

Development at West Kowloon Cultural District

**Monthly Environmental Monitoring and Audit (EM&A) Report
for June 2026**

10 July 2026

In accordance with the Environmental Permit, Condition 3.4, this Monthly EM&A Report has been certified by the Environmental Team Leader (ETL) and verified by the Independent Environmental Checker (IEC) as complying with the requirements as set out in Sections 1, 10, 11, 12 and 13 of the EM&A Manual.

Certified by:



Max LEE

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Date

13 July 2026

Verified by:



Claudine LEE

Independent Environmental Checker (IEC)

Meinhardt Infrastructure & Environment Ltd

Date

13 July 2026

This Report Consists of:

Part-1: EM&A at Lyric Theatre Complex

and

**Part-2: EM&A for ELS Works for The
Integrated Basement and
Underground Road in Zones 2A, 2B
& 2C**

Part-1: EM&A at Lyric Theatre Complex



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(EM&A) Report for June 2026

8 July 2026

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Executive summary

Mott MacDonald Hong Kong Limited (MMHK) was commissioned to undertake the Environmental Team (ET) services (including environmental monitoring and audit (EM&A)) for the construction of M+ Museum Main Works (Contract No.: CC/2015/3A/022) and Lyric Theatre Complex including the Foundation Works (Contract No.: CC/2015/3A/014), L1 Contract (Contract No. CC/2017/3A/030) and L2 Contract (Contract No. CC/2017/3A/031) at West Kowloon Cultural District (WKCD) (The Project) as part of the WKCD development. The Project Proponent is the West Kowloon Cultural District Authority (WKCD). The construction works and EM&A programme for M+ Museum was commenced on 31 October 2015 and completed on 28 February 2021; while the construction works and EM&A programme for Lyric Theatre Complex (L1 and L2 Contracts) was commenced on 1 March 2016, and the EM&A programme for L1 Contract was completed on 30 June 2021.

The overall works for the WKCD fall under two separate categories of Designated Project (DP) of the Environmental Impact Assessment Ordinance (EIAO), namely an “engineering feasibility study of urban development projects with a study area covering more than 20 ha or involving a total population of more than 100 000” (Item 1 of Schedule 3) and “an underpass more than 100m in length under the built areas” (Item A.9, Part I, Schedule 2). An Environmental Permit No. EP-453/2013/B was issued with respect to the “Underpass Road and Austin Road Flyover Serving the West Kowloon Cultural District” which specifically includes the abovementioned category of DP under Item A.9, Part I, Schedule 2 of the EIAO. On 26 May 2026, a variation of the Environmental Permit was issued with No. EP-453/2013/C (EP).

This Monthly EM&A Report presents the monitoring works at Lyric Theatre Complex (L2 Contract) from 1 June to 30 June 2026.

Exceedance of Action and Limit Levels

There was no breach of Action or Limit levels for Air Quality (1-hour TSP and 24-hour TSP) and Noise in this reporting month.

Implementation of Mitigation Measures

Construction phase weekly site inspections were carried out on 3, 12, 18 and 24 June 2026 for Lyric Theatre Complex (L2 Contract) to confirm the implementation measures undertaken by the Contractor in the reporting month. The outcomes are presented in Section 4 and the status of implementation of mitigation measures in the site is shown in **Appendix J**.

Landscape and visual impact inspections were conducted as part of the abovementioned weekly site inspection during the reporting month. No adverse comment on landscape and visual aspects were made during the inspections.

Record of Complaints

No environmental complaint was recorded in the reporting month.

Record of Notifications of Summons and Successful Prosecutions

No notifications of summons and successful prosecutions were recorded in the reporting month.

Future Key Issues

The major site works for L2 to be commissioned in the coming month include:

- LTC construction
 - ABWF works
 - Façade work
 - MEP works
- ASDA and Lyric Theatre Promenade
 - Installation of louvers
- DCS cofferdam
 - Excavation
 - Backfilling work
 - Construction of manholes and cable draw pits
 - Construction of water main trough
 - Installation of UU services
 - Construction of R.C structure
 - Construction of slab
 - Installation of smoke vent
 - Installation of draw pit

Potential environmental impacts due to the construction activities, including air quality, noise, water quality, waste, landscape and visual, will be monitored or reviewed. The recommended environmental mitigation measures shall be implemented on site and regular inspections as required will be carried out to ensure that the environmental conditions are acceptable.

1 Introduction

1.1 Background

Mott MacDonald Hong Kong Limited (MMHK) was commissioned to undertake the Environmental Team (ET) services (including environmental monitoring and audit (EM&A)) for the construction of M+ Museum Main Works (Contract No.: CC/2015/3A/022) and Lyric Theatre Complex including the Foundation Works (Contract No.: CC/2015/3A/014), L1 Contract (Contract No. CC/2017/3A/030) and L2 Contract (Contract No. CC/2017/3A/031) at West Kowloon Cultural District (WKCD) (The Project) as part of the WKCD development. The Project Proponent is the West Kowloon Cultural District Authority (WKCD). The construction works and EM&A programme for M+ Museum was commenced on 31 October 2015 and completed on 28 February 2021; while the construction works and EM&A programme for Lyric Theatre Complex (L1 and L2 Contracts) were commenced on 1 March 2016, and the EM&A programme for L1 Contract was completed on 30 June 2021.

The overall works for the WKCD fall under two separate categories of Designated Project (DP) of the Environmental Impact Assessment Ordinance (EIAO), namely an “engineering feasibility study of urban development projects with a study area covering more than 20 ha or involving a total population of more than 100 000” (Item 1 of Schedule 3) and “an underpass more than 100m in length under the built areas” (Item A.9, Part I, Schedule 2). An Environmental Permit No. EP-453/2013/B was issued with respect to the “Underpass Road and Austin Road Flyover Serving the West Kowloon Cultural District” which specifically includes the abovementioned category of DP under Item A.9, Part I, Schedule 2 of the EIAO. On 26 May 2026, a variation of the Environmental Permit was issued with No. EP-453/2013/C (EP). The captioned projects include part of the abovementioned underpass road located within the site boundary also falls under this same category.

The M+ Museum development aims to provide an iconic presence for the M+ Museum, semi-transparent vertical plane, housing education facilities, a public restaurant and museum offices. At ground and lower levels, generous access will be provided to the park and other West Kowloon Cultural District facilities, alongside a public resource centre, theatres, retail and dining, and back-of-house functions.

The Lyric Theatre Complex (now known as “the WestK Performing Arts Centre”) will comprise a 1,450-seat Grand Theatre, a 600-seat Medium Theatre and a 270-seat Studio Theatre. The complex will also house extensive rehearsal facilities and a Resident Company Centre that will serve as an exploration, development and collaboration hub for dance companies and artists in Hong Kong.

The Monthly EM&A Report is prepared in accordance with the Condition 3.4 of the Environmental Permit No. EP-453/2013/C. This Monthly EM&A Report presents the monitoring works at Lyric Theatre Complex (L2 Contract) from 1 June to 30 June 2026. The purpose of this report is to summarise the findings in the EM&A of the project over the reporting period.

1.2 Project Organisation

The organisation chart and lines of communication with respect to the on-site environmental management structure together with the contact information of the key personnel are shown in **Appendix A**.

1.3 Status of Construction Works in the Reporting Period

During the reporting period, construction works at L2 undertaken include:

- LTC construction
 - ABWF works
 - Façade work
 - MEP works
- ASDA and Lyric Theatre Promenade
 - Installation of louvers
- DCS cofferdam
 - Excavation
 - Backfilling work
 - Construction of manholes and cable draw pits
 - Construction of water main trough
 - Installation of UU services
 - Construction of R.C structure
 - Construction of slab
 - Installation of smoke vent
 - Installation of draw pit

The Construction Works Programme of Lyric Theatre Complex (L2 Contract) is provided in **Appendix B**. As on 31 January 2023, site area P32 was handed over to AST Developer and was thus excluded from the site boundary of Lyric Theatre Complex (L2 Contract), the area was delineated in red in the layout plan of the Project which is provided in **Figure 1**. Please refer to **Table 4.1** on the status of the environmental licenses.

1.4 Summary of EM&A Requirements and Alternative Monitoring Locations

The EM&A programme requires environmental monitoring of air quality, noise, landscape and visual as specified in the approved EM&A Manual.

1.4.1 EM&A Requirements

A summary of impact EM&A requirements is presented in **Table 1.1**.

Table 1.1: Summary of Impact EM&A Requirements

Parameters	Descriptions	Locations	Frequencies
Air Quality	24-Hour TSP	AM1 – International Commerce Centre	At least once every 6 days
	1-Hour TSP	AM1 – International Commerce Centre	At least 3 times every 6 days
	24-Hour TSP	AM2 – The Harbourside Tower 1	At least once every 6 days
	1-Hour TSP	AM2 – The Harbourside Tower 1	At least 3 times every 6 days
Noise	Leq, 30 minutes	NM1- The Harbourside Tower 1	Weekly

Parameters	Descriptions	Locations	Frequencies
Landscape & Visual	Monitor implementation of proposed mitigation measures during the construction stage	As described in Table 9.1 and 9.2 of the EM&A Manual	Bi-weekly

1.4.2 Alternative Monitoring Locations

In the context of the monitoring activities at M+ Museum and the Lyric Theatre Complex, three monitoring stations had been considered, including AM1 (International Commerce Centre), AM2 (The Harbourside Tower 1) for air monitoring, and NM1 (The Harbourside Tower 1) for noise monitoring. Other monitoring locations (i.e. AM3 to AM5 and NM2 to NM5) were so far away from M+ Museum and the Lyric Complex and could not be representative for impact monitoring.

The Harbourside management office formally rejected our proposal of setting up air quality and noise monitoring equipment on its premises at the podium level of Tower 1 (AM2/NM1) on 10 November 2015. Nevertheless, a suitable air quality monitoring location at AM2 was identified on the ground floor in front of The Harbourside Tower 1, which is at the same location as that of baseline monitoring for consistency. No management approval is required on the ground floor for conducting the air monitoring. However, the electricity supply at AM2 was suspended from 31 August 2016. In order to have a more secure electricity supply, an alternative air monitoring location (AM2A) was identified at Austin Road West opposite to The Harbourside Tower 1, which is close to Lyric Theatre Complex site entrance. This alternative air monitoring location was approved by EPD on 28 September 2016. Due to the works programme, the air monitoring location AM2A has been relocated to the alternative monitoring location AM2B at the 1st floor of Gammon's site office, which was approved by EPD on 21 February 2019. In view of the upcoming construction works to be undertaken at the air monitoring station AM2B, AM2B was no longer available for conducting the impact air quality monitoring. Hence, an alternative air monitoring location was identified on the ground floor in front of The Harbourside Tower 1 (AM2) which is at the same location as the baseline monitoring and this previously approved monitoring location had also been used for the EM&A Programme from November 2015 to August 2016, the relocation was approved by EPD on 27 May 2021.

Alternative noise monitoring location was identified at The Arch (NM2); however, The Arch management office formally rejected our proposal of setting up noise monitoring equipment on its premises on 23 November 2015. On the other hand, noise monitoring at G/F of Harbourside could not be representative. However, approval from the management office of the International Commerce Centre has been granted on 29 February 2016 for conducting noise monitoring at the alternative noise monitoring location identified at the podium floor (NM1A) which is free from screening to the construction activities.

In short, 2 air quality monitoring stations and 1 noise impact monitoring station were confirmed for the impact monitoring.

The Environmental Quality Performance Limits for air quality and noise are shown in **Appendix C**.

The Event and Action Plan for air quality, construction noise, and landscape and visual are shown in **Appendix D**.

The EM&A programme followed the recommended mitigation measures in the EM&A Manual. The EM&A requirements as well as the summary of implementation status of the environmental mitigation measures are provided in **Appendix J**.

2 Impact Monitoring Methodology

2.1 Introduction

For air quality and noise, the monitoring methodology, including the monitoring locations, monitoring equipment used, monitoring parameters, and frequency and duration etc., for air quality and noise are detailed in this Section. The environmental monitoring schedules for the reporting period and the tentative monitoring schedule for the coming month are provided in **Appendix E**.

For landscape and visual impact, the relevant EM&A monitoring requirements and details are also presented in this Section.

2.2 Air Quality

2.2.1 Monitoring Parameters, Frequency and Duration

Table 2.1 summarizes the monitoring parameters, frequency and duration of the TSP monitoring.

Table 2.1: Air Quality Monitoring Parameters, Frequency and Duration

Parameter	Frequency	Duration
24-hour TSP	At least once in every six-days	24 hours
1-hour TSP	At least 3 times every six-days	60 minutes

2.2.2 Monitoring Locations

Currently, the works under the captioned project are confined in the western part of the WKCD site. Therefore, only the monitoring stations AM1 and AM2 were set up at the proposed locations in accordance with updated EM&A Manual. Location of the monitoring station is given in **Table 2.2** and shown in **Figure 1**.

Table 2.2: Air Quality Monitoring Station

Monitoring Station	Location
AM1	International Commerce Centre (ICC)
AM2	The Harbourside Tower 1 – Ground Floor

2.2.3 Monitoring Equipment

For 24-hour TSP air quality monitoring, High Volume Sampler (HVS) was used at air monitoring station AM1 and portable direct reading dust meter was used at air monitoring station AM2 due to the unavailability of power supply for HVS at / in the vicinity of the AM2. The portable direct reading dust meter is capable of producing comparable results as that by the HVS method. For 1-hour TSP monitoring, portable direct reading dust meter was used for the measurement.

Table 2.3 summarizes the equipment used in the impact air quality monitoring. Copies of the calibration certificates for the calibration kit and portable dust meters are attached in **Appendix F**.

Table 2.3: TSP Monitoring Equipment

Equipment	Model
24-hour TSP monitoring	
High Volume Sampler	TE-5170 (Serial No: 0767)
Calibrator	TE-5025A (Orifice I.D.: 2454)
Portable direct reading dust meter	Sibata LD-5R (Serial No.: 831656)
1-hour TSP monitoring	
Portable direct reading dust meter	Sibata LD-3B (Serial No.: 235786 and 276020)

Calibration of the HVS (five point calibration) using Calibration Kit was carried out every two months. The HVS calibration orifice will be calibrated annually. Calibration certificate of the TE-5025A Calibration Kit and the HVS are provided in **Appendix F**.

The portable direct reading dust meter should be determined periodically (e.g. annually) by the HVS to check the validity and accuracy of the results measured by direct reading method.

2.2.4 Monitoring Methodology

24-hour TSP Monitoring (HVS)

Installation

The HVS was installed at the site boundary. The following criteria were considered in the installation of the HVS.

- A horizontal platform with appropriate support to secure the sampler against gusty wind was provided.
- The distance between the HVS and any obstacles, such as buildings, was at least twice the height that the obstacle protrudes above the HVS.
- A minimum of 2 metres separation from walls, parapets and penthouse was required for rooftop sampler.
- A minimum of 2 metres separation from any supporting structure, measured horizontally was required.
- No furnace or incinerator flues or building vent were nearby.
- Airflow around the sampler was unrestricted.
- The sampler has been more than 20 metres from any drip line.
- Permission was obtained to set up the sampler and to obtain access to the monitoring station.
- A secured supply of electricity is needed to operate the sampler.

Preparation of Filter Papers

- Glass fibre filters were labelled and sufficient filters that were clean and without pinholes were selected.
- The filters used are specified to have a minimum collection efficiency of 99 percent for 0.3 µm (DOP) particles.
- All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than ±3 °C with relative humidity (RH) < 50% and was not variable by more than ±5 %. A convenient working RH was 40%. All preparation of filters was done by Hong Kong Laboratory Accreditation Scheme (HOKLAS) accredited laboratory.

Field Monitoring Procedures

- The power supply was checked to ensure the HVS works properly.
- The filter holder and the area surrounding the filter were cleaned.
- The filter holder was removed by loosening the four bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully.
- The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter.
- The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied should be sufficient to avoid air leakage at the edges.
- The shelter lid was closed and was secured with the aluminium strip.
- The HVS was warmed-up for about 5 minutes to establish run-temperature conditions.
- A new flow rate record sheet was set into the flow recorder.
- The flow rate of the HVS was checked and adjusted at around 1.3 m³/min. The range specified in the EM&A Manual was between 0.6-1.7 m³/min.
- The programmable timer was set for a sampling period of 24 hours, and the starting time, weather condition and the filter number were recorded.
- The initial elapsed time was recorded.
- At the end of sampling, the sampled filter was removed carefully and folded in half length so that only surfaces with collected particulate matter were in contact.
- It was then placed in a clean plastic envelope and sealed.
- All monitoring information was recorded on a standard data sheet.
- Filters were sent to a Hong Kong Laboratory Accreditation Scheme (HOKLAS) accredited laboratory for analysis.

Maintenance and Calibration

- The HVS and its accessories are maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
- HVSs were calibrated upon installation and thereafter at bi-monthly intervals. The calibration kits were calibrated annually.

Weather Condition

- Meteorological data extracted from Hong Kong Observatory for the reporting month is provided in **Appendix H**.

24-hour TSP Monitoring (Portable direct reading dust meter)

Field Monitoring

The measuring procedures of the portable direct reading dust meter are in accordance with the Manufacturer's Instruction Manual as follows:

- Turn the power on.
- Close the air collecting opening cover.
- Push the "TIME SETTING" switch to [BG].
- Push "START/STOP" switch to perform background measurement for 6 seconds.
- Turn the knob at SENSI ADJ position to insert the light scattering plate.

- Leave the equipment for 1 minute upon “SPAN CHECK” is indicated in the display.
- Push “START/STOP” switch to perform automatic sensitivity adjustment. This measurement takes 1 minute.
- Pull out the knob and return it to MEASURE position.
- Setting time period of 24 hours for the 24-hour TSP measurement.
- Push “START/STOP” to start the 24-hour TSP measurement.
- Regular checking of the time period setting to ensure monitoring time of 24 hours.

Maintenance and Calibration

- The portable direct reading dust meter would be checked at 3-month intervals and calibrated at 1-year intervals throughout all stages of the air quality monitoring.
- Calibration records for direct dust meters are shown in **Appendix F**.

Weather Condition

- Meteorological data extracted from Hong Kong Observatory for the reporting month is provided in **Appendix H**.

1-hour TSP Monitoring

Field Monitoring

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

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

Maintenance and Calibration

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

Weather Condition

- Meteorological data extracted from Hong Kong Observatory for the reporting month is provided in **Appendix H**.

2.3 Noise

2.3.1 Monitoring Parameters, Frequency and Duration

Table 2.4 summarizes the monitoring parameters, frequency and duration of noise monitoring. The noise in A-weighted levels L_{eq} , L_{10} and L_{90} are recorded in a 30-minute interval between 0700 and 1900 hours.

Table 2.4: Noise Monitoring Parameters, Period and Frequency

Time Period	Parameters	Frequency
Daytime on normal weekdays (0700-1900 hours)	L_{eq} (30 min), L_{90} (30 min) & L_{10} (30 min)	Once every week

2.3.2 Monitoring Location

Currently, the works under the captioned project are confined in the western part of the WKCD site. Therefore, only the monitoring station NM1A was set up. Location of the monitoring station is given in **Table 2.5** and shown in **Figure 1**.

Table 2.5: Noise Monitoring Station

Monitoring Station	Location
NM1A	International Commerce Centre (ICC)

2.3.3 Monitoring Equipment

Integrating Sound Level Meter was used for noise monitoring. It was a Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level (L_{Aeq}) and percentile sound pressure level (L_x). They comply with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1). **Table 2.6** summarizes the noise monitoring equipment model being used.

Table 2.6: Noise Monitoring Equipment

Monitoring Station	Equipment Model	
	Integrating Sound Level Meter	Calibrator
NM1A	Rion NL-52 (Serial No. 00643040)	LARSON DAVIS CAL200 (Serial No. 11334)

2.3.4 Monitoring Methodology

Field Monitoring

- The microphone of the Sound Level Meter was set at least 1.2 m above the ground.
- Free Field measurement was made at the monitoring locations.
- The battery condition was checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - frequency weighting: A
 - time weighting: Fast
 - time measurement: 30 minutes intervals (between 0700-1900 on normal weekdays)
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94 dB at 1 kHz. If the difference in the calibration level before and after measurement was more than 1 dB, the measurement would be considered invalid and has to be repeated after re-calibration or repair of the equipment.

- During the monitoring period, the L_{eq} , L_{10} and L_{90} were recorded. In addition, any site observations and noise sources were recorded on a standard record sheet.
- A correction of +3dB(A) was made to the free field measurements.

Maintenance and Calibration

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

Weather Condition

- Meteorological data extracted from Hong Kong Observatory for the reporting month is provided in **Appendix H**.

2.4 Landscape and Visual

2.4.1 Monitoring Program

Table 2.7 details the monitoring program (as proposed in the WKCD EIA report) for landscape and visual impact during the construction phase.

Table 2.7: Monitoring Program for Landscape and Visual Impact during Construction Phase

Stage	Monitoring Task	Frequency	Report	Approval
Construction	Monitor implementation of proposed mitigation measures during the construction stage.	Bi-weekly	ET to report on Contractor's compliance	Counter-signed by IEC

During the landscape and visual impact monitoring, any changes in relation to the landscape and visual amenity should be monitored with reference to the baseline conditions of the site. In addition, mitigation measures were proposed in the WKCD EIA report to minimise the landscape and visual impacts during the construction phase. The proposed mitigation measures as shown in Table 9.1 and Table 9.2 of the EM&A Manual should be checked for proper implementation.

3 Monitoring Results

3.1 Impact Monitoring

Construction impact monitoring for air quality, noise and landscape and visual impact was undertaken in compliance with the EM&A Manual during the reporting month.

3.2 Air Quality Monitoring

3.2.1 1-hour TSP

Results of 1-hour TSP at the monitoring location AM1 and AM2 are summarised in **Table 3.1**. Graphical plots of the monitoring results are shown in **Appendix G**.

Table 3.1: Summary of 1-hour TSP monitoring results

Monitoring Station	Monitoring Date	Start Time	1-hour TSP ($\mu\text{g}/\text{m}^3$)			Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
			1 st Result	2 nd Result	3 rd Result			
AM1	3-Jun-26	8:32	30	29	24	18-30	273.7	500
	9-Jun-26	8:30	24	22	21			
	15-Jun-26	8:32	25	29	30			
	18-Jun-26	8:32	24	19	18			
	24-Jun-26	8:37	24	28	29			
	30-Jun-26	8:28	19	21	18			
AM2	3-Jun-26	10:46	35	39	34	19-39	274.2	500
	9-Jun-26	8:47	30	28	26			
	15-Jun-26	8:48	34	31	39			
	18-Jun-26	8:47	27	24	23			
	24-Jun-26	8:54	31	35	39			
	30-Jun-26	8:54	22	24	19			

3.2.2 24-hour TSP

Results of 24-hour TSP at the monitoring location AM1 and AM2 are summarised in **Table 3.2**. Graphical plots of the monitoring results are shown in **Appendix G**.

Table 3.2: Summary of 24-hour TSP monitoring results

Monitoring Station	Monitoring Date	Start Time	Monitoring Results ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AM1	03-Jun-26	8:30	12	12-18	143.6	260
	09-Jun-26	8:28	17			
	15-Jun-26	8:30	17			
	18-Jun-26	8:30	12			
	24-Jun-26	8:35	18			
	30-Jun-26	8:35	14			
AM2	3-Jun-26	10:48	28	23-30	151.1	260
	9-Jun-26	8:45	28			

15-Jun-26	8:46	30
18-Jun-26	8:45	28
24-Jun-26	8:52	27
30-Jun-26	8:52	23

No exceedance of 1-hour and 24-hour TSP (Action or Limit Level) was recorded in the reporting period.

3.3 Noise Monitoring

The construction noise monitoring results at the monitoring location NM1A are summarized in **Table 3.3**. Graphical plots of the monitoring data and the station set-up of a free-field measurement are shown in **Appendix G**.

Table 3.3: Summary of noise monitoring results during normal weekdays

Monitoring Date	Start Time	End Time	L _{eq} (30 mins)*, dB(A)	Limit Level for L _{eq} (dB(A))
3-Jun-26	8:35	9:05	64	75
9-Jun-26	9:35	10:05	65	
15-Jun-26	9:35	10:05	65	
24-Jun-26	9:42	10:12	65	
30-Jun-26	9:40	10:10	65	

Remarks:

* +3dB (A) correction was applied to free-field measurement.

No exceedance (Action/Limit Level) of construction noise was recorded in the reporting month.

3.4 Landscape and Visual Impact

Landscape and visual impact inspections were conducted as part of the weekly site inspection on 12 and 24 June 2026 for Lyric Theatre Complex (L2 Contract) during the reporting month. As reviewed by the registered Landscape Architect, no adverse comment on landscape and visual aspects was made during this inspection.

The landscape and visual mitigation measures were implemented during the reporting period. The summary of implementation status of the environmental mitigation measures is provided in **Appendix J**.

4 Site Environmental Management

4.1 Site Inspection

Construction phase weekly site inspections were carried out on 3, 12, 18 and 24 June 2026 at Lyric Theatre Complex (L2 Contract). While the site environmental management committee meeting with IEC, ET, ER and Contractor was held on 18 June 2026. All observations have been recorded in the site inspection checklist and passed to the Contractor together with the appropriate recommended mitigation measures where necessary.

The key observations from the site inspections and associated recommendations are summarized in **Table 4.1**.

Table 4.1: Summary of Site Inspections and Recommendations for L2

Inspection Date	Parameter	Observation / Recommendation	Contractor's Responses / Action(s) Undertaken	Close-out (Date)
3/6/2026	Noise	The breaker was observed without proper noise mitigation measures, the contractor was reminded to provide a suitable noise insulating fabric for the breaker.	The breaker head was no longer in use and removed.	12/6/2026
3/6/2026	Water Quality	Chemical containers were observed idle on ground, the contractor was reminded to provide suitable drip trays or remove them if no longer in use.	The chemical containers were no longer in use and removed.	12/6/2026
3/6/2026	Water Quality	Oil stain was observed, the contractor should clear the oil stain and treat them properly.	The oil stain was cleared and treated properly.	12/6/2026
12/6/2026	Waste Management	The contractor was reminded to regularly clear the general refuse and ensure proper storage.	The contractor has removed the waste.	18/6/2026
18/6/2026	Water Quality	Idle chemical containers were observed on site, the contractor was reminded to store them properly.	The chemical containers were removed.	24/6/2026
24/6/2026	Noise	The breaker was observed without proper noise mitigation measures, the contractor was reminded to provide a suitable noise insulating fabric for the breaker.	Pending	--

4.2 Advice on the Solid and Liquid Waste Management Status

The Contractor has been registered as a chemical waste producer for the Project. Construction and demolition (C&D) material sorting will be carried out on site. A sufficient number of receptacles were available for general refuse collection.

As advised by the Lyric Theatre Complex (L2 Contract) Contractor, 438.8 tonnes, 14.4 tonnes and 0.0 tonne of inert C&D materials were disposed of as public fill to Tseung Kwan O Area 137 Public Fill, Tuen Mun Area 38 Public Fill and Chai Wan Public Fill Barging Point respectively in the reporting month, while 582.7 tonnes of general refuse were disposed of at SENT and WENT landfill. 0.0 tonne of metals, 0.2 tonnes of paper/cardboard packaging, 0.0 tonne of plastics and 0.0 tonne of timber were collected by recycling contractors in the reporting month. 0.0 tonne of inert C&D material was reused on site. 0.0 tonne of inert C&D material was reused in other

projects and 0.0 tonne of inert C&D material was imported for reuse at site. 0.0 tonne of inert C&D material was disposed to sorting facility and 0.0 tonne of chemical waste were collected by licensed contractors in the reporting period.

The actual amounts of different types of waste generated by the activities of construction works at Lyric Theatre Complex in the reporting month are shown in **Appendix I**.

4.3 Status of Environmental Licenses and Permits

The environmental permits, licenses, and/or notifications on environmental protection for this Project which were valid during the period are summarised in **Table 4.2**.

Table 4.2: Status of Environmental Submissions, Licenses and Permits for L2

Permit / License No. / Notification / Reference No.	Valid Period		Status	Remarks
	From	To		
Chemical Waste Producer Registration				
WPN:5213-217-G2347-39	13-Sep-21	-	Valid	
Billing Account Construction Waste Disposal				
7032787	02-Jan-19	-	Account Active	
Construction Noise Permit				
GW-RE0024-26	26-Jan-26	11-Jul-26	Valid	
Wastewater Discharge License				
WT00043449-2023	30-Mar-23	30-Apr-28	Valid	
Notification under Air Pollution Control (Construction Dust) Regulation				
448474	27-Aug-19	-	Notified	

4.4 Recommended Mitigation Measures

The EM&A programme followed the recommended mitigation measures in the EM&A Manual. The EM&A requirements as well as the summary of implementation status of the environmental mitigation measures are provided in **Appendix J**. In particular, the following mitigation measures were brought to attention during the site inspections:

Noise

Noise insulating fabric should be adopted for certain PMEs.

Water Quality

- Oils and fuels should be stored in designated areas which have pollution prevention facilities.

Waste Management

- All wastes generated at the site should be collected and disposed to an appropriate facility regularly.

5 Compliance with Environmental Permit

The status of the required submission under the EP during the reporting period is summarized in **Table 5.1**.

Table 5.1: Status of Submissions under the Environmental Permit

Condition	Submission	Submission Date
Condition 3.4	Monthly EM&A Report for May 2026	12 June 2026

6 Report in Non-compliance, Complaints, Notification of Summons and Successful Prosecutions

6.1 Record on Non-compliance of Action and Limit Levels

There was no breach of Action or Limit Levels for Air Quality and Noise monitoring in the reporting month.

6.2 Record on Environmental Complaints Received

No environmental complaint was received in the reporting month.

The cumulative statistics on complaints were provided in **Appendix K**.

6.3 Record on Notifications of Summons and Successful Prosecution

No notifications of summons or successful prosecutions were received this month. The cumulative statistics on notifications of summons and successful prosecutions were provided in **Appendix K**.

7 Future Key Issues

7.1 Construction Works for the Coming Month(s)

The major site works for L2 to be commissioned in the coming month include:

- LTC construction
 - ABWF works
 - Façade work
 - MEP works
- ASDA and Lyric Theatre Promenade
 - Installation of louvers
- DCS cofferdam
 - Excavation
 - Backfilling work
 - Construction of manholes and cable draw pits
 - Construction of water main trough
 - Installation of UU services
 - Construction of R.C. structure
 - Construction of slab
 - Installation of smoke vent
 - Installation of draw pit

7.2 Key Issues for the Coming Month

Key issues to be considered at Lyric Theatre Complex in the coming month include:

- Generation of dust from construction works;
- Noise impact from operating equipment and machinery on-site;
- Generation of site surface runoffs and wastewater from activities on-site;
- Management of stockpiles and slopes, particularly on rainy days;
- Sorting, recycling, storage and disposal of general refuse and construction waste;
- Management of chemicals and avoidance of oil spillage on-site; and
- Operating conditions of drainage facilities.

7.3 Monitoring Schedule for the Coming Month

The environmental site inspection and environmental monitoring will be continued in the coming month. The tentative monitoring schedule for the coming month is shown in the **Appendix E**.

8 Conclusions and Recommendations

8.1 Conclusions

The EM&A programme as recommended in the EM&A Manual has been undertaken. The construction works and EM&A programme for M+ Museum was commenced on 31 October 2015 and completed on 28 February 2021; while the construction works and EM&A programme for Lyric Theatre Complex (L1 and L2 Contracts) was commenced on 1 March 2016, and the EM&A programme for L1 Contract was completed on 30 June 2021.

Monitoring of air quality and noise with respect to the Project is underway. In particular, the 1-hour TSP, 24-hour TSP, noise level (as L_{eq} , 30 minutes) under monitoring have been checked against established Action and Limit levels. There was no breach of Action and Limit Levels for 1-hour TSP, 24-hour TSP and noise in the reporting month.

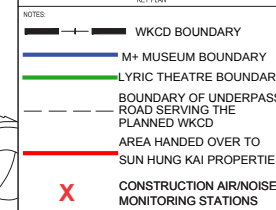
No environmental complaint was recorded in the reporting month. No notifications of summons or successful prosecutions were received during the reporting month.

Weekly construction phase site inspections and bi-weekly landscape and visual impact inspections were conducted during the reporting month as required. It was observed that the Contractors had implemented all possible and feasible mitigation measures to mitigate the potential environmental impacts during construction phase works.

8.2 Recommendations

Potential environmental impacts due to the construction activities, including air quality, noise, water quality, waste, landscape and visual, will be monitored or reviewed. The recommended environmental mitigation measures shall be implemented on site and regular inspections as required will be carried out to ensure that the environmental conditions are acceptable.

Figure 1 Site Layout Plan and Monitoring Stations



REMARKS 2:
THE SITE P32 (DELINEATED IN RED) WAS
HANDLED OVER TO AST DEVELOPER ON 31
JANUARY 2023.

REV.	DATE	DESCRIPTION	INITIAL

DRAWING TITLE **PROPOSED LOCATIONS OF
CONSTRUCTION AIR/NOISE
MONITORING STATIONS**

SCALE	1:100	PRINTED	A1
CHECKED		DATE	
APPROVED		DATE	
DRAWN		DATE	

CONTRACT NO.	
--------------	--

DRAWING NO.	REV.
FIGURE 1	XA

CAD REF NAME: XXXXX-AUT-FMS-DWG-P00-0000-XXX.dwg

AUTHORITY	
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westKowloon
西九文化區

Appendices

- A. Project Organisation
- B. Tentative Construction Programme
- C. Action and Limit Levels for Construction Phase
- D. Event and Action Plan for Air Quality, Noise, Landscape and Visual Impact
- E. Monitoring Schedule
- F. Calibration Certifications
- G. Graphical Plots of the Monitoring Results
- H. Meteorological Data Extracted from Hong Kong Observatory
- I. Waste Flow table
- J. Environmental Mitigation Measures – Implementation Status
- K. Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

A. Project Organisation

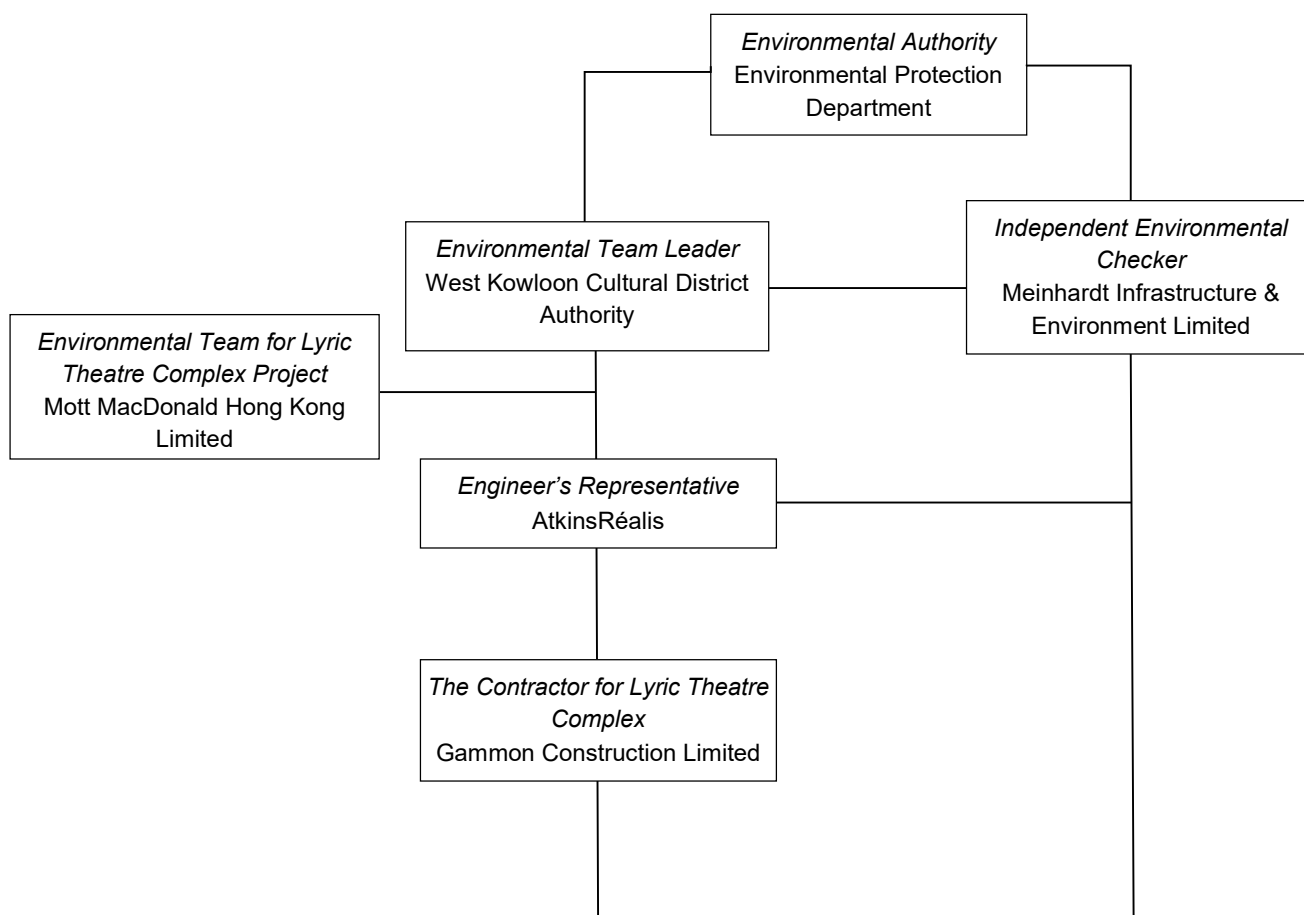


Table A-1: Contact information

Company Name	Role	Name	Telephone	Email
AtkinsRéalis	Senior Technical Director	Mr. Simha LytheRao	2204 8259	Simha.Lytherao@atkinsrealis.com
Meinhardt Infrastructure & Environment Limited	Independent Environmental Checker	Ms. Claudine Lee	2859 5409	claudinelee@meinhardt.com.hk
Gammon Construction Limited (L2)	Environmental Manager	Ms. Fiona Law	9156 7654	fiona.cm.law@gammonconstruction.com
Mott MacDonald Hong Kong Ltd.	Contractor's Environmental Team Leader	Mr. Thomas Chan	2828 5757	thomas.chan@mottmac.com
West Kowloon Cultural District Authority	Project Manager (Health, Safety and Environment)	Mr. Max Lee	2200 0782	max.sl.lee@wkda.hk

B. Tentative Construction Programme

Base Line ACT

EOT#2 CD

Base Line MS

Milestone

Current - Other Works

Current - Struct Works

Current - MEP Works

Legend:

RD = Remaining Duration; BL = Base Line; LoE = Level of Effort Activity Type; LM = Last Month; SUMM = Summary; TF = Total Float; VAR = Variance

L2 CMWP_R_3_B - Rev_3B_28 2nd DRAFT

[DD=31May26] ***L I V E***

Date	Revision	Checked	Approved
12-Jun-26	CMWP Rev_3_B May26 Update	JL	IH

C. Action and Limit Levels for Construction Phase

Air Quality

The Action and Limit Levels for 1-hour and 24-hour TSP for the monitoring station are presented in following tables:

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

Monitoring Station	Action Level (mg/m ³)	Limit Level (mg/m ³)
AM1	273.7	500
AM2	274.2	500

Table C-2: Action and Limit Levels for 24-hour TSP

Monitoring Station	Action Level (µg/m ³)	Limit Level (µg/m ³)
AM1	143.6	260
AM2	151.1	260

Noise

The Action and Limit Levels for Noise for the monitoring stations are presented in following table:

Table C-3: Action and Limit Levels for Construction Noise

Time Period & Monitoring Locations	Action Level	Limit Level
NM1A		
0700-1900 hours on normal weekdays	When one valid documented complaint is received.	75 dB(A)

D. Event and Action Plan for Air Quality, Noise, Landscape and Visual Impact

Air Quality

In case the Action and Limit Levels are not complied during construction stage, the following Event and Action Plan should be followed:

Table D-1: Event and Action Plan for Air Quality

Event	Action			
	ET	IEC	WKCD	Contractor
Action Level				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC and WKCD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method.	1. Notify Contractor	1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.
2. Exceedance for two or more consecutive samples	1. Identify source; 2. Inform IEC and WKCD; 3. Advise the WKCD on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and WKCD; 8. If exceedance stops, cease additional monitoring.	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 ET on the effectiveness of the proposed remedial measures; 5. Monitor the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Submit proposals for remedial to WKCD within three working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.
Limit Level				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform WKCD, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and WKCD informed of the results.	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 WKCD on the effectiveness of the proposed remedial measures; 5. Monitor the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within three working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.

Event

Action

2. Exceedance for two or more consecutive samples	1. Notify IEC, WKCDA, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and WKCDA to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and WKCDA informed of the results; 8. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss amongst WKCDA, ET, and Contractor on the potential remedial actions; 4. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the WKCDA accordingly; 5. Monitor the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within three working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the WKCDA until the exceedance is abated.
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Construction Noise

In case the Action and Limit Levels are not complied during construction stage, the following Event and Action Plan should be followed:

Table D-2: Event and Action Plan for Construction Noise

Event	Action			
	ET	IEC	WKCD	Contractor
Action Level	1. Notify WKCD, IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, WKCD and Contractor; 4. Discuss with the IEC and Contractor on remedial measures required; 5. Increase monitoring frequency to check mitigation effectiveness.	1. Review the investigation results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the WKCD accordingly; 3. Advise the WKCD on the effectiveness of the proposed remedial measures.	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.	1. Submit noise mitigation proposals to IEC and WKCD; 2. Implement noise mitigation proposals.
Limit Level	1. Inform IEC, WKCD, Contractor and EPD; 2. Repeat measurements to confirm findings; 3. Increase monitoring frequency; 4. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contractor's working procedures; 6. Discuss with the IEC, Contractor and WKCD on remedial measures required; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and WKCD informed of the results; 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst WKCD, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the WKCD accordingly.	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 work which causes the exceedance until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC and WKCD within 3 working days of notification; 3. Implement the agreed proposals; 4. Submit further proposal if problem still not under control; 5. Stop the relevant portion of works as instructed by the WKCD until the exceedance is abated.

Landscape and Visual Impact

In case of non-compliance of landscape and visual impacts, procedures in accordance with the Event and Action Plan should be followed:

Table D-3: Event and Action Plan for Landscape and Visual Impact

Event	Action			
	ET	IEC	WKCD A	Contractor
Design Check	1. Design check to make sure the design complies with all the proposed mitigation measures in the EIA report; 2. Prepare and submit report.	1. Check report submitted by ET; 2. Recommend remedial design if necessary.	1. Undertake remedial design if necessary.	-
Non-conformity on one occasion	1. Identify source of non-conformity; 2. Report to IEC and WKCD A; 3. Discuss remedial actions with IEC, WKCD A and Contractor; 4. Monitor remedial actions until rectification has been completed.	1. Check and verify source of non-conformity; 2. Discuss remedial actions with ET and Contractor; 3. Advise WKCD A on effectiveness of proposed remedial actions; 4. Check implementation of remedial actions.	1. Notify Contractor; 2. Ensure remedial actions are properly implemented.	1. Amend working method as necessary; 2. Rectify damage and undertake necessary replacement and remedial actions.
Repeated conformity	non-1. Identify source of non-conformity; 2. Report to IEC and WKCD A; 3. Increase monitoring frequency; 4. Discuss remedial actions with IEC, WKCD A and Contractor; 5. Monitor remedial actions until rectification has been completed; 6. If non-conformity rectified, reduce monitoring frequency back to normal.	1. Check and verify source of non-conformity; 2. Check Contractor's working method; 3. Discuss remedial actions with ET and Contractor; 4. Advise WKCD A on effectiveness of proposed remedial actions; 5. Supervise implementation of remedial actions.	1. Notify Contractor; 2. Ensure remedial actions are properly implemented.	1. Amend working method as necessary; 2. Rectify damage and undertake necessary replacement and remedial actions.

E. Monitoring Schedule

June 2026

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3 AM1, AM2 - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	4	5	6
7	8	9 AM1, AM2 - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	10	11	12 Lyric Landscape & Visual Inspection	13
14	15 AM1, AM2 - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	16	17	18 AM1, AM2 - 24hrTSP, 1hr TSP x3	19	20
21	22	23	24 AM1, AM2 - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring Lyric Landscape & Visual Inspection	25	26	27
28	29	30 AM1, AM2 - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	Notes AM1 - International Commerce Centre (ICC) AM2 - The Harbourside Tower 1 - Ground Floor NM1A - International Commerce Centre (ICC)			

July 2026

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4
5	6 AM1, AM2 - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	7	8	9	10 AM1, AM2 - 24hrTSP, 1hr TSP x3	11
12	13	14	15	16 AM1, AM2 - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	17	18
19	20	21	22 AM1, AM2 - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	23	24	25
26	27	28 AM1, AM2 - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	29	30	31	
			Notes AM1 - International Commerce Centre (ICC) AM2 - The Harbourside Tower 1 - Ground Floor NM1A - International Commerce Centre (ICC)			

F. Calibration Certifications

High-Volume TSP Sampler
5-Point Calibration Record

Location : AM1(ICC)
Calibrated by : K.T.Ho
Date : 28/04/2026

Sampler

Model : TE-5170
Serial Number : S/N 0767

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
Next Calibration Due Date : 01 December 2026
Slope(m) : 2.07213
Intercept(b) : -0.03919
Correlation Coefficient(r) : 0.99999

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

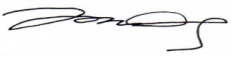
Pa (hpa) : 1010.2
Ta(K) : 301.3

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	10.2	3.172	1.550	62	61.58
2	13 holes	7.4	2.702	1.323	52	51.65
3	10 holes	5.6	2.350	1.153	44	43.70
4	7 holes	3.8	1.936	0.953	36	35.76
5	5 holes	2.6	1.602	0.792	26	25.82

Notes: $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$, $X = Z/m - b$, $Y(\text{Corrected Flow}) = IC * \{\sqrt{dH(Pa/Pstd)(Tstd/Ta)}\}$

Sampler Calibration Relationship

Slope(m): 46.234 Intercept(b): -9.661 Correlation Coefficient(r): 0.9979

Checked by: 
Magnum Fan

Date: 30/04/2026

High-Volume TSP Sampler
5-Point Calibration Record

Location : AM1(ICC)
Calibrated by : K.T.Ho
Date : 26/06/2026

Sampler

Model : TE-5170
Serial Number : S/N 0767

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
Next Calibration Due Date : 01 December 2026
Slope(m) : 2.07213
Intercept(b) : -0.03919
Correlation Coefficient(r) : 0.99999

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

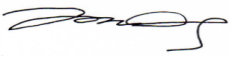
Pa (hpa) : 1004.4
Ta(K) : 303.5

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	10.4	3.182	1.555	58	57.23
2	13 holes	7.2	2.648	1.297	50	49.34
3	10 holes	5.5	2.314	1.136	40	39.47
4	7 holes	3.4	1.820	0.897	32	31.58
5	5 holes	2.0	1.396	0.692	24	23.68

Notes: $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$, $X = Z/m - b$, $Y(\text{Corrected Flow}) = IC * \{\sqrt{dH(Pa/Pstd)(Tstd/Ta)}\}$

Sampler Calibration Relationship

Slope(m): 39.734 Intercept(b): -4.055 Correlation Coefficient(r): 0.9956

Checked by: 
Magnum Fan

Date: 30/06/2026



Certificate of Calibration

Calibration Certification Information

Cal. Date: December 1, 2025 Rootsmeter S/N: 438320 Ta: 294 °K
 Operator: Jim Tisch Pa: 755.4 mm Hg
 Calibration Model #: TE-5025A Calibrator S/N: 2454

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4240	3.2	2.00
2	3	4	1	1.0130	6.4	4.00
3	5	6	1	0.9040	7.9	5.00
4	7	8	1	0.8620	8.8	5.50
5	9	10	1	0.7130	12.8	8.00

Data Tabulation

Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)}$ (y-axis)
1.0032	0.7045	1.4195	0.9958	0.6993	0.8823
0.9989	0.9861	2.0075	0.9915	0.9788	1.2477
0.9969	1.1028	2.2444	0.9895	1.0946	1.3950
0.9957	1.1551	2.3539	0.9884	1.1466	1.4631
0.9904	1.3891	2.8390	0.9831	1.3788	1.7645
QSTD	m=	2.07213	QA	m=	1.29754
	b=	-0.03919		b=	-0.02436
	r=	0.99999		r=	0.99999

Calculations

Vstd=	$\Delta Vol \left(\frac{Pa - \Delta P}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)$	Va=	$\Delta Vol \left(\frac{Pa - \Delta P}{Pa} \right)$
Qstd=	Vstd/ΔTime	Qa=	Va/ΔTime
For subsequent flow rate calculations:			
Qstd= $1/m \left(\left(\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)} \right) - b \right)$		Qa= $1/m \left(\left(\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)} \right) - b \right)$	

Standard Conditions

Tstd: 298.15 °K

Pstd: 760 mm Hg

Key

ΔH: calibrator manometer reading (in H2O)

ΔP: rootsmeter manometer reading (mm Hg)

Ta: actual absolute temperature (°K)

Pa: actual barometric pressure (mm Hg)

b: intercept

m: slope

RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30



SUB-CONTRACTING REPORT

CONTACT	: MR MAGNUM FAN	WORK ORDER	: HK2618615
CLIENT	: ENVIROTECH SERVICES CO.		
ADDRESS	: RM 712, 7/F, MY LOFT 9 HOI WING ROAD, TUEN MUN, N.T. HK	SUB-BATCH	: 1
		DATE RECEIVED	: 4-MAY-2026
		DATE OF ISSUE	: 13-MAY-2026
PROJECT	: Not Specified	NO. OF SAMPLES	: 1
		CLIENT ORDER	: ---

General Comments

- Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.
 - Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.
 - Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition.
 - Calibration was subcontracted to Envirotech Services Company.
-

Signatories

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

Signatories

Position

Richard Fung

Managing Director

This report supersedes any previous report(s) with the same work order number.

