														
Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Recommendations / Actions	Close-Out Date / Status										
			<p>2. Contractor (POC) has restricted the construction vehicles from nearby construction site (Gammon site) using this site entrance for any construction activities since 4 Feb 2023.</p> <p>3. Haul Road surfaces were wetted manually and washed the dusty water barrier regularly.</p> <p>4. Wheel washing for the trucks and vehicles before leaving the project site.</p> <p>5. As per instruction from CEDD and AECOM, road washing along the new road (connecting Shing Fung Road and Shing Kai Road) and Shing Fung Road by water truck was conducted once a week as follow:</p> <table border="1"> <thead> <tr> <th>Date</th> <th>Road Washing by</th> </tr> </thead> <tbody> <tr> <td>8 Mar 2023</td> <td>Sweeper truck with water spraying truck</td> </tr> <tr> <td>9 Mar 2023</td> <td>Sweeper truck with water spraying truck</td> </tr> <tr> <td>14 Mar 2023</td> <td>Sweeper truck with water spraying truck</td> </tr> <tr> <td>22 Mar 2023</td> <td>Sweeper truck with water spraying truck</td> </tr> </tbody> </table> <p>6. During the two site inspections, mitigation measures implemented by the Contractor (POC) were found properly based on existing site condition and resources.</p> <p><u>Recommendations</u> There was no direct evidence showing that the dust nuisance was caused by the contractor at the complaint area, however Contractor (POC) is recommended to implement the following measures to minimize the impact for air quality:</p> <ol style="list-style-type: none"> 1. 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. 2. Regular wash the share haul road in Shing Fung Road. 3. Dusty materials transported on truck shall be covered. 	Date	Road Washing by	8 Mar 2023	Sweeper truck with water spraying truck	9 Mar 2023	Sweeper truck with water spraying truck	14 Mar 2023	Sweeper truck with water spraying truck	22 Mar 2023	Sweeper truck with water spraying truck	
Date	Road Washing by													
8 Mar 2023	Sweeper truck with water spraying truck													
9 Mar 2023	Sweeper truck with water spraying truck													
14 Mar 2023	Sweeper truck with water spraying truck													
22 Mar 2023	Sweeper truck with water spraying truck													
C0009	A dust complaint was received by EPD on	Complaint of mud / silt being brought	<p><u>Investigation</u> Joint site inspection was conducted by Contractor (POC), ER,</p>	- Closed-out										

Complaint Log for ED/2018/01				
Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Recommendations / Actions	Close-Out Date / Status
	15 Feb 2023. Contractor (POC) received the Notification of Environmental Complaints from EPD (ref.: K19/RE/00004280-23) by E-Mail on 22 Feb 2023 and forwarded the E-mail to ER, ET and IEC on same day.	out by vehicles from construction site at Shing Fung Road roundabout (near Lamp Post DF4831) causing mud / silt accumulation along Shing Fung Road.	<p>ET and IEC on 23 Feb 2023 and regular site inspection was conducted by Contractor (POC), ER and ET on 2 Mar 2023.</p> <ol style="list-style-type: none"> 1. The concerned area (new road connecting Shing Fung Road & Shing Kai Road) has been open for public vehicles (not only project related vehicles) since 31 Dec 2022. Vehicles from nearby construction sites also used the concerned road. Those are the possible sources of dust nuisance. 2. Construction vehicles from POC are not allowed leaving the site to Shing Fung Road directly with barriers blocked since 21 Jan 2023. 3. Contractor (POC) has restricted the construction vehicles from nearby construction site (Gammon site) using this site entrance for any construction activities since 4 Feb 2023. 4. As per Contractor (POC), EPD conducted site visit on 16 Feb 2023. 5. No adverse observation against the dust impact were found during the site inspection on both dates. <p><u>Action taken</u></p> <ol style="list-style-type: none"> 1. Construction vehicles from Contractor (POC) are not allowed leaving the site to Shing Fung Road directly as the exit was blocked by barriers since 21 Jan 2023. 2. Contractor (POC) has restricted the construction vehicles from nearby construction site (Gammon site) using this site entrance for any construction activities since 4 Feb 2023. 3. Haul Road surfaces were wetted manually and washed the dusty water barrier regularly. 4. Wheel washing for the trucks and vehicles before leaving the project site. 5. As per instruction from CEDD and AECOM, road washing along the new road (connecting Shing Fung Road and Shing Kai Road) and Shing Fung Road by water truck was conducted once a week as follow: 	on 29 Mar 2023.