All pages of this report have been checked and approved for release.

ALS Technichem (HK) Pty Ltd
Part of the **ALS Laboratory Group**

11/F, Chung Shun Knitting Centre 1 - 3 Wing Yip Street Kwai Chung N.T. Hong Kong
Tel. +852 2610 1044 Fax. +852 2610 2021 www.alsglobal.com

WORK ORDER : HK2618615
SUB-BATCH : 1
CLIENT : ENVIROTECH SERVICES CO.
PROJECT : Not Specified



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2618615-001	Sibata LD-3B (235786)	Equipments	27-Apr-2026	S/N: 235786

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



Envirotech Services Co.

Rm. 712, 7/F
My Loft,
9 Hoi Wing Road,
Tuen Mun, H.K.
Tel : 2560 8450
Fax : 2560 6553
E-mail: envirotech@netvigator.com

Equipment Verification Report (TSP)

Equipment Calibrated:

Type: Laser Dust Monitor
Manufacturer: Sibata LD-3B
Serial No.: 235786
Equipment Ref.: N/A
ALS Job Order: HK2617704

Standard Equipment

Standard Equipment: High Volume Sampler (TSP)
Location: Envirotech Room (Calibration Room)
Equipment Ref.: HVS 8162
Last Calibration Date: 21-Apr-2026

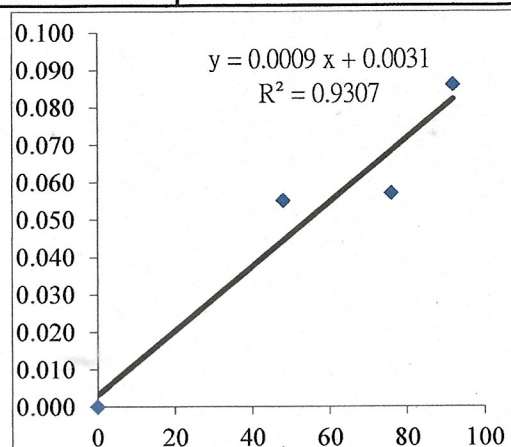
Equipment Verification Results:

Verification Date: 27-Apr-2026

Hour	Time	Mean Temp °C	Mean Pressure (hpa)	TSP Level in mg (Standard Equipment) (Y-Axis)	Total Count (Calibrated Equipment) (X-Axis)
1hr 00mins	0830-0930	23.8	1010.4	0.055	48
2hr 00mins	0935-1135	24.5	1010.1	0.057	76
3hr 00mins	1310-1610	26.8	1009.8	0.086	92

Linear Regression of Y or X

Slope (K-factor): 0.0009(mg)/Count
Correlation Coefficient (R): 0.9647
Date of Issue: 4-May-2026



Remarks:

1. Strong Correlation (>0.8)
2. Factor 0.0009(mg)/Count should be applied for TSP monitoring

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

Operator: P.F.Yeung Signature Pai Date: 04 May 2026

QC Reviewer: K.F.Ho Signature KF Date: 04 May 2026

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location : Rm. 712, My Loft, Tuen Mun	Date of Calibration: 21-Apr-26
HVS ID: 8162	Next Calibration Date: 21-Jun-26
Name and Model : TISCH HVS Model TE-5170	Operator: K.F.Ho

CONDITIONS

Sea Level Pressure (hpa)	1014.5	Corrected Pressure (mm Hg)	760.9
Temperature (°C)	24.2	Temperature (K)	297.2

CALIBRATION ORIFICE

Make:	TISCH	Qstd Slope	2.07213
Model:	TE-5025A	Qstd Intercept	-0.03199
Serial#:	2454		

CALIBRATION

Plate No.	H2O(L) (in)	H2O(R) (in)	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	LINEAR REGRESSION
18	6.1	5.9	12.0	1.694	60	60.13	Slope= 34.834 Intercept= 0.9938 Corr. Coeff.= 0.9998
13	4.9	4.8	9.7	1.525	54	54.12	
10	3.8	3.8	7.6	1.352	48	48.11	
7	2.5	2.5	5.0	1.132	40	40.09	
5	1.5	1.5	3.0	0.857	31	31.07	

Calculations:

$$Qstd = 1/m[\text{Sqrt}(H2O(Pa/Pstd)(Tstd/Ta))-b]$$

$$IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$$

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

For subsequent calculation of sampler flow:

$$1/m((I[\text{Sqrt}(298/Tav)(Pav/760)]-b)$$

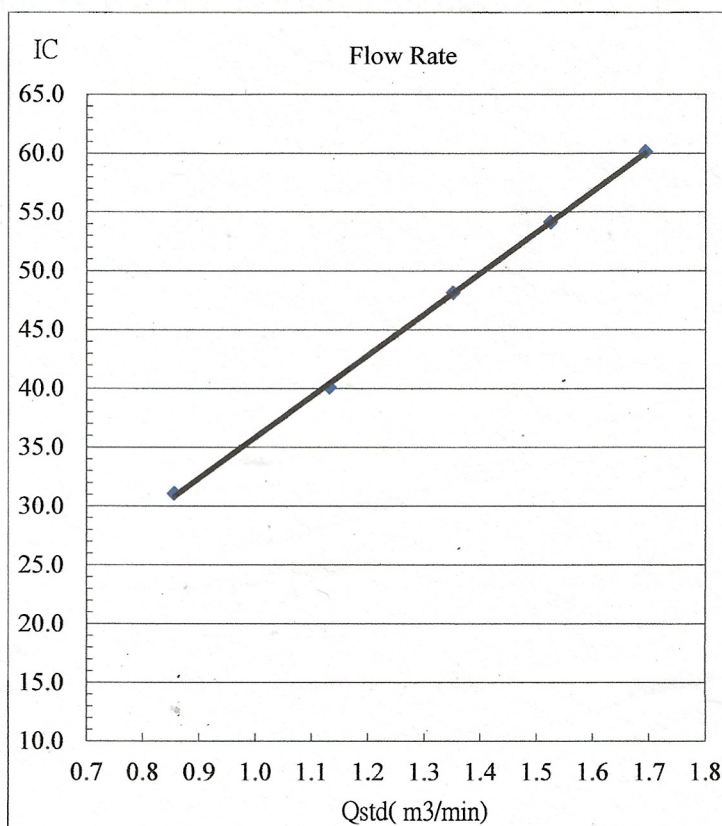
m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure



Certificate of Calibration

Calibration Certification Information			
Cal. Date: December 1, 2025	Rootsmer S/N: 438320	Ta: 294 °K	
Operator: Jim Tisch		Pa: 755.4 mm Hg	
Calibration Model #: TE-5025A	Calibrator S/N: 2454		

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4240	3.2	2.00
2	3	4	1	1.0130	6.4	4.00
3	5	6	1	0.9040	7.9	5.00
4	7	8	1	0.8620	8.8	5.50
5	9	10	1	0.7130	12.8	8.00

Data Tabulation					
Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)}$ (y-axis)
1.0032	0.7045	1.4195	0.9958	0.6993	0.8823
0.9989	0.9861	2.0075	0.9915	0.9788	1.2477
0.9969	1.1028	2.2444	0.9895	1.0946	1.3950
0.9957	1.1551	2.3539	0.9884	1.1466	1.4631
0.9904	1.3891	2.8390	0.9831	1.3788	1.7645
QSTD	m=	2.07213	QA	m=	1.29754
	b=	-0.03919		b=	-0.02436
	r=	0.99999		r=	0.99999

Calculations	
$Vstd = \Delta Vol \left(\frac{Pa - \Delta P}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)$	$Va = \Delta Vol \left(\frac{Pa - \Delta P}{Pa} \right)$
$Qstd = Vstd / \Delta Time$	$Qa = Va / \Delta Time$
For subsequent flow rate calculations:	
$Qstd = 1/m \left(\left(\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)} \right) - b \right)$	$Qa = 1/m \left(\left(\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)} \right) - b \right)$

Standard Conditions	
Tstd:	298.15 °K
Pstd:	760 mm Hg
Key	
ΔH:	calibrator manometer reading (in H2O)
ΔP:	rootsmer manometer reading (mm Hg)
Ta:	actual absolute temperature (°K)
Pa:	actual barometric pressure (mm Hg)
b:	intercept
m:	slope

RECALIBRATION
US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30



SUB-CONTRACTING REPORT

CONTACT	: MR MAGNUM FAN	WORK ORDER	: HK2618618
CLIENT	: ENVIROTECH SERVICES CO.		
ADDRESS	: RM 712, 7/F, MY LOFT 9 HOI WING ROAD, TUEN MUN, N.T. HK	SUB-BATCH	: 1
		DATE RECEIVED	: 4-MAY-2026
		DATE OF ISSUE	: 13-MAY-2026
PROJECT	: Not Specified	NO. OF SAMPLES	: 1
		CLIENT ORDER	: ---

General Comments

- Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.
 - Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.
 - Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition.
 - Calibration was subcontracted to Envirotech Services Company.
-

Signatories

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

Signatories

Position

Richard Fung

Managing Director

This report supersedes any previous report(s) with the same work order number.

All pages of this report have been checked and approved for release.

ALS Technichem (HK) Pty Ltd
Part of the **ALS Laboratory Group**

11/F, Chung Shun Knitting Centre 1 - 3 Wing Yip Street Kwai Chung N.T. Hong Kong
Tel. +852 2610 1044 Fax. +852 2610 2021 www.alsglobal.com

WORK ORDER : HK2618618
SUB-BATCH : 1
CLIENT : ENVIROTECH SERVICES CO.
PROJECT : Not Specified



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2618618-001	Sibata LD-3B (276020)	Equipments	27-Apr-2026	S/N: 276020

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



Envirotech Services Co.

Rm. 712, 7/F
My Loft,
9 Hoi Wing Road,
Tuen Mun, H.K.
Tel : 2560 8450
Fax : 2560 6553
E-mail: envirotech@netvigator.com

Equipment Verification Report (TSP)

Equipment Calibrated:

Type: Laser Dust Monitor
Manufacturer: Sibata LD-3B
Serial No.: 276020
Equipment Ref.: N/A
ALS Job Order: HK2617704

Standard Equipment

Standard Equipment: High Volume Sampler (TSP)
Location: Envirotech Room (Calibration Room)
Equipment Ref.: HVS 8162
Last Calibration Date: 21-Apr-2026

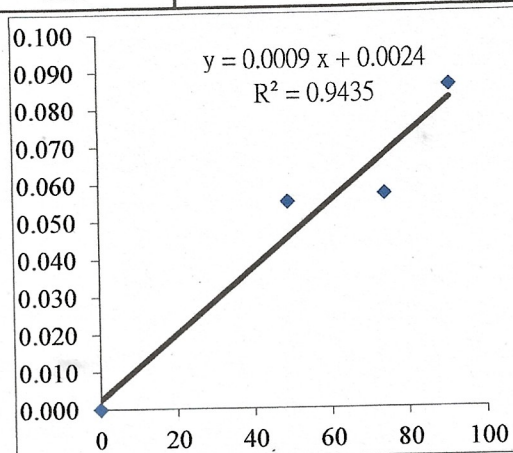
Equipment Verification Results:

Verification Date: 27-Apr-2026

Hour	Time	Mean Temp °C	Mean Pressure (hpa)	TSP Level in mg (Standard Equipment) (Y-Axis)	Total Count (Calibrated Equipment) (X-Axis)
1hr 00mins	0830-0930	23.8	1010.4	0.055	49
2hr 00mins	0935-1135	24.5	1010.1	0.057	74
3hr 00mins	1310-1610	26.8	1009.8	0.086	91

Linear Regression of Y or X

Slope (K-factor): 0.0009(mg)/Count
Correlation Coefficient (R): 0.9713
Date of Issue: 4-May-2026



Remarks:

1. Strong Correlation (>0.8)
2. Factor 0.0009(mg)/Count should be applied for TSP monitoring

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

Operator: P.F.Yeung Signature: Fai Date: 04 May 2026

QC Reviewer: K.F.Ho Signature: ab Date: 04 May 2026

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location : Rm. 712, My Loft, Tuen Mun	Date of Calibration: 21-Apr-26
HVS ID: 8162	Next Calibration Date: 21-Jun-26
Name and Model : TISCH HVS Model TE-5170	Operator: K.F.Ho

CONDITIONS

Sea Level Pressure (hpa)	1014.5	Corrected Pressure (mm Hg)	760.9
Temperature (°C)	24.2	Temperature (K)	297.2

CALIBRATION ORIFICE

Make:	TISCH	Qstd Slope	2.07213
Model:	TE-5025A	Qstd Intercept	-0.03199
Serial#:	2454		

CALIBRATION

Plate No.	H2O(L) (in)	H2O(R) (in)	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	LINEAR REGRESSION
18	6.1	5.9	12.0	1.694	60	60.13	Slope= 34.834 Intercept= 0.9938 Corr. Coeff.= 0.9998
13	4.9	4.8	9.7	1.525	54	54.12	
10	3.8	3.8	7.6	1.352	48	48.11	
7	2.5	2.5	5.0	1.132	40	40.09	
5	1.5	1.5	3.0	0.857	31	31.07	

Calculations:

$$Qstd = 1/m[\text{Sqrt}(H2O(Pa/Pstd)(Tstd/Ta))-b]$$

$$IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$$

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

For subsequent calculation of sampler flow:

$$1/m((I) [\text{Sqrt}(298/Tav)(Pav/760)]-b)$$

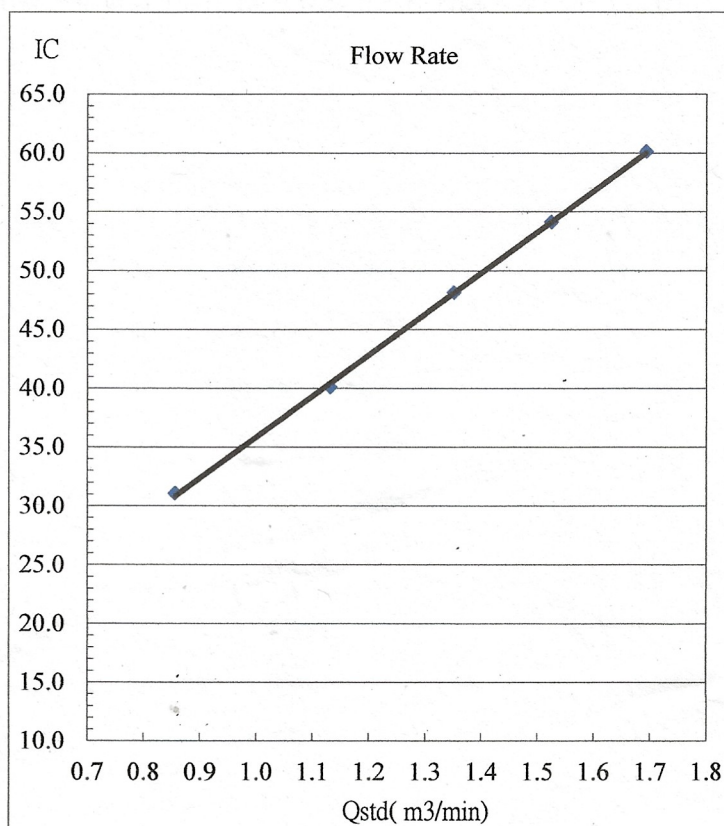
m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure



Certificate of Calibration

Calibration Certification Information

Cal. Date: December 1, 2025 **Rootsmeter S/N:** 438320 **Ta:** 294 °K
Operator: Jim Tisch **Pa:** 755.4 mm Hg
Calibration Model #: TE-5025A **Calibrator S/N:** 2454

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4240	3.2	2.00
2	3	4	1	1.0130	6.4	4.00
3	5	6	1	0.9040	7.9	5.00
4	7	8	1	0.8620	8.8	5.50
5	9	10	1	0.7130	12.8	8.00

Data Tabulation

Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)}$ (y-axis)
1.0032	0.7045	1.4195	0.9958	0.6993	0.8823
0.9989	0.9861	2.0075	0.9915	0.9788	1.2477
0.9969	1.1028	2.2444	0.9895	1.0946	1.3950
0.9957	1.1551	2.3539	0.9884	1.1466	1.4631
0.9904	1.3891	2.8390	0.9831	1.3788	1.7645
QSTD	m=	2.07213	QA	m=	1.29754
	b=	-0.03919		b=	-0.02436
	r=	0.99999		r=	0.99999

Calculations

Vstd = $\Delta Vol / ((Pa - \Delta P) / Pstd) (Tstd / Ta)$	Va = $\Delta Vol / ((Pa - \Delta P) / Pa)$
Qstd = $Vstd / \Delta Time$	Qa = $Va / \Delta Time$
For subsequent flow rate calculations:	
Qstd = $1/m \left(\left(\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)} \right) - b \right)$	Qa = $1/m \left(\left(\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)} \right) - b \right)$

Standard Conditions

Tstd: 298.15 °K

Pstd: 760 mm Hg

Key

ΔH: calibrator manometer reading (in H2O)

ΔP: rootsmeter manometer reading (mm Hg)

Ta: actual absolute temperature (°K)

Pa: actual barometric pressure (mm Hg)

b: intercept

m: slope

RECALIBRATION

US EPA recommends annual recalibration per 1998
 40 Code of Federal Regulations Part 50 to 51,
 Appendix B to Part 50, Reference Method for the
 Determination of Suspended Particulate Matter in
 the Atmosphere, 9.2.17, page 30



SUB-CONTRACTING REPORT

CONTACT	: MR MAGNUM FAN	WORK ORDER	: HK2602822
CLIENT	: ENVIROTECH SERVICES CO.		
ADDRESS	: RM 712, 7/F, MY LOFT 9 HOI WING ROAD, TUEN MUN, N.T. HK	SUB-BATCH	: 1
		DATE RECEIVED	: 24-DEC-2025
		DATE OF ISSUE	: 17-JAN-2026
PROJECT	: Not Specified	NO. OF SAMPLES	: 1
		CLIENT ORDER	: ---

General Comments

- Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.
- Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.
- Calibration was subcontracted to Envirotech Services Company.
- Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition.

Signatories

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

Signatories

Position

Richard Fung

Managing Director

This report supersedes any previous report(s) with the same work order number.

All pages of this report have been checked and approved for release.

ALS Technichem (HK) Pty Ltd
Part of the **ALS Laboratory Group**

WORK ORDER : HK2602822
SUB-BATCH : 1
CLIENT : ENVIROTECH SERVICES CO.
PROJECT : Not Specified



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2602822-001	Sibata LD-3B (831656)	Equipments	24-Dec-2025	S/N: 831656

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



Envirotech Services Co.

Rm. 712, 7/F
My Loft,
9 Hoi Wing Road,
Tuen Mun, H.K.
Tel : 2560 8450
Fax : 2560 6553
E-mail: envirotech@netvigator.com

Equipment Verification Report (TSP)

Equipment Calibrated:

Type: Laser Dust Monitor
Manufacturer: Sibata LD-5R
Serial No.: 831656
Equipment Ref.: N/A
ALS Job Order: HK2555544

Standard Equipment

Standard Equipment: High Volume Sampler (TSP)
Location: Envirotech Room (Calibration Room)
Equipment Ref.: HVS 8162
Last Calibration Date: 13-Dec-2025

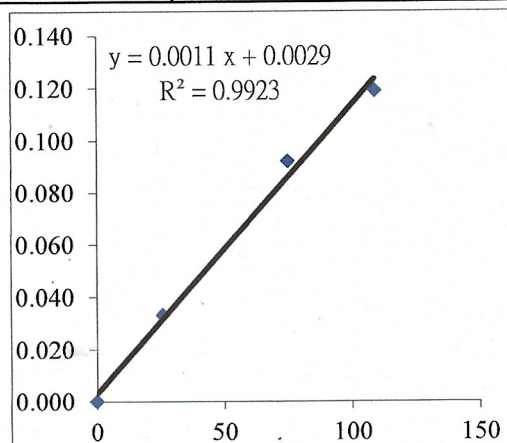
Equipment Verification Results:

Verification Date: 20-Dec-2025

Hour	Time	Mean Temp °C	Mean Pressure (hpa)	TSP Level in mg (Standard Equipment) (Y-Axis)	Total Count (Calibrated Equipment) (X-Axis)
1hr 00mins	0900-1000	23.8	1019.0	0.033	26
2hr 00mins	1005-1205	24.5	1020.0	0.092	75
3hr 00mins	1330-1630	25.1	1020.5	0.119	109

Linear Regression of Y or X

Slope (K-factor): $0.0011(\text{mg})/\text{Count}$
Correlation Coefficient (R): 0.9961
Date of Issue: 24-Dec-2025



Remarks:

1. Strong Correlation (>0.8)
2. Factor $0.0011(\text{mg})/\text{Count}$ should be applied for TSP monitoring

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

Operator: P.F.Yeung Signature Date: 24 Dec 2025

QC Reviewer: K.F.Ho Signature Date: 24 Dec 2025

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location : Rm. 712, My Loft, Tuen Mun				Date of Calibration:		13-Dec-25	
HVS ID: 8162				Next Calibration Date:		13-Feb-26	
Name and Model : TISCH HVS Model TE-5170				Operator:		K.F.Ho	

CONDITIONS							
Sea Level Pressure (hpa)		1018.2		Corrected Pressure (mm Hg)		763.7	
Temperature (°C)		23.5		Temperature (K)		296.5	

CALIBRATION ORIFICE							
Make:		TISCH		Qstd Slope		2.07213	
Model:		TE-5025A		Qstd Intercept		-0.03199	
Serial#:		2454					

CALIBRATION							
Plate No.	H2O(L) (in)	H2O(R) (in)	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	LINEAR REGRESSION
18	6.4	6.3	12.7	1.748	60	60.31	Slope= 34.754 Intercept= -0.3807 Corr. Coeff.= 0.9997
13	5.1	5.0	10.1	1.561	54	54.28	
10	4.0	3.9	7.9	1.382	47	47.25	
7	2.6	2.5	5.1	1.114	38	38.20	
5	1.6	1.5	3.1	0.873	30	30.16	

Calculations:

Qstd = $1/m[\text{Sqrt}(\text{H2O}(\text{Pa}/\text{Pstd})(\text{Tstd}/\text{Ta})) - b]$

IC = $I[\text{Sqrt}(\text{Pa}/\text{Pstd})(\text{Tstd}/\text{Ta})]$

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

For subsequent calculation of sampler flow:

$1/m(I[\text{Sqrt}(298/\text{Tav})(\text{Pav}/760)] - b)$

m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure

Flow Rate

Qstd(m3/min)



RECALIBRATION

DUE DATE:

December 1, 2026

Certificate of Calibration

Calibration Certification Information

Cal. Date: December 1, 2025 Roots-meter S/N: 438320 Ta: 294 °K
 Operator: Jim Tisch Pa: 755.4 mm Hg
 Calibration Model #: TE-5025A Calibrator S/N: 2454

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4240	3.2	2.00
2	3	4	1	1.0130	6.4	4.00
3	5	6	1	0.9040	7.9	5.00
4	7	8	1	0.8620	8.8	5.50
5	9	10	1	0.7130	12.8	8.00

Data Tabulation

Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)}$ (y-axis)
1.0032	0.7045	1.4195	0.9958	0.6993	0.8823
0.9989	0.9861	2.0075	0.9915	0.9788	1.2477
0.9969	1.1028	2.2444	0.9895	1.0946	1.3950
0.9957	1.1551	2.3539	0.9884	1.1466	1.4631
0.9904	1.3891	2.8390	0.9831	1.3788	1.7645
QSTD	m=	2.07213	QA	m=	1.29754
	b=	-0.03919		b=	-0.02436
	r=	0.99999		r=	0.99999

Calculations

Vstd=	$\Delta Vol \left(\frac{Pa - \Delta P}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)$	Va=	$\Delta Vol \left(\frac{Pa - \Delta P}{Pa} \right)$
Qstd=	Vstd/ΔTime	Qa=	Va/ΔTime
For subsequent flow rate calculations:			
Qstd=	$1/m \left(\left(\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)} \right) - b \right)$	Qa=	$1/m \left(\left(\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)} \right) - b \right)$

Standard Conditions

Tstd: 298.15 °K

Pstd: 760 mm Hg

Key

ΔH: calibrator manometer reading (in H2O)

ΔP: roots-meter manometer reading (mm Hg)

Ta: actual absolute temperature (°K)

Pa: actual barometric pressure (mm Hg)

b: intercept

m: slope

RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

Certificate of Calibration

Certificate No. ATS25-066-CC007

Customer: **Envirotech Services Company**

Room 712, 7/F, My Loft,
9 Hoi Wing Road, Tuen Mun
N.T., Hong Kong

Unit-under-test (UUT):

Description: Precision Acoustic Calibrator
Manufacturer: Larson Davis
Type No.: CAL 200
Serial No.: 11334

Conditions during calibration:

Temperature: 26°C
Relative Humidity: 57%

Test Specifications: Calibration Check

Date of calibration: 20 September 2025

Test Results: All calibration points are within manufacturer's specification.

Certified by:


Mr. Y. T. LEUNG / Technical Manager
MIOA, MHKIOA, MHKIQEP



Issue Date: 20 September 2025

1. The instrument under test was allowed to stabilize in the laboratory for over 24 hours.

2. Calibration equipment:

Description:	Sound Analyzer	Reference Microphone
Manufacturer:	Brüel & Kjær	Brüel & Kjær
Type No.:	2270	4189
Serial No.:	3001883	2662797
Last Calibration Date:	11 March 2025	11 March 2025
Certificate No.:	AV250047	AV250047

The calibration equipment used for calibration is traceable to National Standards via Standards and Calibration Laboratory, the Government of the HKSAR.

3. The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted, if any, will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. Acoustic Testing Services Limited shall not be liable for any loss or damage resulting from the use of the equipment.

4. Calibration Results

Nominal value dB	Measured value dB	IEC 60942 Class 1 Tolerance Limits dB	Conclusion	Expanded Measurement Uncertainty of Reference Microphone B&K 4189 at 1000 Hz dB
94.00	94.07	± 0.25	PASS	0.20
114.0	113.76	± 0.25	PASS	0.20

All calibration points are within manufacturer's specification.

Certificate of Calibration

Certificate No. ATS25-066-CC006

Customer: **Envirotech Services Company**

Room 712, 7/F, My Loft,
9 Hoi Wing Road, Tuen Mun
N.T., Hong Kong

Unit-under-test (UUT):

Description:	Sound Level Meter	,	Microphone	,	Pre-amplifier
Manufacturer:	RION	,	PCB Piezotronics	,	RION
Type No.:	NL-52	,	377B02	,	NH-25
Serial No.:	00643040	,	172764	,	21757

Conditions during calibration:

Temperature:	26°C
Relative Humidity:	57%

Test Specifications: Calibration Check

Date of calibration: 20 September 2025

Test Results: All calibration points are within manufacturer's specification.

Certified by:

 
Mr. Y. T. LEUNG / Technical Manager
MIOA, MHKIOA, MHKIQEP

Issue Date: 20 September 2025

1. The instrument under test was allowed to stabilize in the laboratory for over 24 hours.

2. Calibration equipment:

Description: Acoustical Calibrator
Manufacturer & Type: Brüel & Kjær 4231
Serial No.: 2478237
Last Calibration Date: 18 February 2025
Certificate No.: AV250027

The calibration equipment used for calibration is traceable to National Standards via Standards and Calibration Laboratory, the Government of the HKSAR.

3. The Sound Analyzer has been calibrated in accordance with the requirements as specified in IEC 61672-1 Class 1, and vendor specific procedures.

4. The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted, if any, will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. Acoustic Testing Services Limited shall not be liable for any loss or damage resulting from the use of the equipment.

5. Calibration Results

Setting of unit-under-test (UUT)				Applied value		UUT Reading, dB	IEC 61672-1 Class 1 Tolerance Limits, dB	Conclusion
Range, dB	Parameter*	Frequency Weighting	Response	Level, dB	Frequency, Hz			
30-130	Overall SPL	A	F	94.00	1000	94.0	± 0.7	PASS
			S			94.0	± 0.7	PASS
		C	F			94.0	± 0.7	PASS
			S			94.0	± 0.7	PASS
		L	F			94.0	± 0.7	PASS
			S			94.0	± 0.7	PASS
		A	F	114.00	1000	114.1	± 0.7	PASS
			S			114.1	± 0.7	PASS

* Based on the setting of the UUT, the reading is overall sound pressure level in dB(A), dB(C) & dB.

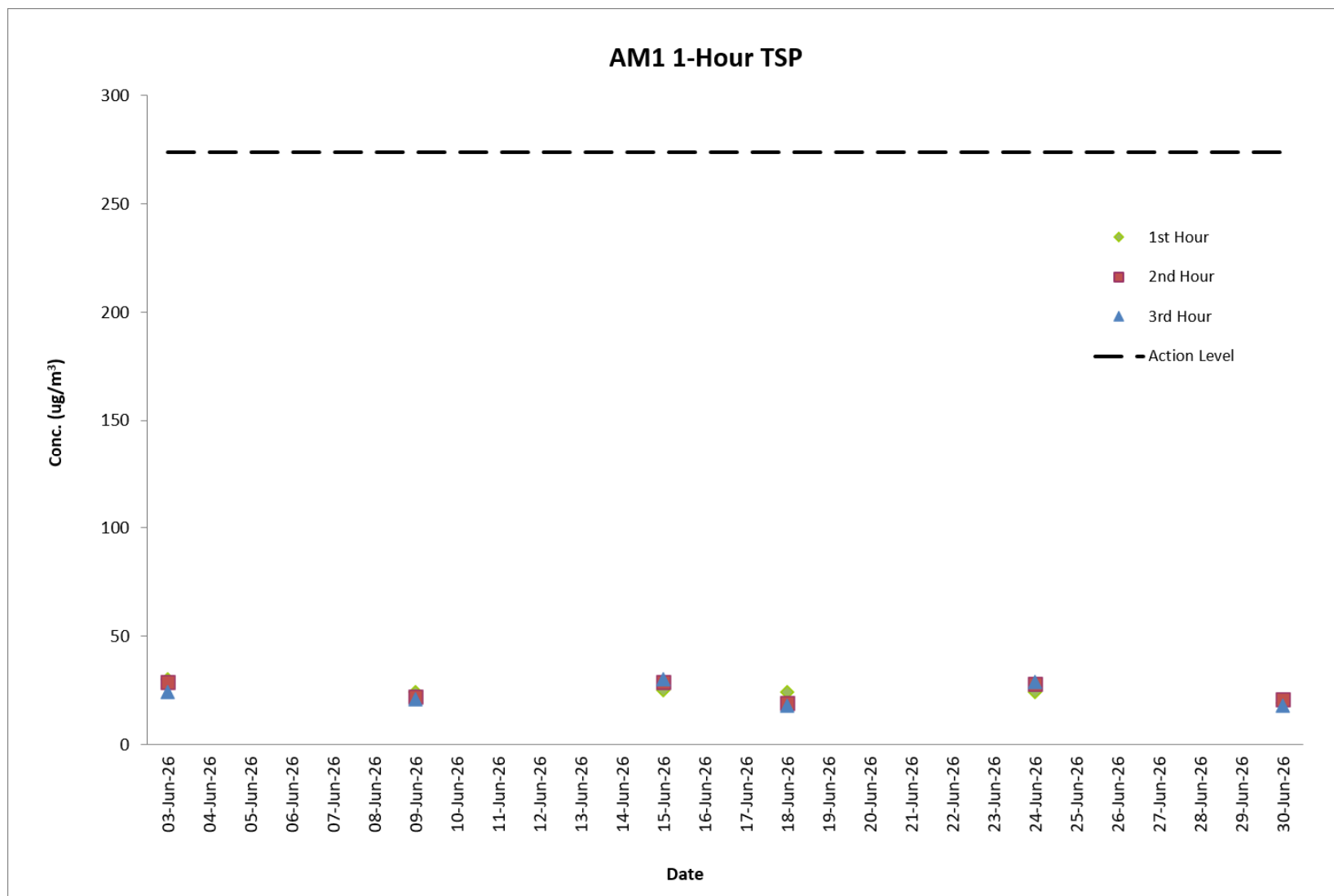
All calibration points are within manufacturer's specification.

G. Graphical Plots of the Monitoring Results

Air Quality Monitoring Result at Station AM1 (1-hour TSP)

Date	Weather Condition	Time		Conc. ($\mu\text{g}/\text{m}^3$)			Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)	Min	Max
				1 st Hour	2 nd Hour	3 rd Hour				
03-Jun-26	Fine	8:32	- 11:32	30	29	24	273.7	500	18	30
09-Jun-26	Cloudy	8:30	- 11:30	24	22	21	273.7	500		
15-Jun-26	Cloudy	8:32	- 11:32	25	29	30	273.7	500		
18-Jun-26	Cloudy	8:32	- 11:32	24	19	18	273.7	500		
24-Jun-26	Cloudy	8:37	- 11:37	24	28	29	273.7	500		
30-Jun-26	Cloudy	8:28	- 11:28	19	21	18	273.7	500		

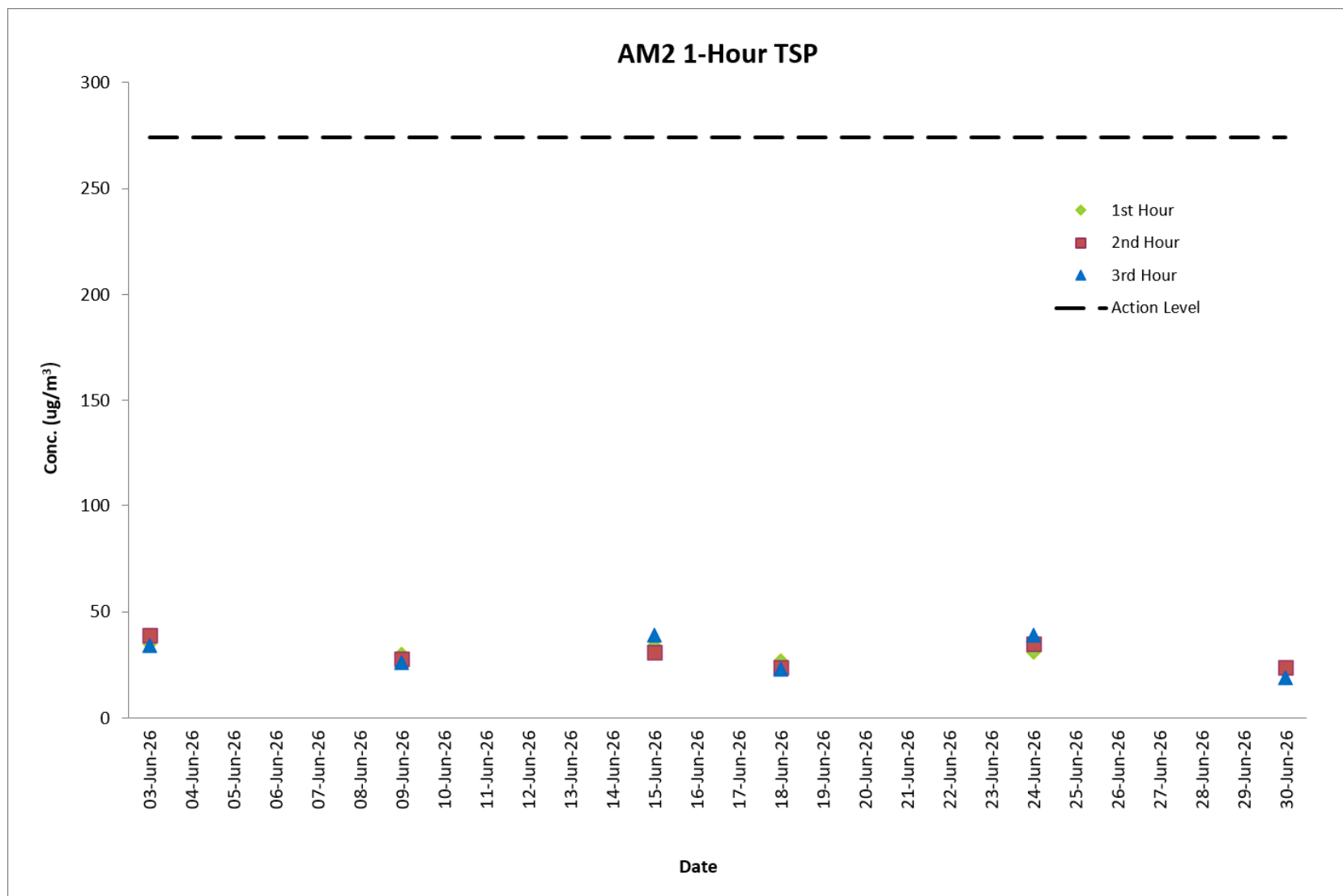
Graphical Presentation of Air Quality Monitoring Result at Station AM1 (1-hour TSP)



Air Quality Monitoring Result at Station AM2 (1-hour TSP)

Date	Weather Condition	Time		Conc. ($\mu\text{g}/\text{m}^3$)			Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)	Min	Max
				1 st Hour	2 nd Hour	3 rd Hour				
03-Jun-26	Fine	10:46	- 13:46	35	39	34	274.2	500	19	39
09-Jun-26	Cloudy	8:47	- 11:47	30	28	26	274.2	500		
15-Jun-26	Cloudy	8:48	- 11:48	34	31	39	274.2	500		
18-Jun-26	Cloudy	8:47	- 11:47	27	24	23	274.2	500		
24-Jun-26	Cloudy	8:54	- 11:54	31	35	39	274.2	500		
30-Jun-26	Cloudy	8:54	- 11:54	22	24	19	274.2	500		

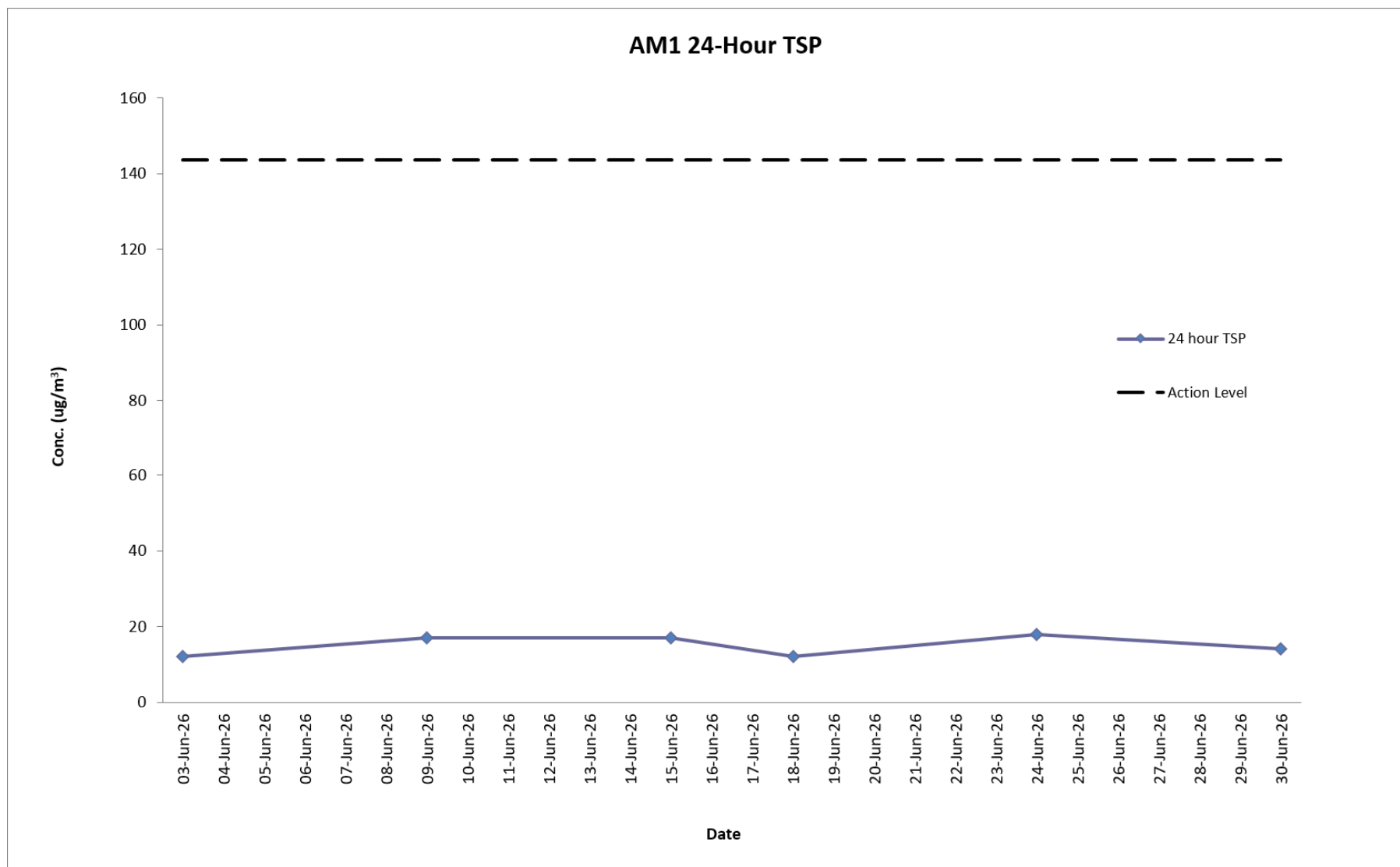
Graphical Presentation of Air Quality Monitoring Result at Station AM2 (1-hour TSP)



Air Quality Monitoring Result at Station AM1 (24-hour TSP)

Start		Finish		Filter Weight (g)		Elapsed Time Reading		Sampling Time (hrs)	Flow Rate (m ³ /min)			Conc. (µg/m ³)	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
03-Jun-26	08:30	04-Jun-26	08:30	2.7588	2.7776	31348.38	31372.38	24	1.13	1.13	1.13	12	Fine	143.6	260
09-Jun-26	08:28	10-Jun-26	08:28	2.7614	2.7886	31372.38	31396.38	24	1.13	1.13	1.13	17	Cloudy	143.6	260
15-Jun-26	08:30	16-Jun-26	08:30	2.7524	2.7800	31396.38	31420.38	24	1.13	1.13	1.13	17	Cloudy	143.6	260
18-Jun-26	08:30	19-Jun-26	08:30	2.7589	2.7790	31420.38	31444.38	24	1.13	1.13	1.13	12	Cloudy	143.6	260
24-Jun-26	08:35	25-Jun-26	08:35	2.7566	2.7866	31444.38	31468.38	24	1.13	1.13	1.13	18	Cloudy	143.6	260
30-Jun-26	08:35	01-Jul-26	08:35	2.7566	2.7807	31468.38	31492.38	24	1.17	1.17	1.17	14	Cloudy	143.6	260

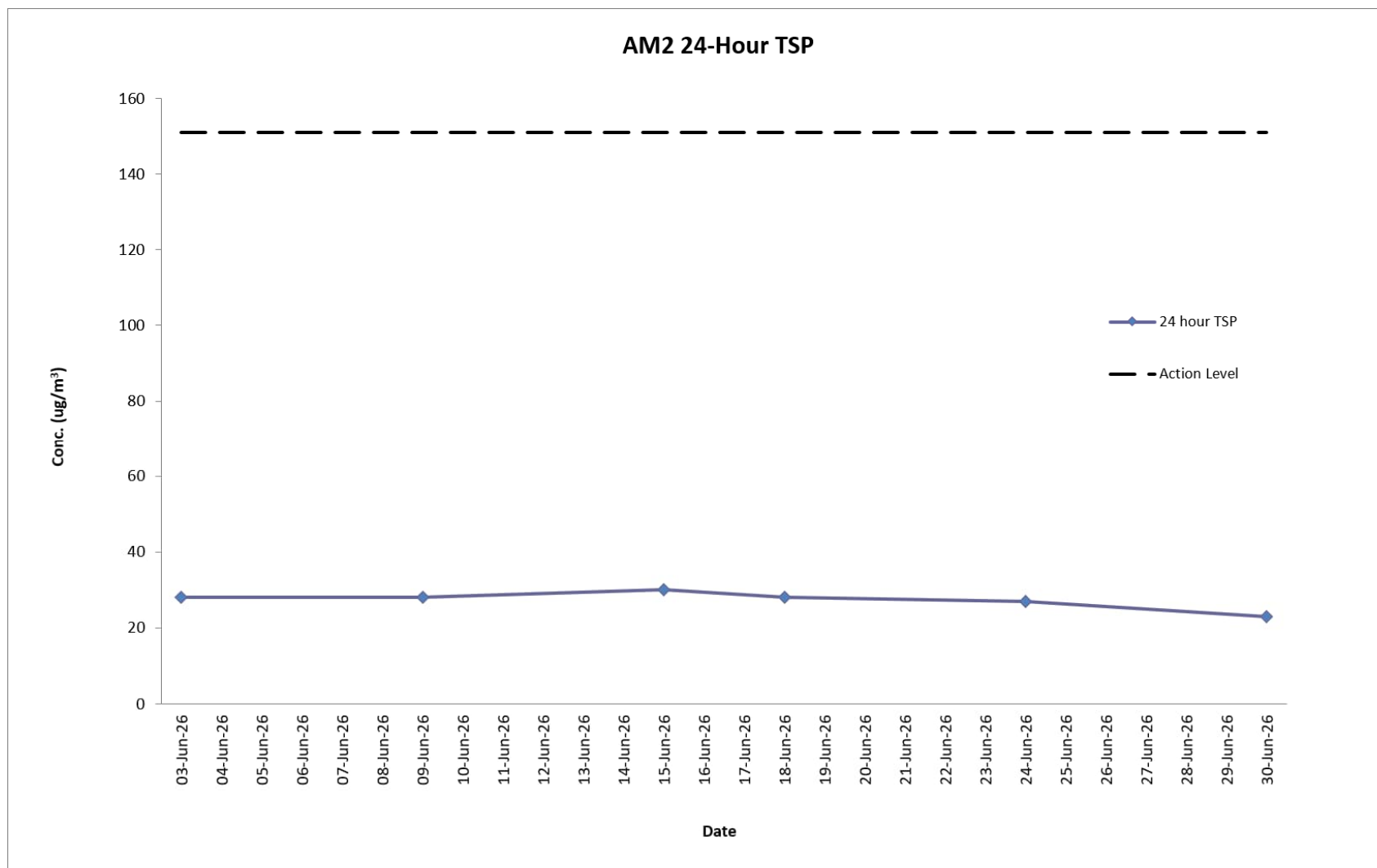
Graphical Presentation of Air Quality Monitoring Result at Station AM1 (24-hour TSP)



Air Quality Monitoring Result at Station AM2 (24-hour TSP)

Start		Finish		Sampling Time (hrs)	Conc. ($\mu\text{g}/\text{m}^3$)	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time					
03-Jun-26	10:48	04-Jun-26	10:48	24	28	Fine	151.1	260
09-Jun-26	08:45	10-Jun-26	08:45	24	28	Cloudy	151.1	260
15-Jun-26	08:46	16-Jun-26	08:46	24	30	Cloudy	151.1	260
18-Jun-26	08:45	19-Jun-26	08:45	24	28	Cloudy	151.1	260
24-Jun-26	08:52	25-Jun-26	08:52	24	27	Cloudy	151.1	260
30-Jun-26	08:52	01-Jul-26	08:52	24	23	Cloudy	151.1	260

Graphical Presentation of Air Quality Monitoring Result at Station AM2 (24-hour TSP)



Noise Monitoring Result at Station NM1A

Date	Time	Measured L_{10} , dB(A)	Measured L_{90} , dB(A)	L_{eq} (30 min.)*, dB(A)
03-Jun-26	08:35	62.8	58.0	64
03-Jun-26	08:40	63.2	59.6	
03-Jun-26	08:45	64.0	60.3	
03-Jun-26	08:50	62.9	58.9	
03-Jun-26	08:55	61.5	57.5	
03-Jun-26	09:00	63.7	59.7	
09-Jun-26	09:35	64.9	60.0	65
09-Jun-26	09:40	63.8	59.6	
09-Jun-26	09:45	65.5	61.8	
09-Jun-26	09:50	64.2	60.7	
09-Jun-26	09:55	63.0	59.3	
09-Jun-26	10:00	63.7	59.9	
15-Jun-26	09:35	64.2	60.3	65
15-Jun-26	09:40	63.9	59.0	
15-Jun-26	09:45	64.7	60.9	
15-Jun-26	09:50	63.8	59.9	
15-Jun-26	09:55	64.5	60.7	
15-Jun-26	10:00	62.0	58.6	
24-Jun-26	09:42	62.9	58.0	65
24-Jun-26	09:47	63.2	59.9	
24-Jun-26	09:52	64.8	60.3	
24-Jun-26	09:57	63.5	59.6	
24-Jun-26	10:02	64.0	60.7	
24-Jun-26	10:07	64.7	60.6	
30-Jun-26	09:40	64.7	60.6	65
30-Jun-26	09:45	63.2	59.0	
30-Jun-26	09:50	64.8	60.8	
30-Jun-26	09:55	63.5	59.3	
30-Jun-26	10:00	63.0	59.7	
30-Jun-26	10:05	64.9	60.9	

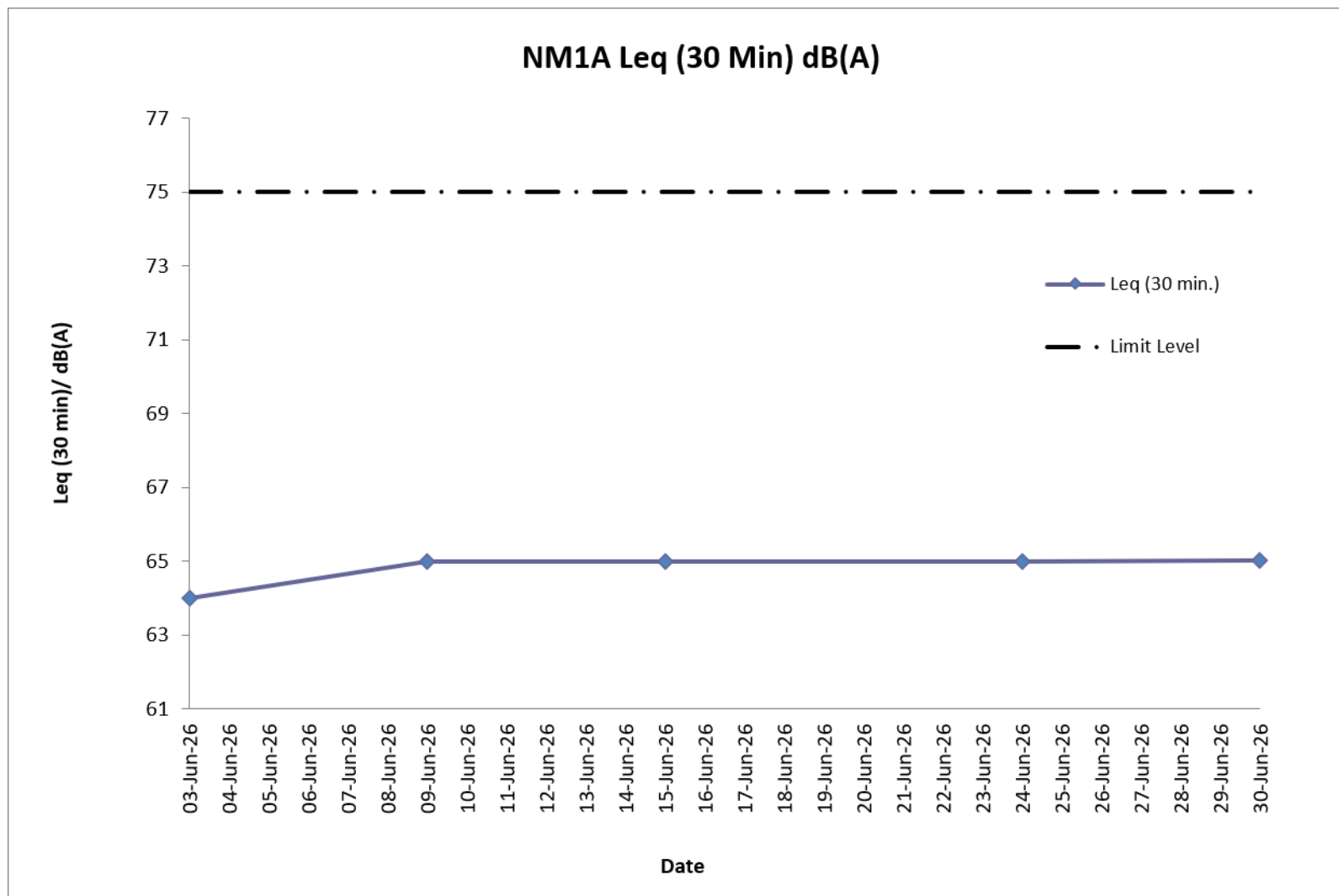
Remarks:

* +3dB (A) correction was applied to free-field measurement.



The station set-up of a free-field measurement at Station NM1A.

Graphical Presentation Noise Monitoring Result at Station NM1A

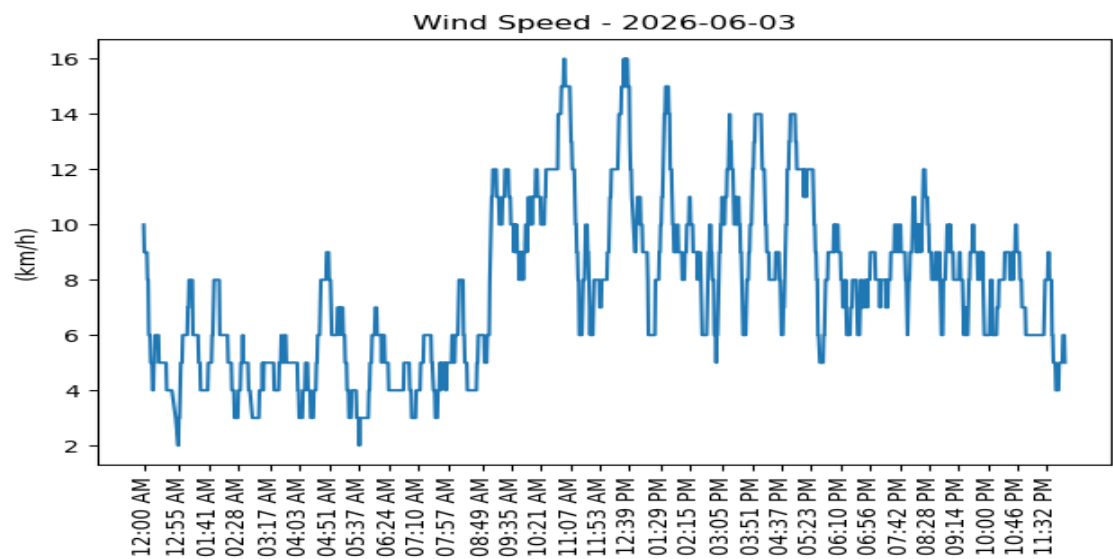


H. Meteorological Data Extracted from Hong Kong Observatory

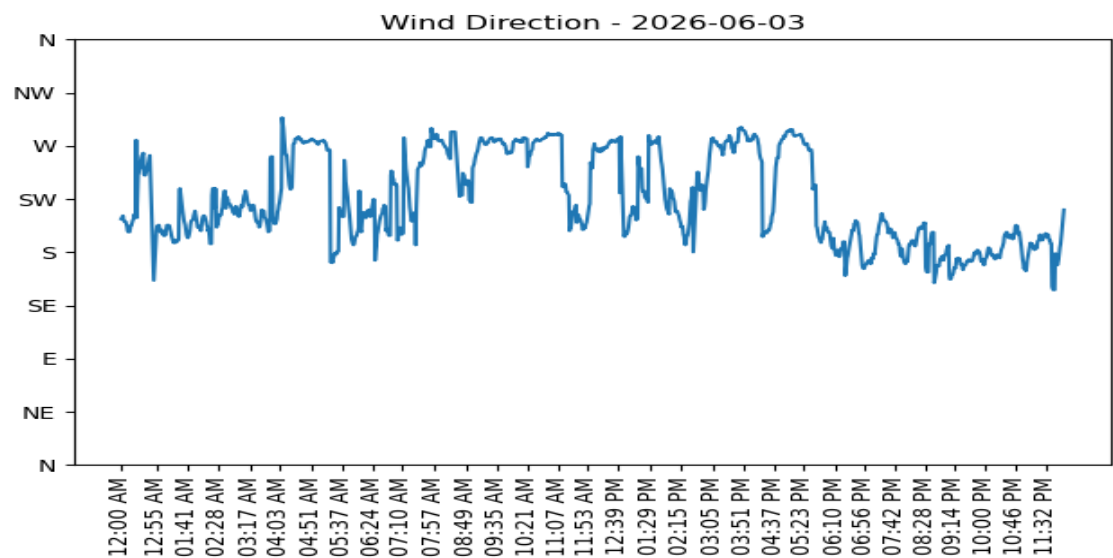
Extract of Meteorological Observations for King’s Park Automatic Weather Station

2026-06-03

Wind Speed:

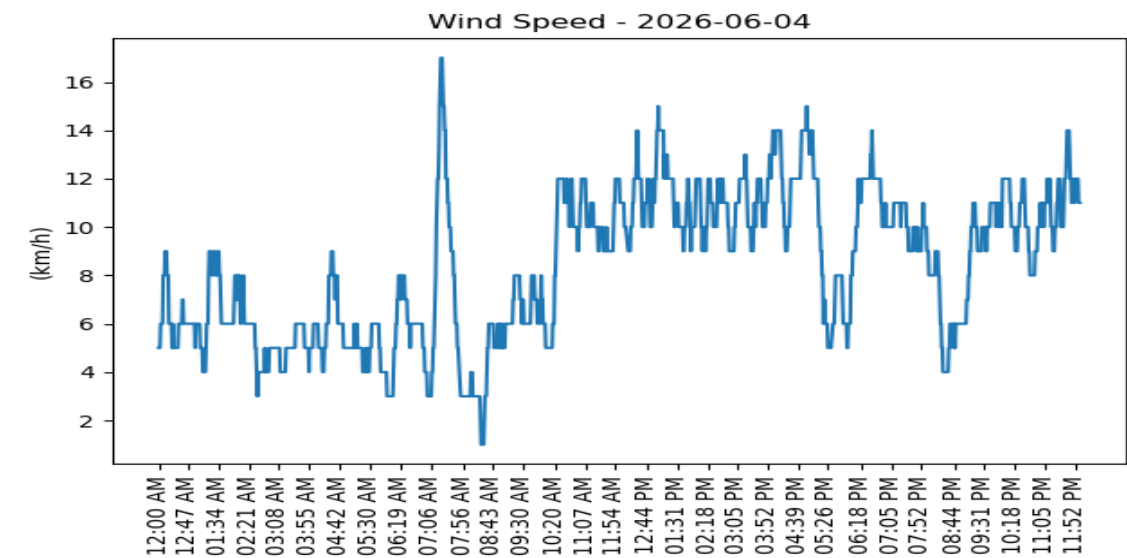


Wind Direction:

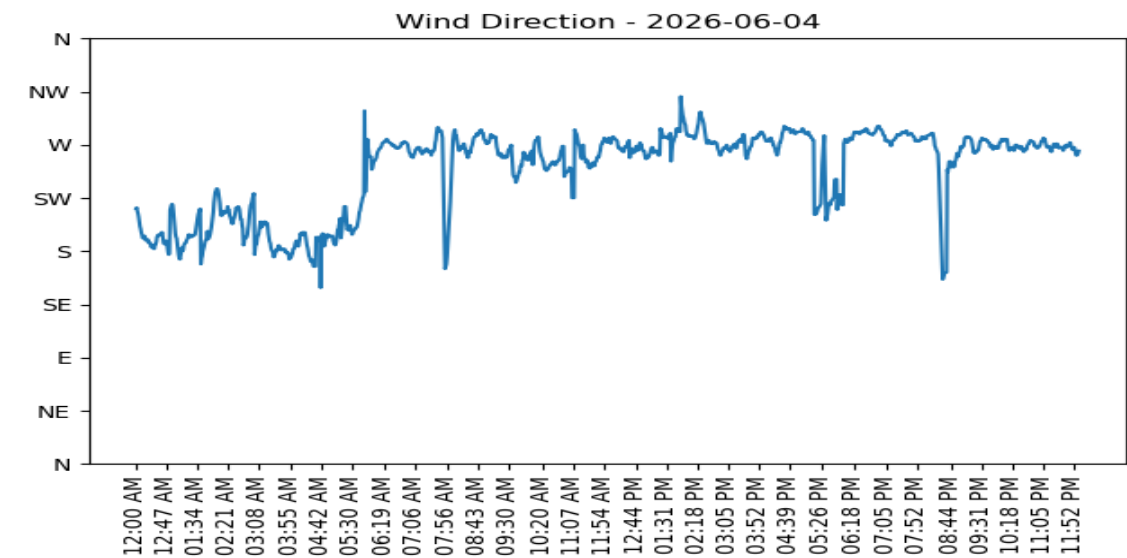


2026-06-04

Wind Speed:

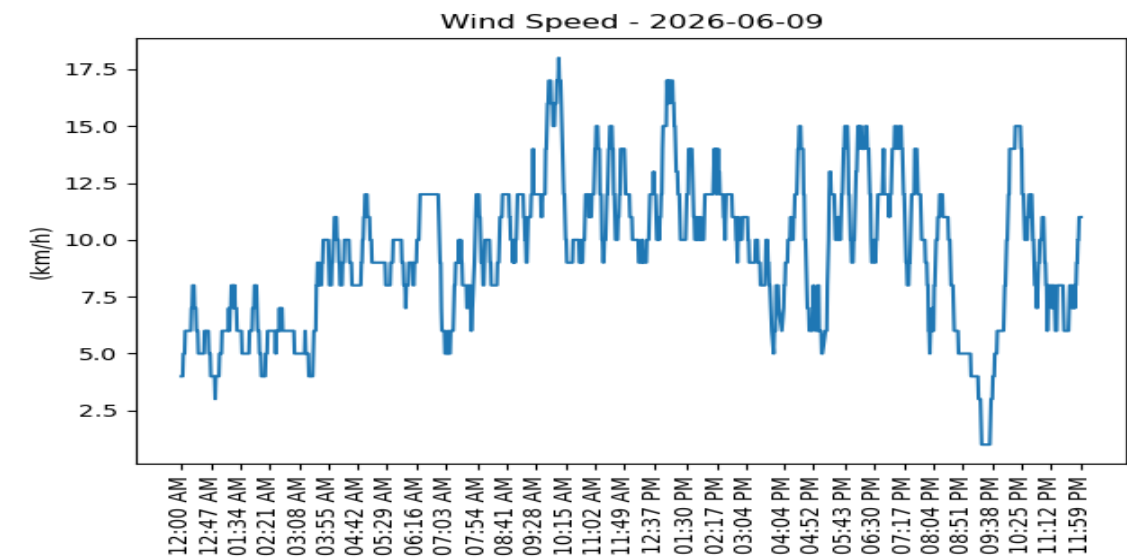


Wind Direction:

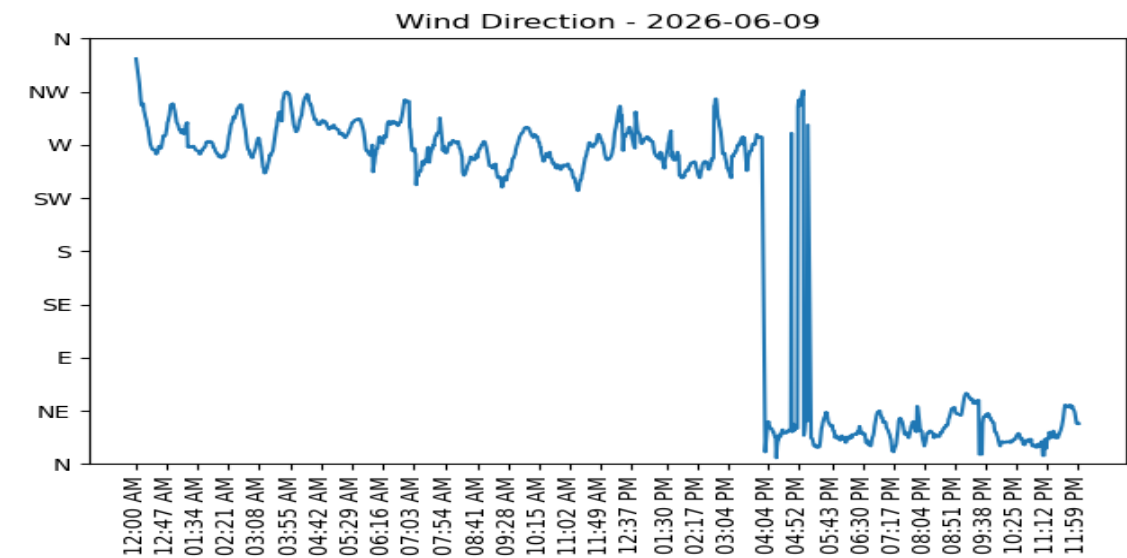


2026-06-09

Wind Speed:

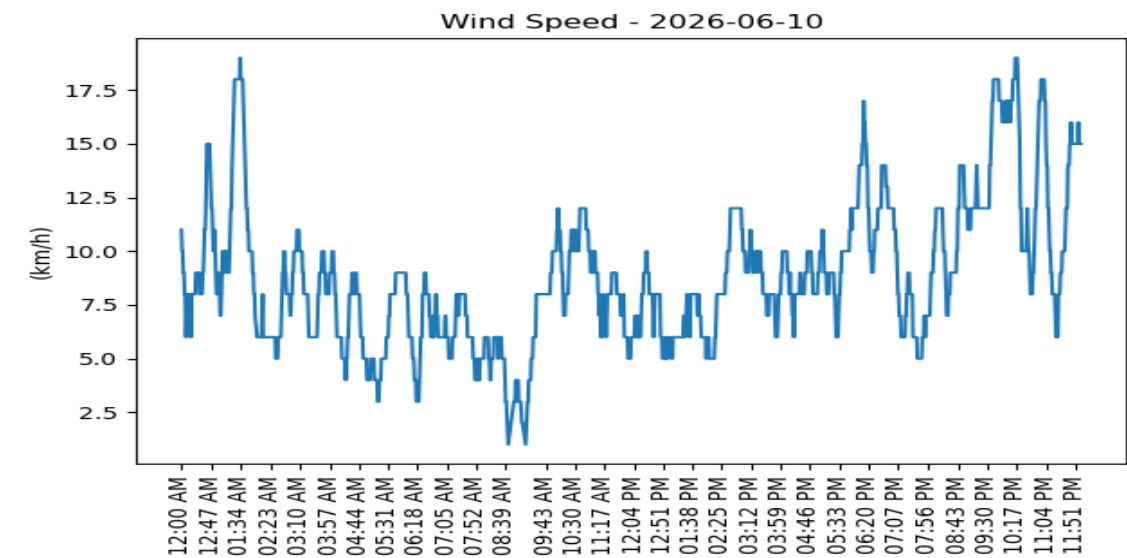


Wind Direction:

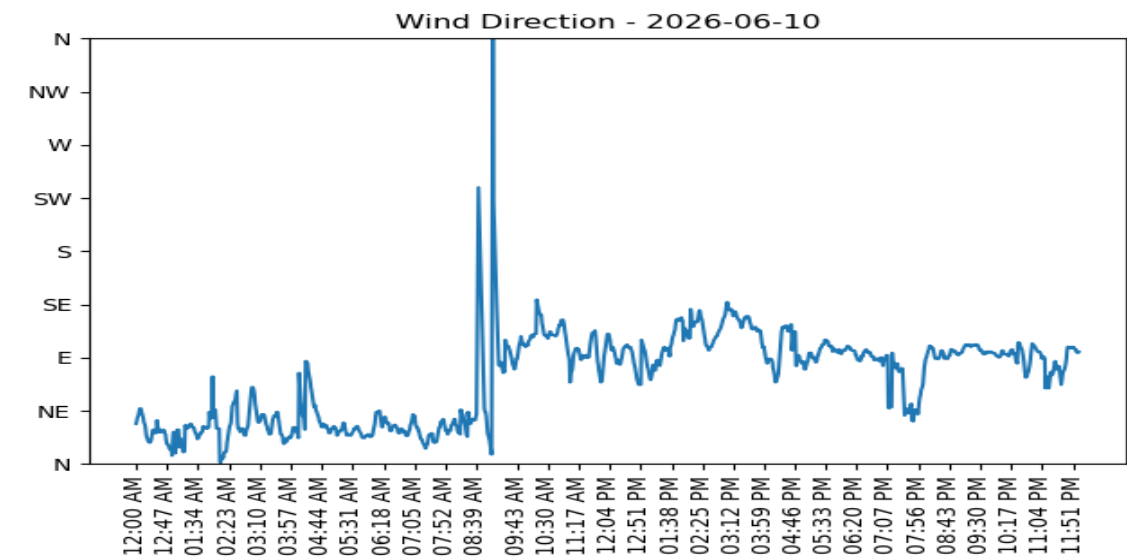


2026-06-10

Wind Speed:

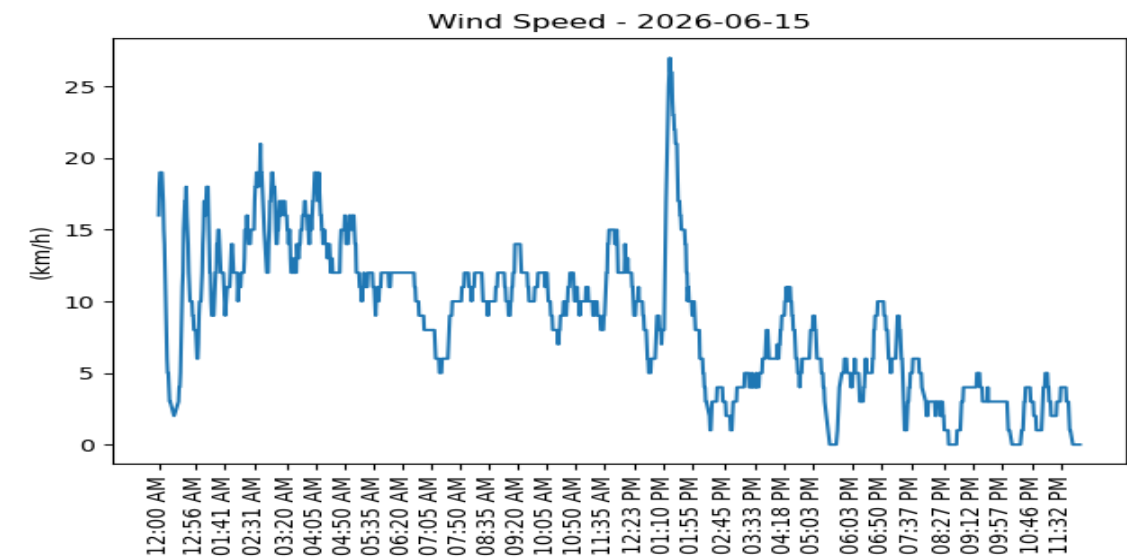


Wind Direction:

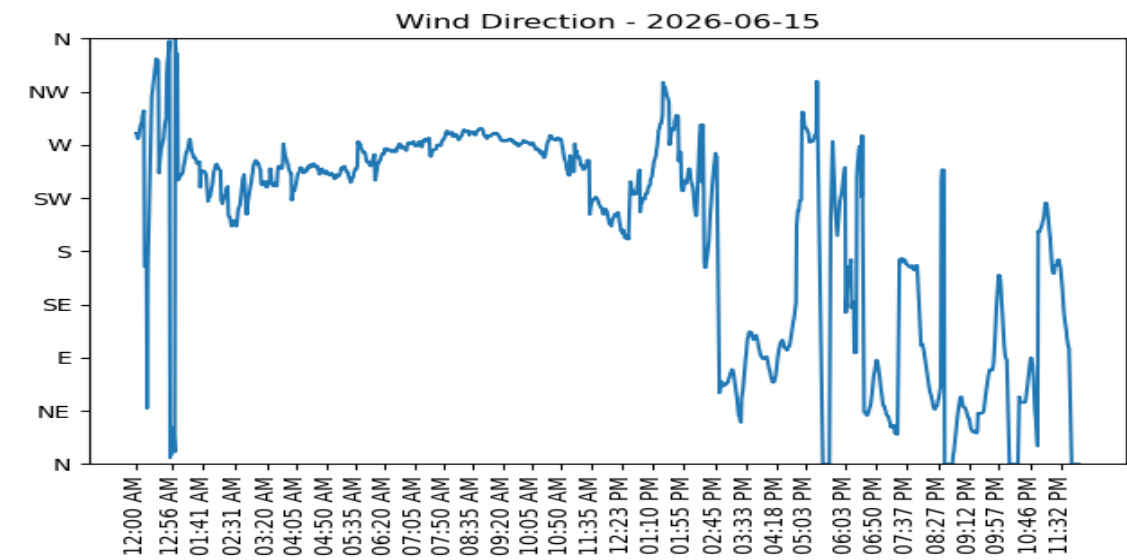


2026-06-15

Wind Speed:

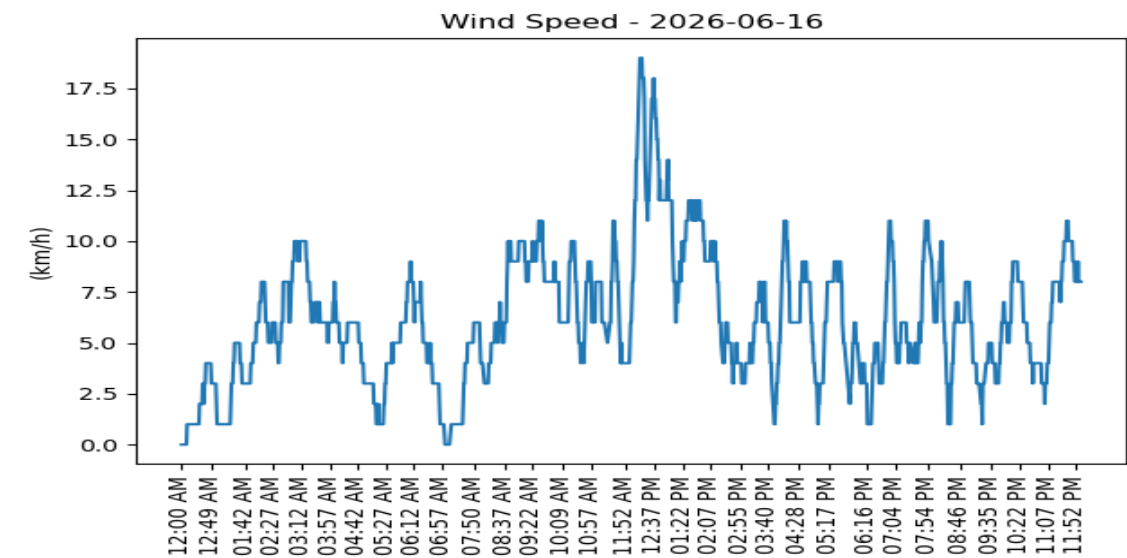


Wind Direction:

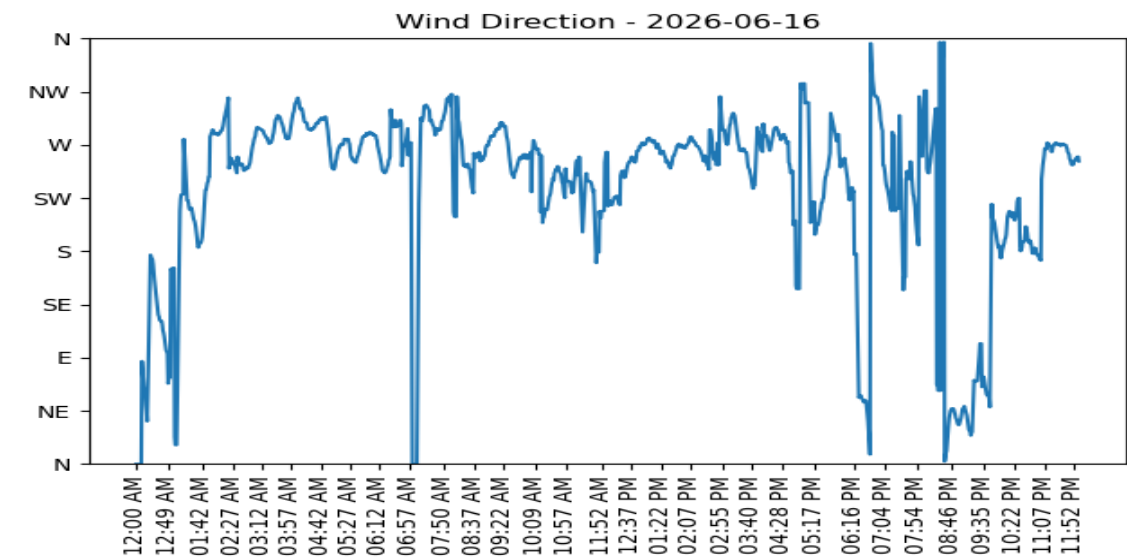


2026-06-16

Wind Speed:

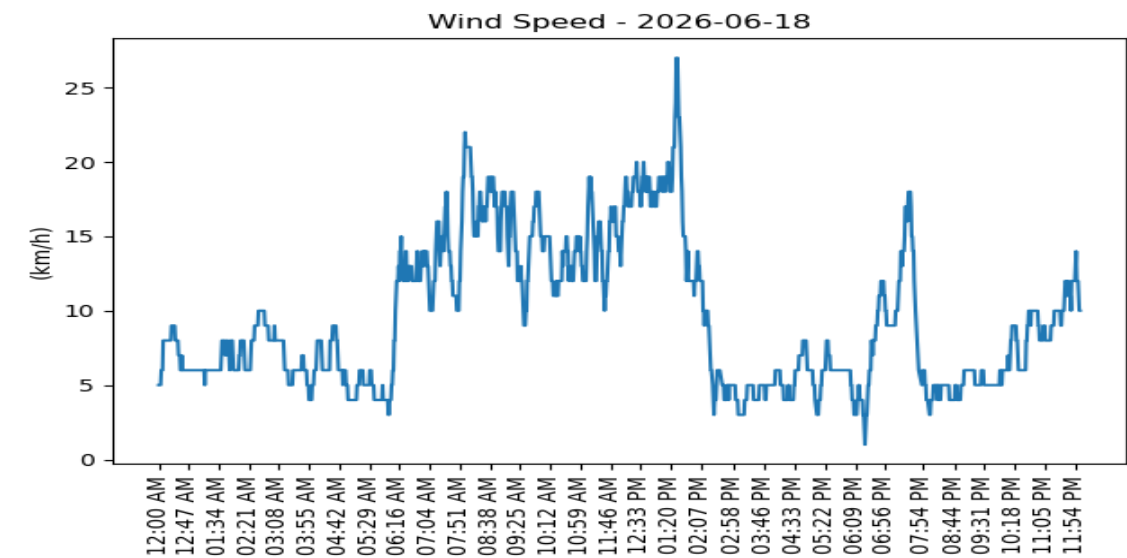


Wind Direction:

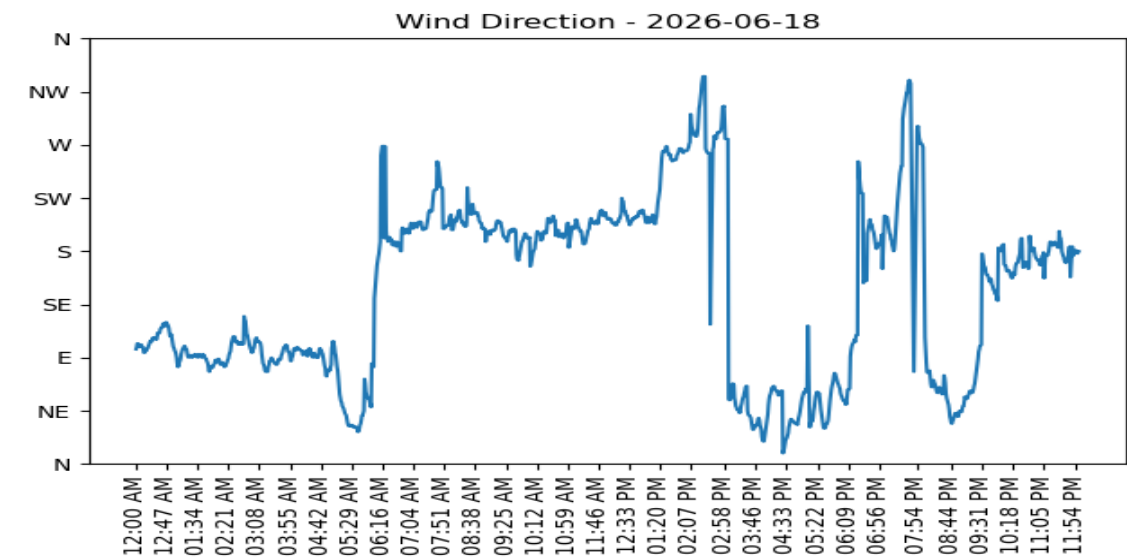


2026-06-18

Wind Speed:

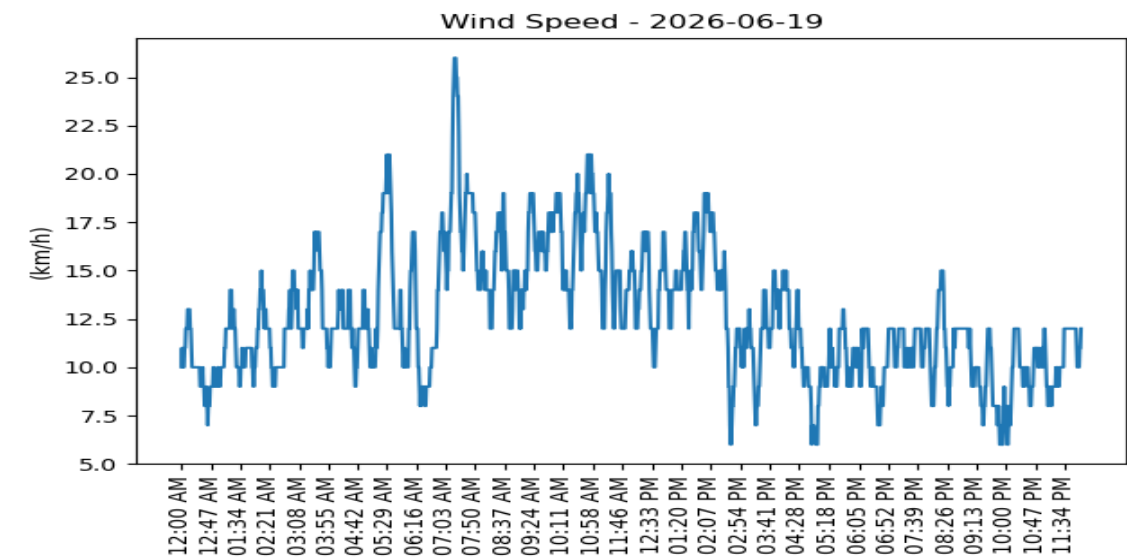


Wind Direction:

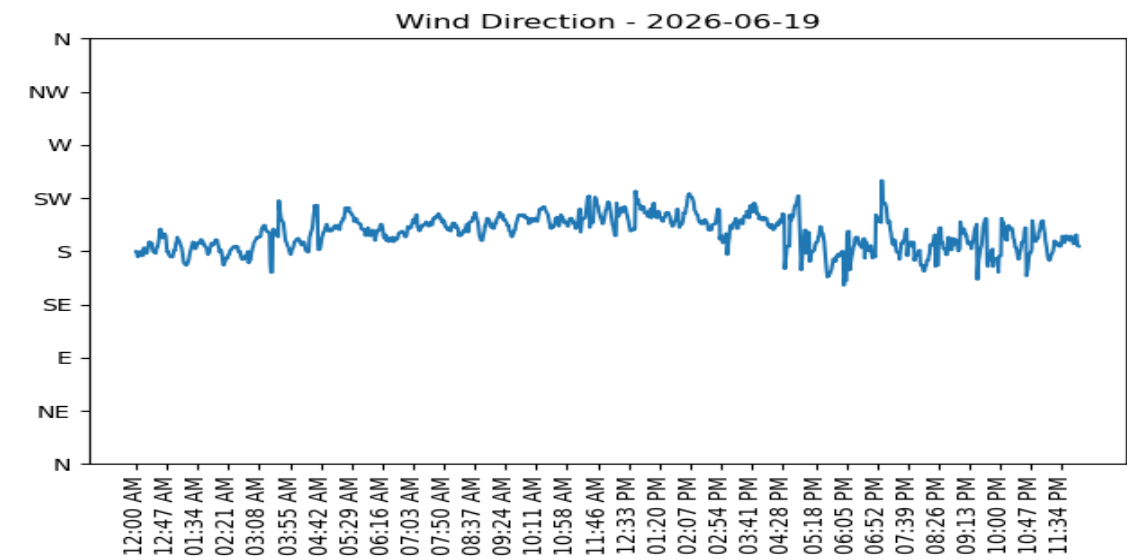


2026-06-19

Wind Speed:

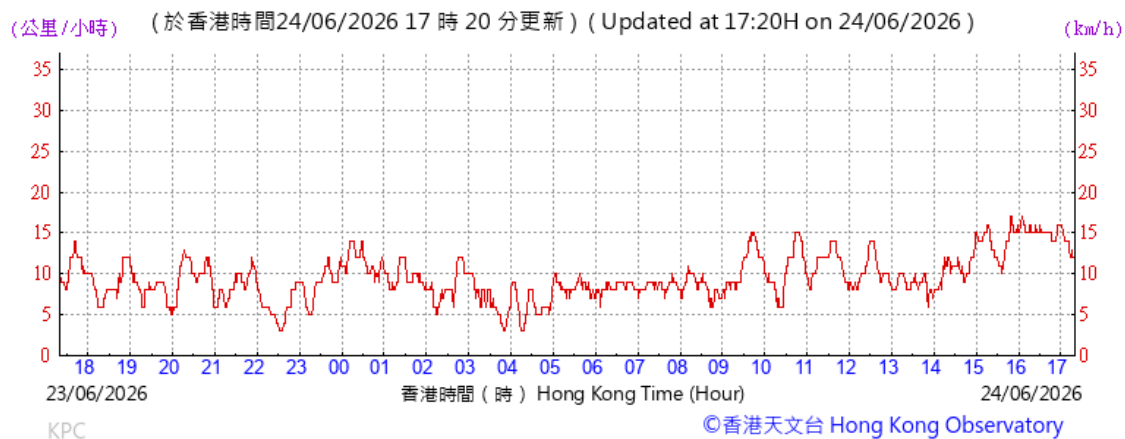


Wind Direction:

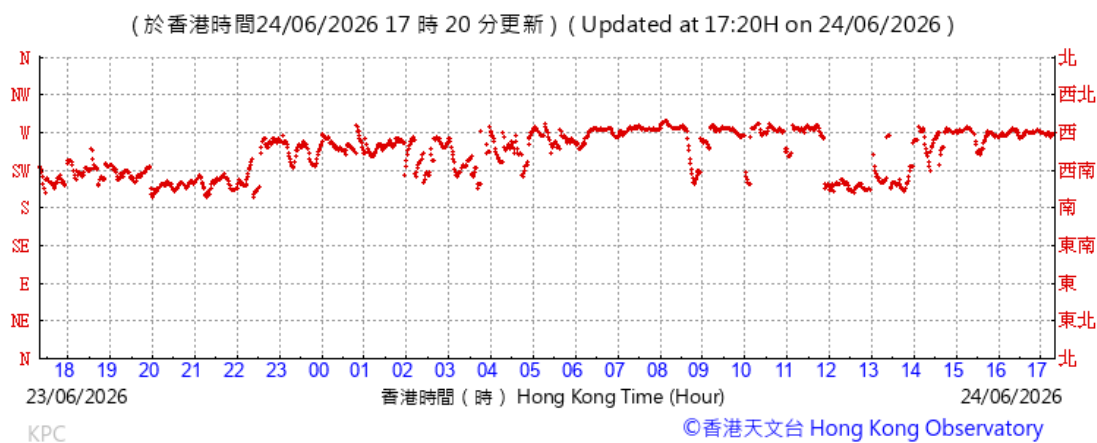


2026-06-24

Wind Speed:

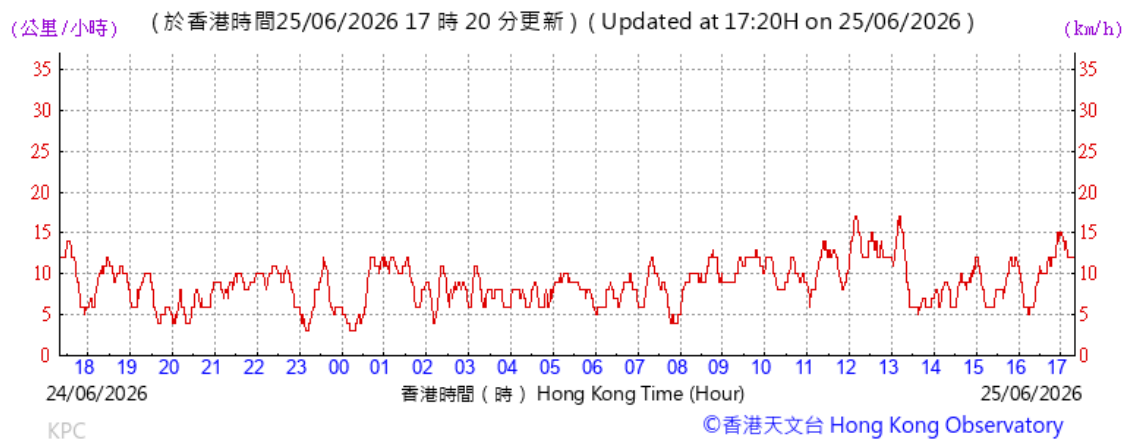


Wind Direction:

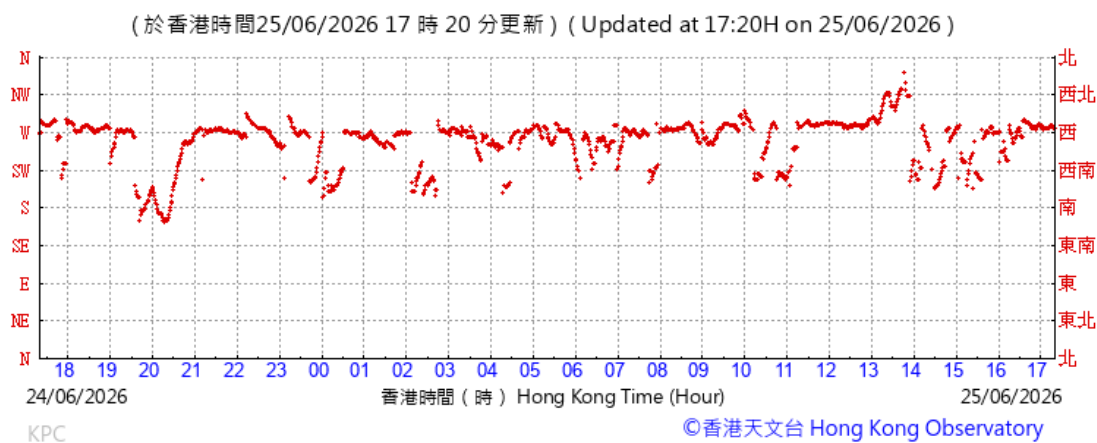


2026-06-25

Wind Speed:

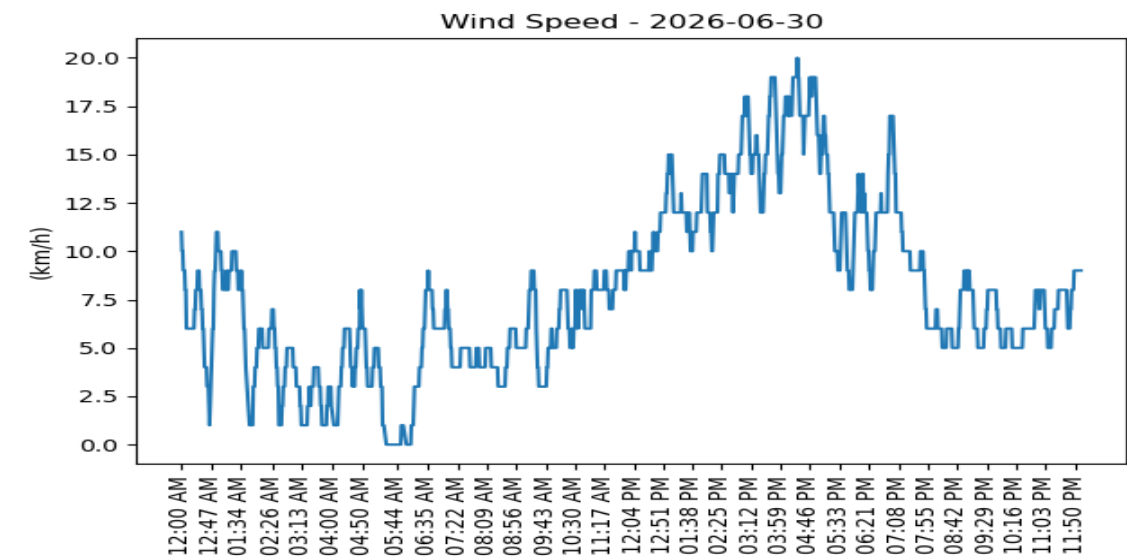


Wind Direction:

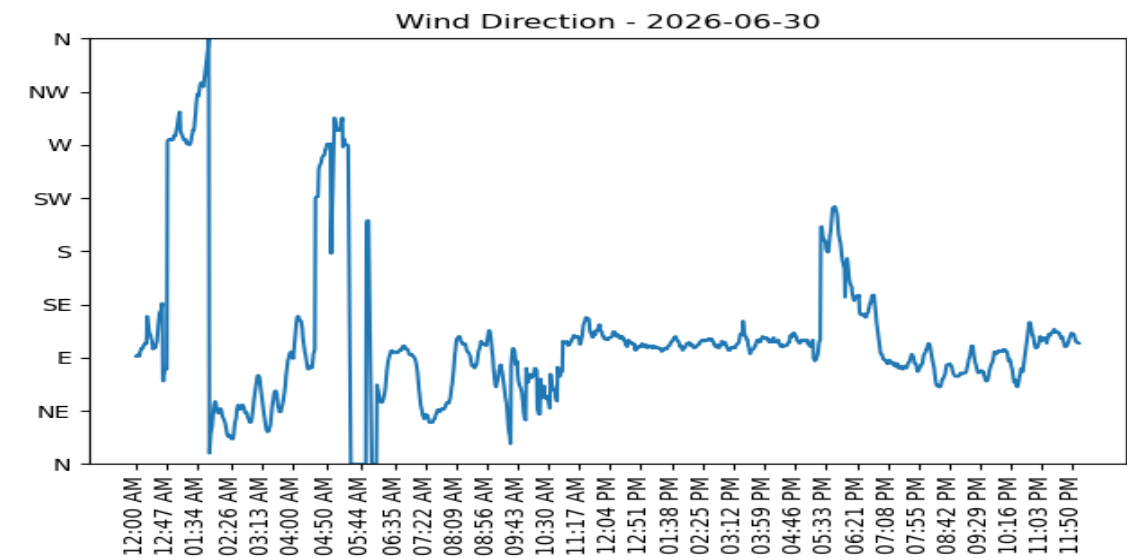


2026-06-30

Wind Speed:

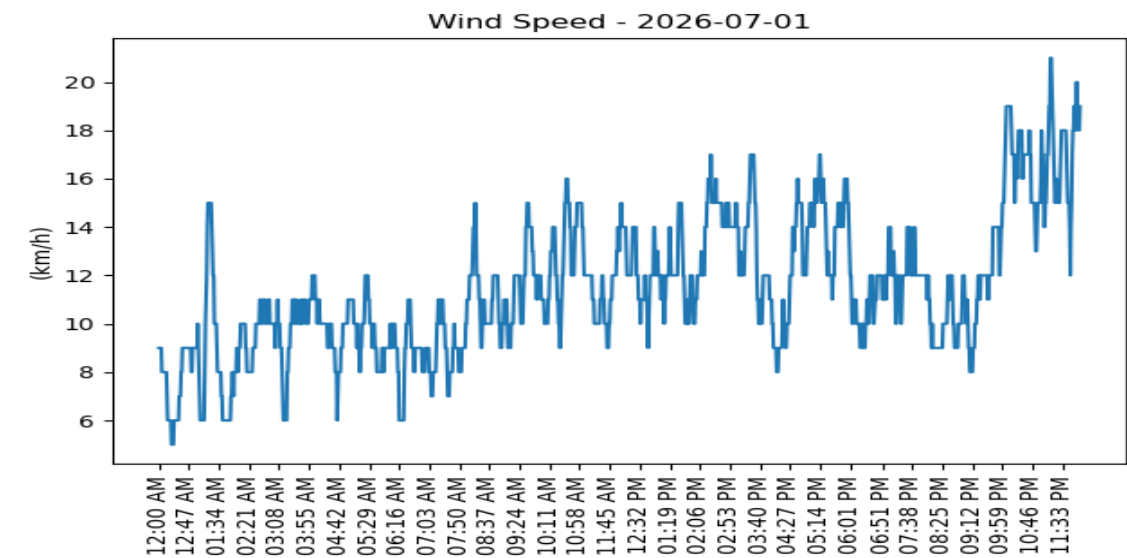


Wind Direction:

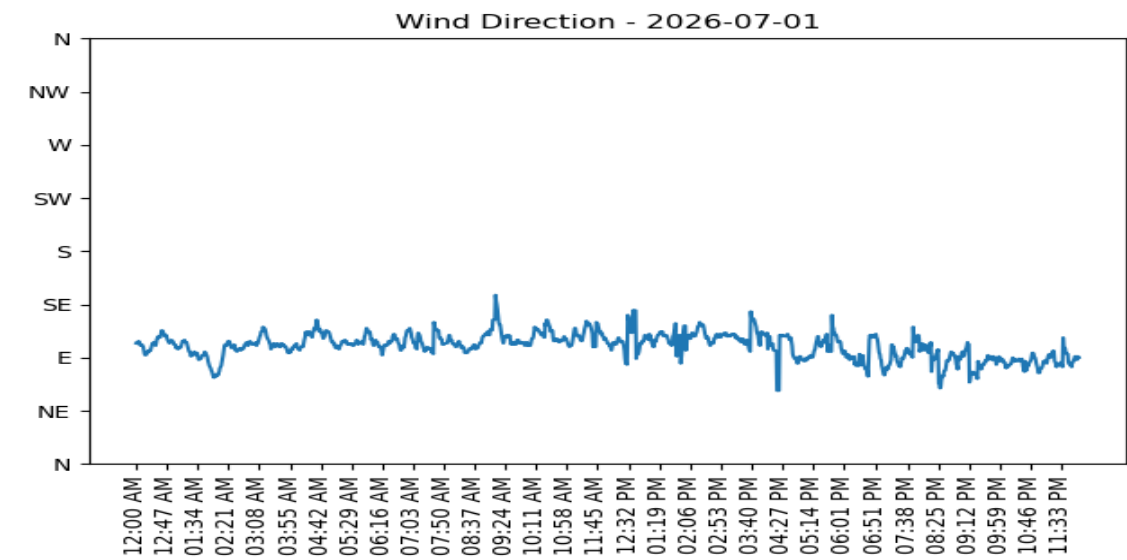


2026-07-01

Wind Speed:



Wind Direction:



I. Waste Flow Table

Table I-1: Monthly Waste Flow Table for Lyric Theatre Complex

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facility	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
2016													
Mar	2702.1	0.0	0.0	0.0	2702.1	0.0	0.0	4.5	0.1	0.0	0.0	0.0	30.6
Apr	8631.5	0.0	0.0	0.0	8631.5	0.0	0.0	16.0	0.0	0.0	0.0	0.0	19.2
May	12487.8	0.0	0.0	0.0	12487.8	0.0	0.0	34.0	0.0	0.0	0.0	0.7	60.5
Jun	8600.8	0.0	0.0	0.0	8600.8	0.0	0.0	31.4	0.2	0.0	0.0	0.5	13.5
Jul	12624.2	0.0	0.0	0.0	12624.2	0.0	0.0	19.6	0.0	0.0	0.0	2.0	9.9
Aug	14419.9	0.0	0.0	0.0	14419.9	0.0	0.0	43.9	0.0	0.0	0.0	0.0	11.1
Sep	13671.3	0.0	0.0	0.0	13671.3	0.0	0.0	59.8	0.0	0.0	0.0	1.6	12.4
Oct	13088.9	0.0	0.0	0.0	13088.9	0.0	0.0	36.9	0.2	1.5	0.0	0.0	15.2
Nov	12424.7	0.0	0.0	0.0	12424.7	0.0	0.0	74.7	0.0	0.0	0.0	1.4	10.2
Dec	12487.6	0.0	0.0	0.0	12487.6	0.0	0.0	13.9	0.0	0.0	0.0	1.3	9.0
Sub-total (2016)	111138.8	0.0	0.0	0.0	111138.8	0.0	0.0	334.5	0.4	1.5	0.0	7.6	191.6
2017													
Jan	9607.8	0.0	0.0	0.0	9607.8	0.0	0.0	29.5	0.0	0.0	0.0	0.0	7.3
Feb	9108.2	0.0	0.0	0.0	9108.2	0.0	0.0	50.2	0.2	0.0	0.0	0.7	9.8
Mar	11361.7	0.0	0.0	0.0	11361.7	0.0	0.0	16.1	0.0	0.0	0.0	1.4	8.5
Apr	2591.5	0.0	0.0	0.0	2591.5	0.0	0.0	35.7	0.0	0.0	0.0	0.0	4.7
May	2579.3	0.0	0.0	99.0	2480.3	0.0	0.0	20.9	0.1	0.0	0.0	0.5	10.0
Jun	476.0	0.0	0.0	341.0	129.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0	7.6
Jul	3419.0	0.0	0.0	804.0	2615.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.8
Aug	3730.9	0.0	0.0	1377.5	2353.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
Sep	2108.2	0.0	0.0	1133.5	974.7	0.0	0.0	34.6	0.2	0.0	0.0	0.0	10.8
Oct	9159.0	0.0	0.0	7868.0	1291.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	9.3
Nov	5095.4	0.0	0.0	4352.0	725.2	18.1	0.0	0.0	0.0	0.0	0.0	0.0	38.8
Dec	3856.2	0.0	0.0	3076.0	780.2	0.0	0.0	0.0	0.2	0.0	0.0	0.4	8.4
Sub-total (2017)	63093.1	0.0	0.0	19051.0	44018.7	23.4	0.0	187.1	0.7	0.0	0.0	3.8	137.3

Table I-1: Monthly Waste Flow Table for Lyric Theatre Complex

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facility	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
2018													
Jan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
Mar	6120.2	0.0	0.0	5782.0	338.2	0.0	0.0	0.0	0.0	1.0	0.0	0.5	17.6
Apr	14460.3	0.0	0.0	12484.1	1976.3	0.0	0.0	0.0	0.0	0.2	0.0	0.0	7.6
May	59783.7	0.0	0.0	46989.0	12794.7	0.0	0.0	59.6	0.0	0.0	0.0	0.0	9.4
Jun	53117.5	0.0	0.0	37642.8	15474.7	0.0	0.0	51.5	0.2	0.0	0.0	0.0	12.8
Jul	89901.5	0.0	0.0	85317.1	4584.4	0.0	165.1	114.6	0.0	0.0	0.0	0.0	41.3
Aug	35137.3	0.0	0.0	33731.6	1405.7	0.0	214.3	148.1	0.0	0.0	0.0	0.0	48.5
Sep	4924.3	0.0	0.0	4641.2	196.1	87.0	174.6	40.0	0.0	0.0	0.0	0.0	179.2
Oct	19099.9	0.0	0.0	11301.0	7642.8	156.1	0.0	106.3	0.4	0.0	0.0	0.0	528.5
Nov	104168.0	0.0	0.0	79811.6	24351.0	5.3	0.0	54.5	0.0	0.6	0.0	0.0	31.5
Dec	62989.9	0.0	0.0	51284.4	11699.9	5.6	0.0	95.1	0.0	0.6	0.0	0.0	65.9
Sub-total (2018)	449702.6	0.0	0.0	368984.8	80463.7	254.0	553.9	669.7	0.5	2.4	0.0	0.5	943.7
2019													
Jan	74479.1	0.0	0.0	69249.5	5229.7	0.0	318.0	326.7	0.2	0.0	0.0	0.0	76.3
Feb	21969.9	0.0	0.0	17723.9	4246.0	0.0	16.5	55.2	0.0	0.0	0.0	0.0	26.7
Mar	19311.9	0.0	0.0	8569.9	10742.0	0.0	337.8	61.5	0.0	0.0	0.0	0.0	36.3
Apr	28559.9	0.0	0.0	21280.3	7279.6	0.0	0.0	32.6	0.0	0.8	0.0	0.0	24.9
May	45418.0	0.0	0.0	11200.6	34217.4	0.0	0.0	27.4	0.2	0.5	0.0	0.0	33.7
Jun	66633.4	0.0	0.0	23874.5	42748.0	10.9	59.2	11.9	0.0	0.9	0.0	0.0	35.3
Jul	36619.6	0.0	0.0	1632.7	34960.9	26.0	64.4	120.7	0.0	0.0	0.0	0.0	57.9
Aug	2526.8	0.0	0.0	0.0	2499.0	27.8	31.9	40.2	0.0	0.8	0.0	0.0	66.3
Sep	4117.6	0.0	0.0	0.0	4088.7	28.9	95.2	19.0	0.0	0.6	0.0	0.0	127.4
Oct	6974.2	0.0	0.0	0.0	6948.1	26.1	15.9	11.4	0.2	1.0	0.0	0.6	223.6
Nov	5334.4	0.0	0.0	0.0	5304.1	30.3	0.0	8.9	0.0	0.0	0.0	0.0	151.6
Dec	6236.8	0.0	0.0	0.0	6236.8	0.0	0.0	70.6	0.0	0.0	0.0	0.0	98.9
Sub-total (2019)	318181.6	0.0	0.0	153531.3	164500.1	150.1	938.9	785.8	0.6	4.6	0.0	0.6	959.0

Table I-1: Monthly Waste Flow Table for Lyric Theatre Complex

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facility	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
2020													
Jan	7089.9	0.0	0.0	0.0	7089.9	0.0	0.0	39.6	0.2	0.0	0.0	0.0	65.7
Feb	16822.3	0.0	0.0	0.0	16822.3	0.0	0.0	240.5	0.1	0.0	0.0	0.0	66.3
Mar	6559.0	0.0	0.0	0.0	6559.0	0.0	110.4	63.1	0.0	0.9	0.0	0.0	138.3
Apr	4997.9	0.0	0.0	1615.7	3382.2	0.0	159.2	1129.2	1.9	0.0	0.0	0.0	113.2
May	2236.0	0.0	0.0	452.3	1783.6	0.0	0.0	412.3	0.0	0.0	0.0	0.0	188.8
Jun	1134.3	0.0	0.0	0.0	1134.3	0.0	31.5	328.7	0.2	0.6	0.0	0.0	210.6
Jul	148.8	0.0	0.0	0.0	148.8	0.0	31.5	502.2	0.5	0.0	0.0	0.0	220.0
Aug	540.7	0.0	0.0	0.0	540.7	0.0	0.0	393.4	0.0	0.0	0.0	0.0	238.3
Sep	1432.3	0.0	0.0	0.0	1432.3	0.0	0.0	835.6	0.2	0.0	0.0	0.0	291.9
Oct	1381.5	0.0	0.0	0.0	1381.5	0.0	0.0	756.1	0.2	0.0	0.0	0.0	400.2
Nov	1444.1	0.0	0.0	0.0	1437.4	6.7	475.8	567.8	0.2	0.5	0.0	0.0	377.8
Dec	793.8	0.0	0.0	0.0	793.8	0.0	0.0	503.4	0.2	0.0	0.0	0.0	435.8
Sub-total (2020)	44580.6	0.0	0.0	2068.1	42505.8	6.7	808.3	5771.9	3.7	2.0	0.0	0.0	2746.8
2021													
Jan	881.4	0.0	0.0	0.0	881.4	0.0	0.0	906.7	0.4	0.0	0.0	0.0	497.0
Feb	544.7	0.0	0.0	0.0	544.7	0.0	0.0	206.3	0.3	0.0	0.0	0.0	504.7
Mar	406.1	0.0	0.0	0.0	406.1	0.0	0.0	1235.0	0.3	0.0	0.0	0.0	881.7
Apr	633.0	0.0	0.0	0.0	633.0	0.0	0.0	480.8	0.7	0.0	0.0	0.0	613.0
May	1125.8	0.0	0.0	0.0	1125.8	0.0	0.0	382.8	0.2	0.1	0.0	0.0	355.2
Jun	877.3	0.0	0.0	0.0	877.3	0.0	0.0	163.7	0.2	0.0	0.0	0.4	420.3
Jul	8.9	0.0	0.0	0.0	0.0	8.9	0.0	56.5	2.0	0.0	0.0	0.0	278.2
Aug	1296.2	0.0	0.0	0.0	1296.2	0.0	0.0	270.0	0.0	0.0	0.0	0.0	459.1
Sep	1040.5	0.0	0.0	0.0	490.9	549.6	0.0	193.2	0.0	0.0	0.0	0.0	620.8
Oct	311.0	0.0	0.0	0.0	311.0	0.0	0.0	92.0	0.3	0.0	0.0	0.0	485.6
Nov	203.9	0.0	0.0	0.0	203.9	0.0	0.0	93.9	0.0	0.0	0.0	0.0	609.6
Dec	576.6	0.0	0.0	0.0	576.6	0.0	0.0	85.2	0.0	0.0	0.0	0.0	590.6
Sub-total (2021)	7905.3	0.0	0.0	0.0	7346.9	558.5	0.0	4165.9	4.4	0.1	0.0	0.4	6315.9

Table I-1: Monthly Waste Flow Table for Lyric Theatre Complex

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facility	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
2022													
Jan	579.3	0.0	0.0	0.0	579.3	0.0	0.0	41.3	0.4	0.0	0.0	0.0	565.5
Feb	58.9	0.0	0.0	0.0	58.9	0.0	0.0	85.7	0.0	0.0	0.0	0.0	172.2
Mar	412.8	0.0	0.0	0.0	412.8	0.0	0.0	87.1	0.3	0.0	0.0	0.0	339.8
Apr	390.2	0.0	0.0	0.0	390.2	0.0	0.0	44.7	0.0	0.0	0.0	0.0	390.9
May	357.3	0.0	0.0	0.0	350.1	7.2	0.0	99.4	0.3	0.0	0.0	0.0	401.9
Jun	200.4	0.0	0.0	0.0	200.4	0.0	0.0	134.7	0.0	0.0	0.0	1.1	447.8
Jul	166.8	0.0	0.0	0.0	166.8	0.0	0.0	15.3	0.3	0.0	0.0	0.7	343.9
Aug	150.9	0.0	0.0	0.0	150.9	0.0	0.0	9.6	0.4	0.2	0.0	0.0	410.6
Sep	437.6	0.0	0.0	0.0	437.6	0.0	0.0	11.5	0.3	0.0	0.0	0.0	348.3
Oct	708.0	0.0	0.0	0.0	708.0	0.0	0.0	13.8	0.0	0.0	0.0	0.0	353.0
Nov	244.1	0.0	0.0	0.0	244.1	0.0	0.0	47.3	0.3	0.0	0.0	0.0	427.4
Dec	337.4	0.0	0.0	0.0	337.4	0.0	0.0	28.1	0.0	0.0	0.0	0.0	385.3
Sub-total (2022)	4043.5	0.0	0.0	0.0	4036.3	7.2	0.0	618.3	2.3	0.3	0.0	1.8	4586.5
2023													
Jan	307.0	0.0	0.0	0.0	307.0	0.0	0.0	44.5	0.2	0.0	0.0	0.0	415.1
Feb	1087.8	0.0	0.0	0.0	1087.8	0.0	0.0	22.9	0.4	0.0	0.0	0.0	411.4
Mar	1944.0	0.0	0.0	0.0	1944.0	0.0	0.0	37.7	0.0	0.0	0.0	0.0	469.6
Apr	819.5	0.0	0.0	0.0	819.5	0.0	0.0	218.7	0.1	0.0	0.0	0.0	320.5
May	842.1	0.0	0.0	0.0	842.1	0.0	0.0	35.6	0.3	0.0	0.0	0.0	439.4
Jun	952.1	0.0	0.0	0.0	952.1	0.0	0.0	22.9	0.2	0.0	0.0	0.0	399.3
Jul	583.1	0.0	0.0	0.0	583.1	0.0	0.0	38.3	0.0	0.0	0.0	0.0	421.6
Aug	778.2	0.0	0.0	0.0	778.2	0.0	0.0	28.5	0.0	0.0	0.0	0.0	427.9
Sep	316.4	0.0	0.0	0.0	316.4	0.0	0.0	14.8	0.1	0.0	0.0	0.0	344.3
Oct	1253.3	0.0	0.0	0.0	1253.3	0.0	0.0	17.9	0.0	0.0	0.0	0.0	353.9
Nov	862.7	0.0	0.0	0.0	862.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	436.4
Dec	337.8	0.0	0.0	0.0	337.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	374.0
Sub-total (2023)	10084.0	0.0	0.0	0.0	10084.0	0.0	0.0	481.8	1.3	0.0	0.0	0.0	4813.3

Table I-1: Monthly Waste Flow Table for Lyric Theatre Complex

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facility	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
2024													
Jan	256.8	0.0	0.0	0.0	256.8	0.0	0.0	11.1	0.6	0.0	0.0	0.0	448.6
Feb	321.4	0.0	0.0	0.0	321.4	0.0	0.0	9.4	0.6	0.0	0.0	0.0	263.4
Mar	1167.4	0.0	0.0	0.0	1167.4	0.0	0.0	445.3	0.2	0.0	0.0	0.2	360.9
Apr	283.5	0.0	0.0	0.0	283.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0	467.1
May	534.3	0.0	0.0	0.0	534.3	0.0	0.0	16.9	0.7	0.0	0.0	0.0	376.3
Jun	175.1	0.0	0.0	0.0	175.1	0.0	0.0	73.5	0.0	0.0	0.0	0.0	339.3
Jul	1171.9	0.0	0.0	0.0	1171.9	0.0	0.0	43.6	0.0	0.0	0.0	0.0	408.4
Aug	1056.5	0.0	0.0	0.0	1056.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0	354.2
Sep	286.0	0.0	0.0	0.0	286.0	0.0	0.0	8.9	0.5	0.0	0.0	0.0	383.6
Oct	433.3	0.0	0.0	0.0	433.3	0.0	0.0	93.1	0.0	0.0	0.0	0.0	520.4
Nov	599.0	0.0	0.0	0.0	599.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	708.8
Dec	291.0	0.0	0.0	0.0	291.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	646.5
Sub-total (2024)	6576.1	0.0	0.0	0.0	6576.1	0.0	0.0	701.7	3.0	0.0	0.0	0.2	5277.4
2025													
Jan	312.8	0.0	0.0	0.0	307.1	5.8	0.0	0.0	0.1	0.0	0.0	0.0	714.3
Feb	1147.3	0.0	0.0	0.0	1147.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	600.1
Mar	1513.2	0.0	0.0	0.0	1513.2	0.0	0.0	0.0	0.5	0.0	0.0	0.0	592.8
Apr	335.3	0.0	0.0	0.0	335.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	564.2
May	390.8	0.0	0.0	0.0	390.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	694.0
Jun	175.5	0.0	0.0	0.0	175.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0	676.3
Jul	186.6	0.0	0.0	0.0	186.6	0.0	0.0	0.0	0.4	0.0	0.0	0.0	891.3
Aug	283.1	0.0	0.0	0.0	283.1	0.0	0.0	0.0	0.5	0.0	0.0	0.0	693.5
Sep	399.5	0.0	0.0	0.0	399.5	0.0	0.0	0.0	0.1	0.0	0.0	0.0	523.9
Oct	349.4	0.0	0.0	0.0	349.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	695.3
Nov	483.7	0.0	0.0	0.0	483.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	590.2
Dec	357.1	0.0	0.0	0.0	357.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	628.1
Sub-total (2025)	5934.3	0.0	0.0	0.0	5928.5	5.8	0.0	0.0	2.1	0.0	0.0	0.0	7864.1

Table I-1: Monthly Waste Flow Table for Lyric Theatre Complex

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facility	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
2026													
Jan	750.2	0.0	0.0	0.0	750.2	0.0	0.0	0.0	0.6	0.0	0.0	0.0	669.2
Feb	188.6	0.0	0.0	0.0	188.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	523.9
Mar	194.8	0.0	0.0	0.0	194.8	0.0	0.0	0.0	0.2	0.0	0.0	0.0	897.1
Apr	616.4	0.0	0.0	0.0	616.4	0.0	0.0	0.0	0.2	0.0	0.0	0.0	482.8
May	553.2	0.0	0.0	0.0	553.2	0.0	0.0	0.0	1.9	0.0	0.0	0.0	795.3
Jun	453.1	0.0	0.0	0.0	453.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0	582.7
Sub-total (2026)	2756.3	0.0	0.0	0.0	2756.3	0.0	0.0	0.0	3.0	0.0	0.0	0.0	3951.0
Total	1023996.0	0.0	0.0	543635.2	479355.1	1005.7	2301.1	13716.7	22.0	10.8	0.0	14.9	37786.5

Note:

- 438.78 tonnes, 14.36 tonnes and 0.0 tonne of inert C&D materials were disposed of as public fill to Tseung Kwan O Area 137 Public Fill, Tuen Mun Area 38 Public Fill and Chai Wan Public Fill Barging Point respectively in the reporting month.

J. Environmental Mitigation Measures – Implementation Status

Table J-1: Environmental Mitigation Measures Implementation Status (June 2026)

[illegible]

EM&A Ref.	Recommendation Measures	Implementation Stage
		L2
	<i>Transport of Dusty Materials</i>	
	Vehicle used for transporting dusty materials/spoils should be covered with tarpaulin or similar material. The cover should extend over the edges of the sides and tailboards.	✓
	<i>Wheel washing</i>	
	Vehicle wheel washing facilities should be provided at each construction site exit. Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels.	✓
	<i>Use of vehicles</i>	
	The speed of the trucks within the site should be controlled to about 10km/hour in order to reduce adverse dust impacts and secure the safe movement around the site.	✓
	Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels.	✓
	Where a vehicle leaving the construction site is carrying a load of dusty materials, the load should be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle.	✓
	<i>Site hoarding</i>	
	Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit.	✓
2.1 & 10.3.1	Best Practicable Means for Cement Works (Concrete Batching Plant)	
	The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Cement Works (Concrete Batching Plant) BPM 3/2(93) should be followed and implemented to further reduce the construction dust impacts of the Project. These best practices include:	
	Exhaust from Dust Arrestment Plant	
	Wherever possible the final discharge point from particulate matter arrestment plant, where is not necessary to achieve dispersion from residual pollutants, should be at low level to minimise the effect on the local community in the case of abnormal emissions and to facilitate maintenance and inspection	N/A No concrete batching plant in this project.
	Emission Limits	
	All emissions to air, other than steam or water vapour, shall be colourless and free from persistent mist or smoke	N/A No concrete batching plant in this project.
	Engineering Design/Technical Requirements	
	As a general guidance, the loading, unloading, handling and storage of fuel, raw materials, products, wastes or by-products should be carried out in a manner so as to prevent the release of visible dust and/or other noxious or offensive emissions	N/A No concrete batching plant in this project.

EM&A Ref. Recommendation Measures		Implementation Stage
		L2
	Non-Road Mobile Machinery (NRMM): All NRMMs operating on-site which are subject to emission control of Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation are approved/exempted (as the case may be) and affixed with the requisite approval/exemption labels.	✓
Noise Impact (Construction)		
3.1 & 10.4.1	Good Site Practice Good site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The following package of measures should be followed during each phase of construction: - only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works; - machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum - plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs; - mobile plant should be sited as far away from NSRs as possible; and - material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities.	✓ ✓ ✓ ✓ ✓
3.1 & 10.4.1	Adoption of Quieter PME The recommended quieter PME adopted in the assessment were taken from the EPD's QPME Inventory and " <i>Sound Power Levels of Other Commonly Used PME</i> " are presented in Table 4.26 in the EIA report. It should be noted that the silenced PME selected for assessment can be found in Hong Kong.	✓
3.1 & 10.4.1	Use of Movable Noise Barriers Movable noise barriers can be very effective in screening noise from particular items of plant when constructing the Project. Noise barriers located along the active works area close to the noise generating component of a PME could produce at least 10 dB(A) screening for stationary plant and 5 dB(A) for mobile plant provided the direct line of sight between the PME and the NSRs is blocked.	✓
3.1 & 10.4.1	Use of Noise Enclosure/ Acoustic Shed The use of noise enclosure or acoustic shed is to cover stationary PME such as air compressor and concrete pump. With the adoption of the noise enclosure, the PME could be completely screened, and noise reduction of 15 dB(A) can be achieved according to the EIAO Guidance Note No. 9/2010.	✓
3.1 & 10.4.1	Use of Noise Insulating Fabric Noise insulating fabric can also be adopted for certain PME (e.g. drill rig, pilling machine etc). The fabric should be lapped such that there are no openings or gaps on the joints. According to the approved Tsim Sha Tsui Station Northern Subway EIA report (AEIAR-127/2008), a noise reduction of 10 dB(A) can be achieved for the PME lapped with the noise insulating fabric.	Obs

Implementation Stage

L2

EM&A Ref.	Recommendation Measures	
3.1 & 10.4.1	Scheduling of Construction Works outside School Examination Periods During construction phase, the contractor should liaise with the educational institutions (including NSRs LCS and CRGPS) to obtain the examination schedule and avoid the noisy construction activities during school examination periods.	N/A No educational institutions nearby the site.

Water Quality Impact (Construction)

4.1 & 10.5.1	Construction site runoff and drainage The site practices outlined in ProPECC Note PN 1/94 should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. The following measures are recommended to protect water quality and sensitive uses of the coastal area, and when properly implemented should be sufficient to adequately control site discharges so as to avoid water quality impacts: - At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels, earth bunds or sand bag barriers should be provided on site to direct storm water to silt removal facilities. The design of the temporary on-site drainage system should be undertaken by the WKCD's Contractor prior to the commencement of construction; - Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the TM standards under the WPCO. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC Note PN 1/94. Sizes may vary depending upon the flow rate. The detailed design of the sand/silt traps should be undertaken by the WKCD's Contractor prior to the commencement of construction. - All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit should be regularly removed, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times. - Measures should be taken to minimize the ingress of site drainage into excavations. If excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from foundation excavations should be discharged into storm drains via silt removal facilities. - 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 sited wheel washing facility should be provided at construction site exit where practicable. Wash-water should have sand and silt settled out and removed regularly 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. - Open stockpiles of construction materials or construction wastes on-site 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. - Manholes (including newly constructed ones) should be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and stormwater runoff being directed into foul sewers.	✓ ✓ ✓ ✓ ✓ ✓
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Implementation Stage	
EM&A Ref.	Recommendation Measures
	L2
	- Precautions should be taken at any time of the year when rainstorms are likely. Actions should be taken when a rainstorm is imminent or forecasted and actions to be taken during or after rainstorms are summarized in Appendix A2 of ProPECC Note PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes. - Bentonite slurries used in piling or slurry walling should be reconditioned and reused wherever practicable. Temporary enclosed storage locations should be provided on-site for any unused bentonite that needs to be transported away after all the related construction activities are completed. The requirements in ProPECC Note PN 1/94 should be adhered to in the handling and disposal of bentonite slurries. Barging facilities and activities Recommendations for good site practices during operation of the proposed barging point include: - All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; - Loading of barges and hoppers should be controlled to prevent splashing of material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation; - All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; and - Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site.
4.1 & 10.5.1	Sewage effluent from construction workforce Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.
4.1 & 10.5.1	General construction activities - Construction solid waste, debris and refuse generated on-site should be collected, handled and disposed of properly to avoid entering any nearby storm water drain. Stockpiles of cement and other construction materials should be kept covered when not being used. - Oils and fuels should only be stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to any nearby storm water drain, all fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund should be drained of rainwater after a rain event.

✓

N/A

No bentonite slurries are used in this project.

N/A

No barging facilities in this project.

N/A

No barging facilities in this project.

N/A

No barging facilities in this project.

N/A

No barging facilities in this project.

✓

✓

Obs

EM&A Ref. Recommendation Measures

Waste Management Implications (Construction)

6.1 & 10.7.1	Good Site Practices	Recommendations for good site practices during the construction activities include: - 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 - Training of site personnel in proper waste management and chemical handling procedures - Provision of sufficient waste disposal points and regular collection of waste - Appropriate measures to minimise windblown litter and dust/odour during transportation of waste by either covering trucks or by transporting wastes in enclosed containers - Provision of wheel washing facilities before the trucks leaving the works area so as to minimise dust introduction to public roads - Well planned delivery programme for offsite disposal such that adverse environmental impact from transporting the inert or non-inert C&D materials is not anticipated	Rem ✓ ✓ ✓ ✓ ✓
6.1 & 10.7.1	Waste Reduction Measures	Recommendations to achieve waste reduction include: - Sort inert C&D material to recover any recyclable portions such as metals - Segregation and storage of different types of waste in different containers or skips to enhance reuse or recycling of materials and their proper disposal - Encourage collection of recyclable waste such as waste paper and aluminium cans by providing separate labelled bins to enable such waste to be segregated from other general refuse generated by the work force - Proper site practices to minimise the potential for damage or contamination of inert C&D materials - Plan the use of construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of wastes	✓ ✓ ✓ ✓ ✓
6.1 & 10.7.1	Inert and Non-inert C&D Materials	In order to minimise impacts resulting from collection and transportation of inert C&D material for off-site disposal, the excavated materials should be reused on-site as fill material as far as practicable. In addition, inert C&D material generated from excavation works could be reused as fill materials in local projects that require public fill for reclamation. - The surplus inert C&D material will be disposed of at the Government's PFRFs for beneficial use by other projects in Hong Kong. - Liaison with the CEDD Public Fill Committee (PFC) on the allocation of space for disposal of the inert C&D materials at PFRF is underway. No construction work is allowed to proceed until all issues on management of inert C&D materials have been resolved and all relevant arrangements have been endorsed by the relevant authorities including PFC and EPD. - The C&D materials generated from general site clearance should be sorted on site to segregate any inert materials for reuse or disposal of at PFRFs whereas the non-inert materials will be disposed of at the designated landfill site.	✓ ✓ ✓

EM&A Ref. Recommendation Measures		Implementation Stage
		L2
	In order to monitor the disposal of inert and non-inert C&D materials at respectively PFRFs and the designated landfill site, and to control fly-tipping, it is recommended that the Contractor should follow the Technical Circular (Works) No. 6/2010 for Trip Ticket System for Disposal of Construction & Demolition Materials issued by Development Bureau. In addition, it is also recommended that the Contractor should prepare and implement a Waste Management Plan detailing their various waste arising and waste management practices in accordance with the relevant requirements of the Technical Circular (Works) No. 19/2005 Environmental Management on Construction Site.	✓
6.1 & 10.7.1	Chemical Waste - If chemical wastes are produced at the construction site, the Contractor will be required to register with the EPD as a chemical waste producer and to follow the guidelines stated in the "Code of Practice on the Packaging Labelling and Storage of Chemical Wastes". Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor should use a licensed collector to transport and dispose of the chemical wastes at the approved Chemical Waste Treatment Centre or other licensed recycling facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. - Potential environmental impacts arising from the handling activities (including storage, collection, transportation and disposal of chemical waste) are expected to be minimal with the implementation of appropriate mitigation measures as recommended.	✓
6.1 & 10.7.1	General Refuse General refuse should be stored in enclosed bins or compaction units separated from inert C&D materials. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from inert C&D materials. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.	✓
Land Contamination (Construction)		
7.1 & 10.8.1	The potential for land contamination issues at the TST Fire Station due to its future relocation will be confirmed by site investigation after land acquisition. Where necessary, mitigation measures for minimising potential exposure to contaminated materials (if any) or remediation measures will be identified. If contaminated land is identified (e.g., during decommissioning of fuel oil storage tanks) after the commencement of works, mitigation measures are proposed in order to minimise the potentially adverse effects on the health and safety of construction workers and impacts arising from the disposal of potentially contaminated materials. The following measures are proposed for excavation and transportation of contaminated material: To minimize the chance for construction workers to come into contact with any contaminated materials, bulk earth-moving excavation equipment should be employed;	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.

EM&A Ref.	Recommendation Measures	Implementation Stage
		L2
	• Contact with contaminated materials can be minimised by wearing appropriate clothing and personal protective equipment such as gloves and masks (especially when interacting directly with contaminated material), provision of washing facilities and prohibition of smoking and eating on site;	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
	• Stockpiling of contaminated excavated materials on site should be avoided as far as possible;	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
	• The use of contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out;	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
	• Vehicles containing any contaminated excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater;	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
	• Truck bodies and tailgates should be sealed to stop any discharge;	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
	• Only licensed waste haulers should be used to collect and transport contaminated material to treatment/disposal site and should be equipped with tracking system to avoid fly tipping;	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
	• Speed control for trucks carrying contaminated materials should be exercised;	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
	• Observe all relevant regulations in relation to waste handling, such as Waste Disposal Ordinance (Cap. 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap. 354) and obtain all necessary permits where required; and	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.

EM&A Ref. Recommendation Measures		Implementation Stage
		L2
	Maintain records of waste generation and disposal quantities and disposal arrangements.	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
Ecological Impact (Construction)		
	No mitigation measure is required.	
Landscape and Visual Impact (Construction)		
Table 9.1 & 10.8 (CM1)	Trees should be retained in situ on site as far as possible. Should tree removal be unavoidable due to construction impacts, trees will be transplanted or felled with reference to the stated criteria in the Tree Removal Applications to be submitted to relevant government departments for approval in accordance to ETWB TCW No. 29/2004 and 3/2006.	N/A No trees under this Contract.
Table 9.1 & 10.8 (CM2)	Compensatory tree planting shall be incorporated to the proposed project and maximize the new tree, shrubs and other vegetation planting to compensate tree felled and vegetation removed. Also, implementation of compensatory planting should be of a ratio not less than 1:1 in terms of quality and quantity within the site.	N/A Compensatory tree planting is being reviewed.
Table 9.1 & 10.8 (CM3)	Buffer trees for screening purposes to soften the hard architectural and engineering structures and facilities.	N/A Roof garden is designed to be built, but it has not been completed yet.
Table 9.1 & 10.8 (CM4)	Softscape treatments such as vertical green wall panel /planting of climbing and/or weeping plants, etc, to maximize the green coverage and soften the hard architectural and engineering structures and facilities.	N/A Climbing or weeping plants are designed to be planted, but proposal is being reviewed for the planting location.
Table 9.1 & 10.8 (CM5)	Roof greening by means of intensive and extensive green roof to maximize the green coverage and improve aesthetic appeal and visual quality of the building/structure.	N/A Roof garden is designed to be built, but it has not been completed yet.
Table 9.1 & 10.8 (CM6)	Sensitive streetscape design should be incorporated along all new roads and streets.	N/A Greening along the seafront is proposed, but it has not been completed yet.
Table 9.1 & 10.8 (CM7)	Structure, ornamental planting shall be provided along amenity strips to enhance the landscape quality.	N/A Gardens are designed to be built, but it has not been completed yet.

EM&A Ref.	Recommendation Measures	Implementation Stage
		L2
Table 9.1 & 10.8 (CM8)	Landscape design shall be incorporated to architectural and engineering structures in order to provide aesthetically pleasing designs.	N/A Roof garden is designed to be built, but it has not been completed yet.
Table 9.1 (CM9)	Minimize the structure of marine facilities to be built on the seabed and foreshore in order to minimize the affected extent to the waterbody	N/A No marine facilities for this project.
Table 9.2 & 10.9 (MCP1)	Use of decorative screen hoarding/boards	✓
Table 9.2 & 10.9 (MCP2)	Early introduction of landscape treatments	N/A No landscape treatments during this stage.
Table 9.2 & 10.9 (MCP3)	Adoption of light colour for the temporary ventilation shafts for the basement during the transition period.	N/A No ventilation shafts for this project.
Table 9.2 & 10.9 (MCP4)	Control of night time lighting	N/A
Table 9.2 & 10.9 (MCP5)	Use of greenery such as grass cover for the temporary open areas will help achieve the visual balance and soften the hard edges of the structures.	N/A No temporary open areas for this project.

N/A - Not Applicable
 ✓ - Implemented
 Obs - Observed
 Rem - Reminder

K. Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

Cumulative statistics for complaints, notifications of summons and successful prosecutions for the Project account for period starting from the date of commencement of construction works to the end of the reporting month are summarised in the **Table K-1** below respectively.

Table K-1: Statistics for complaints, notifications of summons and successful prosecutions for Lyric Theatre Complex

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of summons	Successful prosecutions
This reporting month	0	0	0
From 1 March 2016 to end of the reporting month (June 2026)	66	0	0

Part-2: EM&A for ELS Works for The Integrated Basement and Underground Road in Zones 2A, 2B & 2C

ELS Works for The Integrated Basement and Underground Road in Zones 2A, 2B & 2C

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The information supplied and contained within this report is, to the best of our knowledge, correct at time of printing

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Executive summary

This Monthly EM&A Report presents the monitoring works at Zones 2A, 2B & 2C from 01 to 30 June 2026.

Exceedance of Action and Limit Levels

There was no breach of Action or Limit levels for Air Quality (1-hour TSP and 24-hour TSP) and Construction Noise in this reporting month.

Implementation of Mitigation Measures

Construction phase weekly site inspections were carried out to confirm the implementation measures undertaken by the Contractors in the reporting month. The outcomes are presented in Section 4 and the status of implementation of mitigation measures in the site is shown in **Appendix J**.

Landscape and visual impact inspections were conducted as part of the above-mentioned weekly site inspections. No adverse comment on landscape and visual aspects was made during these inspections.

Record of Complaints

One environmental complaint was recorded in the reporting month.

Record of Notifications of Summons and Successful Prosecutions

No notifications of summons and successful prosecutions were recorded in the reporting month.

Future Key Issues

The major site works for Zones 2A, 2B & 2C scheduled to be commissioned in the coming month include:

- Temporary Steel Platform
- ELS Work
- Operation of barging point

Potential environmental impacts due to the construction activities, including air, noise, water quality, waste, landscape and visual, will be monitored or reviewed. The recommended environmental mitigation measures shall be implemented on site and regular inspections as required will be carried out to ensure that the environmental conditions are acceptable.

1 Introduction

1.1 Background

Apex Testing & Certification Limited (Apex) was commissioned to undertake the Environmental Team (ET) services (including environmental monitoring and audit (EM&A)) for the construction activities in Zone 2A, consisting of Foundation, Excavation and Lateral Support Works for Integrated Basement and Underground Road (Contract No.: GW/2020/05/073); Zone 2B & 2C consisting of Piling Works for Integrated Basement and Underground Road (Contract No.: CC/2020/2B/088); and Zones 2A, 2B & 2C consisting of Excavation and Lateral Support Works (Stages 1 & 2) for The Integrated Basement and Underground Road (Contract No.: CC/2023/2B/095) at WKCD. The purpose of the development in Zone 2A and Zone 2B & 2C is to reserve for Integrated Basement (IB) and Underground Road (UR). The Zone 2A construction activities involve the foundation, excavation and lateral support (ELS) works, road works, drainage diversion works, and temporary car parking. The Zone 2B & 2C construction activities involve the piling works. The construction works and EM&A programme for Zone 2A (Contract No.: GW/2020/05/073) was commenced on 03 October 2020 and handed over on 31 March 2023; while the construction works and EM&A programme for Zone 2B & 2C (Contract No.: CC/2020/2B/088) was commenced on 30 September 2021 and handed over on 05 July 2024. The construction works and EM&A programme for Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095) was commenced on 05 July 2024.

The overall works for the WKCD fall under two separate categories of Designated Project (DP) of the Environmental Impact Assessment Ordinance (EIAO), namely an “engineering feasibility study of urban development projects with a study area covering more than 20 ha or involving a total population of more than 100 000” (Item 1 of Schedule 3) and “an underpass more than 100m in length under the built areas” (Item A.9, Part I, Schedule 2). An Environmental Permit No. EP-453/2013/A (EP) was issued with respect to the “Underpass Road and Austin Road Flyover Serving the West Kowloon Cultural District” which specifically includes the abovementioned category of DP under Item A.9, Part I, Schedule 2 of the EIAO. The captioned projects include part of the abovementioned underpass road located within the site boundary falls under this same category. On 26 May 2026, a variation of the Environmental Permit was issued with No. EP-453/2013/C (EP).

The Monthly EM&A Report is prepared in accordance with the Condition 3.4 of the Environmental Permit No. EP-453/2013/C. This Monthly EM&A Report presents the monitoring works at 2A, 2B & 2C from 01 to 30 June 2026. The purpose of this report is to summarise the findings in the EM&A of the project over the reporting period.

1.2 Project Organisation

The organisation chart and lines of communication with respect to the on-site environmental management structure together with the contact information of the key personnel are shown in **Appendix A**.

1.3 Construction Works Status in the Reporting Period

During the reporting period, construction works at Zones 2A, 2B & 2C undertaken include:

- Temporary Steel Platform

- ELS Work
- Operation of barging point

The Construction Works Programme of Zones 2A, 2B & 2C is provided in **Appendix B**. A layout plan of the Project is provided in **Figure 1**. Please refer to **Table 4.3** on the status of the environmental licenses.

1.4 Summary of EM&A Requirements and Alternative Monitoring Locations

1.4.1 EM&A Requirements

The EM&A programme requires environmental monitoring of air quality, noise, landscape and visual as specified in the approved EM&A Manual.

A summary of impact EM&A requirements is presented in **Table 1.1**.

Table 1.1: Summary of Impact EM&A Requirements

Parameters	Descriptions	Locations	Frequencies
Air Quality	24-Hours TSP	AM3-The Victoria Towers Tower 1	At least once every 6 days
	1-Hour TSP	AM3-The Victoria Towers Tower 1	At least 3 times every 6 days
	24-Hours TSP	AM4-Canton Road Government Primary School	At least once every 6 days
	1-Hour TSP	AM4-Canton Road Government Primary School	At least 3 times every 6 days
	24-Hours TSP	AM5-Topside Developments at West Kowloon Terminus Site	At least once every 6 days
	1-Hour TSP	AM5-Topside Developments at West Kowloon Terminus Site	At least 3 times every 6 days
Noise	Leq, 30 minutes	NM2-The Arch, Sun Tower	Weekly
	Leq, 30 minutes	NM3-The Victoria Towers Tower 1	Weekly
	Leq, 30 minutes	NM4-Canton Road Government Primary School	Weekly
	Leq, 30 minutes	NM5-Development next to Austin Station	Weekly
Landscape & Visual	Monitor implementation of proposed mitigation measures during the construction stage	As described in Table 9.1 and 9.2 of the EM&A Manual	Bi-Weekly

1.4.2 Alternative Monitoring Locations

The EM&A programme for the Project should require 5 noise monitoring station and 5 air quality monitoring stations located closest to the Project area. With regard to the monitoring activities at M+ Museum and the Lyric Complex, three monitoring stations had been considered, including AM1 (International Commerce Centre), AM2 (The Harbourside Tower 1) for air monitoring, and NM1 (The Harbourside Tower 1) for noise monitoring.

In the context of the construction activities in Zone 2A and Zone 2B & 2C, all other monitoring locations including AM3 (The Victoria Towers Tower 1), AM4 (Canton Road Government Primary

School), and AM5 (Topside Developments at West Kowloon Terminus Site) for air monitoring; and NM2 (The Arch, Sun Tower), NM3 (The Victoria Towers Tower 1), NM4 (Canton Road Government Primary School) and NM5 (Development next to Austin Station) for noise monitoring, have been taken into account. However, access to all these originally designated monitoring stations was declined as described below point-by-point.

The Arch management office and owners' committee have formally declined the proposal of setting up noise monitoring instrument on its premises at the podium level of Sun Tower (NM2) on 24 July 2014. Thus, alternative noise monitoring location was identified at the ground floor in front of The Arch – Sun Tower (NM2A), which is at the same location as stated in the EM&A Manual for consistency. No management approval is required at the ground floor for conducting the noise monitoring. This alternative air monitoring location was approved by EPD on 29 September 2020.