Complaint Log for ED/2018/01															
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C0010	<p>A dust and muddy water complaint was received by Hotline 1823 on 9 Mar 2023.</p> <p>ER received the transfer from the Hotline 1823 on 9 Mar 2023 and forwarded the E-mail to Contractor (POC), ET and IEC on same day.</p>	<p>Complaint of dusty environment at the new road (connecting Shing Fung Road and Shing Kai Road) and Shing Fung Road roundabout.</p> <p>Worker wetted the road surface and might cause mud / silt problem.</p>	<p><u>Investigation</u> Joint site inspection was conducted by Contractor (POC), ER, and ET on 16 Mar 2023 and 23 Mar 2023.</p> <ol style="list-style-type: none"> 1. The concerned area (new road connecting Shing Fung Road & Shing Kai Road) has been open for public vehicles (not only project related vehicles) since 31 Dec 2022. Vehicles from nearby construction sites also used the concerned road. Those are the possible sources of dust nuisance. 2. Construction vehicles from POC are not allowed leaving the site to Shing Fung Road directly with barriers blocked since 21 Jan 2023. 3. Contractor (POC) has restricted the construction vehicles from nearby construction site (Gammon site) using this site entrance for any construction activities since 4 Feb 2023. 		- Closed-out on 6 Apr 2023.										

Complaint Log for ED/2018/01														
Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Recommendations / Actions	Close-Out Date / Status										
			<p>4. The sandbags were provided around the manholes.</p> <p>5. No adverse observation against the dust / muddy water impact were found during the site inspection on both dates.</p> <p><u>Action taken</u></p> <ol style="list-style-type: none"> 1. Construction vehicles from Contractor (POC) are not allowed leaving the site to Shing Fung Road directly as the exit was blocked by barriers since 21 Jan 2023. 2. Contractor (POC) has restricted the construction vehicles from nearby construction site (Gammon site) using this site entrance for any construction activities since 4 Feb 2023. 3. Haul Road surfaces were wetted manually and washed the dusty water barrier regularly. 4. Wheel washing for the trucks and vehicles before leaving the project site. 5. As per instruction from CEDD and AECOM, road washing along the new road (connecting Shing Fung Road and Shing Kai Road) and Shing Fung Road by water truck was conducted once a week as follow: <table border="1"> <thead> <tr> <th>Date</th> <th>Road Washing by</th> </tr> </thead> <tbody> <tr> <td>8 Mar 2023</td> <td>Sweeper truck with water spraying truck</td> </tr> <tr> <td>9 Mar 2023</td> <td>Sweeper truck with water spraying truck</td> </tr> <tr> <td>14 Mar 2023</td> <td>Sweeper truck with water spraying truck</td> </tr> <tr> <td>22 Mar 2023</td> <td>Sweeper truck with water spraying truck</td> </tr> </tbody> </table> <ol style="list-style-type: none"> 6. The sandbags were provided around the manholes. 7. During the two site inspections, mitigation measures implemented by the Contractor (POC) were found properly based on existing site condition and resources. <p><u>Recommendations</u></p> <p>There was no direct evidence showing that the dust nuisance was caused by the contractor at the complaint area, however Contractor (POC) is recommended to implement the following</p>	Date	Road Washing by	8 Mar 2023	Sweeper truck with water spraying truck	9 Mar 2023	Sweeper truck with water spraying truck	14 Mar 2023	Sweeper truck with water spraying truck	22 Mar 2023	Sweeper truck with water spraying truck	
Date	Road Washing by													
8 Mar 2023	Sweeper truck with water spraying truck													
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			measures to minimize the impact for air and water quality: 1. Dusty materials transported on truck shall be covered. 2. Enhance the sandbags with several layers of filters and replace the filter frequently.											