The Victoria Towers management office formally declined the proposal of setting up air quality and noise monitoring instruments on its premises at the podium area of Tower 1 (AM3/NM3) on 16 June 2020. Alternative air monitoring location was identified at ground floor at the Northeast corner of West Kowloon Station's station box (AM3A), in the same direction to the area of major construction site activities in Zone 2A. This alternative air monitoring location was approved by EPD on 29 September 2020. An alternative noise monitoring location was identified at the ground floor in front of the Xiqu Centre (NM3A), which is set closer to the construction site boundary with more direct line sight to the major site activities and higher exposure to the construction noise with no disturbance to the premises' occupants during noise monitoring activities. No management approval is required at the ground floor for conducting the noise monitoring. This alternative air monitoring location was approved by EPD on 29 September 2020.

Canton Road Government Primary School formally declined the proposal of setting up air quality and noise monitoring instruments on its premise at the podium level (AM4/NM4) on 16 June 2020. Alternative air monitoring location was identified at ground floor at the Southeast corner of West Kowloon Station's station box (AM4A), in same direction to the area of major construction site activities in Zone 2A. This alternative air monitoring location was approved by EPD on 29 September 2020. An alternative noise monitoring location was identified at the ground floor next to Tsim Sha Tsui Fire Station (NM4A), which is set closer to the construction site boundary with more direct line sight to the major site activities and higher exposure to the construction noise with no disturbance to the premises' occupants during noise monitoring activities. No management approval is required at the ground floor for conducting the noise monitoring. This alternative air monitoring location was approved by EPD on 29 September 2020.

MTR also formally declined the access to the designated AM5 location (topside developments at West Kowloon Terminus Site) on 15 July 2020. Alternative air monitoring location was identified at ground floor at the North of West Kowloon Station's station box (AM5A), in same direction to the area of major construction site activities in Zone 2A. This alternative air monitoring location was approved by EPD on 29 September 2020.

Grand Austin property management office formally declined our proposal of setting up noise monitoring instrument on its premises at the podium level (NM5) on 10 July 2020. Alternative noise monitoring location was identified at the Pedestrian road (ground floor) outside West Kowloon Station (NM5A), which is set closer to the construction site boundary with more direct line sight to the major site activities and higher exposure to the construction noise with no disturbance to the premises' occupants during noise monitoring activities. No management

approval is required at the ground floor for conducting the noise monitoring. This alternative air monitoring location was approved by EPD on 29 September 2020.

The Environmental Quality Performance Limits for air quality and noise are shown in **Appendix C**.

The Event and Action Plan for air quality, construction noise, and landscape and visual are shown in **Appendix D**.

The EM&A programme followed the recommended mitigation measures in the EM&A Manual. The EM&A requirements as well as the summary of implementation status of the environmental mitigation measures are provided in **Appendix J**.

2 Impact Monitoring Methodology

2.1 Introduction

Air quality and noise monitoring methodology, including the monitoring locations, equipment used, parameters, frequency and duration etc., are described in this Section. The environmental monitoring schedules for the reporting period and the tentative monitoring Schedule for the coming month are provided in **Appendix E**.

The relevant EM&A monitoring requirements and details for landscape and audit impact, are also presented in this Section.

2.2 Air Quality

2.2.1 Monitoring Parameters, Frequency and Duration

Table 2.1 summarizes the monitoring parameters, frequency and duration of the TSP monitoring.

Table 2.1: Air Quality Monitoring Parameters, Frequency and Duration

Parameter	Frequency	Duration
24-hour TSP	At least once in every six-days	24 hours
1-hour TSP	At least 3 times every six-days	60 minutes

2.2.2 Monitoring Locations

Monitoring stations and locations are given in **Table 2.2** and shown in **Figure 1**.

Table 2.2: Air Quality Monitoring Station

Monitoring Station	Location Description
AM3A	Northeast corner of West Kowloon Station's station box (G/F)
AM4A	Southeast corner of West Kowloon Station's station box (G/F)
AM5A	North of West Kowloon Station's station box (G/F)

2.2.3 Monitoring Equipment

Continuous 24-hour TSP air quality monitoring was conducted using High Volume Sampler (HVS) (Model: TE-5170) located at the designated monitoring station. The HVS meets all the requirements stated in of the EM&A Manual. Portable direct reading dust meter was used to carry out the 1-hour TSP monitoring. **Table 2.3** summarizes the equipment used in the impact air quality monitoring. Copies of the calibration certificates for the HVS, calibration kit and portable dust meters are attached in **Appendix F**.

Table 2.3: TSP Monitoring Equipment

Equipment	Model
24-hour TSP monitoring	
High Volume Sampler	TE-5170 (Serial No.: 4340; 3998; 4344)

Equipment	Model
Calibrator	TE-5025A (Orifice I.D.: 4088)
1-hour TSP monitoring	
Portable direct reading dust meter	LX-PM100 (Serial No.: 800S6312208, 800S6312221, 800S6312233)

Calibration of the HVS (five-point calibration) using Calibration Kit was carried out every two months. The HVS calibration orifice will be calibrated annually. Calibration certificate of the TE-5025A Calibration Kit and the HVS are provided in **Appendix F**.

The 1-hour TSP monitoring should be determined periodically (e.g. annually) by the HVS to check the validity and accuracy of the results measured by direct reading method.

2.2.4 Monitoring Methodology

24-hour TSP Monitoring

Installation

The HVS was installed at the site boundary. The following criteria were considered in the installation of the HVS.

- A horizontal platform with appropriate support to secure the sampler against gusty wind was provided.
- The distance between the HVS and any obstacles, such as buildings, was at least twice the height that the obstacle protrudes above the HVS.
- A minimum of 2 metres separation from walls, parapets and penthouse was required for rooftop sampler.
- A minimum of 2 metres separation from any supporting structure, measured horizontally was required.
- No furnace or incinerator flues or building vent were nearby.
- Airflow around the sampler was unrestricted.
- The sampler has been more than 20 metres from any drip line.
- Permission was obtained to set up the sampler and to obtain access to the monitoring station.
- A secured supply of electricity is needed to operate the sampler.

Preparation of Filter Papers

- Glass fibre filters were labelled and sufficient filters that were clean and without pinholes were selected.
- The filters used are specified to have a minimum collection efficiency of 99 percent for 0.3 µm (DOP) particles.
- All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than ±3 °C with relative humidity (RH) < 50% and was not variable by more than ±5 %. A convenient working RH was 40%. All preparation of filters was done by Hong Kong Laboratory Accreditation Scheme (HOKLAS) accredited laboratory.

Field Monitoring Procedures

- The power supply was checked to ensure the HVS works properly.
- The filter holder and the area surrounding the filter were cleaned.

- The filter holder was removed by loosening the four bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully.
- The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter.
- The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied should be sufficient to avoid air leakage at the edges.
- The shelter lid was closed and was secured with the aluminium strip.
- The HVS was warmed-up for about 5 minutes to establish run-temperature conditions.
- A new flow rate record sheet was set into the flow recorder.
- The flow rate of the HVS was checked and adjusted at around 1.3 m³/min. The range specified in the EM&A Manual was between 0.6-1.7 m³/min.
- The programmable timer was set for a sampling period of 24 hours, and the starting time, weather condition and the filter number were recorded.
- The initial elapsed time was recorded.
- At the end of sampling, the sampled filter was removed carefully and folded in half length so that only surfaces with collected particulate matter were in contact.
- It was then placed in a clean plastic envelope and sealed.
- All monitoring information was recorded on a standard data sheet.
- Filters were sent to a Hong Kong Laboratory Accreditation Scheme (HOKLAS) accredited laboratory for analysis.

Maintenance and Calibration

- The HVS and its accessories are maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
- HVSs were calibrated upon installation and thereafter at bi-monthly intervals. The calibration kits were calibrated annually.
- Calibration records for HVS and calibration kit are shown in **Appendix F**.

1-hour TSP Monitoring

Field Monitoring

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

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

Maintenance and Calibration

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

Weather Condition

- Meteorological data extracted from Hong Kong Observatory for the reporting month is provided in **Appendix H**.

2.3 Noise

2.3.1 Monitoring Parameters, Frequency and Duration

Table 2.4 summarizes the monitoring parameters, frequency and duration of noise monitoring. The noise in A-weighted levels L_{eq} , L_{10} and L_{90} are recorded in a 30-minute interval between 0700 and 1900 hours.

Table 2.4: Noise Monitoring Parameters, Period and Frequency

Time Period	Parameters	Frequency
Daytime on normal weekdays (0700-1900 hours)	L_{eq} (30 min), L_{90} (30 min) & L_{10} (30 min)	Once every week

Note: *70 dB(A) for schools and 65 dB(A) during school examination periods.

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.

2.3.2 Monitoring Location

Noise monitoring stations and locations are given in **Table 2.5** and shown in **Figure 1**.

Table 2.5: Noise Monitoring Station

Monitoring Station	Location
NM2A	The Arch – Sun Tower (G/F)
NM3A	Xiqu Centre (G/F)
NM4A	Next to Tsim Sha Tsui Fire Station (G/F)
NM5A	Pedestrian road (G/F) outside West Kowloon Station

2.3.3 Monitoring Equipment

Integrating Sound Level Meter was used for noise monitoring. It was a Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level (L_{Aeq}) and percentile sound pressure level (L_x). They comply with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1). **Table 2.6** summarizes the noise monitoring equipment model being used.

Table 2.6: Noise Monitoring Equipment

Equipment Model	
Integrating Sound Level Meter	Calibrator
AWA5661 (Serial No.: 301135)	AWA6221A (Serial No.: AWA6221A0890E)

2.3.4 Monitoring Methodology

Field Monitoring

- The microphone of the Sound Level Meter was set at least 1.2 m above the ground.
- Free Field measurement was made at NM5A monitoring location.
- The battery condition was checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - frequency weighting: A
 - time weighting: Fast
 - time measurement: 30 minutes intervals (between 0700-1900 on normal weekdays)
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94 dB at 1 kHz. If the difference in the calibration level before and after measurement was more than 1 dB, the measurement would be considered invalid and has to be repeated after re-calibration or repair of the equipment.
- During the monitoring period, the L_{eq} , L_{10} and L_{90} were recorded. In addition, any site observations and noise sources were recorded on a standard record sheet.
- A correction of +3dB(A) was made to the free field measurements.

Maintenance and Calibration

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

Weather Condition

- Meteorological data extracted from Hong Kong Observatory for the reporting month is provided in **Appendix H**.

2.4 Landscape and Visual

2.4.1 Monitoring Program

Table 2.7 details the monitoring program (as proposed in the WKCD EIA report) for landscape and visual impact during the construction phase.

Table 2.7: Monitoring Program for Landscape and Visual Impact during Construction Phase

Stage	Monitoring Task	Frequency	Report	Approval
Construction	Monitor implementation of proposed mitigation measures during the construction stage.	Bi-weekly	ET to report on Contractor's compliance	Counter-signed by IEC

During the landscape and visual impact monitoring, any changes in relation to the landscape and visual amenity should be monitored with reference to the baseline conditions of the site. In addition, mitigation measures were proposed in the WKCD EIA report to minimise the landscape and visual impacts during the construction phase. The proposed mitigation measures as shown in Table 9.1 and Table 9.2 of the EM&A Manual should be checked for proper implementation.

3 Monitoring Results

3.1 Impact Monitoring

Air quality, noise and landscape and visual impact monitoring was undertaken in compliance with the EM&A Manual during the reporting month.

3.2 Air Quality Monitoring

3.2.1 1-hour TSP

Results of 1-hour TSP are summarised in **Table 3.1**. Graphical plots of the monitoring results are shown in **Appendix G**.

Table 3.1: Summary of 1-hour TSP monitoring results

Monitoring Station	Monitoring Date	Start Time	1-hour TSP ($\mu\text{g}/\text{m}^3$)			Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
			1st Result	2nd Result	3rd Result			
AM3A	03-Jun-26	7:12	32	37	31	31-56	280.4	500
	09-Jun-26	13:08	54	56	53			
	15-Jun-26	7:04	51	43	45			
	20-Jun-26	13:10	41	44	42			
	26-Jun-26	7:05	45	38	36			
AM4A	03-Jun-26	7:20	38	40	35	35-53	278.5	500
	09-Jun-26	13:16	51	53	51			
	15-Jun-26	7:12	46	45	51			
	20-Jun-26	13:18	41	49	43			
	26-Jun-26	7:13	44	37	40			
AM5A	03-Jun-26	7:35	39	31	32	31-55	275.4	500
	09-Jun-26	13:33	55	55	53			
	15-Jun-26	7:27	48	43	44			
	20-Jun-26	13:35	44	44	46			
	26-Jun-26	7:28	40	39	43			

3.2.2 24-hour TSP

Results of 24-hour TSP are summarised in **Table 3.2**. Graphical plots of the monitoring results are shown in **Appendix G**.

Table 3.2: Summary of 24-hour TSP monitoring results

Monitoring Station	Monitoring Date	Start Time	Monitoring Results ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AM3A	03-Jun-26	10:00	29	29-50	152.4	260
	09-Jun-26	10:00	50			

Monitoring Station	Monitoring Date	Start Time	Monitoring Results ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AM4A	15-Jun-26	10:00	38	33-49	152.6	260
	20-Jun-26	10:00	41			
	26-Jun-26	10:00	33			
	03-Jun-26	10:00	33			
	09-Jun-26	10:00	49			
	15-Jun-26	10:00	40			
	20-Jun-26	10:00	44			
	26-Jun-26	10:00	33			
AM5A	03-Jun-26	10:00	30	30-51	141.1	260
	09-Jun-26	10:00	51			
	15-Jun-26	10:00	39			
	20-Jun-26	10:00	42			
	26-Jun-26	10:00	34			

No exceedance of 1-hour and 24-hour TSP (Action or Limit Level) was recorded in the reporting period.

3.3 Noise Monitoring

The construction noise monitoring results are summarized in **Table 3.3**. Graphical plots of the monitoring data and the station set-up as façade and free-field measurements are shown in **Appendix G**.

Table 3.3: Summary of noise monitoring results during normal weekdays

Monitoring Stations	Monitoring Date	Start Time	End Time	L_{eq} (30 mins) dB(A)	Limit Level for L_{eq} (dB(A))
NM2A	03-Jun-26	07:12	07:42	63.0	75
	09-Jun-26	13:08	13:38	63.0	
	15-Jun-26	07:04	07:34	62.9	
	20-Jun-26	13:10	13:40	62.6	
	26-Jun-26	07:05	07:35	62.7	
NM3A	03-Jun-26	08:44	09:14	60.8	75
	09-Jun-26	14:30	15:00	60.7	
	15-Jun-26	08:36	09:06	60.3	
	20-Jun-26	14:36	15:06	60.5	
	26-Jun-26	08:34	09:04	60.3	
NM4A	03-Jun-26	09:20	09:50	58.3	70/65 ^{^#}
	09-Jun-26	15:06	15:36	58.2	
	15-Jun-26	09:12	09:42	58.6	
	20-Jun-26	15:13	15:43	58.0	
	26-Jun-26	09:10	09:40	58.3	
NM5A*	03-Jun-26	08:04	08:34	63.4	75
	09-Jun-26	13:49	14:19	63.1	
	15-Jun-26	07:54	08:24	63.2	

20-Jun-26	13:58	14:28	63.5
26-Jun-26	07:54	08:24	63.3

Remarks:

* +3dB (A) correction was applied to free-field measurement.

^ 70 dB(A) for schools and 65 dB(A) during school examination periods.

School examination was conducted on 2-11 June 2026.

Construction works were extended to 1900-2300 hours on 21, 27, 28 and 29 June 2026; and to holidays 0900-1900 hours on 7, 14, 19, 21 and 28 June 2026. 24-hour pumping test was conducted from 22 to 30 June 2026. In accordance with the EM&A Manual, additional monitoring was carried out during the restricted hours on 7, 14, 21, 27, 28 and 29 June 2026. The L_{eq} (5 mins) is in the range of 51.0 to 63.8 dB(A). Construction Noise Permits for the works carried out during restricted hours were obtained and listed in **Table 4.3**.

School examination was conducted from 2 to 11 June 2026. Additional monitoring was carried out at NM4A on the examination date on 2, 3, 4, 5, 8, 9, 10 and 11 June 2026 and the L_{eq} (30 mins) is in the range of 58.1 to 58.8dB(A).

No exceedance of Construction Noise (Action or Limit Level) was recorded in the reporting month.

3.4 Landscape and Visual Impact

Landscape and visual impact inspections were conducted as part of the weekly site inspections on 3, 17 and 30 June 2026 for Zones 2A, 2B & 2C during the reporting month. As reviewed by the registered Landscape Architect, no adverse comment on landscape and visual aspects was made during these inspections.

The landscape and visual mitigation measures were implemented during the reporting period. The summary of implementation status of the environmental mitigation measures is provided in **Appendix J**.

4 Site Environmental Management

4.1 Site Inspection

4.1.1 Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095)

Construction phase weekly site inspections were carried out on 3, 11, 17, 24 and 30 June 2026 at Zones 2A, 2B & 2C. The joint site inspection with IEC, ET, ER and Contractor for Zones 2A, 2B & 2C was held on 11 June 2026. All observations have been recorded in the site inspection checklist and passed to the Contractor together with the appropriate recommended mitigation measures where necessary.

The key observations from the site inspections and associated recommendations are summarized in **Table 4..**

Table 4.1: Summary of Site Inspections and Recommendations for Zones 2A, 2B & 2C

Inspection Date	Parameter	Observation / Recommendation	Contactor's Responses /Close-out Action(s) Undertaken	(Date)
03-Jun-26	Air Quality & Waste Management	The contractor was reminded to ensure that dust suppression measures cover the work areas between the steel platforms.	Water was sprayed during excavation.	05-Jun-26
		The contractor was reminded to sort and recycle construction waste on a regular basis.	Waste was properly sorted and disposed.	
11-Jun-26	Water Quality	The contractor was reminded that wash water shall be sand and silt settled out and removed regularly.	The wheel water pond was cleaned.	11-Jun-26
		The contractor was reminded that oil shall be stored in designated area which have pollution prevention facilities.	The stains was removed.	
17-Jun-26	Waste Management & Other	The contractor was reminded to have better housekeeping and store general refuse in enclosed bins.	The general refuse was cleaned.	22-Jun-26
		The contractor was reminded to clear standing water promptly after rain.	The stagnant water was removed.	

Inspection Date	Parameter	Observation / Recommendation	Contactor's Responses /Close-out Action(s) Undertaken	(Date)
24-Jun-26	Air Quality & Noise Impact & Waste Management	The contractor was reminded to regularly remove dust from the steel platform and implement appropriate dust suppression measures. The contractor was reminded to keep the site exit clean and prevent muddy water from accumulating outside the public road. The contractor was reminded that movable noise barriers shall be kept effectively utilised to screen noise from particular items of plant.	Water was sprayed to mitigate the dust on platform. Regular cleaning conducted to avoid water was accumulated. Noise barriers were proper hanged.	24-Jun-26
30-Jun-26	Water Quality & Waste Management	The contractor was reminded that the drainage facilities shall be maintained to ensure efficient operation at all times and the waste in it shall be cleaned. The contractor was reminded to have better housekeeping and store general refuse in enclosed bins.	The channel is cleaned to ensure its function. General refuse was cleaned.	04-Jul-26

4.2 Advice on the Solid and Liquid Waste Management Status

The Contractors have been registered as a chemical waste producer for the Project. Construction and demolition (C&D) material sorting will be carried out on site. A sufficient number of receptacles were available for general refuse collection.

4.2.1 Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095)

As advised by the Zones 2A, 2B & 2C Contractor, 65976.06 tonne and 11355.60 tonne of inert C&D material were disposed of as public fill to Tseung Kwan O Area 137 Public Fill and Tuen Mun Area 38 Public Fill respectively, while 47.02 tonne of general refuse were disposed of at SENT landfill. 80.40 tonne of metals, 0.0 tonne of paper/cardboard packaging, 0.0 tonne of plastics and 0.0 tonne of timber was collected by recycling contractors in the reporting month. 0.00 tonne of inert C&D material were reused on site. 46176.60 tonne of inert C&D material were reused in other projects and 0.0 tonne of inert C&D material was imported for reuse at site in the reporting month. 0.00 tonne of inert C&D material was disposed to sorting facility and 0.00 tonne of chemical waste was collected by licensed contractors in the reporting period.

The cumulative waste generation records for Zones 2A, 2B & 2C are shown in **Appendix I**.

4.3 Status of Environmental Licenses and Permits

The environmental permits, licenses, and/or notifications on environmental protection for this Project which were valid during the period are summarised in **Table 4.3**.

4.3.1 Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095)

The environmental permits, licenses, and/or notifications on environmental protection for this Project which were valid during the period are summarised in **Table 4.**

Table 4.3: Status of Environmental Submissions, Licenses and Permits for Zones 2A, 2B & 2C

Permit / License No./ Notification / Reference No.	Valid Period		Status	Remarks
	From	To		
Chemical Waste Producer Registration				
WPN5117-256-V1011-40	11-Jul-24	--	Valid	--
Marine Dumping Permit				
EP/MD/26-007	19-Jan-26	18-Jul-26	Valid	--
EP/MD/27-001	19-Apr-26	18-Jul-26	Valid	--
Billing Account Construction Waste Disposal				
7051739	01-Aug-24	--	Account Active	--
Construction Noise Permit				
GW-RE0222-26	16-Mar-26	15-Sep-26	Valid	--
GW-RE0284-26	16-Mar-26	15-Sep-26	Valid	--
Wastewater Discharge License				
WT00045374-2024	24-Oct-24	31-Oct-29	Valid	--
Notification under Air Pollution Control (Construction Dust) Regulation				
10006790	11-Jul-24	--	Notified	--
L-3-291(1)	01-Jun-26	31-May-29	Valid	--

4.4 Recommended Mitigation Measures

The EM&A programme followed the recommended mitigation measures in the EM&A Manual. The EM&A requirements as well as the summary of implementation status of the environmental mitigation measures are provided in **Appendix J**. In particular, the following mitigation measures were brought to attention during the site inspections:

4.4.1 Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095)

Air Quality

- Dust suppression measures shall be strengthened to minimize dust impact.
- Vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the construction site.

Waste Management

- Better housekeeping shall be strengthened dispose of refuse frequently at designed areas to avoid accumulation on site which may lead to hygiene problem.

Noise Impact

- Movable noise barriers shall be kept effectively utilised to screen noise from particular items of plant.

Water Quality

- The deposited silt and water near washing facilities shall be cleaned regularly.
- Oil shall be stored in designated area which have pollution prevention facilities.

- The drainage facilities shall be maintained to ensure efficient operation at all times and the waste in it shall be cleaned.

Other

- Standing water shall be promptly cleaned after rain.

5 Compliance with Environmental Permit

The status of the required submission under the EP during the reporting period is summarized in **Table 5.1**.

Table 5.1: Status of Submissions under the Environmental Permit

EP Condition	Submission	Submission Date
Condition 3.4	Monthly EM&A Report for May 2026	12 June 2026

6 Report in Non-compliance, Complaints, Notification of Summons and Successful Prosecutions

6.1 Record on Non-compliance of Action and Limit Levels

There was no breach of Action or Limit levels for Air Quality (1-hour TSP and 24-hour TSP) and Construction Noise in this reporting month.

6.2 Record on Environmental Complaints Received

One environmental complaint was received in the reporting month.

On 29 June 2026 (Monday), the West Kowloon Cultural District Authority (WKCDA) referred a complaint case received via Integrated Contact Centre (1823) on 29 June 2026 regarding muddy conditions on public roads caused by construction vehicles at the Austin Road West site. According to the complaint, the dump trucks from construction site causing muddy condition of public road and attitude of frontline workers when responding to the public.

Further to the complaint email received on 29 June 2026, an investigation was carried out at WKCD Zone 2A, 2B & 2C site on the same day. According to the complaint, the mass number of construction vehicles entering and existing the site cause pollution on the public road surface and fall of muds. Compliant also mentioned that the site staff exhibited a rude attitude during their conversation regarding this issue. During the inspection, the condition at the site entrance was checked, and no obvious mud track and muddy water discharge observed from the site entrance to the public road. However, we have identified several pits and road depressions that may lead to local dirt accumulation which could increase the nuisance to the surrounding area. Regarding the attitude of the site staff, the individual could not be cleanly identified without detail date and time of the conversation.

To minimize the environmental impacts to the surrounding, number of mitigation measures were implemented. After notification of the complaint, immediate actions have been taken on site to improve the dust control for vehicles. In addition, supervision on the condition of public road would be enhanced to at least twice a day to ensure the cleanliness of road.

It was concluded that the concerned environmental impact might be due to transportation of the mass number of vehicles entering and existing the site. On-site mitigation measures have already been implemented and maintained on site and prompt actions have been taken. The contractor shall maintain better practice on site, strengthen the implementation of mitigation measures to reduce impacts on nearby neighbors, and enhance worker training for interacting with the public more appropriately.

The cumulative statistics on complaints were provided in **Appendix K**.

6.3 Record on Notifications of Summons and Successful Prosecution

No notifications of summons or successful prosecutions were received this month. The cumulative statistics on notifications of summons and successful prosecutions were provided in **Appendix K**.

7 Future Key Issues

7.1 Construction Works for the Coming Month(s)

The major site works for Zones 2A, 2B & 2C scheduled to be commissioned in the coming month include:

- Temporary Steel Platform
- ELS Work
- Operation of barging point

7.2 Key Issues for the Coming Month

7.2.1 Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095)

Key issues to be considered in the coming month include:

- Generation of dust from construction works;
- Noise impact from construction works;
- Generation of site surface runoffs and wastewater from activities on-site;
- Management of stockpiles and slopes, particularly on rainy days;
- Sorting, recycling, storage and disposal of general refuse and construction waste; and
- Management of chemicals and avoidance of oil spillage on-site.

7.3 Monitoring Schedule for the Coming Month

The environmental site inspection and environmental monitoring will be continued in the coming month. The tentative monitoring schedule for the coming month is shown in the **Appendix E**.

8 Conclusions and Recommendations

8.1 Conclusions

The EM&A programme as recommended in the EM&A Manual has been undertaken. The construction works and EM&A programme for Zone 2A (Contract No.: GW/2020/05/073) was commenced on 03 October 2020 and handed over on 31 March 2023; while the construction works and EM&A programme for Zone 2B & 2C (Contract No.: CC/2020/2B/088) was commenced on 30 September 2021 and handed over on 05 July 2024. The construction works and EM&A programme for Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095) was commenced on 05 July 2024.

Monitoring of air quality and noise with respect to the Projects is underway. In particular, the 1-hour TSP, 24-hour TSP, Noise Level (as L_{eq} , 30 minutes) under monitoring have been checked against established Action and Limit levels. There was no breach of Action or Limit levels for Air Quality (1-hour TSP and 24-hour TSP) and Construction Noise in this reporting month.

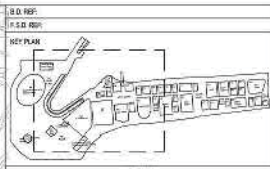
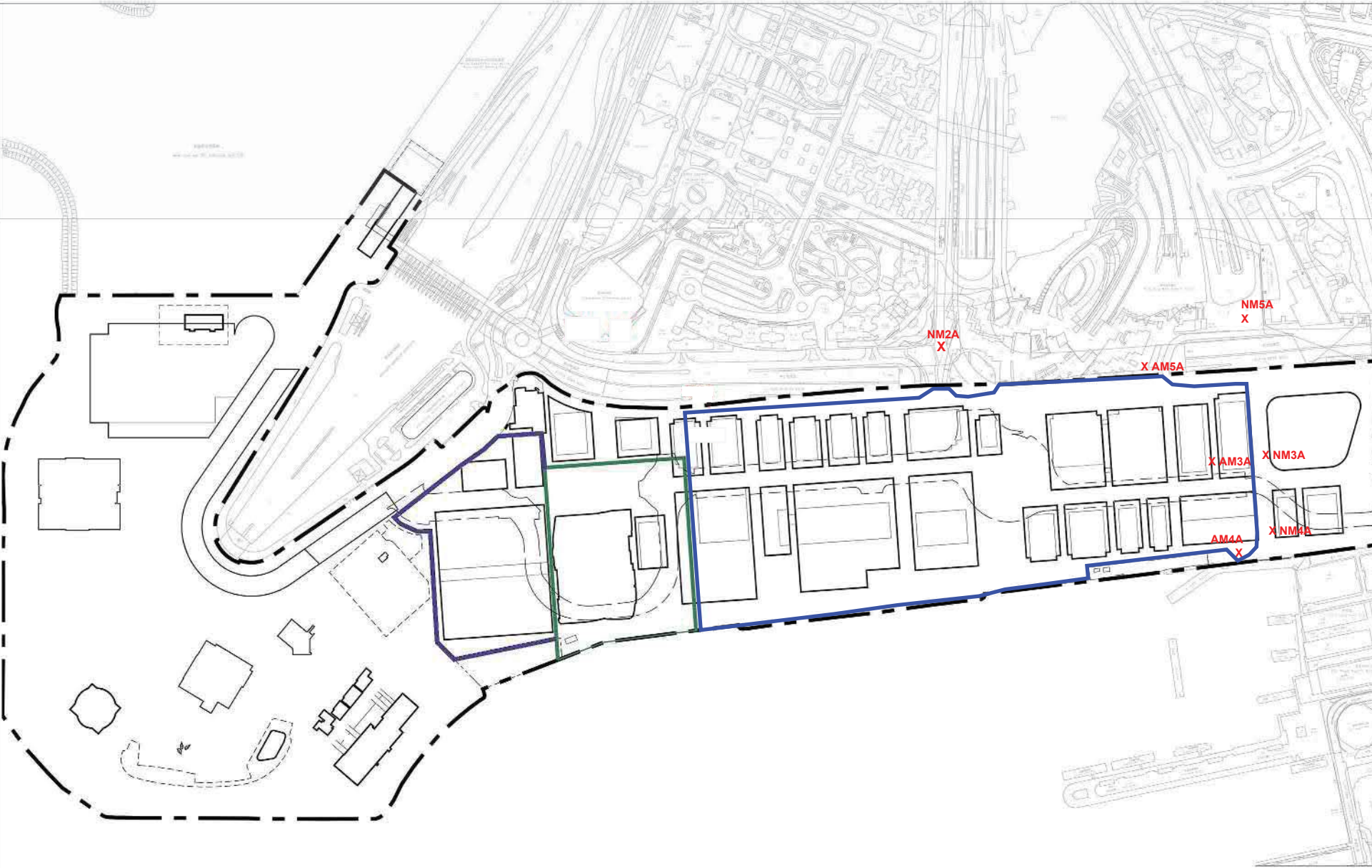
One environmental complaint was recorded in the reporting month. No notifications of summons or successful prosecutions were received during the reporting month.

Weekly construction phase site inspections and bi-weekly landscape and visual impact inspections were conducted during the reporting month as required. It was observed that the Contractors had implemented all possible and feasible mitigation measures to mitigate the potential environmental impacts during construction phase works.

8.2 Recommendations

Potential environmental impacts due to the construction activities, including air quality, noise, water quality, waste, landscape and visual, will be monitored or reviewed. The recommended environmental mitigation measures shall be implemented on site and regular inspections as required will be carried out to ensure that the environmental conditions are acceptable.

Figure 1 Site Layout Plan and Monitoring Stations



- NOTES
- WKCD BOUNDARY
 - M+ MUSEUM BOUNDARY
 - LYRIC THEATRE BOUNDARY
 - BOUNDARY OF UNDERPASS ROAD SERVING THE PLANNED WKCD
 - X CONSTRUCTION AIR/NOISE MONITORING STATION

REMARKS:
THE AIR MONITORING STATION AM2A HAS BEEN RELOCATED TO THE ALTERNATIVE MONITORING STATION AM2B AT 1ST FLOOR OF GAMMON'S SITE OFFICE ON 26 FEBRUARY 2019.

Zones 2A, 2B & 2C
Boundary (Contract No.: CC/2023/2B/095)

REV.	DATE	DESCRIPTION	INITIAL
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J20 11111 DEVELOPMENT AT WEST KOWLOON CULTURAL DISTRICT

DRAWING TITLE SITE LAYOUT PLAN AND MONITORING STATIONS

SCALE	1:100	PRINTED	A1
CHECKED	DATE	DATE	
APPROVED	DATE	DATE	
DRAWN	TY	DATE	15-10-2019

CONTRACT NO.

DRAWING NO. FIGURE 1

CAD REF NAME: \\00000\JCT\PMIS\DWG\PRO\2205-2000-0001.dwg

AUTHORITY

westKowloon
西九文化區

Appendices

- A. Project Organisation
- B. Tentative Construction Programme
- C. Action and Limit Levels for Construction Phase
- D. Event and Action Plan for Air Quality, Noise, Landscape and Visual Impact
- E. Monitoring Schedule
- F. Calibration Certifications
- G. Graphical Plots of the Monitoring Results
- H. Meteorological Data Extracted from Hong Kong Observatory
- I. Waste Flow table
- J. Environmental Mitigation Measures – Implementation Status
- K. Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

A. Project Organisation

Project Organization

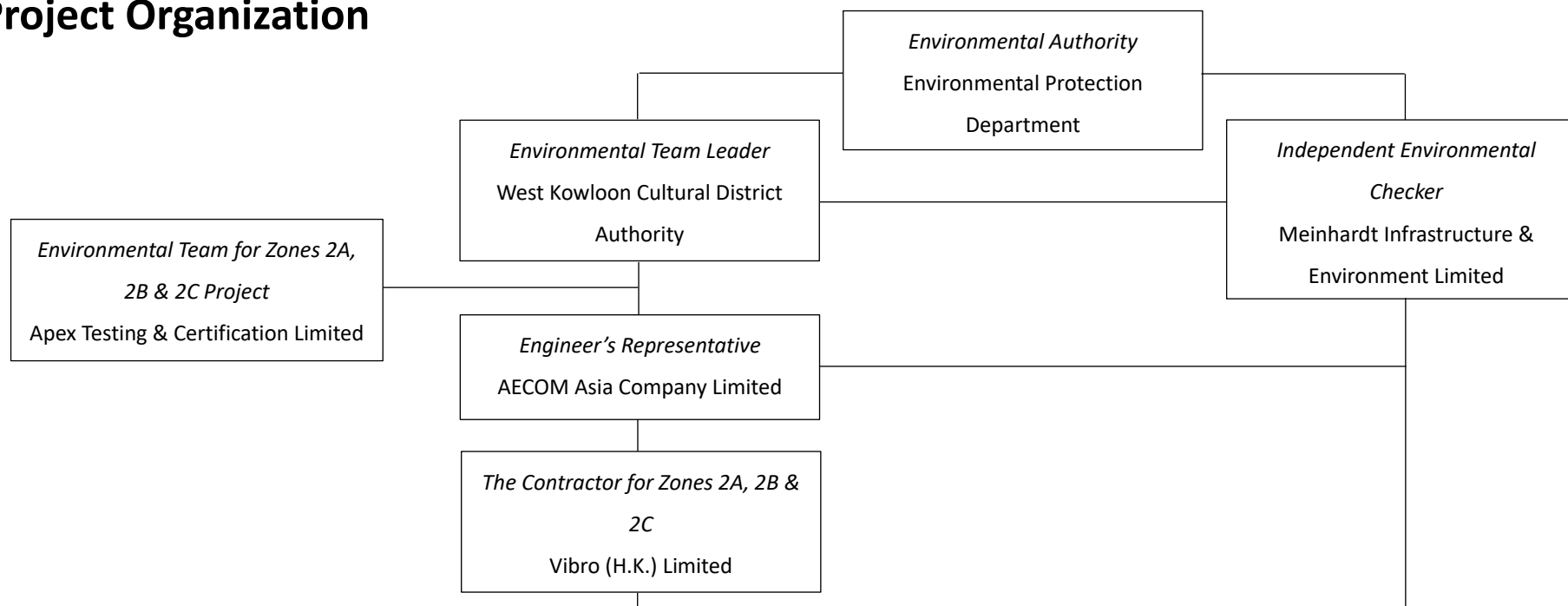


Table A-1: Contract Information

Company Name	Role	Name	Telephone	Email
West Kowloon Cultural District Authority	WKCD Authority Representative & Project ETL	Mr. Max LEE	2200 0782	max.sl.lee@wkcd.hk
Meinhardt Infrastructure & Environment Limited	Independent Environmental Checker	Ms. Claudine LEE	2859 5409	claudinelee@meinhardt.com.hk
Leigh & Orange Ltd.	Senior Inspector of Works	Mr. Dick TAM	9762 6960	dick.tam@leightorange.com
AECOM Asia Company Limited	Resident Engineer (Zone 2 ELS)	Ms. Maggie TSANG	5543 8208	maggie.tsang@aecom.com
Vibro (H.K.) Limited	Environmental Sustainability Manager	Mr. Tony YAM	2137 5586	tony_yam@vibro.com.hk
Apex Testing & Certification Limited	Contractor's Environmental Team Leader	Mr. Calvin LUI	9629 9718	calvinlui@apextestcert.com

B. Tentative Construction Programme

ELS Works (Stages 1 & 2) for Integrated Basement and Underground Road in Zones 2A, 2B and 2C of West Kowloon Cultural District																																																											
Activity ID	Activity Name	CMWP R0 Dur	CMWP R0 Start	CMWP R0 Finish	Dur	Forecast /Actual Start	Forecast /Actual Finish	%	Total Float	2026																																																	
										June					July					August				September					October																														
										31	07	14	21	28	05	12	19	26	02	09	16	23	30	06	13	20	27	04	11	18	25	31																											
P2 D2 ELS Works (Stages 1&2) for IBUR in Zones 2A,2B&2C of WKCD Revised CMWP Jun 2026																																																											
Contract Dates																																																											
Access Dates																																																											
Late Access Date																																																											
WKCDA-#AD-02020 Late Access to Portion B06 (provided through the Contract period)										0															04-Jan-27					0					01-Jul-26*										0%					-61									
CAI Date for Optional Works																																																											
Between 5 Jul 2024 and 21 Nov 2026, Within 870 Days																																																											
WKCDA-#AD-03030 (Opt Works Item No.3) Site Maintenance for Zone 2A, 2B, 2C and NSO after Practical Completion within 870 Days										0															21-Nov-26					0					01-Jul-26*										0%					-61									
WKCDA-#AD-03040 (Opt Works Item No.4) Road reinstatement works at Austin Road West within 870 Days										0															21-Nov-26					0					01-Jul-26*										0%					-61									
BD Statutory Submissions																																																											
Consent BA8 and BA10 Submissions																																																											
Zone 2B																																																											
BD Submission and Consent for Excavation and ELS Installation																																																											
WKCDA-BD-STA-01220 BA8 for excavation and ELS installation at Zone 2B (Stage 2) to 0mPD(Consent 11)										28															04-Sep-25					01-Oct-25					25					29-May-26 A					22-Jun-26 A					100%									
WKCDA-BD-STA-01230 BA10 for excavation and ELS installation at Zone 2B (Stage 2) to 0mPD(Consent 11)										7															02-Oct-25					08-Oct-25					15					23-Jun-26 A					07-Jul-26					5%					-209				
WKCDA-BD-STA-01240 BA8 for excavation and ELS installation at Zone 2B (Stage 2) to FEL(Consent 12)										28															02-Oct-25					29-Oct-25					28					29-Jul-26					25-Aug-26					0%					-134				
WKCDA-BD-STA-01250 BA10 for excavation and ELS installation at Zone 2B (Stage 2) to FEL (Consent 12)										7															30-Oct-25					05-Nov-25					7					26-Aug-26					01-Sep-26					0%					-134				
Cost Centre A - Preliminaries, General Requirements																																																											
General Submission and Procurement																																																											
Procurement and Delivery of Materials																																																											
Steel Platform Material																																																											
Zone 2A-1 & 2B																																																											
Phase 2 Delivery																																																											
WKCDA-A-PRO-2140a Delivery to Site of Steel Platform material for Zone 2B & 2A-1										0																				122					10-Feb-26 A					11-Jun-26 A					100%														
Phase 3 Delivery																																																											
WKCDA-A-PRO-2140b Delivery to Site of Steel Platform material for Zone 2B & 2A-1										0																				122					07-Mar-26 A					06-Jul-26					96%					-208									
Phase 4 Delivery																																																											
WKCDA-A-PRO-2140c Delivery to Site of Steel Platform material for Zone 2B & 2A-1										0																				105					24-Mar-26 A					06-Jul-26					96%					-208									
Phase 5 Delivery																																																											
WKCDA-A-PRO-2140d Delivery to Site of Steel Platform material for Zone 2B & 2A-1										0																				105					24-Mar-26 A					06-Jul-26					96%					-208									
Strut and Wailing																																																											
Zone 2B & 2A-1																																																											
Fabrication (by batch)																																																											
WKCDA-A-PRO-2680 ELS Fabrication (layer 1)										0																				127					02-Mar-26 A					06-Jul-26					80%					-236									
WKCDA-A-PRO-2690 ELS Fabrication (layer 2)										0																				20					07-Jul-26					26-Jul-26					0%					-236									
WKCDA-A-PRO-2700 ELS Fabrication (layer 3)										0																				45					27-Jul-26					09-Sep-26					0%					-229									
WKCDA-A-PRO-2710 ELS Fabrication (layer 4)										0																				45					10-Sep-26					24-Oct-26					0%					-202									
Delivery (by batch)																																																											
WKCDA-A-PRO-2750 ELS Material Delivery to Site (layer 1)										0																				94					25-Apr-26 A					27-Jul-26					50%					-241									
WKCDA-A-PRO-2760 ELS Material Delivery to Site (layer 2)										0																				30					28-Jul-26					26-Aug-26					0%					-237									
WKCDA-A-PRO-2770 ELS Material Delivery to Site (layer 3)										0																				45					10-Sep-26					24-Oct-26					0%					-229									
Zone 2A-2-1																																																											
Fabrication (by batch)																																																											
WKCDA-A-PRO-2400 ELS Fabrication (layer 2 - 1st log)										0																				108					09-Mar-26 A					24-Jun-26 A					100%														
2ABC.CMWP.R0.P2.06 Page 1 of 8										◆ Milestone ◆ Critical MS █ Critical Bar █ Planned Bar █ Actual Work Complet... ◆ R0 MS										CC/2023/2B/095 Three Month Rolling Programme as of 30-Jun-2026										Date 30-Jun-26					Revision Revised CMWP R0 (2nd Draft)					Checked YL					Approved														

ELS Works (Stages 1 & 2) for Integrated Basement and Underground Road in Zones 2A, 2B and 2C of West Kowloon Cultural District																																			
Activity ID		Activity Name	CMWP R0 Dur	CMWP R0 Start	CMWP R0 Finish	Dur	Forecast /Actual Start	Forecast /Actual Finish	%	Total Float	2026																								
											June					July					August				September				October					November	
											31	07	14	21	28	05	12	19	26	02	09	16	23	30	06	13	20	27	04	11	18	25	01		
2ABC.CMWP.R0.P2.06 Page 2 of 8	2ABC.CMWP.R0.P2.06 Page 2 of 8	WKCDA-A-PRO-2420	ELS Fabrication (layer 2 - 2nd log)	0			108	09-Mar-26 A	24-Jun-26 A	100%																									
		WKCDA-A-PRO-2440	ELS Fabrication (layer 3 - 1st log)	0			105	31-Mar-26 A	13-Jul-26	25%	-46																								
		WKCDA-A-PRO-2460	ELS Fabrication (layer 3 - 2nd log)	0			105	31-Mar-26 A	13-Jul-26	25%	-49																								
		WKCDA-A-PRO-2480	ELS Fabrication (layer 4 - 1st log)	0			30	14-Jul-26	12-Aug-26	0%	-46																								
		WKCDA-A-PRO-2500	ELS Fabrication (layer 4 - 2nd log)	0			30	13-Aug-26	11-Sep-26	0%	-46																								
		WKCDA-A-PRO-2520	ELS Fabrication (layer 5 - 1st log)	0			30	12-Sep-26	11-Oct-26	0%	-39																								
		Delivery (by batch)																																	
		WKCDA-A-PRO-2570	ELS Material Delivery to Site (layer 2)	0			108	11-Mar-26 A	26-Jun-26 A	100%																									
		WKCDA-A-PRO-2580	ELS Material Delivery to Site (layer 3)	0			32	12-Jun-26 A	13-Jul-26	20%	-49																								
		WKCDA-A-PRO-2590	ELS Material Delivery to Site (layer 4)	0			30	13-Aug-26	11-Sep-26	0%	-46																								
		Coordination																																	
		Interface Contractors and Other Project Contractors																																	
		WKCDA-A-CIC-01050	Coordination with Contract no.CC/2017/3A/031 L2 Contract for Lyric Theatre Complex and Extended basement project	180	30-Aug-24	25-Feb-25	728	05-Jul-24 A	02-Jul-26	80%	216																								
		Construction																																	
		Barging Point Facilities																																	
		Coordination with Disposal Site																																	
		WKCDA-A-MOB-01520	Coordination with Macao Project for disposal	0			417	25-Dec-25 A	28-May-27	15%	-89																								
		Cost Centre B & I - General, Hoarding and Monitoring Works																																	
		Construction																																	
		General and Monitoring Works																																	
		Relocate Water Check Meter Cabinet																																	
		WKCDA-B-MOB-01240	Relocation of check water meter cabinet at Zone 2A East gantry	24	08-Nov-24	05-Dec-24	24	26-Aug-26	22-Sep-26	0%	29																								
		WKCDA-B-MOB-01100	Site clearance, break up and removal of existing road pavement and light posts, signages	60	06-Dec-24	20-Feb-25	44	23-Sep-26	16-Nov-26	0%	29																								
		Coordination of External Works and Utilities Services																																	
		WKCDA-B-MOB-01160	Coordination with highways department(HyD)	60	08-Nov-24	06-Jan-25	727	05-Jul-24 A	01-Jul-26	92%	51																								
		WKCDA-B-MOB-01200	Coordination with WSD	75	06-Dec-24	18-Feb-25	727	05-Jul-24 A	01-Jul-26	84%	90																								
		WKCDA-B-MOB-1420	Coordination with MTRC	75	06-Dec-24	18-Feb-25	573	06-Dec-24 A	01-Jul-26	84%	125																								
		WKCDA-B-MOB-1440	Coordination with DSD	75	06-Dec-24	18-Feb-25	573	06-Dec-24 A	01-Jul-26	84%	125																								
		WKCDA-B-MOB-1460	Coordination with FSD	75	06-Dec-24	18-Feb-25	559	20-Dec-24 A	01-Jul-26	84%	125																								
WKCDA-B-MOB-1480	Coordination with other UU authorities	75	06-Dec-24	18-Feb-25	559	20-Dec-24 A	01-Jul-26	84%	125																										
WSD Pipe Diversion and Light Post (HyD) near Zone 2A																																			
WKCDA-B-MOB-01180	Relocation of existing light post at Zone 2A East gantry	60	07-Jan-25	20-Mar-25	60	04-Jul-26	11-Sep-26	0%	42																										
WKCDA-B-MOB-01220	Carry-out FW107 diversion works including T&C and inspection	46	15-May-25	08-Jul-25	46	12-Sep-26	07-Nov-26	0%	42																										
Hoarding and Gantry																																			
Under Variation Order																																			
WKCDA-B-MOB-01340a	Erection and installation of steel frame for covered walkway along Austin Road West (VO)	0			42	02-Jul-26	19-Aug-26	0%	114																										
WKCDA-B-MOB-01360a	Finishing works for covered walkway (including graphic, lighting and steel boards) along Austin Road West (VO)	0			24	20-Aug-26	16-Sep-26	0%	114																										
Cost Centre C - Excavation and Lateral Support Works for Zone 2B (Stage 1)																																			
Submissions and Approval																																			
Design Submission and Statutory Submission																																			
ELS Design at Zone 2B (Stage 1)																																			
WKCDA-C-SUB-1600	Zone 2B & 2C ELS Stage 1 (King Posts, Monitoring & Pumping Test) - 9th Amendment Submission	0			29	14-May-26 A	11-Jun-26 A	100%																											
Cost Centre D - Excavation and Lateral Support Works for Zone 2C (Stage 1)																																			
Construction																																			
Pumping Test																																			
WKCDA-D-SUB-01320	Submit BA14 and acknowledgment from BD for interlocking pipe pile wall, grout curtain at Zone 2C	28	28-Dec-25	24-Jan-26	113	16-Mar-26 A	06-Jul-26	50%	212																										
2ABC.CMWP.R0.P2.06 Page 2 of 8		◆ Milestone ◆ Critical MS █ Critical Bar █ Planned Bar █ Actual Work Complet... ◇ R0 MS									CC/2023/2B/095 Three Month Rolling Programme as of 30-Jun-2026										Date 30-Jun-26		Revision Revised CMWP R0 (2nd Draft)		Checked YL		Approved								

ELS Works (Stages 1 & 2) for Integrated Basement and Underground Road in Zones 2A, 2B and 2C of West Kowloon Cultural District

Activity ID	Activity Name	CMWP R0 Dur	CMWP R0 Start	CMWP R0 Finish	Dur	Forecast /Actual Start	Forecast /Actual Finish	%	Total Float	2026																												
										June							July					August				September					October					November		
										31	07	14	21	28	05	12	19	26	02	09	16	23	30	06	13	20	27	04	11	18	25	01						
	WKCD-A-D-CON-01340a	Carry-out pumping test and report submission at Zone 2C to FEL (Stage 2)_Red o	0			21	22-Jun-26 A	12-Jul-26	50%	-179																												
Cost Centre E - Excavation and Lateral Support Works for Zone 2B (Stage 2)																																						
Submissions and Approval																																						
Design Submission and Statutory Submission																																						
ELS Design at Zone 2B & Zone 2A-1 (Stage 2)																																						
2nd Amendment & Approval																																						
	WKCD-A-C-SUB-1560	Prepare and submit ELS design at zone 2B & zone 2A-1 (Layer 1 & 2) by BD - 2nd amendment	0			84	14-Mar-26 A	05-Jun-26 A	100%																													
	WKCD-A-C-SUB-1570	Review and approve submitted ELS design at zone 2B & zone 2A-1 (Layer 1&2] by BD - 2nd amendment	0			28	06-Jun-26 A	03-Jul-26	89.3%	-162																												
3rd Amendment & Approval																																						
	WKCD-A-C-SUB-1580	Prepare and submit ELS design at zone 2B & zone 2A-1 (Layer 3 & 4) by BD - 3rd amendment	0			14	04-Jul-26	17-Jul-26	0%	-158																												
	WKCD-A-C-SUB-1590	Review and approve submitted ELS design at zone 2B & zone 2A-1 (Layer 3 & 4) by BD - 3rd amendment	0			28	18-Jul-26	14-Aug-26	0%	-158																												
4th Amendment & Approval																																						
	WKCD-A-C-SUB-1610	Prepare and submit ELS design at zone 2B & zone 2A-1 (Layer 5, 6 & 7) by BD - 4th amendment	0			14	15-Aug-26	28-Aug-26	0%	-49																												
	WKCD-A-C-SUB-1620	Review and approve submitted ELS design at zone 2B & zone 2A-1 (Layer 5, 6 & 7] by BD - 4th amendment	0			28	29-Aug-26	25-Sep-26	0%	-49																												
Excavation and ELS Installation at Zone 2B (Stage 2) from EGL to 0.00mPD (Consent 11)																																						
	WKCD-A-E-SUB-01030	Submit BA14 and acknowledgment from BD for carrying out pumping test at Zone 2B	0			150	18-Mar-26 A	14-Aug-26	50%	173																												
	WKCD-A-E-SUB-01040	Application & obtain consent (BA8) for excavation & LS installation at Zone 2B (Stage 2) to 0.00mPD (Consent 11)	28	04-Sep-25	01-Oct-25	34	29-May-26 A	01-Jul-26	50%	-210																												
	WKCD-A-E-SUB-01060	Submit BA10 for excavation and ELS installation at Zone 2B (Stage 2)	7	02-Oct-25	08-Oct-25	7	02-Jul-26	08-Jul-26	0%	-210																												
Excavation and ELS Installation at Zone 2B (Stage 2) from 0.00mPD to FEL (Consent 12)																																						
	WKCD-A-E-SUB-01070	Submit BA14 and acknowledgment from BD for ground treatment (jet grout) at Zone 2B	0			175	04-Feb-26 A	28-Jul-26	0%	-134																												
	WKCD-A-E-SUB-01080	Application and obtain consent (BA8) for excavation and ELS installation at Zone 2B (Stage 2) to FEL (Consent 12)	28	02-Oct-25	29-Oct-25	28	29-Jul-26	25-Aug-26	0%	-134																												
	WKCD-A-E-SUB-01200	Submit BA10 for excavation and ELS installation at Zone 2B (Stage 2)	7	30-Oct-25	05-Nov-25	7	26-Aug-26	01-Sep-26	0%	-134																												
Construction																																						
Temporary Shoring, Excavation and Lateral Support																																						
Temporary Steel Platform																																						
Temporary Steel Platform - Zone 2B																																						
	WKCD-A-E-CON-01090	Construction of temporary steel platform at Zone 2B-2A-1 - Portion 3	0			94	19-Mar-26 A	15-Jul-26	100%	-172																												
	WKCD-A-E-CON-01095	Construction of temporary steel platform at Zone 2B-2A-1 - Portion 4	0			100	19-Mar-26 A	22-Jul-26	100%	-178																												
	WKCD-A-E-CON-01098	Construction of temporary steel platform at Zone 2B-2A-1 - Portion 5	0			69	30-Apr-26 A	23-Jul-26	50%	-179																												
	WKCD-A-E-CON-1050:	ICE Certified Temporary Steel Platform - Portion 3	0			0		15-Jul-26	0%	-172																												
	WKCD-A-E-CON-1050:	ICE Certified Temporary Steel Platform - Portion 4	0			0		22-Jul-26	0%	-178																												
	WKCD-A-E-CON-1050:	ICE Certified Temporary Steel Platform - Portion 5	0			0		23-Jul-26	0%	-179																												
Excavation & Lateral Support Installation																																						
Portions BCDA - EGL to 1st Layer (+2.8mPD)																																						
	WKCD-A-E-CON-01050	Portions BCDA - Welding lagging plate along IPP wall to excavation level	0			178	25-Dec-25 A	05-Aug-26	80%	-190																												
Portion C - Layer 1 (+3.5mPD) (6 Sets Strut)																																						
	WKCD-A-E-CON-01064	Portion C - Layer 1 - Excavation from EGL to 1st Layer (+2.8mPD) (~44,486m3, ~1,250 m3/d)	0			137	25-Dec-25 A	16-Jun-26 A	100%																													
	WKCD-A-E-CON-01100	Portion C - Layer 1 - Walling & Strut - 1C1, 1C2 (500 ton, ~19 ton/d)	81	08-Sep-25	13-Dec-25	25	12-Jun-26 A	13-Jul-26	25%	-182																												

ELS Works (Stages 1 & 2) for Integrated Basement and Underground Road in Zones 2A, 2B and 2C of West Kowloon Cultural District																																			
Activity ID		Activity Name	CMWP R0 Dur	CMWP R0 Start	CMWP R0 Finish	Dur	Forecast /Actual Start	Forecast /Actual Finish	%	Total Float	2026																								
											June				July				August				September				October				Other				
											31	07	14	21	28	05	12	19	26	02	09	16	23	30	06	13	20	27	04	11		18	25	31	
		WKCDA-E-CON-01100	Portion C- Layer 1 - Waling & Strut - 1C3-1C6 (1000 ton, ~38 ton/d)	0			34	15-Jun-26 A	25-Jul-26	5%	-193																								
		WKCDA-E-CON-01101	Portion C- Layer 1 - Waling & Strut - Preloading	0			2	27-Jul-26	28-Jul-26	0%	-193																								
		Portion B - Layer 1 (+3.5mPD) (4 Sets Strut)																																	
		WKCDA-E-CON-01062	Portion B - Layer 1 - Excavation from EGL to 1st Layer (+2.8mPD) (~29,672m3, ~1,250 m3/d)	0			154	25-Dec-25 A	08-Jul-26	100%	-174																								
		WKCDA-E-CON-01115	Portion B - Layer 1 - Waling & Strut - 1B3, 1B4 (500 ton, ~19 ton/d)	0			38	11-Jun-26 A	27-Jul-26	0%	-190																								
		WKCDA-E-CON-01115	Portion B - Layer 1 - Waling & Strut - 1B1, 1B2 (500 ton, ~19 ton/d)	0			24	28-Jul-26	24-Aug-26	0%	-190																								
		WKCDA-E-CON-01111	Portion B - Layer 1 - Waling & Strut -Prebading	0			2	25-Aug-26	26-Aug-26	0%	-190																								
		Portion D - Layer 1 (+3.5mPD) (4 Sets Strut)																																	
		WKCDA-E-CON-01067	Portion D - Demolition of existing IPP wall bet. Zone 2B and Zone 2A-1; +4.50mPD to +2.80mPD	0			157	25-Dec-25 A	11-Jul-26	90%	-139																								
		WKCDA-E-CON-01066	Portion D - Layer 1 - Excavation from EGL to 1st Layer (+2.8mPD) (~25,484m3, ~1,250 m3/d)	0			173	25-Dec-25 A	30-Jul-26	100%	453																								
		WKCDA-E-CON-01125	Portion D - Layer 1 - Waling & Strut - 1D1, 1D2 (500 ton, ~19 ton/d)	0			23	06-Jun-26 A	04-Jul-26	90%	-189																								
		WKCDA-E-CON-01125	Portion D - Layer 1 - Waling & Strut - 1D3, 1D4 (500 ton, ~19 ton/d)	0			24	06-Jul-26	01-Aug-26	0%	-189																								
		WKCDA-E-CON-01112	Portion D - Layer 1 - Waling & Strut - Preloading	0			2	03-Aug-26	04-Aug-26	0%	-189																								
		Portion A - Layer 1 (+3.5mPD) (Corner Strut)																																	
		WKCDA-E-CON-01069	Portion A - Layer 1 - Excavation from EGL to 1st Layer (+2.8mPD) (~24,140m3, ~1,000 m3/d)	0			25	29-Jun-26 A	28-Jul-26	0%	-193																								
		WKCDA-E-CON-01135	Portion A - Layer 1 - Waling & Strut - 1AN (350ton, ~13 ton/d)	0			24	29-Jul-26	25-Aug-26	0%	-193																								
		WKCDA-E-CON-01135	Portion A - Layer 1 - Waling & Strut - 1AS (350 ton, ~13 ton/d)	0			24	29-Jul-26	25-Aug-26	0%	-193																								
		WKCDA-E-CON-01113	Portion A - Layer 1 - Waling & Strut - Preloading	0			2	26-Aug-26	27-Aug-26	0%	-193																								
		Portions BCDA - 1stto 2nd Layer (+1.05/0mPD)																																	
		WKCDA-E-CON-01560	Portions BCDA - Welding lagging plate along IPP wall to excavation level	0			30	06-Aug-26	09-Sep-26	0%	-190																								
		Portion C - Layer 2 (+1.75mPD)																																	
		WKCDA-E-CON-01137	Portion C - Layer 2 - Excavation from 1st to 2nd Layer (+1.05/0mPD) (21,152m3, ~1,250 m3/d)	0			16	29-Jul-26	15-Aug-26	0%	-183																								
		WKCDA-E-CON-11465	Portion C - Layer 2 - Waling & Strut - Bracket and Waling Installation (~350ton, ~75ton/d)	0			4	28-Aug-26	01-Sep-26	0%	-193																								

ELS Works (Stages 1 & 2) for Integrated Basement and Underground Road in Zones 2A, 2B and 2C of West Kowloon Cultural District																																		
Activity ID		Activity Name	CMWP R0 Dur	CMWP R0 Start	CMWP R0 Finish	Dur	Forecast /Actual Start	Forecast /Actual Finish	%	Total Float	2026																							
											June					July					August				September				October					November
											31	07	14	21	28	05	12	19	26	02	09	16	23	30	06	13	20	27	04	11	18	25	01	
WKCD-A-E-CON-10615		Portion A - Layer 2 - Excavation from 1st to 2nd Layer (+1.05/0mPD) (12,762/22,762m3, ~1,000 m3/d)	0			14	08-Sep-26	23-Sep-26	0%	-190																								
Portions BCDA -2nd to 3rd Layer (-2.8mPD)																																		
WKCD-A-E-CON-01170		Portions BCDA - Welding lagging plate along IPP wall to excavation level	0			60	18-Sep-26	30-Nov-26	0%	-168																								
Portion C - Layer 3 (-2.1mPD)																																		
WKCD-A-E-CON-11620		Portion C - Layer 3 - Excavation from 2nd to 3rd Layer (-2.8mPD) (46,535m3, ~2,500 m3/d)	0			19	18-Sep-26	12-Oct-26	0%	-186																								
Cost Centre F - Excavation and Lateral Support Works for Zone 2A-1 (Stage 2)																																		
Submissions and Approval																																		
Design Submission and Statutory Submission																																		
Excavation and ELS installation at Zone 2A-1 (Stage 2) to FEL (Consent 12)																																		
WKCD-A-F-SUB-01200		Application and obtain consent(BA8) for excavation and ELS installation at Zone 2A-1(Stage 2) to FEL(Consent 12)	28	02-Oct-25	29-Oct-25	34	29-May-26 A	01-Jul-26	50%	-21																								
WKCD-A-F-SUB-01220		Submit BA10 for excavation and ELS installation at Zone 2A-1(Stage 2)	7	30-Oct-25	05-Nov-25	7	02-Jul-26	08-Jul-26	0%	-21																								
Construction																																		
Temporary Shoring, Excavation and Lateral Support																																		
Temporary Steel Platform - Zone 2A-1																																		
WKCD-A-F-CON-1400		Construction of temporary steel platform at Zone 2B-2A-1 Portion 1	30	21-Oct-25	25-Nov-25	94	19-Mar-26 A	15-Jul-26	75%	-132																								
WKCD-A-F-CON-1420		Construction of temporary steel platform at Zone 2B-2A-1 Portion 1	30	26-Nov-25	02-Jan-26	100	19-Mar-26 A	22-Jul-26	75%	-138																								
WKCD-A-F-CON-1440		Construction of temporary steel platform at Zone 2B-2A-1 Portion 1	0			69	30-Apr-26 A	23-Jul-26	75%	-139																								
WKCD-A-F-CON-1460		ICE Certified Temporary Steel Platform - Portion 3	0			0		15-Jul-26	0%	-132																								
WKCD-A-F-CON-1470		ICE Certified Temporary Steel Platform - Portion 4	0			0		22-Jul-26	0%	-138																								
WKCD-A-F-CON-1480		ICE Certified Temporary Steel Platform - Portion 5	0			0		23-Jul-26	0%	-139																								
Excavation & Lateral Support Installation																																		
Portion E - EGL to 1st Layer (+2.8mPD)																																		
WKCD-A-F-CON-01100		Portion E - Layer 1 - Excavation from EGL to 1st Layer (+2.8mPD) (13,732m3, ~600 m3/d)	34	09-Aug-25	17-Sep-25	171	25-Dec-25 A	28-Jul-26	50%	-171																								
WKCD-A-F-CON-01095		Portion E - Welding lagging plate along IPP wall to excavation level	0			171	25-Dec-25 A	28-Jul-26	50%	-171																								
WKCD-A-F-CON-01160		Portion E - Layer 1 - Excavation from EGL to 1st Layer (+2.8mPD) (10,000~450 m3/d)_Remaining	38	01-Nov-25	15-Dec-25	46	22-Jun-26 A	14-Aug-26	0%	-184																								
Lateral Support - Layer 1 (+3.5mPD) Portion E (Corner Strut)																																		
WKCD-A-F-CON-01140		Portion E - Layer 1 - Waling & Strut - 1 E1 (800 ton, ~30 ton/d)	50	01-Nov-25	31-Dec-25	26	29-Jul-26	27-Aug-26	0%	-171																								
WKCD-A-F-CON-01140		Portion E - Layer 1 - Waling & Strut - 1 EN (550 ton, ~23 ton/d)	0			24	15-Aug-26	11-Sep-26	0%	-184																								
WKCD-A-F-CON-01140		Portion E - Layer 1 - Waling & Strut - 1 ES (550 ton, ~23 ton/d)	0			24	15-Aug-26	11-Sep-26	0%	-184																								
WKCD-A-F-CON-0114		Portion E - Layer 1 - Preloading	0			2	12-Sep-26	14-Sep-26	0%	-184																								
Portion E - 1st to 2nd Layer (+1.05/0mPD)																																		
WKCD-A-F-CON-01170		Portion E - Layer 2 - Excavation from 1st to 2nd Layer (+1.05/0mPD) (10,000/22,762m3, ~500 m3/d)	38	16-Dec-25																														

ELS Works (Stages 1 & 2) for Integrated Basement and Underground Road in Zones 2A, 2B and 2C of West Kowloon Cultural District

Activity ID	Activity Name	CMWP R0 Dur	CMWP R0 Start	CMWP R0 Finish	Dur	Forecast /Actual Start	Forecast /Actual Finish	%	Total Float	2026																											
										June				July				August				September					October					November					
										31	07	14	21	28	05	12	19	26	02	09	16	23	30	06	13	20	27	04	11	18	25		01				
2nd Layer to -0.56mPD																																					
2nd Layer - 2D																																					
WKCDA-G-CON-12550	2D - Bracket and Waling Installation (~300/570ton, ~20tons/d)	0			30	06-May-26 A	10-Jun-26 A	100%																													
WKCDA-G-CON-13000	2D - Lateral Shoring/ Strut Installation (~270/570ton,~20tons/d)	0			28	12-May-26 A	13-Jun-26 A	100%																													
WKCDA-G-CON-13000	2D - Preloading	0			2	02-Jul-26	03-Jul-26	0%	-43																												
2nd Layer - 2C																																					
WKCDA-G-CON-13020	2C - Lateral Shoring/ Strut Installation (80/170ton,~10tons/d)	0			65	14-Apr-26 A	02-Jul-26	99%	-42																												
WKCDA-G-CON-13000	2C - Preloading	0			2	04-Jul-26	06-Jul-26	0%	-43																												
2nd Layer - 2E																																					
WKCDA-G-CON-12550	2E - Excavation (5,030 m3, ~400m3/d)	0			29	30-Apr-26 A	04-Jun-26 A	100%																													
WKCDA-G-CON-12560	2E - Bracket and Waling Installation (99/199ton,~10tons/d)	0			37	20-May-26 A	04-Jul-26	75%	-35																												
WKCDA-G-CON-13040	2E - Lateral Shoring/ Strut Installation (100/199ton,~10tons/d)	0			29	31-May-26 A	06-Jul-26	60%	-38																												
WKCDA-G-CON-13000	2E - Preloading	0			2	07-Jul-26	08-Jul-26	0%	-38																												
2nd Layer - 2A																																					
WKCDA-G-CON-13060	2A - Lateral Shoring/ Strut Installation (40/89ton,~5tons/d)	0			43	16-May-26 A	08-Jul-26	50%	-31																												
WKCDA-G-CON-13000	2A - Preloading	0			2	09-Jul-26	10-Jul-26	0%	-31																												
3rd Layer to -1.95mPD																																					
3rd Layer - 3B																																					
WKCDA-G-CON-12550	3B - Excavation (5,824 m3,~400m3/d)	0			23	20-May-26 A	16-Jun-26 A	100%																													
WKCDA-G-CON-12580	3B - Bracket and Waling Installation (200/397ton,~20tons/d)	0			22	16-Jun-26 A	13-Jul-26	25%	-40																												
WKCDA-G-CON-13080	3B - Lateral Shoring/ Strut Installation (197/397ton,~20tons/d)	0			10	14-Jul-26	24-Jul-26	0%	-40																												
WKCDA-G-CON-13000	3B - Preloading	0			2	25-Jul-26	27-Jul-26	0%	-40																												
3rd Layer - 3D																																					
WKCDA-G-CON-12550	3D - Excavation (9,365 m3, ~600m3/d)	0			16	15-Jun-26 A	04-Jul-26	5%	-42																												
WKCDA-G-CON-12600	3D - Bracket and Waling Installation (434/834ton,~30tons/d)	0			21	26-Jun-26 A	21-Jul-26	5%	-33																												
WKCDA-G-CON-13100	3D - Lateral Shoring/ Strut Installation (400/834ton,~30tons/d)	0			13	22-Jul-26	05-Aug-26	0%	-33																												
WKCDA-G-CON-13100	3D - Preloading	0			2	06-Aug-26	07-Aug-26	0%	-33																												
3rd Layer - 3C																																					
WKCDA-G-CON-12550	3C - Excavation ((2,793 m3, ~400m3/d)	0			7	07-Jul-26	14-Jul-26	0%	-43																												
WKCDA-G-CON-12590	3C - Bracket and Waling Installation (129/249ton,~10tons/d)	0			13	15-Jul-26	29-Jul-26	0%	-22																												
WKCDA-G-CON-13120	3C - Lateral Shoring/ Strut Installation (120/249ton,~10tons/d)	0			12	30-Jul-26	12-Aug-26	0%	-22																												
WKCDA-G-CON-13100	3C - Preloading	0			2	13-Aug-26	14-Aug-26	0%	-22																												
3rd Layer - 3E																																					
WKCDA-G-CON-12600	3E - Excavation (3,262 m3, ~400m3/d)	0			9	15-Jul-26	24-Jul-26	0%	-43																												
WKCDA-G-CON-12610	3E - Bracket and Waling Installation (150/290ton,~10tons/d)	0			15	25-Jul-26	11-Aug-26	0%	-28																												
WKCDA-G-CON-13140	3E - Lateral Shoring/ Strut Installation (140/290ton,~10tons/d)	0			14	12-Aug-26	27-Aug-26	0%	-28																												
WKCDA-G-CON-13100	3E - Preloading	0			2	28-Aug-26	29-Aug-26	0%	-28																												
3rd Layer - 3A																																					
WKCDA-G-CON-12550	3A - Excavation (1,804 m3, ~400m3/d)	0			5	25-Jul-26	30-Jul-26	0%	-43																												
WKCDA-G-CON-12570	3A - Bracket and Waling Installation (70/130ton,~10tons/d)	0			7	31-Jul-26	07-Aug-26	0%	-9																												

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◆ Milestone

◆ Critical MS

█ Critical Bar

█ Planned Bar

█ Actual Work Complet...

◆ R0 MS

CC/2023/2B/095

Three Month Rolling Programme as of 30-Jun-2026

Date

30-Jun-26

Revision

Revised CMWP R0 (2nd Draft)

Checked

YL

Approved

ELS Works (Stages 1 & 2) for Integrated Basement and Underground Road in Zones 2A, 2B and 2C of West Kowloon Cultural District																																				
Activity ID	Activity Name	CMWP R0 Dur	CMWP R0 Start	CMWP R0 Finish	Dur	Forecast /Actual Start	Forecast /Actual Finish	%	Total Float	2026																										
										June					July					August				September					October							
										31	07	14	21	28	05	12	19	26	02	09	16	23	30	06	13	20	27	04	11	18	25	31				
	WKCDA-G-CON-1316	3A - Lateral Shoring/ Strut Installation (60/130ton,~10tons/d)	0			6	08-Aug-26	14-Aug-26	0%	-9																										
	WKCDA-G-CON-1317	3A - Preloading	0			2	15-Aug-26	17-Aug-26	0%	-9																										
4th Layer to -5.75mPD																																				
4th Layer - 4B																																				
	WKCDA-G-CON-1267	4B - Excavation (8,520 m3, ~500m3/d)	0			17	31-Jul-26	19-Aug-26	0%	-43																										
	WKCDA-G-CON-1263	4B - Bracket and Waling Installation (200/397ton,~20tons/d)	0			10	20-Aug-26	31-Aug-26	0%	-37																										
	WKCDA-G-CON-1318	4B - Lateral Shoring/ Strut Installation (197/397ton,~20tons/d)	0			10	12-Sep-26	23-Sep-26	0%	-40																										
	WKCDA-G-CON-1319	4B - Preloading	0			2	24-Sep-26	25-Sep-26	0%	-36																										
4th Layer - 4D																																				
	WKCDA-G-CON-1266	4D - Excavation (9,165 m3, ~600m3/d)	0			16	20-Aug-26	07-Sep-26	0%	-43																										
	WKCDA-G-CON-1265	4D - Bracket and Waling Installation (434/834ton,~30tons/d)	0			15	08-Sep-26	24-Sep-26	0%	-43																										
	WKCDA-G-CON-1320	4D - Lateral Shoring/ Strut Installation (400/834ton,~30tons/d)	0			14	25-Sep-26	13-Oct-26	0%	-41																										
4th Layer - 4C																																				
	WKCDA-G-CON-1268	4C - Excavation ((2,734 m3, ~400m3/d)	0			7	08-Sep-26	15-Sep-26	0%	-42																										
	WKCDA-G-CON-1264	4C - Bracket and Waling Installation (129/249ton,~10tons/d)	0			13	25-Sep-26	12-Oct-26	0%	-43																										
4th Layer - 4E																																				
	WKCDA-G-CON-1269	4E - Excavation (3,192 m3, ~400m3/d)	0			8	16-Sep-26	24-Sep-26	0%	-42																										
4th Layer - 4A																																				
	WKCDA-G-CON-126	4A - Excavation (2,789 m3, ~400m3/d)	0			7	25-Sep-26	05-Oct-26	0%	-42																										
Cost Centre J & M - Site Safety and Smart Site Safety System																																				
General Submission																																				
Submission and Approval and Implementation																																				
	WKCDA-JM-SUB-01000	Submit and update Construction Health and Safety Plan	914	05-Jul-24	04-Jan-27	904	15-Jul-24 A	04-Jan-27	79.2%	30																										
	WKCDA-JM-SUB-01100	Implementation and update of SSSS(including communication network,centralized management platform etc.)	879	09-Aug-24	04-Jan-27	852	05-Sep-24 A	04-Jan-27	77.9%	30																										
Cost Centre K - Environmental Management																																				
General Submission																																				
Submission and Approval and Implementation																																				
	WKCDA-K-SUB-01020	Conduct environmental monitoring & audit and submit EM&A report to EPD	914	05-Jul-24	04-Jan-27	914	05-Jul-24 A	04-Jan-27	79.4%	30																										
	WKCDA-K-SUB-01040	Implementation of the EM&A programme	914	05-Jul-24	04-Jan-27	881	07-Aug-24 A	04-Jan-27	78.7%	30																										
	WKCDA-K-SUB-01000	Submit and update Environmental Management Plan	914	05-Jul-24	04-Jan-27	881	07-Aug-24 A	04-Jan-27	78.7%	30																										
Cost Centre P, Q, R & S- Optional Works																																				
Item No.1 - Maintenance and Demolition of NSO																																				
Site Maintenance and Demolition of NSO																																				
	WKCDA-P-#OW-01000	Take-over and maintenance of NSO	855	01-Aug-24	03-Dec-26	882	05-Jul-24 A	03-Dec-26	82.3%	34																										
Item No.2 - Adoption of G/F as CA's and RSS's Site Office & Maintenance of 1/F and Demolition of NSO																																				
Site Maintenance and Demolition of NSO																																				
	WKCDA-Q-#OW-01000	Take-over adoption of G/F NSO as CA and RSS's site office and maintenance of 1/F NSO	855	01-Aug-24	03-Dec-26	882	05-Jul-24 A	03-Dec-26	82.3%	34																										
Item No.4 - Road Reinstatement Works at Austin Road West																																				
Road Reinstatement Works																																				
	WKCDA-S-#OW-01000	Prepare and submit TTMS scheme for road reinstatement works at Austin Road West	14	20-Mar-25	02-Apr-25	14	01-Jul-26	14-Jul-26	0%	-2																										
	WKCDA-S-#OW-01020	Review and approve submission of TTMS scheme for road reinstatement works at Austin Road West	28	03-Apr-25	30-Apr-25	28	15-Jul-26	11-Aug-26	0%	-2																										
	WKCDA-S-#OW-01040	Coordination and approval of TTMS scheme with TMLG	60	01-May-25	29-Jun-25	60	12-Aug-26	10-Oct-26	0%	-2																										
	WKCDA-S-#OW-01040a	- 1st Relevant Authority's review	15	01-May-25	15-May-25	15	12-Aug-26	26-Aug-26	0%	-2																										
2ABC.CMWP.R0.P2.06 Page 7 of 8											◆ Milestone ◆ Critical MS ◆ Critical Bar ◆ R0 MS											CC/2023/2B/095 Three Month Rolling Programme as of 30-Jun-2026							Date 30-Jun-26		Revision Revised CMWP R0 (2nd Draft)		Checked YL		Approved	
											</																									

ELS Works (Stages 1 & 2) for Integrated Basement and Underground Road in Zones 2A, 2B and 2C of West Kowloon Cultural District

[illegible]

C. Action and Limit Levels for Construction Phase

Air Quality

The Action and Limit Levels for 1-hour and 24-hour TSP for the monitoring stations are presented in following tables:

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

Monitoring Station	Action Level (µg/m ³)	Limit Level (µg/m ³)
AM3A	280.4	500
AM4A	278.5	500
AM5A	275.4	500

Table C-2: Action and Limit Levels for 24-hour TSP

Monitoring Station	Action Level (µg/m ³)	Limit Level (µg/m ³)
AM3A	152.4	260
AM4A	152.6	260
AM5A	141.1	260

Noise

The Action and Limit Levels for Noise for the monitoring stations are presented in following table:

Table C-3: Action and Limit Levels for Construction Noise

Time Period & Monitoring Locations	Action Level	Limit Level
NM2A, NM3A, NM4A and NM5A		
0700-1900 hours on normal weekdays	When one valid documented complaint is received from any one of the sensitive receiver	75

Note:

*Reduce to 70dB(A) for school and 65 dB(A) during school examination period.

D. Event and Action Plan for Air Quality, Noise, Landscape and Visual Impact

Air Quality

In case the Action and Limit Levels are not complied during construction stage, the following Event and Action Plan should be followed:

Table D-1: Typical Event and Action Plan for Air Quality

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

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

Construction Noise

In case the Action and Limit Levels are not complied during construction stage, the following Event and Action Plan should be followed:

Table D-2: Event and Action Plan for Construction Noise

Event	Action			
	ET	IEC	WKCD	Contractor
Action Level	1. Notify WKCD, IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, WKCD and Contractor; 4. Discuss with the IEC and Contractor on remedial measures required; 5. Increase monitoring frequency to check mitigation effectiveness.	1. Review the investigation results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the WKCD accordingly; 3. Advise the WKCD on the effectiveness of the proposed remedial measures.	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.	1. Submit noise mitigation proposals to IEC and WKCD; 2. Implement noise mitigation proposals.
Limit Level	1. Inform IEC, WKCD, Contractor and EPD; 2. Repeat measurements to confirm findings; 3. Increase monitoring frequency; 4. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contractor's working procedures; 6. Discuss with the IEC, Contractor and WKCD on remedial measures required; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and WKCD informed of the results; 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst WKCD, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the WKCD accordingly.	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 work which causes the exceedance until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC and WKCD within 3 working days of notification; 3. Implement the agreed proposals; 4. Submit further proposal if problem still not under control; 5. Stop the relevant portion of works as instructed by the WKCD until the exceedance is abated.

Landscape and Visual Impact

In case of non-compliance of landscape and visual impacts, procedures in accordance with the Event and Action Plan should be followed:

Table D-3: Event and Action Plan for Landscape and Visual Impact

Event	Action			
	Action	Event	Action	Event
Design Check	1. Design check to make sure the design complies with all the proposed mitigation measures in the EIA report; 2. Prepare and submit report.	1. Check report submitted by ET; 2. Recommend remedial design if necessary.	1. Undertake remedial design if necessary.	-
Non-conformity on one occasion	1. Identify source of non-conformity; 2. Report to IEC and WKCD;A; 3. Discuss remedial actions with IEC, WKCD;A and Contractor; 4. Monitor remedial actions until rectification has been completed.	1. Check and verify source of non-conformity; 2. Discuss remedial actions with ET and Contractor; 3. Advise WKCD;A on effectiveness of proposed remedial actions; 4. Check implementation of remedial actions.	1. Notify Contractor; 2. Ensure remedial actions are properly implemented.	1. Amend working method as necessary; 2. Rectify damage and undertake necessary replacement and remedial actions.
Repeated non-conformity	1. Identify source of non-conformity; 2. Report to IEC and WKCD;A; 3. Increase monitoring frequency; 4. Discuss remedial actions with IEC, WKCD;A and Contractor; 5. Monitor remedial actions until rectification has been completed; 6. If non-conformity rectified, reduce monitoring frequency back to normal.	1. Check and verify source of non-conformity; 2. Check Contractor's working method; 3. Discuss remedial actions with ET and Contractor; 4. Advise WKCD;A on effectiveness of proposed remedial actions; 5. Supervise implementation of remedial actions.	1. Notify Contractor; 2. Ensure remedial actions are properly implemented.	1. Amend working method as necessary; 2. Rectify damage and undertake necessary replacement and remedial actions.

E. Monitoring Schedule

Notes:
AM3A - Northeast corner of West Kowloon Station's station box (G/F)
AM4A - Southeast corner of West Kowloon Station's station box (G/F)
AM5A - North of West Kowloon Station's station box (G/F)
NM2A - The Arch – Sun Tower (G/F)
NM3A - Xiqu Centre (G/F)
NM4A - Next to Tsim Sha Tsui Fire Station (G/F)
NM5A - Pedestrian road (G/F) outside West Kowloon Station

June 2026 (Hong Kong)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
31	1	2	3 Landscape & Visual inspection Zones 2A, 2B & 2C AM3A,AM4A,AM5A - 24-hr TSP, 1-hr NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring	4	5	6
7	8	9 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring	10	11	12	13
14	15 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring	16	17 Landscape & Visual inspection Zones 2A, 2B & 2C	18	19 ● Dragon Boat Festival	20 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring
21	22	23	24	25	26 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring	27
28	29	30 Landscape & Visual inspection Zones 2A, 2B & 2C	1 ● Hong Kong Special Administrative Region Establishment Day	2	3	4

Notes:
AM3A - Northeast corner of West Kowloon Station's station box (G/F)
AM4A - Southeast corner of West Kowloon Station's station box (G/F)
AM5A - North of West Kowloon Station's station box (G/F)
NM2A - The Arch – Sun Tower (G/F)
NM3A - Xiqu Centre (G/F)
NM4A - Next to Tsim Sha Tsui Fire Station (G/F)
NM5A - Pedestrian road (G/F) outside West Kowloon Station

July 2026 (Hong Kong)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	29	30	1 Hong Kong Special Administrative Region Establishment Day	2 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr TSP NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring	3	4
5	6	7	8 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr TSP NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring	9	10	11
12	13	14 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr TSP NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring	15 Landscape & Visual inspection Zones 2A, 2B & 2C	16	17	18
19	20 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr TSP NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring	21	22	23	24	25 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr TSP NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring
26	27	28	29 Landscape & Visual inspection Zones 2A, 2B & 2C	30	31 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr TSP NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring	1

F. Calibration Certifications



Cal Lab Limited 校正實驗室有限公司

Room 2103, Technology Plaza, 29-35 Sha Tsui Road,
Tsuen Wan, NT, Hong Kong

Tel: +852 25680106 Email: info@callab.com.hk

Fax: +852 30116194 Website: www.callab.com.hk

CERTIFICATE OF CALIBRATION

Applicant: Apex Testing & Certification Ltd. Address: Unit D6A, 10/F, TML Tower, 3 Hoi Shing Road, Tsuen Wan, N.T., HK	Calibration Certificate No.	HV0082604
	Date of Receipt	30 March 2026
	Date of Calibration	1 April 2026
	Page	1 of 1

Item for Calibration

Description : 便携式粉尘检测仪

Manufacturer : 江苏灵熙电子有限公司

Model No. : LX-PM100

Serial No. : 800S6312208

Standard Equipment

Description : High Volume Sampler / Calibration Orifice

Manufacturer : Tisch Environmental, Inc.

Model No. : TE-5170 / TE-5025A

Serial No. : 3476 / 4088

Last Calibration : 23 October 2025 / 9 September 2025

Date	Time	Mean Temp (°C)	Mean Pressure (hPa)	Concentration Standard Equipment (mg/m³)	Concentration Calibrated Equipment (mg/m³)
1 April 2026	10:13:00 AM	22.9	1004.4	0.046	0.046
1 April 2026	11:35:00 AM	22.9	1004.4	0.039	0.040
1 April 2026	12:49:00 PM	22.9	1004.4	0.031	0.029

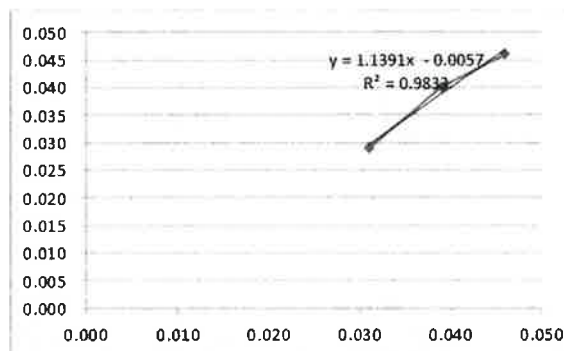
By Linear Regression of Y on X

Slope : 1.1391

Correlation Coefficient : 0.9833

K-Factor : 1.0147

Validity of Calibration : 31 March 2027



Calibrated By:

Wing Cheng

Checked and Approved By:

Warren Yeung

Company Chop:



Certificate Issue Date: 9 April 2026

CT-BEG-04

*** End of Certificate ***

1. The certificate shall not be reproduced except in full, without written approval of Cal Lab Limited
2. The certificate is issued subject to the latest Terms and Conditions, available at our web site



Cal Lab Limited 校正實驗室有限公司

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Tel: +852 25680106 Email: info@callab.com.hk

Fax: +852 30116194 Website: www.callab.com.hk

CERTIFICATE OF CALIBRATION

Applicant: Apex Testing & Certification Ltd. Address: Unit D6A, 10/F, TML Tower, 3 Hoi Shing Road, Tsuen Wan, N.T., HK	Calibration Certificate No.	HV0212604
	Date of Receipt	30 March 2026
	Date of Calibration	1 April 2026
	Page	1 of 1

Item for Calibration

Description : 便携式粉尘检测仪

Manufacturer : 江苏灵熙电子有限公司

Model No. : LX-PM100

Serial No. : 800S6312221

Standard Equipment

Description : High Volume Sampler / Calibration Orifice

Manufacturer : Tisch Environmental, Inc.

Model No. : TE-5170 / TE-5025A

Serial No. : 3476 / 4088

Last Calibration : 23 October 2025 / 9 September 2025

Date	Time	Mean Temp (°C)	Mean Pressure (hPa)	Concentration Standard Equipment (mg/m ³)	Concentration Calibrated Equipment (mg/m ³)
1 April 2026	10:13:00 AM	22.9	1004.4	0.046	0.048
1 April 2026	11:35:00 AM	22.9	1004.4	0.039	0.039
1 April 2026	12:49:00 PM	22.9	1004.4	0.031	0.030

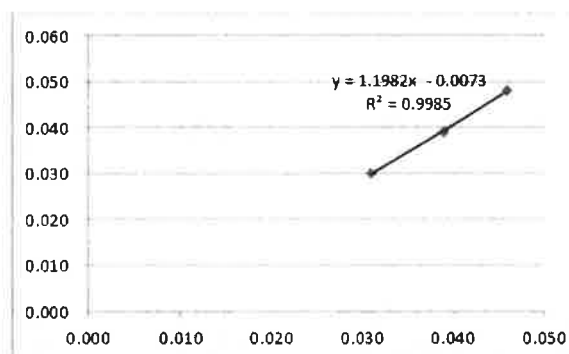
By Linear Regression of Y on X

Slope : 1.1982

Correlation Coefficient : 0.9985

K-Factor : 0.9972

Validity of Calibration : 31 March 2027



Calibrated By:

Wing Cheng

Checked and Approved By:

Warren Yeung

Company Chop:



Certificate Issue Date: 9 April 2026

CT-BEG-04

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Tel: +852 25680106 Email: info@callab.com.hk

Fax: +852 30116194 Website: www.callab.com.hk

CERTIFICATE OF CALIBRATION

Applicant: Apex Testing & Certification Ltd. Address: Unit D6A, 10/F, TML Tower, 3 Hoi Shing Road, Tsuen Wan, N.T., HK	Calibration Certificate No.	HV0332604
	Date of Receipt	30 March 2026
	Date of Calibration	1 April 2026
	Page	1 of 1

Item for Calibration

Description : 便携式粉尘检测仪

Manufacturer : 江苏灵熙电子有限公司

Model No. : LX-PM100

Serial No. : 800S6312233

Standard Equipment

Description : High Volume Sampler / Calibration Orifice

Manufacturer : Tisch Environmental, Inc.

Model No. : TE-5170 / TE-5025A

Serial No. : 3476 / 4088

Last Calibration : 23 October 2025/ 9 September 2025

Date	Time	Mean Temp (°C)	Mean Pressure (hPa)	Concentration Standard Equipment (mg/m ³)	Concentration Calibrated Equipment (mg/m ³)
1 April 2026	10:13:00 AM	22.9	1004.4	0.046	0.045
1 April 2026	11:35:00 AM	22.9	1004.4	0.039	0.038
1 April 2026	12:49:00 PM	22.9	1004.4	0.031	0.030

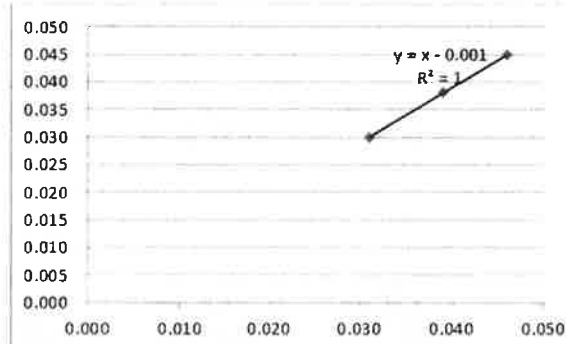
By Linear Regression of Y on X

Slope : 1.0000

Correlation Coefficient : 1.0000

K-Factor : 1.0273

Validity of Calibration : 31 March 2027



Calibrated By:


Wing Cheng

Checked and Approved By:


Warren Yeung

Company Chop:



Certificate Issue Date: 9 April 2026

CT-BEG-04

*** End of Certificate ***

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Accredited Laboratory

A2LA has accredited

CAL LAB LIMITED

Tsuen Wan, NT, HONG KONG

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets R205 – Specific Requirements: Calibration Laboratory Accreditation Program. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).



Presented this 26th day of November 2025.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3815.01
Valid to September 30, 2027

For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.

Hong Kong Accreditation Service



[Home](#) > [Accreditation, Standards and Calibration Services: Hong Kong Accreditation Service](#) > [FAQ / Information](#)
> [Mutual Recognition Arrangements \(MRA\) / Multilateral Recognition Arrangements \(MLA\)](#)

FAQ / Information

Mutual Recognition Arrangements (MRA) / Multilateral Recognition Arrangements (MLA)

Mutual Recognition Arrangement (MRA) Partners for HOKLAS ^

Every effort is made to promote acceptance of test data from accredited laboratories, both internationally and locally. HKAS has concluded mutual recognition arrangements with accreditation bodies listed below by being one of the signatories of the [International Laboratory Accreditation Cooperation Mutual Recognition Arrangement \(ILAC MRA\)](#) and the [Asia Pacific Accreditation Cooperation Mutual Recognition Arrangement \(APAC MRA\)](#) for testing, calibration, medical testing, Proficiency Testing Providers (PTP) and Reference Material Producers (RMP). Click [here](#) to view the up-to-date signatories of ILAC and [here](#) to access the up-to-date signatories of APAC.

Visitors checking the names, logos and accreditation symbols shown on an endorsed certificate or report should note that some of our MRA partners may have their names, logos or accreditation symbols changed recently and test reports or certificates endorsed by displaying their old accreditation symbols may still be valid during the change-over period. For details, please visit their websites or contact them directly.

» [Mutual Recognition Arrangement \(MRA\) Partners for HOKLAS](#)

HKAS MRA partners will recognise HOKLAS endorsed test certificates as having the same technical validity as certificates endorsed by their respective schemes.