C0011	A muddy water complaint was received by EPD on 9 Mar 2023. Contractor (POC) received the Notification of Environmental Complaints from EPD (ref.: K19/RE/00006427-23) by E-Mail on 16 Mar 2023 and forwarded the E-mail to ER, ET and IEC on 17 Mar 2023.	Complaint of water being sprayed onto vehicles passing by and mud / silt being washed into roadside gully near Shing Fung Road roundabout.	<u>Investigation</u> Joint site inspection was conducted by Contractor (POC), ER and ET on 23 Mar 2023. 1. The concerned area (new road connecting Shing Fung Road & Shing Kai Road) has been open for public vehicles (not only project related vehicles) since 31 Dec 2022. Vehicles from nearby construction sites also used the concerned road. Those are the possible sources of dust / mud / silt nuisance. 2. The sandbags were provided around the manholes. 3. No adverse observation against the muddy water impact were found during the site inspection on both dates. <u>Action taken</u> 1. As per Contractor (POC), no manually road surfaces watering on Shing Fung Road after receiving complaint (16 Mar 2023). 2. As per instruction from CEDD and AECOM, road washing along the new road (connecting Shing Fung Road and Shing Kai Road) and Shing Fung Road by water truck was conducted once a week as follow: <table border="1"> <thead> <tr> <th>Date</th> <th>Road Washing by</th> </tr> </thead> <tbody> <tr> <td>8 Mar 2023</td> <td>Sweeper truck with water spraying truck</td> </tr> <tr> <td>9 Mar 2023</td> <td>Sweeper truck with water spraying truck</td> </tr> <tr> <td>14 Mar 2023</td> <td>Sweeper truck with water spraying truck</td> </tr> <tr> <td>22 Mar 2023</td> <td>Sweeper truck with water spraying truck</td> </tr> </tbody> </table> 3. The sandbags were provided around the manholes. <u>Recommendations</u>	Date	Road Washing by	8 Mar 2023	Sweeper truck with water spraying truck	9 Mar 2023	Sweeper truck with water spraying truck	14 Mar 2023	Sweeper truck with water spraying truck	22 Mar 2023	Sweeper truck with water spraying truck	- Closed-out on 6 Apr 2023.
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8 Mar 2023	Sweeper truck with water spraying truck													
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			<p>There was no direct evidence showing that the muddy water nuisance was caused by the contractor at the complaint area, however Contractor (POC) is recommended to implement the following measures to minimize the impact for air and water quality:</p> <ol style="list-style-type: none"> 1. Enhance the sandbags with several layers of filters and replace the filter frequently. 							
C0012	<p>A dust complaint was received by EPD on 31 May 2023.</p> <p>Contractor (POC) received the Notification of Environmental Complaints from EPD (ref.: K19/RE/00013488-23) by E-Mail on 6 June 2023 and forwarded the E-mail to ER, ET and IEC on same day.</p>	<p>Complaint of silt / mud accumulation on the new road connecting Shing Fung Road and Shing Kai Road caused by vehicles from construction site nearby.</p>	<p><u>Investigation</u></p> <p>Joint site inspection was conducted by Contractor (POC), ER and ET on 8 June 2023.</p> <ol style="list-style-type: none"> 1. As per Mr. Tony Tang from POC, the concerned area was the section of Shing Fung Road at the entrance of Gammon site accommodation. 2. The new road connecting Shing Fung Road & Shing Kai Road) has been open for public vehicles (not only project related vehicles) since 31 December 2022. Vehicles from nearby construction sites also used the concerned road. Those are the possible sources of dust / silt nuisance. 3. As per Mr. Tony Tang from POC, recycled water was used in wheel washing machine near the entrance of Gammon site. Those are the possible sources of mud nuisance. 4. No adverse observation against the dust impact were found during the site inspection. <p><u>Action taken</u></p> <ol style="list-style-type: none"> 1. As per instruction from CEDD and AECOM, road washing along the new road (connecting Shing Fung Road and Shing Kai Road) and Shing Fung Road by water truck was conducted twice a week start from 11 May 2023. <table border="1"> <thead> <tr> <th>Date</th> <th>Road Washing by</th> </tr> </thead> <tbody> <tr> <td>19 May 2023</td> <td>Sweeper truck with water spraying truck</td> </tr> <tr> <td>23 May 2023</td> <td>Sweeper truck with water spraying truck</td> </tr> </tbody> </table>	Date	Road Washing by	19 May 2023	Sweeper truck with water spraying truck	23 May 2023	Sweeper truck with water spraying truck	- Closed-out on 19 June 2023.