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 - [Becoming an Assessor](#)
 - [Testing of Lead, Cadmium, Chromium, Nickel, Antimony and Copper in Water](#)
 - [Useful Links](#)

Hong Kong Laboratory Accreditation Scheme (HOKLAS) - Mutual Recognition Arrangement (MRA) Partners

Economy	Logo	Name of Partner	URL	Test Area
Ukraine		National Accreditation Agency of Ukraine (NAAU)	http://www.naaau.org.ua/	Calibration, Medical Testing, Non-medical Testing
United Arab Emirates		Emirates International Accreditation Center (EIAC)	http://www.eiac.gov.ae/	Calibration, Medical Testing, Non-medical Testing, Proficiency Testing Provider
United Arab Emirates		Ministry of Industry and Advanced Technology - Emirates National Accreditation System (MoIAT - ENAS)		Calibration, Non-medical Testing
United Kingdom of Great Britain and Northern Ireland		United Kingdom Accreditation Service (UKAS)	http://www.ukas.com	Calibration, Medical Testing, Non-medical Testing, Proficiency Testing Provider, Reference Material Producer
United States of America		AIHA Laboratory Accreditation Programs, LLC (AIHA-LAP, LLC)	http://www.aihaaccreditedlabs.org/	Non-medical Testing
United States of America		American Association for Laboratory Accreditation (A2LA)	http://www.a2la.org	Calibration, Medical Testing, Non-medical Testing, Proficiency Testing Provider, Reference Material Producer



TE-5170 Calibration Worksheet

Site Information

Location: AM3A Zones 2A at West
Site ID: Kowloon Cultural Date: 16-Apr-26
Sampler: TE-5170 Serial No: 4340 Tech: CS Tang

Site Conditions

Barometric Pressure (in Hg): 29.85 Corrected Pressure (mm Hg): 758
Temperature (deg F): 81 Temperature (deg K): 300
Average Press. (in Hg): 29.85 Corrected Average (mm Hg): 758
Average Temp. (deg F): 81 Average Temp. (deg K): 300

Calibration Orifice

Make: Tisch Qstd Slope: 2.11142
Model: TE-5025A Qstd Intercept: -0.03845
Serial#: 4088 Date Certified: 9-Sep-25

Calibration Information

Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	Linear Regression
1	12.60	1.692	53.0	52.76	Slope: 31.6268
2	10.70	1.560	48.0	47.78	Intercept: -0.8681
3	7.50	1.309	41.0	40.81	Corr. Coeff: 0.9976
4	4.60	1.029	33.0	32.85	
5	2.60	0.778	23.0	22.90	# of Observations: 5

Calculations

$$Qstd = 1/m[\text{Sqrt}(H2O(Pa/Pstd)(Tstd/Ta))-b]$$
$$IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$$

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

$$1/m((I) [\text{Sqrt}(298/Tav)(Pav/760)] - b)$$

m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure

Average I (chart): 40

Average Flow Calculation m3/min

1.273885088

Average Flow Calculation in CFM

44.98088246

Sample Time (Hrs): 1.0

Total Flow in m3/min

76.43310528

Total Flow in CFM

2698.852947

NOTE: Ensure calibration orifice has been certified within 12 months of use



TE-5170 Calibration Worksheet

Site Information

Location: AM4A Site ID: **Zones 2A at West** Date: **16-Apr-26**
Sampler: **TE-5170** Serial No: **3998** Tech: **CS Tang**

Site Conditions

Barometric Pressure (in Hg): **29.85** Corrected Pressure (mm Hg): **758**
Temperature (deg F): **81** Temperature (deg K): **300**
Average Press. (in Hg): **29.85** Corrected Average (mm Hg): **758**
Average Temp. (deg F): **81** Average Temp. (deg K): **300**

Calibration Orifice

Make: **Tisch** Qstd Slope: **2.11142**
Model: **TE-5025A** Qstd Intercept: **-0.03845**
Serial#: **4088** Date Certified: **9-Sep-25**

Calibration Information

Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	Linear Regression
1	12.50	1.685	53.0	52.76	Slope: 30.1402
2	10.80	1.568	48.0	47.78	Intercept: 1.3771
3	7.60	1.318	41.0	40.81	Corr. Coeff: 0.9976
4	4.40	1.007	33.0	32.85	
5	2.30	0.733	23.0	22.90	# of Observations: 5

Calculations

$$Qstd = 1/m[\text{Sqrt}(H2O(Pa/Pstd)(Tstd/Ta))-b]$$

$$IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$$

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

$$1/m((I)[\text{Sqrt}(298/Tav)(Pav/760)]-b)$$

m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure

Average I (chart): **4.0**

Average Flow Calculation m3/min

1.26222125

Average Flow Calculation in CFM

44.56906323

Sample Time (Hrs): **1.0**

Total Flow in m3/min

75.7333275

Total Flow in CFM

2674.143794

NOTE: Ensure calibration orifice has been certified within 12 months of use



TE-5170 Calibration Worksheet

Site Information

Location: AM5A Zones 2A at West Date: 16-Apr-26
Site ID: Kowloon Cultural Tech: CS Tang
Sampler: TE-5170 Serial No: 4344

Site Conditions

Barometric Pressure (in Hg): 29.85 Corrected Pressure (mm Hg): 758
Temperature (deg F): 81 Temperature (deg K): 300
Average Press. (in Hg): 29.85 Corrected Average (mm Hg): 758
Average Temp. (deg F): 81 Average Temp. (deg K): 300

Calibration Orifice

Make: Tisch Qstd Slope: 2.11142
Model: TE-5025A Qstd Intercept: -0.03845
Serial#: 4088 Date Certified: 9-Sep-25

Calibration Information

Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	Linear Regression
1	12.60	1.692	53.0	52.76	Slope: 31.2568
2	10.50	1.546	48.0	47.78	Intercept: -0.2519
3	7.70	1.326	41.0	40.81	Corr. Coeff: 0.9979
4	4.50	1.018	33.0	32.85	
5	2.50	0.764	23.0	22.90	# of Observations: 5

Calculations

$$Qstd = 1/m[\text{Sqrt}(H2O(Pa/Pstd)(Tstd/Ta))-b]$$
$$IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$$

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

$$1/m((I)[\text{Sqrt}(298/Tav)(Pav/760)]-b)$$

m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure

Average I (chart): 40

Average Flow Calculation m3/min

1.269246384

Average Flow Calculation in CFM

44.81708982

Sample Time (Hrs): 1.0

Total Flow in m3/min

76.15478304

Total Flow in CFM

2689.025389

NOTE: Ensure calibration orifice has been certified within 12 months of use



TE-5170 Calibration Worksheet

Site Information

Location: AM3A Zones 2A at West Date: 12-Jun-26
Site ID: Kowloon Cultural
Sampler: TE-5170 Serial No: 4340 Tech: CS Tang

Site Conditions

Barometric Pressure (in Hg): 29.89 Corrected Pressure (mm Hg): 759
Temperature (deg F): 81 Temperature (deg K): 300
Average Press. (in Hg): 29.89 Corrected Average (mm Hg): 759
Average Temp. (deg F): 81 Average Temp. (deg K): 300

Calibration Orifice

Make: Tisch Qstd Slope: 2.11142
Model: TE-5025A Qstd Intercept: -0.03845
Serial#: 4088 Date Certified: 9-Sep-25

Calibration Information

Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	Linear Regression
1	12.70	1.698	53.0	52.76	Slope: 30.8034
2	10.50	1.546	48.0	47.78	Intercept: 0.6417
3	7.20	1.283	41.0	40.81	Corr. Coeff: 0.9982
4	4.50	1.018	33.0	32.85	
5	2.40	0.749	23.0	22.90	# of Observations: 5

Calculations

$$Qstd = 1/m[\text{Sqrt}(H2O(Pa/Pstd)(Tstd/Ta))-b]$$

$$IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$$

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

$$1/m((I)[\text{Sqrt}(298/Tav)(Pav/760)]-b)$$

m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure

Average I (chart): 40

Average Flow Calculation m3/min

1.258925955

Average Flow Calculation in CFM

44.45267547

Sample Time (Hrs): 1.0

Total Flow in m3/min

75.53555729

Total Flow in CFM

2667.160528

NOTE: Ensure calibration orifice has been certified within 12 months of use



TE-5170 Calibration Worksheet

Site Information

Location: AM4A Site ID: Kowloon Cultural Date: 12-Jun-26
Sampler: TE-5170 Serial No: 3998 Tech: CS Tang

Site Conditions

Barometric Pressure (in Hg): 29.89 Corrected Pressure (mm Hg): 759
Temperature (deg F): 81 Temperature (deg K): 300
Average Press. (in Hg): 29.89 Corrected Average (mm Hg): 759
Average Temp. (deg F): 81 Average Temp. (deg K): 300

Calibration Orifice

Make: Tisch Qstd Slope: 2.11142
Model: TE-5025A Qstd Intercept: -0.03845
Serial#: 4088 Date Certified: 9-Sep-25

Calibration Information

Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	Linear Regression
1	12.80	1.705	53.0	52.76	Slope: 29.6922
2	10.70	1.560	48.0	47.78	Intercept: 1.9344
3	7.60	1.318	41.0	40.81	Corr. Coeff: 0.9975
4	4.30	0.996	33.0	32.85	
5	2.30	0.733	23.0	22.90	# of Observations: 5

Calculations

$$Qstd = 1/m[\text{Sqrt}(H2O(Pa/Pstd)(Tstd/Ta))-b]$$
$$IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$$

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

$$1/m((I)[\text{Sqrt}(298/Tav)(Pav/760)]-b)$$

m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure

Average I (chart): 40

Average Flow Calculation m3/min

1.262504588

Average Flow Calculation in CFM

44.57903699

Sample Time (Hrs): 1.0

Total Flow in m3/min

75.75027527

Total Flow in CFM

2674.74222

NOTE: Ensure calibration orifice has been certified within 12 months of use



TE-5170 Calibration Worksheet

Site Information

Location: AM5A Site ID: **Zones 2A at West** Date: 12-Jun-26
Sampler: TE-5170 Serial No: 4344 Tech: CS Tang

Site Conditions

Barometric Pressure (in Hg): 29.89 Corrected Pressure (mm Hg): 759
Temperature (deg F): 81 Temperature (deg K): 300
Average Press. (in Hg): 29.89 Corrected Average (mm Hg): 759
Average Temp. (deg F): 81 Average Temp. (deg K): 300

Calibration Orifice

Make: Tisch Qstd Slope: 2.11142
Model: TE-5025A Qstd Intercept: -0.03845
Serial#: 4088 Date Certified: 9-Sep-25

Calibration Information

Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	Linear Regression
1	12.70	1.698	53.0	52.76	Slope: 30.8169
2	10.80	1.568	48.0	47.78	Intercept: 0.2908
3	7.40	1.301	41.0	40.81	Corr. Coeff: 0.9972
4	4.50	1.018	33.0	32.85	
5	2.50	0.764	23.0	22.90	# of Observations: 5

Calculations

$$Qstd = 1/m[\text{Sqrt}(H2O(Pa/Pstd)(Tstd/Ta))-b]$$

$$IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$$

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

$$1/m((I) [\text{Sqrt}(298/Tav)(Pav/760)]-b)$$

m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure

Average I (chart): 40

Average Flow Calculation m3/min

1.269762568

Average Flow Calculation in CFM

44.83531627

Sample Time (Hrs): 1.0

Total Flow in m3/min

76.18575408

Total Flow in CFM

2690.118976

NOTE: Ensure calibration orifice has been certified within 12 months of use



Certificate of Calibration

Calibration Certification Information

Cal. Date: September 9, 2025 Rootsmeter S/N: 438320 Ta: 294 °K
Operator: Jim Tisch Pa: 754.9 mm Hg
Calibration Model #: TE-5025A Calibrator S/N: 4088

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4460	3.2	2.00
2	3	4	1	1.0320	6.4	4.00
3	5	6	1	0.9210	8.0	5.00
4	7	8	1	0.8840	8.8	5.50
5	9	10	1	0.7240	12.8	8.00

Data Tabulation

Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)}$ (y-axis)
1.0025	0.6933	1.4190	0.9958	0.6886	0.8826
0.9983	0.9673	2.0068	0.9915	0.9608	1.2481
0.9961	1.0816	2.2436	0.9894	1.0743	1.3955
0.9951	1.1256	2.3532	0.9883	1.1180	1.4636
0.9897	1.3670	2.8380	0.9830	1.3578	1.7651
QSTD	m=	2.11142	QA	m=	1.32213
	b=	-0.03845		b=	-0.02391
	r=	0.99983		r=	0.99983

Calculations

Vstd=	$\Delta Vol((Pa-\Delta P)/Pstd)(Tstd/Ta)$	Va=	$\Delta Vol((Pa-\Delta P)/Pa)$
Qstd=	$Vstd/\Delta Time$	Qa=	$Va/\Delta Time$
For subsequent flow rate calculations:			
Qstd= $1/m \left(\left(\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)} \right) - b \right)$		Qa= $1/m \left(\left(\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)} \right) - b \right)$	

Standard Conditions

Tstd: 298.15 °K

Pstd: 760 mm Hg

Key

ΔH: calibrator manometer reading (in H2O)

ΔP: rootsmeter manometer reading (mm Hg)

Ta: actual absolute temperature (°K)

Pa: actual barometric pressure (mm Hg)

b: intercept

m: slope

RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30



中国认可
国际互认
校准
CALIBRATION
CNAS L5102

华测计量检测有限公司

CTI MEASUREMENT AND TESTING CO., LTD.

校准证书

Calibration Certificate

证书编号

Certificate No.

C2509253990002

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委托单位

Customer

上峰检测认证有限公司

委托单位地址

Address

香港荃湾海盛路3号TML广场10楼D6A室

器具名称

Name of instrument

声级计

型号规格

Model

AWA5661

制造商

Manufacturer

杭州爱华仪器有限公司

出厂编号

Serial No.

301135

管理编号

Management No.

接收日期

Received date

2025/09/26

校准日期

Calibration date

2025/09/27

发布日期

Issue date

2025/09/28

建议下次校准日期

Next calibration date

2026/09/26

批准

Approved by

曾财萍

曾财萍

审核

Inspected by

刘然

刘然

校准

Calibrated by

李少雄

李少雄



总部地址：广东省深圳市宝安区西乡街道铁岗社区桃花源科技创新园B、C栋

Headquarter address: Building B and C, Taohuayuan Sci-Tech Innovation Park, Tiegang Community, Xixiang Sub-district, Bao'an District, Shenzhen, Guangdong, China

实验室地址：广东省深圳市宝安区西乡街道铁岗社区桃花源科技创新园B、C栋

Laboratory address: Building B and C, Taohuayuan Sci-Tech Innovation Park, Tiegang Community, Xixiang Sub-district, Bao'an District, Shenzhen, Guangdong, China

邮编 Post code: 518101

电话 Tel.: 86-755-33682045

电子邮箱 E-mail: calibration@cti-cert.com

说明

Directions

证书编号 C2509253990002
Certificate No.

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1. 本证书校准结果均可溯源至国际单位制 (SI) 单位。

The results are traceable to International System of Units(SI).

2. 证书未盖本公司证书/报告章及骑缝章无效。未经本公司书面批准, 不得部分复制此证书。

Any certificate is deemed to be invalid without both the certificate/report seal and its across-page seal. This certificate shall not be copied partly without the written approval.

3. 本证书校准结果只与受校准仪器有关。如证书中的英文内容与中文内容有差异, 以中文为准。

The results relate only to the items calibrated. In case of any discrepancy between the English version and Chinese version of the certificate(if generated), the Chinese version shall prevail.

4. 本次校准的技术依据:

Reference documents for the calibration

JJG 188-2017 声级计检定规程

5. 校准地点、环境条件:

Place and environment condition during calibration

地点: 本实验室力学室(6)

Place

温度: 22.3℃

Temperature

相对湿度: 52%

R.H.



计量溯源性声明

6. 本次校准所使用的主要计量标准器具:

Main measurement standards used in the calibration

名称/型号规格	编号	测量范围	准确度等级/最大允许误差/不确定度	证书号/溯源机构	有效期
Name/Model	Serial No.	Measurement range	Accuracy class/Maximum permissible error/Uncertainty	Certificate No./Traceability to	Due date
声校准器 4231	3014336	94dB~114dB	1级	SXE202510332 广东省计量科学研究院	2026/07/07
消音箱 AWA188	080312	10Hz~20kHz (20~130) dB	$U=0.8\text{dB}, k=2$	JL2411712691 深圳市计量质量检测研究院	2029/09/09
声频功率放大器 AWA5871	080649	/	$U=0.03\text{dB}, k=2$	SXE202501365 广东省计量科学研究院	2026/07/08
有源耦合腔 AWA6153S+	2006409	10Hz~400Hz	声压级: $U=0.2\text{dB}, k=2$ 失真度: $U=0.2\%, k=2$	SXE202483069 广东省计量科学研究院	2026/07/22
传声器 4192	2996596	1Hz~20000Hz	20Hz~4kHz: $U=0.20\text{dB}, k=2$; 5kHz~20kHz: $U=0.50\text{dB}, k=2$	SXE202501375 广东省计量科学研究院	2026/07/14
信号发生器 AWA1650	089943	0.5Hz~20kHz	电压: $U_{\text{rel}}=0.2\%, k=2$ 频率: $U_{\text{rel}}=0.1\%, k=2$	SXE202501364 广东省计量科学研究院	2026/07/08

说明

Directions

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名称/型号规格 Name/Model	编号 Serial No.	测量范围 Measurement range	准确度等级/最大允许误差/不确定度 Accuracy class/Maximum permissible error/Uncertainty	证书号/溯源机构 Certificate No./Traceability to	有效期 Due date
测试声源(扬声器) AWA5511A	090677	20Hz~20kHz	最大声压级: $U=0.6\text{dB}, k=2$ 声源稳定性: $U=0.6\text{dB}, k=2$ 总失真: $U_{\text{rel}}=2.7\%, k=2$ 频率响应: $U=0.6\text{dB}, k=2$	SXE202501372 广东省计量科学研究院	2026/07/14
测量放大器 AWA5810D	089909	4Hz~20kHz	灵敏度: $U=0.04\text{dB}, k=2$ 频率计权: $U=0.2\text{dB}, k=2$ 线性计权: 4Hz ~ 10Hz: $U=0.11\text{dB}, k=2$ 10Hz ~ 20kHz: $U=0.04\text{dB}, k=2$	SXE202583084 广东省计量科学研究院	2026/07/10
信号发生器(碎发音发生器) AWA1650	089943	10Hz~20kHz	时间: (0.1~10) ms: $U_{\text{rel}}=0.36\%, k=2$ (> 10~200) ms: $U_{\text{rel}}=0.28\%, k=2$ (> 0.2~10) s: $U_{\text{rel}}=0.24\%, k=2$ 频率: $U_{\text{rel}}=0.01\%, k=2$ 电压: $U_{\text{rel}}=0.1\%, k=2$	SXE202583085 广东省计量科学研究院	2026/07/14

校准结果

Results of calibration

证书编号 C2509253990002
Certificate No.

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1. 外观及工作正常性检查
Appearance and function check
正常 Normal

2. 指示声级调整 (1000Hz)

声级计频率计权	声校准器频率	声校准器标准值	调校前声级计示值	调校后声级计示值	接受限	结论
	(Hz)	(dB)	(dB)	(dB)	(dB)	Pass/Fail
A	1000	94	93.5	94.0	93.7 ~ 94.3	Pass

3. 频率计权的声信号实验 (频率: 1000Hz/A频率计权)

声压级标准值	声压级指示值	接受限	结论
(dB)	(dB)	(dB)	Pass/Fail
44	44.2	43.2 ~ 44.8	Pass
54	54.1	53.2 ~ 54.8	Pass
64	64.0	63.2 ~ 64.8	Pass
74	74.0	73.2 ~ 74.8	Pass
84	84.0	83.2 ~ 84.8	Pass
94	94.0	93.2 ~ 94.8	Pass
104	104.0	103.2 ~ 104.8	Pass
114	114.1	113.2 ~ 114.8	Pass

4. 本机自生噪音

测试类型	频率计权	实测值 (dB)
声信号	A	41.2
	A	41.5
电信号	C	46.3
	Z	48.6

5. 级线性 (1dB ~ 10dB内变化): 起始点指示声级

频率	测量项目	90 dB 实测值	接受限	结论
(Hz)	-----	(dB)	(dB)	Pass/Fail
1000	起始点以上每间隔10dB最大偏差	+0.1	± 0.3	Pass
	起始点以下每间隔10dB最大偏差	0.0	± 0.3	Pass
	距上限5dB内每隔1dB最大偏差	0.0	± 0.3	Pass
	距下限5dB内每隔1dB最大偏差	-0.1	± 0.3	Pass
8000	起始点以上每间隔10dB最大偏差	0.0	± 0.3	Pass
	起始点以下每间隔10dB最大偏差	0.0	± 0.3	Pass
	距上限5dB内每隔1dB最大偏差	-0.1	± 0.3	Pass
	距下限5dB内每隔1dB最大偏差	0.0	± 0.3	Pass

校准结果

Results of calibration

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6. 频率计权

频率 (Hz)	A计权标准值 (dB)	声压级指示值 (dB)	接受限 (dB)	结论 Pass/Fail
20	-50.5	-50.6	-48.5 ~ -52.5	Pass
31.5	-39.4	-39.5	-37.9 ~ -40.9	Pass
63	-26.2	-26.2	-25.2 ~ -27.2	Pass
125	-16.1	-16.2	-15.1 ~ -17.1	Pass
250	-8.6	-8.6	-7.6 ~ -9.6	Pass
500	-3.2	-3.2	-2.2 ~ -4.2	Pass
1000	0.0	0.0	+0.7 ~ -0.7	Pass
2000	+1.2	+1.2	+2.2 ~ +0.2	Pass
4000	+1.0	+1.0	+2.0 ~ 0.0	Pass
8000	-1.1	-1.3	+0.4 ~ -3.6	Pass
16000	-6.6	-9.6	-4.1 ~ -22.6	Pass
20000	-9.3	-22.5	-6.3 ~ -∞	Pass

频率 (Hz)	C计权标准值 (dB)	声压级指示值 (dB)	接受限 (dB)	结论 Pass/Fail
20	-6.2	-6.2	-4.2 ~ -8.2	Pass
31.5	-3.0	-3.0	-1.5 ~ -4.5	Pass
63	-0.8	-0.8	+0.2 ~ -1.8	Pass
125	-0.2	-0.2	+0.8 ~ -1.2	Pass
250	0.0	0.0	+1.0 ~ -1.0	Pass
500	0.0	0.0	+1.0 ~ -1.0	Pass
1000	0.0	0.0	+0.7 ~ -0.7	Pass
2000	-0.2	-0.2	+0.8 ~ -1.2	Pass
4000	-0.8	-0.8	+0.2 ~ -1.8	Pass
8000	-3.0	-3.0	-1.5 ~ -4.5	Pass
16000	-8.5	-11.5	-6.0 ~ -24.5	Pass
20000	-11.2	-24.3	-8.2 ~ -∞	Pass

校准结果

Results of calibration

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频率 (Hz)	Z计权标准值 (dB)	声压级指示值 (dB)	接受限 (dB)	结论 Pass/Fail
20	0.0	-0.1	+2.0 ~ -2.0	Pass
31.5	0.0	-0.1	+1.5 ~ -1.5	Pass
63	0.0	0.0	+1.5 ~ -1.5	Pass
125	0.0	0.0	+1.0 ~ -1.0	Pass
250	0.0	0.0	+1.0 ~ -1.0	Pass
500	0.0	0.0	+1.0 ~ -1.0	Pass
1000	0.0	0.0	+0.7 ~ -0.7	Pass
2000	0.0	0.0	+1.0 ~ -1.0	Pass
4000	0.0	0.0	+1.0 ~ -1.0	Pass
8000	0.0	0.0	+1.5 ~ -2.5	Pass
16000	0.0	-0.1	+2.5 ~ -16.0	Pass
20000	0.0	-0.3	+3.0 ~ -∞	Pass

7. 1kHz处的频率计权

A计权参考声级 (dB)	C频率计权相对A频率计权的偏差 (dB)	Z频率计权相对A频率计权的偏差 (dB)	结论 Pass/Fail	接受限 (dB)
94	0.0	-0.1	Pass	± 0.2

8. F和S时间计权

衰减速率 (dB/s)	实测值 (dB/s)	接受限 (dB/s)	结论 Pass/Fail
快 (F) 计权	34.6	31.0 ~ 38.5	Pass
慢 (S) 计权	4.4	3.6 ~ 5.1	Pass

9. 猝发音响应 (A计权)

猝发音持续时间 (ms)	(LAFmax-LA)标准值 (dB)	(LAFmax-LA)指示值 (dB)	接受限 (dB)	结论 Pass/Fail
200	-1.0	-1.0	-0.5 ~ -1.5	Pass
2	-18.0	-18.0	-17.0 ~ -18.5	Pass
0.25	-27.0	-27.1	-26.0 ~ -30.0	Pass
猝发音持续时间 (ms)	(LASmax-LA)标准值 (dB)	(LSFmax-LA)指示值 (dB)	接受限(dB)	结论 Pass/Fail
200	-7.4	-7.4	-6.9 ~ -7.9	Pass
2	-27.0	-27.2	-26.0 ~ -30.0	Pass

校准结果

Results of calibration

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Page of证书编号 C2509253990002
Certificate No.

注: 仪器配传声器型号: AWA14425, 传声器编号: 61356

本次校准结果的扩展不确定度为:

Expanded uncertainty of measurement:

声信号: 20Hz~200Hz, $U=0.5$ dB, $k=2$; 250Hz~400Hz, $U=0.4$ dB, $k=2$; 500Hz~1250Hz, $U=0.4$ dB, $k=2$; 1600Hz~10000Hz, $U=0.6$ dB, $k=2$; 12.5kHz~20kHz, $U=1.0$ dB;正弦电信号: (0~140) dB, (20~20000) Hz, $U=0.3$ dB, $k=2$;猝发音电信号: (0~140) dB, (1000~8000) Hz, (0.25~1000)ms $U=0.3$ dB, $k=2$;时间计权 F 和 S: F:(25~40)dB/s, $U=3.2$ dB/s, $k=2$; S:(1~10)dB/s, $U=0.3$ dB/s, $k=2$ 。

备注:

Notes

- 依据JJF1059.1-2012测量不确定度评定与表示。
According to JJF1059.1-2012 Evaluation and Expression of Uncertainty in Measurement.
- 校准项目符合1级技术要求。
The calibrated measurand are accord with class 1 technical specifications.

以下空白

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华南国家计量测试中心
广东省计量科学研究院
SOUTH CHINA NATIONAL CENTER OF METROLOGY
GUANGDONG INSTITUTE OF METROLOGY



中国认可
国际互认
校准
CALIBRATION
CNAS L0730

校准证书

CALIBRATION CERTIFICATE

证书编号 SXE202510529
Certificate No.

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计量器具名称
Description

声校准器

型号/规格
Model/Type

AWA6221A

制造厂
Manufacturer

HANGZHOU AIHUA INSTRUMENTS CO., LTD.

出厂编号
Serial No.

AWA6221A0890E

设备管理编号
Equipment No.

接收日期

2025 年 12 月 01 日

The date of receipt

Y M D

校准日期

2025 年 12 月 06 日

The date of calibration

Y M D

发布日期

2025 年 12 月 08 日

The date of issue

Y M D

符合性声明

符合 JJG 176-2022 (1级) 全部后续项目技术要求

Statements of conformity

Comply with the requirements of all subsequent items for JJG 176-2022(Class 1)

批准

Authorized by

李敏毅 李敏毅

核 验

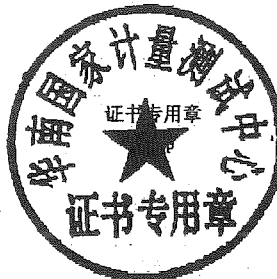
Reviewed by

何铭涛 何铭涛

校 准

Calibrated by

何卓斌 何卓斌



扫一扫查真伪

实验室地址: 中国广东省广州市广园中路松柏东街30号

邮政编码: 510405

电话: +8620 86594172 投诉电话: +8620 36611242 E-mail: scm@scm.com.cn

Add: No.30, Songbai East Street, Guangyuan Middle Road, Guangzhou, Guangdong, China

Post Code: 510405 Tel: +8620 86594172 Complaint Tel: +8620 36611242

证书真伪查询: www.scm.com.cn; cert.scm.com.cn Certificate Authenticity Identify: www.scm.com.cn; cert.scm.com.cn



说 明

证书编号 SXE202510529

Certificate No.

DIRECTIONS

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1. 本中心是国家市场监督管理总局在华南地区设立的国家法定计量检定机构, 本中心的质量管理体系符合 ISO/IEC 17025:2017 标准的要求。

This laboratory is the National Legal Metrological Verification Institution in southern China set up by the State Administration for Market Regulation. The quality system is in accordance with ISO/IEC 17025:2017.

2. 校准地点:

The location of calibration:

院本部4053

Room 4053, Headquarters

3. 本次校准使用的方法:

The method used:

JJG 176-2022 声校准器检定规程 V.R. of Sound Calibrators

4. 应用的判定规则:

The decision rule applied:

CNAS-GL015: 2022 判定规则和符合性声明指南 第6.2.1

Guidelines on Decision Rules and Statements of Conformity Clause 6.2.1

5. 本证书中的校准结果可溯源至国际单位制 (SI) 单位和/或社会公用计量标准, 本次校准使用以下计量标准器具:

The calibration results are traceable to International System of Units (SI) units and/or measurement standard for public service.

The measurement standards used:

名称 Name	型号规格 Model/Type	编号 Serial No.	证书号/溯源机构 Certificate No./ Traceability to	计量特性 Metrological Characteristic
电声标准装置	频率: 10 Hz~20 kHz	33110800	[1993] 国社量标华 南证字第085号	声压级: $U=0.4\text{dB}\sim 1.0\text{dB}$ ($k=2$); 在参考频率 上: $U=0.08\text{dB}$ ($k=2$) [压力 场]
动态信号分析仪	3560C (3110模块) /0.1 Hz~200 kHz	2392397	SXE202500778 /本中心	电压: $U_{\text{rel}}=0.2\%$, 频 率: $U_{\text{rel}}=0.002\%$ ($k=2$) Voltage: $U_{\text{rel}}=0.2\%$, Frequency : $U_{\text{rel}}=0.002\%$ ($k=2$)
工作标准传声器	4190 /20 Hz~20 kHz	2383233	SXE202500423 /本中心	20 Hz~4 kHz, $U=0.20\text{dB}$ 5 kHz~20 kHz, $U=0.50\text{dB}$ ($k=2$)
声校准器	4231 /94 dB, 114 dB	2730392	SXE202500307 /本中心	1 级 Class 1

注: 1. 本证书校准结果只与受校准仪器有关。 The results relate only to the items calibrated.

Note: 2. 未经本机构书面批准, 不得部分复制此证书。 This certificate shall not be reproduced except in full, without the written approval of our laboratory.

3. “客户名称”、“联络信息”由客户提供, “制造厂”、“型号规格”、“出厂编号”以及“设备编号”为仪器上标注, 客户对上面内容如有异议, 须在收到证书后二十个工作日内提出。

The information Name of the Customer and Contact Information are provided by customer, and the Manufacturer, Model/Type, Serial No. and Equipment No. are marked on the items. Customer shall submit any objection within 20 working days after receiving the certificate for the information above.

计量
证书



校准结果 RESULTS OF CALIBRATION

证书编号 SXE202510529
Certificate No.

原始记录号 SXE202510529
Record No.

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Page of

1 外观: 符合要求

Apparent inspection: Pass

2 声压级: 见表1

Sound Pressure Level: Shown in table 1

表1 Table 1

标称频率/Hz	规定声压级/dB	测得的声压级/dB	测得的声压级与 规定声压级之差 的绝对值/dB	接受限/dB	结论
Nominal Frequency	Specified sound pressure level	Measured sound pressure level	Absolute value of Error	Acceptance limit	Conclusion
1000	94	94.15	0.15	0.25	符合要求(Pass)
1000	114	114.21	0.21	0.25	符合要求(Pass)

3 频率: 见表2

Frequency: Shown in table 2

表2 Table 2

规定频率/Hz	标称声压级/dB	测得的频率/Hz	测得的频率与规 定频率相对误差 的绝对值/%	接受限/%	结论
Specified frequency	Nominal sound pressure level	Measured frequency	Absolute value of Error	Acceptance limit	Conclusion
1000	94	998.78	0.122	0.7	符合要求(Pass)
1000	114	998.82	0.118	0.7	符合要求(Pass)

4 总失真+噪声: 见表3

Total distortion + noise: Shown in table 3

表3 Table 3

规定频率/Hz	标称声压级/dB	总失真+噪声/%	接受限/%	结论
Specified frequency	Nominal sound pressure level	Total Distortion+ noise	Acceptance limit	Conclusion
1000	94	0.1	2.5	符合要求(Pass)
1000	114	0.2	2.5	符合要求(Pass)



校准结果 RESULTS OF CALIBRATION

证书编号 SXE202510529
Certificate No.

原始记录号 SXE202510529
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说明:

Note:

1 测量结果扩展不确定度:

Expanded uncertainty of measurement results:

声压级: $U=0.15$ dB, 频率: $U_{rel}=0.1\%$, 总失真+噪声: $U=0.4\%$, 包含因子: $k=2$

Sound Pressure Level, Frequency, Total distortion + noise, Coverage factor

2 本证书中给出的扩展不确定度依据JJF1059.1-2012《测量不确定度评定与表示》评定, 由合成标准不确定度乘以包含概率约为95%时对应的包含因子 k 得到。

The expanded uncertainty given in this certificate is evaluated according to JJF 1059.1-2012 "Evaluation and Expression of Uncertainty in Measurement", which is obtained by multiplying the combined standard uncertainty by the coverage factor k corresponding to the coverage probability of about 95%.

3 该仪器的溯源日期为本证书的“校准日期”, 由于复校时间间隔的长短是由仪器的使用情况、使用者、仪器本身质量等诸因素所决定的, 因此, 送校单位可根据实际使用情况自主决定复校时间间隔。

更换重要部件、维修或对仪器性能有怀疑时, 应及时校准。

The traceability date of this instrument is the "Calibration Date" on this certificate, Since the calibration interval is determined by the use of the instrument, operation of the user, the quality of the instrument itself and other factors, the re-calibration date can be decided by the user according to the actual situation. In case of replacement of important parts, maintenance or doubt on the performance of the instrument, it shall be calibrated in time.

4 校准活动中对测量结果有影响的条件:

Conditions under which the calibrations were made that have an influence on the measurement results

温度 (Temperature): (22 ± 1) °C

湿度 (Humidity): $(40\sim50)$ %RH

静压 (Static pressure): $(100.0\sim101.0)$ kPa

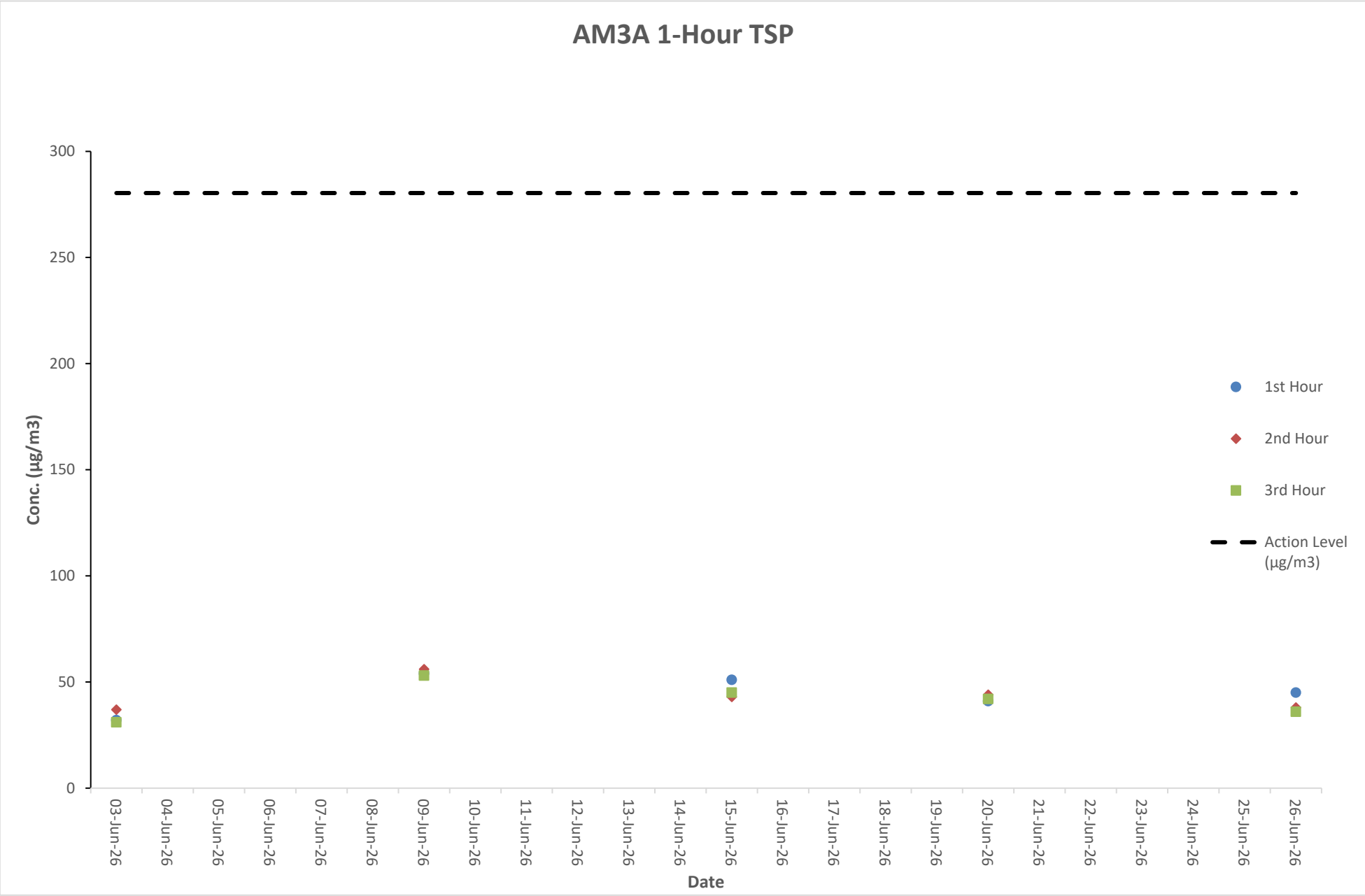


G. Graphical Plots of the Monitoring Results

Air Quality Monitoring Result at Station AM3A (1-hour TSP)

Date	Weather Condition	Time		Conc. (µg/m3)			Action Level	Limit Level
		Start	Finish	1st Hour	2nd Hour	3rd Hour		
03-Jun-26	Cloudy	7:12	10:12	32	37	31	280.4	500
09-Jun-26	Cloudy	13:08	16:08	54	56	53	280.4	500
15-Jun-26	Cloudy	7:04	10:04	51	43	45	280.4	500
20-Jun-26	Cloudy	13:10	16:10	41	44	42	280.4	500
26-Jun-26	Cloudy	7:05	10:05	45	38	36	280.4	500

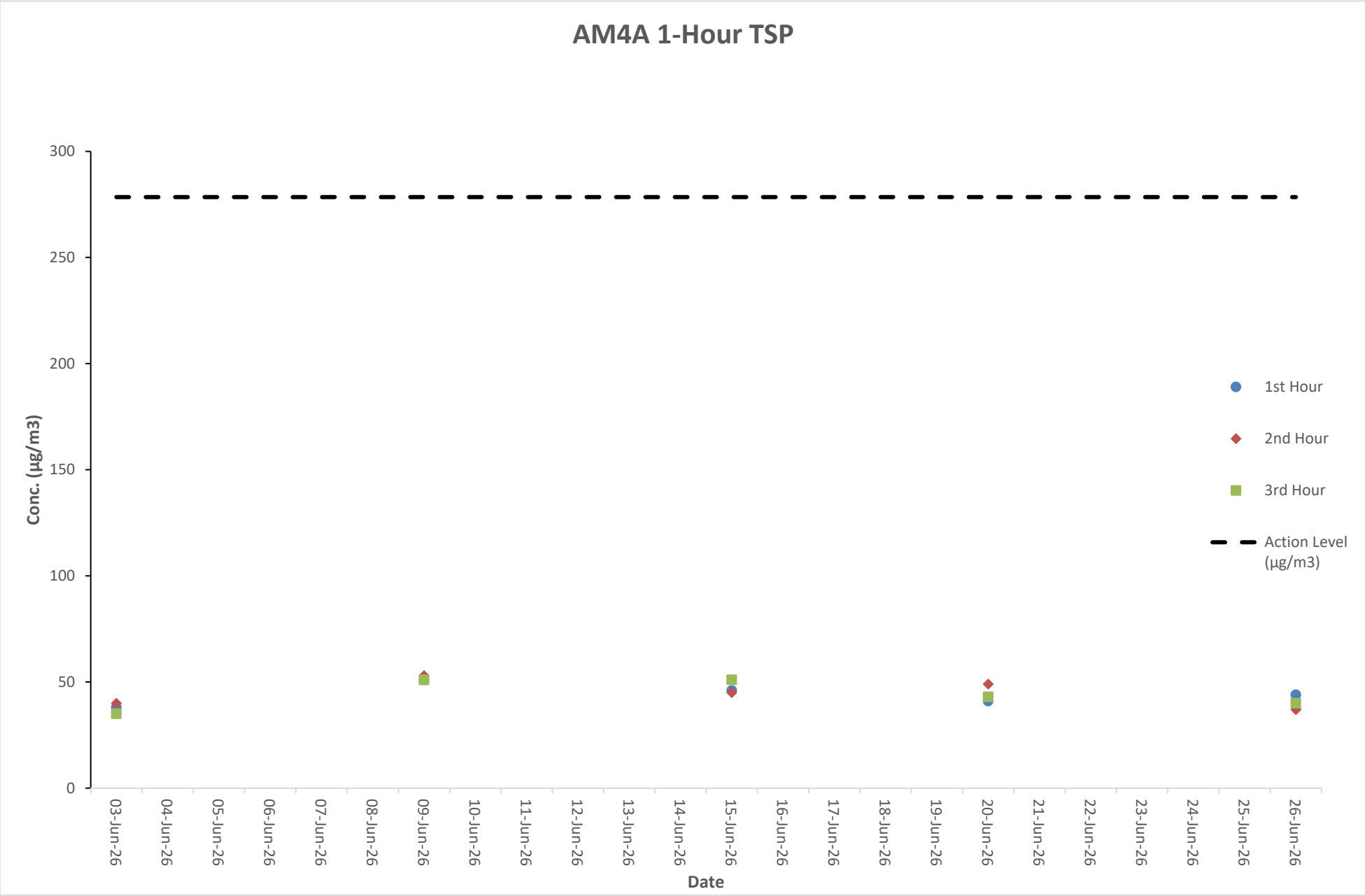
Graphical Presentation of Air Quality Monitoring Result at Station AM3A (1-hour TSP)



Air Quality Monitoring Result at Station AM4A (1-hour TSP)

Date	Weather Condition	Time		Conc. (µg/m3)			Action Level	Limit Level
		Start	Finish	1st Hour	2nd Hour	3rd Hour		
03-Jun-26	Cloudy	7:20	10:20	38	40	35	278.5	500
09-Jun-26	Cloudy	13:16	16:16	51	53	51	278.5	500
15-Jun-26	Cloudy	7:12	10:12	46	45	51	278.5	500
20-Jun-26	Cloudy	13:18	16:18	41	49	43	278.5	500
26-Jun-26	Cloudy	7:13	10:13	44	37	40	278.5	500

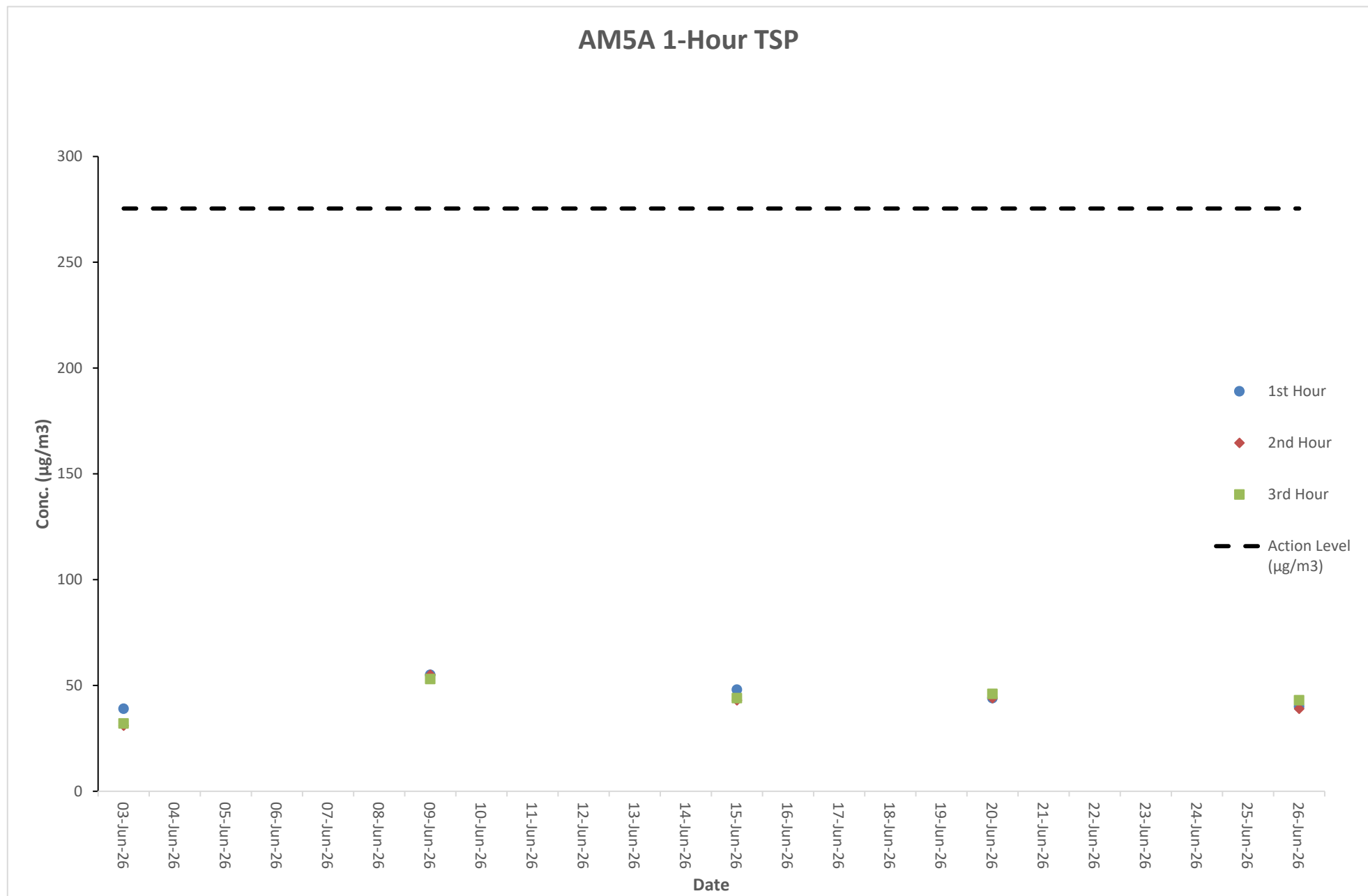
Graphical Presentation of Air Quality Monitoring Result at Station AM4A (1-hour TSP)



Air Quality Monitoring Result at Station AM5A (1-hour TSP)

Date	Weather Condition	Time		Conc. (µg/m3)			Action Level	Limit Level
		Start	Finish	1st Hour	2nd Hour	3rd Hour		
03-Jun-26	Cloudy	7:35	10:35	39	31	32	275.4	500
09-Jun-26	Cloudy	13:33	16:33	55	55	53	275.4	500
15-Jun-26	Cloudy	7:27	10:27	48	43	44	275.4	500
20-Jun-26	Cloudy	13:35	16:35	44	44	46	275.4	500
26-Jun-26	Cloudy	7:28	10:28	40	39	43	275.4	500

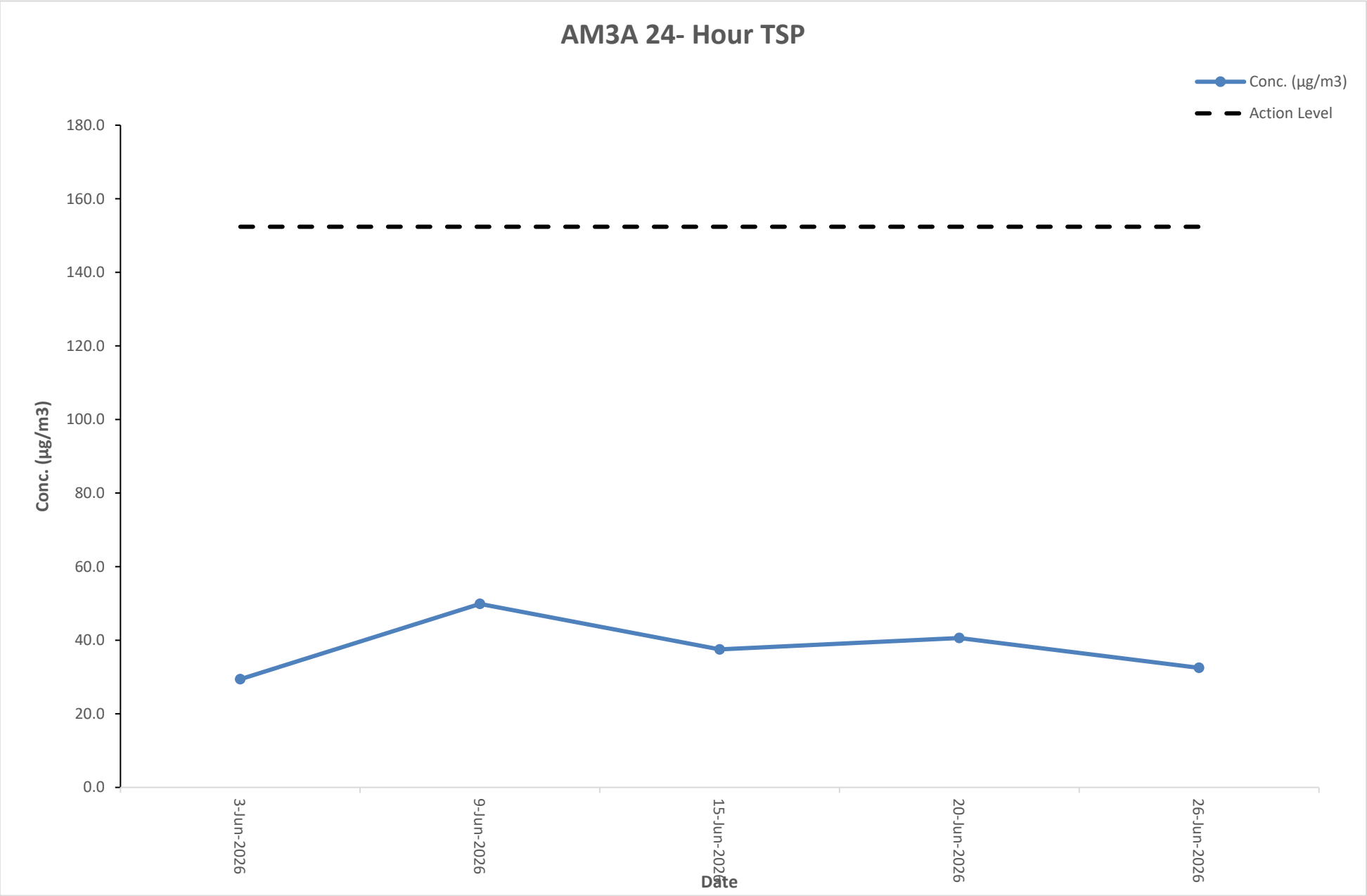
Graphical Presentation of Air Quality Monitoring Result at Station AM5A (1-hour TSP)