Date	Road Washing by									
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Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Recommendations / Actions		Close-Out Date / Status												
			<table border="1"> <tr> <td>25 May 2023</td> <td>Sweeper truck with water spraying truck</td> </tr> <tr> <td>30 May 2023</td> <td>Sweeper truck with water spraying truck</td> </tr> <tr> <td>2 June 2023</td> <td>Sweeper truck with water spraying truck</td> </tr> <tr> <td>6 June 2023</td> <td>Sweeper truck with water spraying truck</td> </tr> <tr> <td>9 June 2023</td> <td>Sweeper truck with water spraying truck</td> </tr> <tr> <td>13 June 2023</td> <td>Sweeper truck with water spraying truck</td> </tr> </table>	25 May 2023	Sweeper truck with water spraying truck	30 May 2023	Sweeper truck with water spraying truck	2 June 2023	Sweeper truck with water spraying truck	6 June 2023	Sweeper truck with water spraying truck	9 June 2023	Sweeper truck with water spraying truck	13 June 2023	Sweeper truck with water spraying truck	<p>2. Wheel washing for the vehicles before leaving the construction site.</p> <p><u>Recommendations</u> There was no direct evidence showing that the dust nuisance was caused by the contractor at the complaint area, however Contractor (POC) is recommended to implement the following measures to minimize the impact for air quality:</p> <ol style="list-style-type: none"> Regular wash the share haul road in Shing Fung Road and Shing Kai Road. <p>Dusty materials transported on truck should be covered.</p>	
25 May 2023	Sweeper truck with water spraying truck																
30 May 2023	Sweeper truck with water spraying truck																
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13 June 2023	Sweeper truck with water spraying truck																
C0013	<p>A water complaint was received by EPD on 19 June 2023.</p> <p>Contractor (POC) received the Notification of Environmental Complaints from EPD (ref.: K19/RE/00014944-23) by E-Mail on 29 June 2023 and forwarded the E-mail to ER, ET and IEC on 4 July 2023.</p>	<ul style="list-style-type: none"> - Complaint of muddy water being discharged into Kai Tak Approach Channel on 18 Jun 2023. - Complaint of construction work being conducted on the Sunday of 18 Jun 2023. 	<p><u>Investigation</u> Joint site inspection was conducted by Contractor (POC), ER and ET on 6 Jul 2023.</p> <ol style="list-style-type: none"> As per Mr. Tony Tang from POC, the concerned area was the section of Shing Fung Road at the nearby channel. Heavy raining was recorded on 18 Jun 2023. The recorded rainfall was 35.8mm (sourced from manned weather station of Hong Kong Observatory at https://www.hko.gov.hk/en/cis/dailyExtract.htm?y=2023&m=6). The implication of heavy rainfall storm runoff might wash across the exposed soil surfaces which was direct muddy water discharge. This is the possible source of water nuisance. As per Mr. Tony Tang from POC, no construction work was conducted on 18 Jun 2023. Based on the attendance record, 6 employees including 4 watchman, labourer and 	- Closed-out on 2 Aug 2023.													

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			<p>driver, were on site on 18 Jun 2023 and they were not involved in the construction work. In the joint site inspection, no construction work was conducted on the nearby channel.</p> <p>4. No adverse observation against the muddy water impact were found during the site inspection on 14 and 20 June 2023, and 6 July 2023. The sedimentation tank and wastewater treatment plant are operating efficiently during the site inspection.</p> <p><u>Action taken</u></p> <ol style="list-style-type: none"> 1. The ditch is maintained regularly and excavated deeper by workers. 2. Pumps are placed at the ditch to prevent flooding and overflow. 3. Enhanced training for site workers to prevent flushing during heavy rain by placing pumps in the ditch to prevent flooding and overflow during periods of heavy rain during Tool- Box-Talk training. <p><u>Recommendations</u></p> <p>There was no direct evidence showing that the muddy water nuisance was caused by the contractor at the complaint area, however Contractor (POC) is recommended to implement the following measures to minimize the impact for water quality:</p> <ol style="list-style-type: none"> 1. Regular cleaning and maintenance drainage systems at the nearby Kai Tak Approach Channel. 	