Air Quality Monitoring Result at Station AM3A (24-hour TSP)

Start		Finish		Filter Weight (g)		Elapsed Time Reading		Sampling Time (hrs)	Flow Rate (m ³ /min)			Conc. (µg/m3)	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
3-Jun-2026	10:00AM	4-Jun-2026	10:00AM	2.8074	2.8548	10057.8	10081.8	24	1.12	1.12	1.12	29.4	Cloudy	152.4	260
9-Jun-2026	10:00AM	10-Jun-2026	10:00AM	2.8058	2.8862	10081.8	10105.8	24	1.12	1.12	1.12	49.9	Rainy	152.4	260
15-Jun-2026	10:00AM	16-Jun-2026	10:00AM	2.8038	2.8642	10105.8	10129.8	24	1.12	1.12	1.12	37.5	Rainy	152.4	260
20-Jun-2026	10:00AM	21-Jun-2026	10:00AM	2.8053	2.8707	10129.8	10153.8	24	1.12	1.12	1.12	40.6	Rainy	152.4	260
26-Jun-2026	10:00AM	27-Jun-2026	10:00AM	2.8054	2.8578	10153.8	10177.8	24	1.12	1.12	1.12	32.5	Rainy	152.4	260

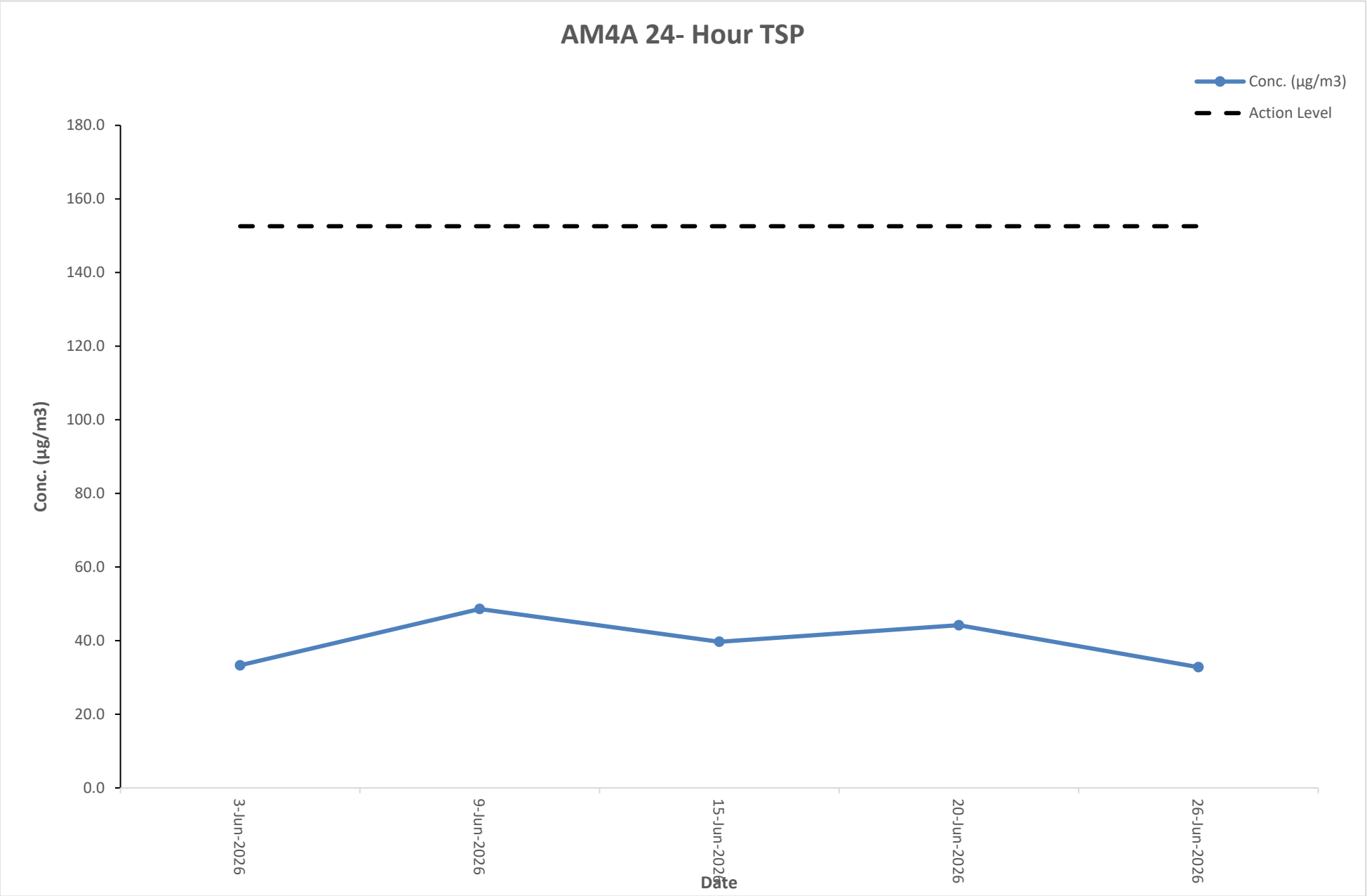
Graphical Presentation of Air Quality Monitoring Result at Station AM3A (24-hour TSP)



Air Quality Monitoring Result at Station AM4A (24-hour TSP)

Start		Finish		Filter Weight (g)		Elapsed Time Reading		Sampling Time (hrs)	Flow Rate (m ³ /min)			Conc. (µg/m3)	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
3-Jun-2026	10:00AM	4-Jun-2026	10:00AM	2.8023	2.8558	10477.4	10501.4	24	1.12	1.12	1.12	33.3	Cloudy	152.6	260
9-Jun-2026	10:00AM	10-Jun-2026	10:00AM	2.8065	2.8848	10501.4	10525.4	24	1.12	1.12	1.12	48.6	Rainy	152.6	260
15-Jun-2026	10:00AM	16-Jun-2026	10:00AM	2.8077	2.8715	10525.4	10549.4	24	1.12	1.12	1.12	39.7	Rainy	152.6	260
20-Jun-2026	10:00AM	21-Jun-2026	10:00AM	2.8081	2.8793	10549.4	10573.4	24	1.12	1.12	1.12	44.2	Rainy	152.6	260
26-Jun-2026	10:00AM	27-Jun-2026	10:00AM	2.8029	2.8556	10573.4	10597.4	24	1.12	1.12	1.12	32.8	Rainy	152.6	260

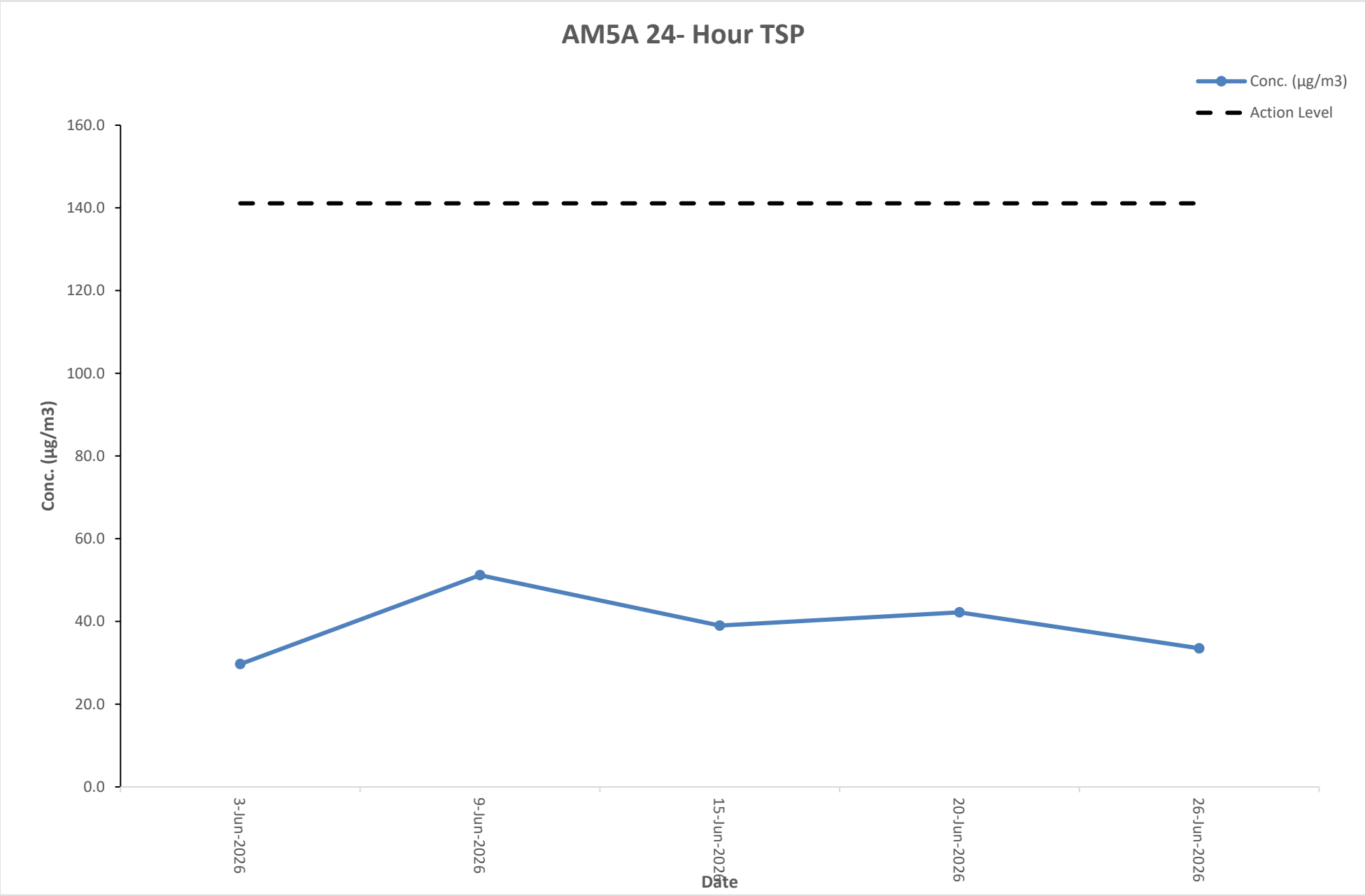
Graphical Presentation of Air Quality Monitoring Result at Station AM4A (24-hour TSP)



Air Quality Monitoring Result at Station AM5A (24-hour TSP)

Start		Finish		Filter Weight (g)		Elapsed Time Reading		Sampling Time (hrs)	Flow Rate (m ³ /min)			Conc. (µg/m3)	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
3-Jun-2026	10:00AM	4-Jun-2026	10:00AM	2.8078	2.8556	10615.6	10639.6	24	1.12	1.12	1.12	29.7	Cloudy	141.1	260
9-Jun-2026	10:00AM	10-Jun-2026	10:00AM	2.8058	2.8882	10639.6	10663.6	24	1.12	1.12	1.12	51.2	Rainy	141.1	260
15-Jun-2026	10:00AM	16-Jun-2026	10:00AM	2.8045	2.8673	10663.6	10687.6	24	1.12	1.12	1.12	39.0	Rainy	141.1	260
20-Jun-2026	10:00AM	21-Jun-2026	10:00AM	2.8050	2.8730	10687.6	10711.6	24	1.12	1.12	1.12	42.2	Rainy	141.1	260
26-Jun-2026	10:00AM	27-Jun-2026	10:00AM	2.8058	2.8598	10711.6	10735.6	24	1.12	1.12	1.12	33.5	Rainy	141.1	260

Graphical Presentation of Air Quality Monitoring Result at Station AM5A (24-hour TSP)



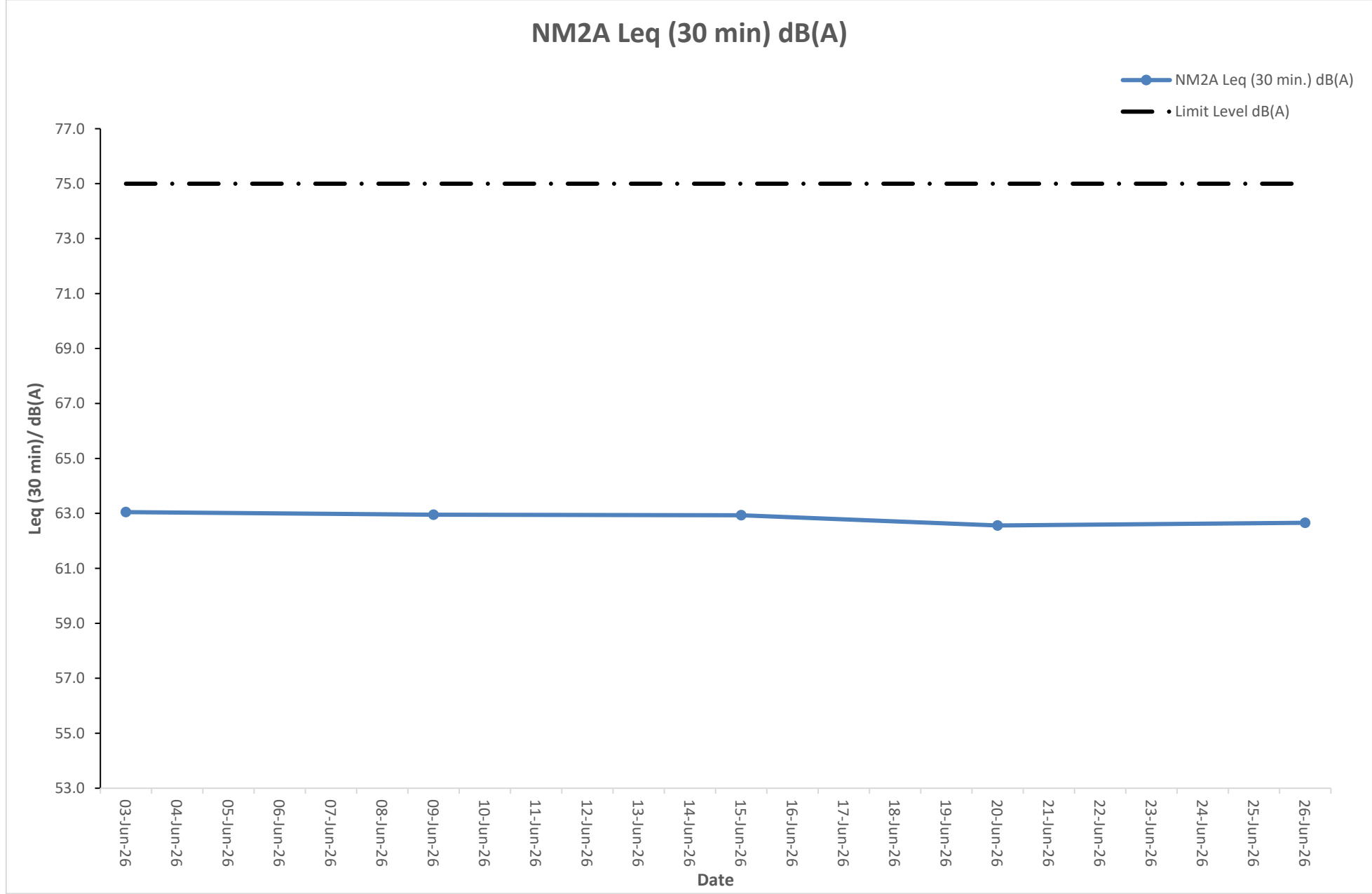
Noise Monitoring Result at Station NM2A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
03-Jun-26	7:12	64.5	61.3	63.0
03-Jun-26	7:17	64.5	61.0	
03-Jun-26	7:22	65.0	60.5	
03-Jun-26	7:27	64.0	60.7	
03-Jun-26	7:32	64.3	60.2	
03-Jun-26	7:37	64.4	60.3	
09-Jun-26	13:08	64.4	61.2	63.0
09-Jun-26	13:13	63.9	60.5	
09-Jun-26	13:18	64.2	61.5	
09-Jun-26	13:23	64.7	60.2	
09-Jun-26	13:28	64.0	60.9	
09-Jun-26	13:33	65.0	60.4	
15-Jun-26	7:04	64.6	60.4	62.9
15-Jun-26	7:09	64.9	61.6	
15-Jun-26	7:14	64.4	60.4	
15-Jun-26	7:19	65.0	60.4	
15-Jun-26	7:24	63.9	60.3	
15-Jun-26	7:29	64.5	60.7	
20-Jun-26	13:10	65.0	60.3	62.6
20-Jun-26	13:15	64.5	61.1	
20-Jun-26	13:20	64.3	60.3	
20-Jun-26	13:25	64.0	61.0	
20-Jun-26	13:30	64.7	61.3	
20-Jun-26	13:35	64.2	61.2	
26-Jun-26	7:05	64.8	61.5	62.7
26-Jun-26	7:10	64.0	61.1	
26-Jun-26	7:15	64.9	61.5	
26-Jun-26	7:20	64.3	60.8	
26-Jun-26	7:25	63.8	60.2	
26-Jun-26	7:30	64.8	60.4	



The station set-up of a façade measurement at station NM2A.

Graphical Presentation of Noise Monitoring Result at Station NM2A



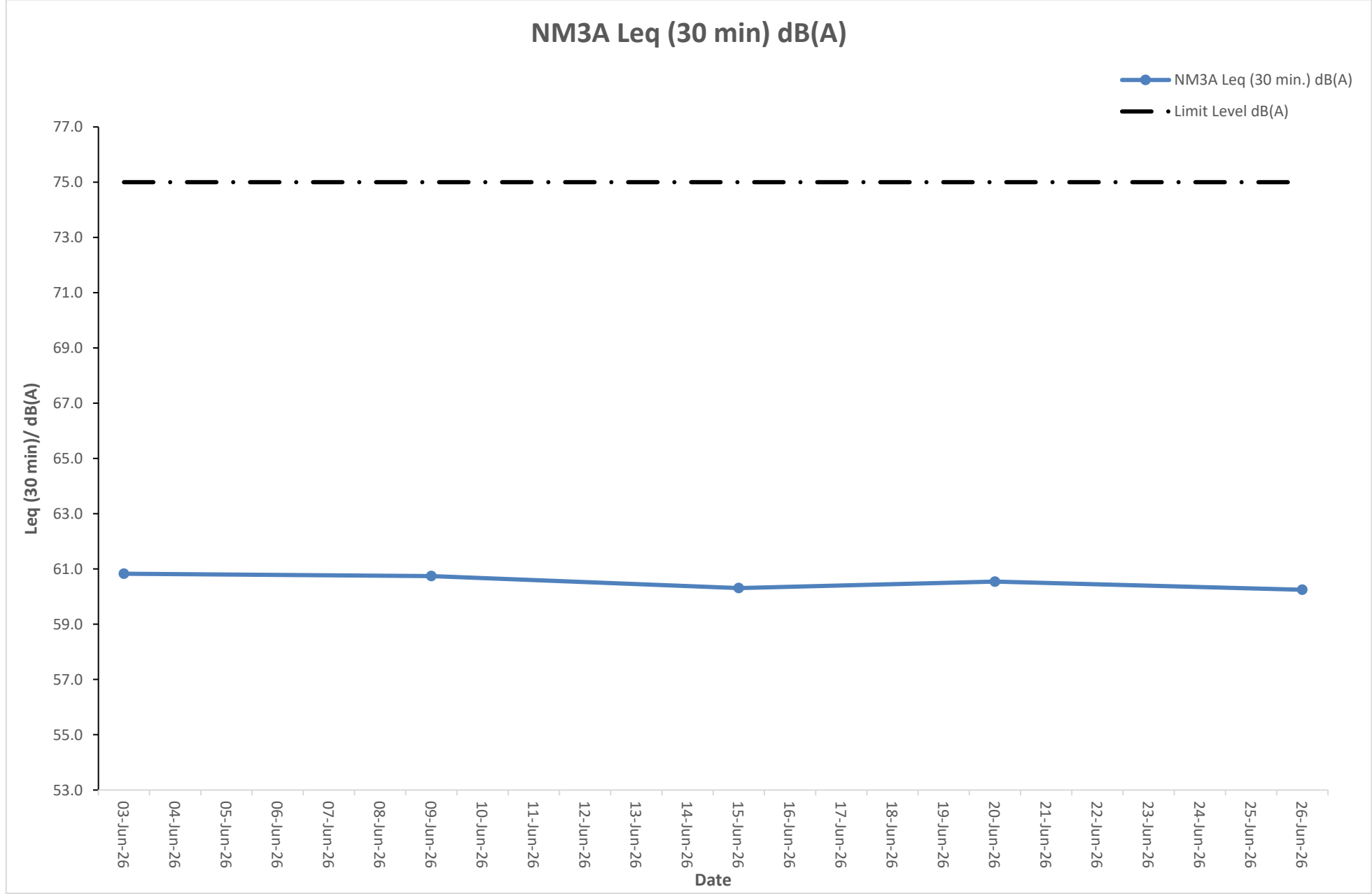
Noise Monitoring Result at Station NM3A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
03-Jun-26	8:44	62.6	56.9	60.8
03-Jun-26	8:49	63.7	56.2	
03-Jun-26	8:54	62.3	57.6	
03-Jun-26	8:59	63.6	57.2	
03-Jun-26	9:04	62.4	56.5	
03-Jun-26	9:09	62.4	56.7	
09-Jun-26	14:30	63.4	56.2	60.7
09-Jun-26	14:35	62.3	57.4	
09-Jun-26	14:40	63.1	57.2	
09-Jun-26	14:45	63.4	57.1	
09-Jun-26	14:50	62.8	57.4	
09-Jun-26	14:55	63.3	57.3	
15-Jun-26	8:36	62.0	57.6	60.3
15-Jun-26	8:41	62.6	57.7	
15-Jun-26	8:46	63.6	56.8	
15-Jun-26	8:51	63.1	56.7	
15-Jun-26	8:56	62.3	56.1	
15-Jun-26	9:01	62.1	56.6	
20-Jun-26	14:36	63.8	57.7	60.5
20-Jun-26	14:41	62.7	57.8	
20-Jun-26	14:46	62.2	57.3	
20-Jun-26	14:51	62.4	57.8	
20-Jun-26	14:56	63.4	56.2	
20-Jun-26	15:01	63.2	56.9	
26-Jun-26	8:34	62.5	57.3	60.3
26-Jun-26	8:39	63.2	56.4	
26-Jun-26	8:44	63.4	56.8	
26-Jun-26	8:49	63.8	57.4	
26-Jun-26	8:54	63.5	56.0	
26-Jun-26	8:59	63.4	56.4	



The station set-up of a façade measurement at station NM3A.

Graphical Presentation of Noise Monitoring Result at Station NM3A



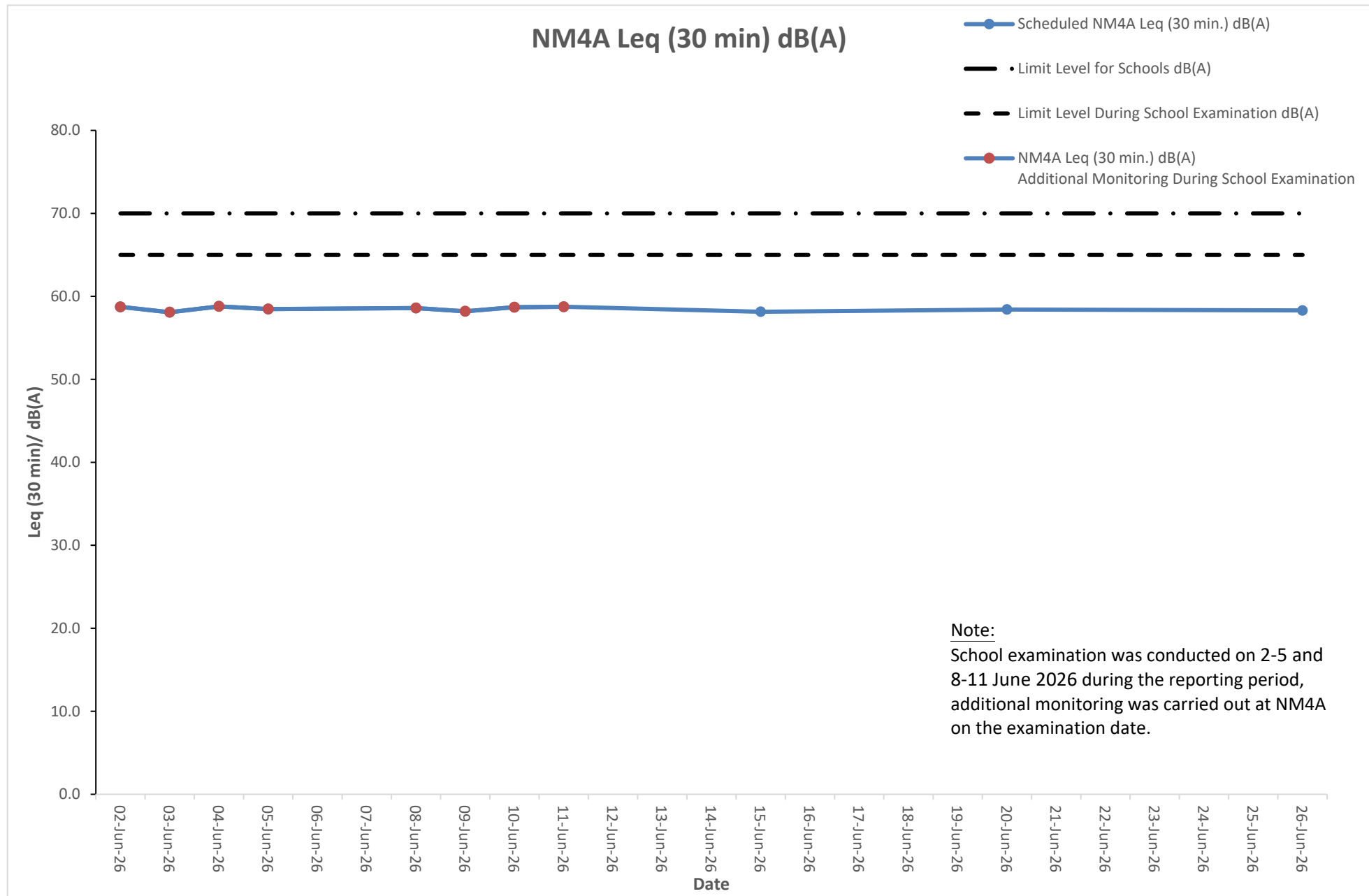
Noise Monitoring Result at Station NM4A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
03-Jun-26	9:20	60.5	56.6	58.3
03-Jun-26	9:25	60.1	56.3	
03-Jun-26	9:30	59.3	56.4	
03-Jun-26	9:35	59.9	56.2	
03-Jun-26	9:40	59.3	57.1	
03-Jun-26	9:45	60.3	56.3	
09-Jun-26	15:06	60.2	56.0	58.2
09-Jun-26	15:11	59.8	56.1	
09-Jun-26	15:16	60.0	55.9	
09-Jun-26	15:21	59.9	55.7	
09-Jun-26	15:26	60.2	55.8	
09-Jun-26	15:31	59.3	56.7	
15-Jun-26	9:12	60.6	56.7	58.6
15-Jun-26	9:17	60.1	56.1	
15-Jun-26	9:22	60.2	56.1	
15-Jun-26	9:27	60.4	56.7	
15-Jun-26	9:32	59.6	56.7	
15-Jun-26	9:37	59.6	56.6	
20-Jun-26	15:13	60.5	56.6	58.0
20-Jun-26	15:18	59.8	56.3	
20-Jun-26	15:23	59.2	56.2	
20-Jun-26	15:28	60.3	56.0	
20-Jun-26	15:33	60.1	56.7	
20-Jun-26	15:38	59.4	56.0	
26-Jun-26	9:10	60.4	56.7	58.3
26-Jun-26	9:15	59.4	56.0	
26-Jun-26	9:20	59.6	55.8	
26-Jun-26	9:25	60.5	56.6	
26-Jun-26	9:30	59.6	56.3	
26-Jun-26	9:35	59.6	56.9	



The station set-up of a façade measurement at station NM4A.

Graphical Presentation of Noise Monitoring Result at Station NM4A



Noise Monitoring Result at Station NM5A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)	Leq (30 min.) +3 dB(A)
03-Jun-26	8:04	61.6	58.7	60.4	63.4
03-Jun-26	8:09	62.0	58.2		
03-Jun-26	8:14	61.4	59.1		
03-Jun-26	8:19	62.1	57.9		
03-Jun-26	8:24	61.5	57.9		
03-Jun-26	8:29	61.4	58.8		
09-Jun-26	13:49	61.5	58.7	60.1	63.1
09-Jun-26	13:54	61.4	58.9		
09-Jun-26	13:59	61.6	58.4		
09-Jun-26	14:04	61.6	58.8		
09-Jun-26	14:09	62.6	58.5		
09-Jun-26	14:14	61.6	58.0		
15-Jun-26	7:54	62.8	57.4	60.2	63.2
15-Jun-26	7:59	61.8	57.6		
15-Jun-26	8:04	62.1	57.8		
15-Jun-26	8:09	62.0	57.7		
15-Jun-26	8:14	61.4	57.9		
15-Jun-26	8:19	62.4	57.4		
20-Jun-26	13:58	61.4	57.8	60.5	63.5
20-Jun-26	14:03	62.3	58.2		
20-Jun-26	14:08	62.1	58.5		
20-Jun-26	14:13	62.5	59.3		
20-Jun-26	14:18	62.5	58.0		
20-Jun-26	14:23	61.6	58.8		
26-Jun-26	7:54	62.1	58.1	60.3	63.3
26-Jun-26	7:59	61.6	57.6		
26-Jun-26	8:04	61.8	59.1		
26-Jun-26	8:09	61.8	57.7		
26-Jun-26	8:14	61.7	58.9		
26-Jun-26	8:19	61.5	59.3		

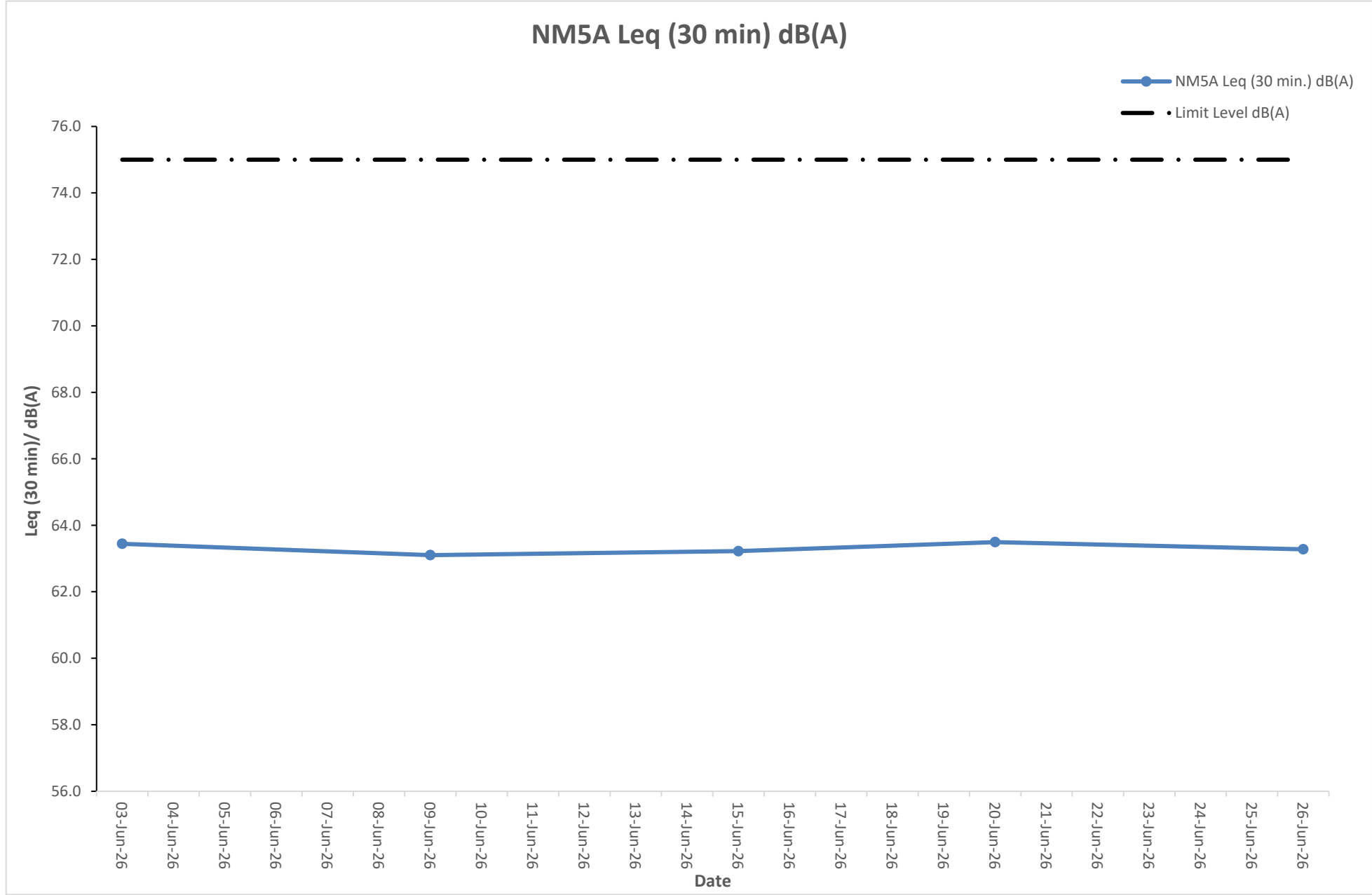
Remarks:

+3dB(A) correction was applied to free-field measurement.



The station set-up of a free-field measurement at station NM5A.

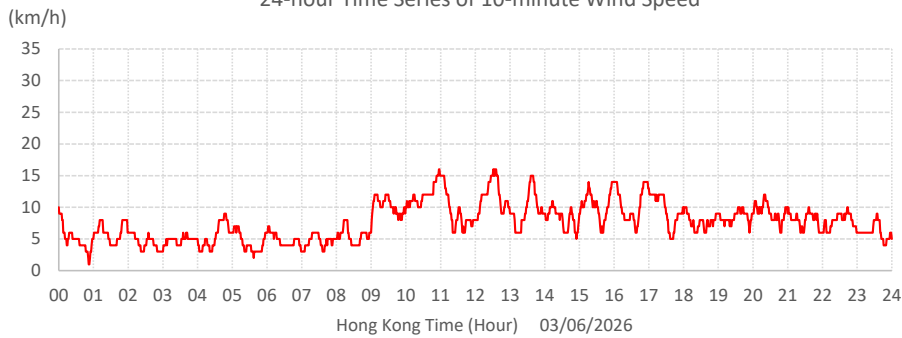
Graphical Presentation of Noise Monitoring Result at Station NM5A



H. Meteorological Data Extracted from Hong Kong Observatory

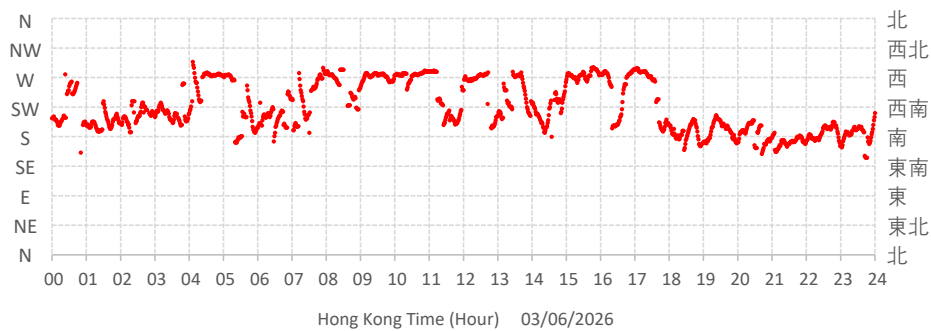
Winds at King's Park Meteorological Station

24-hour Time Series of 10-minute Wind Speed



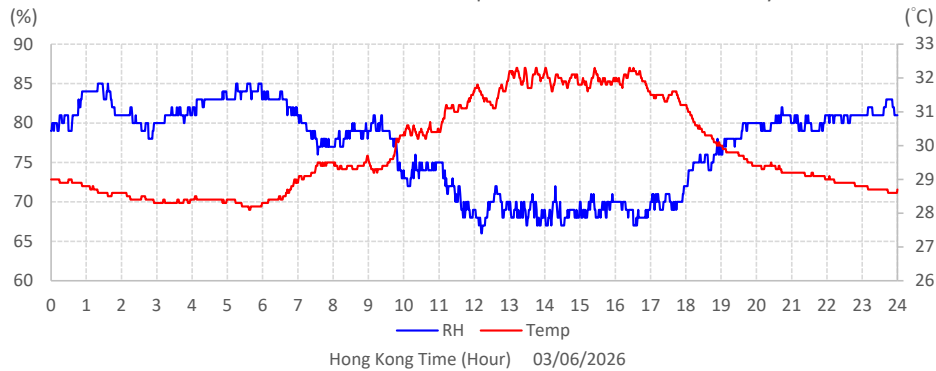
Winds at King's Park Meteorological Station

24-hour Time Series of 10-minute Mean Wind Direction



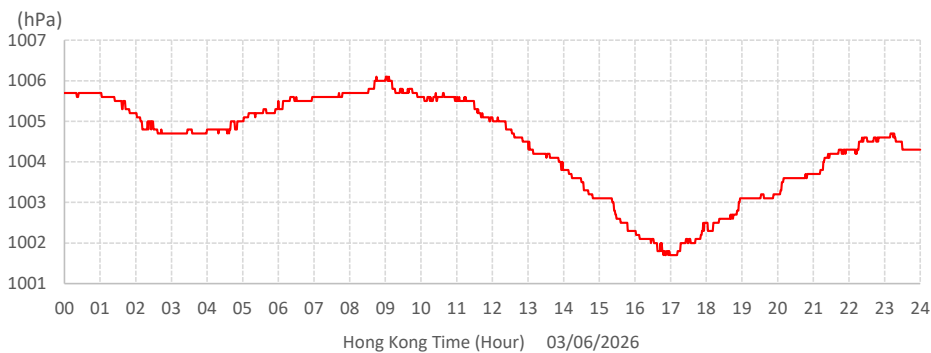
Air Temperature at King's Park Meteorological Station

24-hour Time Series of Air Temperature and Relative Humidity



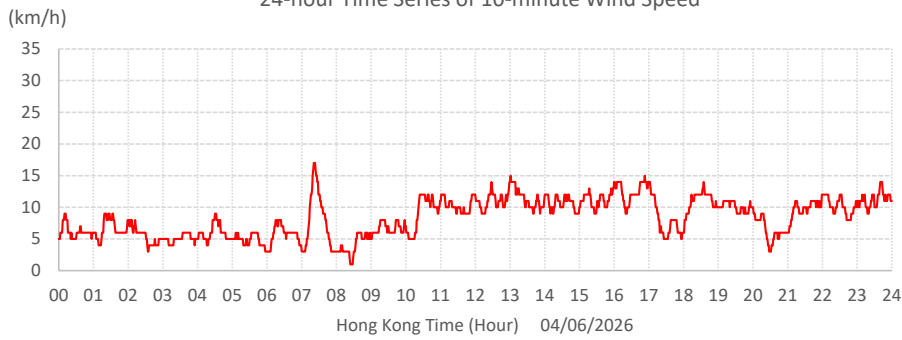
Mean Sea Level Pressure at King's Park Meteorological Station

24-hour Time Series of Mean Sea Level Pressure



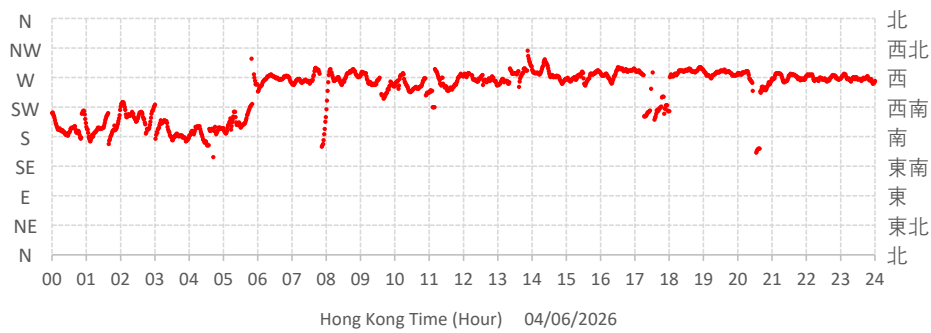
Winds at King's Park Meteorological Station

24-hour Time Series of 10-minute Wind Speed



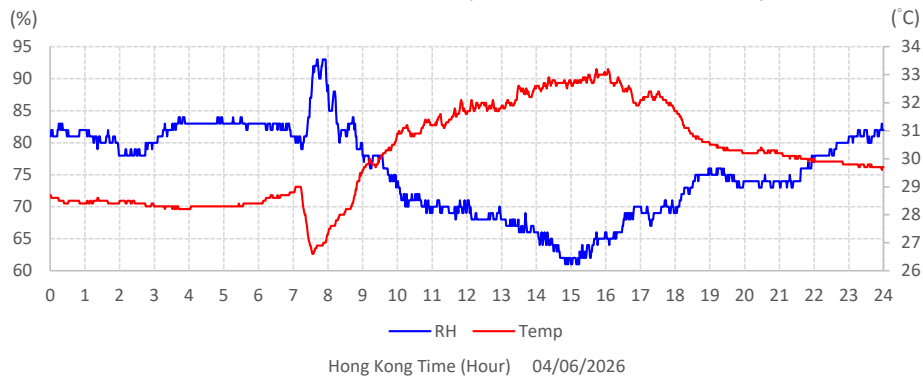
Winds at King's Park Meteorological Station

24-hour Time Series of 10-minute Mean Wind Direction



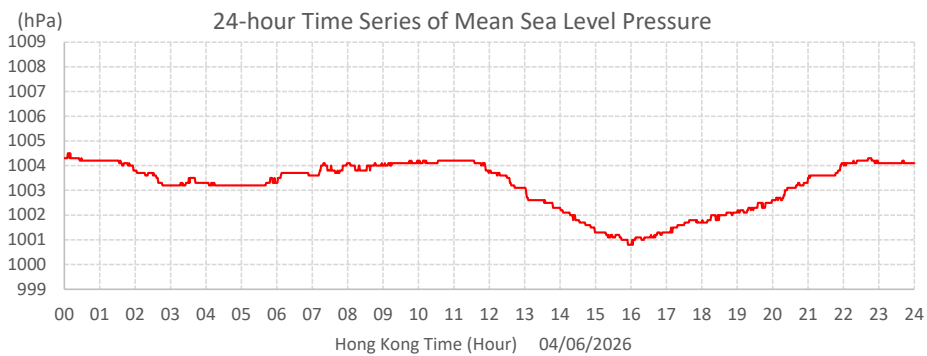
Air Temperature at King's Park Meteorological Station

24-hour Time Series of Air Temperature and Relative Humidity



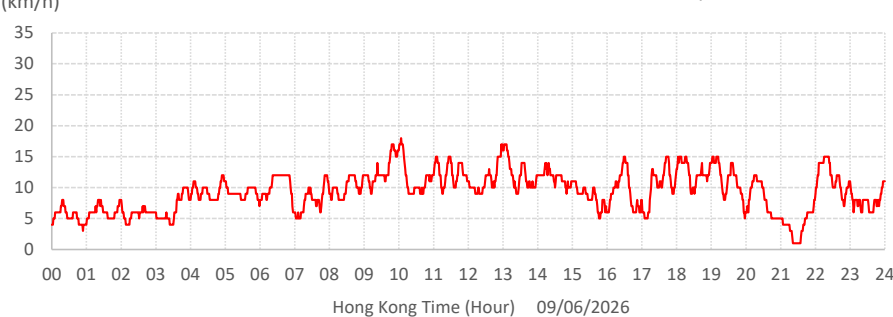
Mean Sea Level Pressure at King's Park Meteorological Station

24-hour Time Series of Mean Sea Level Pressure



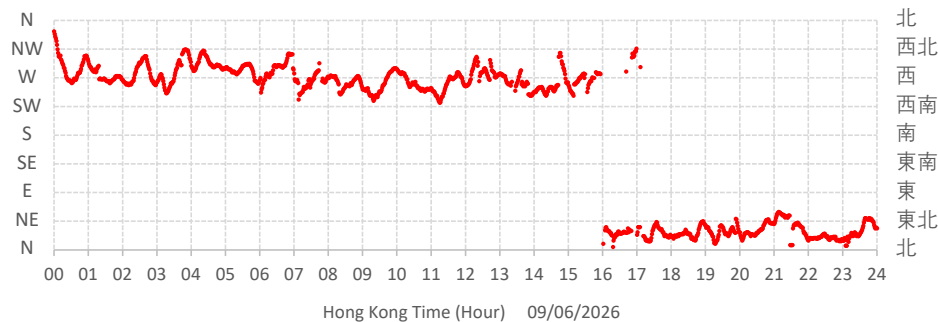
Winds at King's Park Meteorological Station

24-hour Time Series of 10-minute Wind Speed



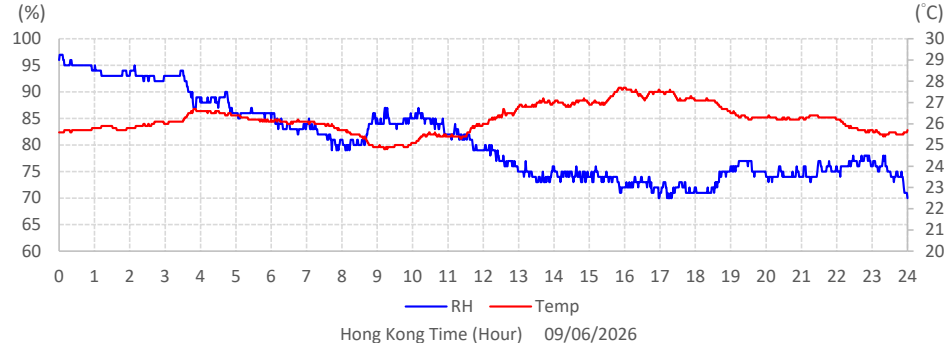
Winds at King's Park Meteorological Station

24-hour Time Series of 10-minute Mean Wind Direction



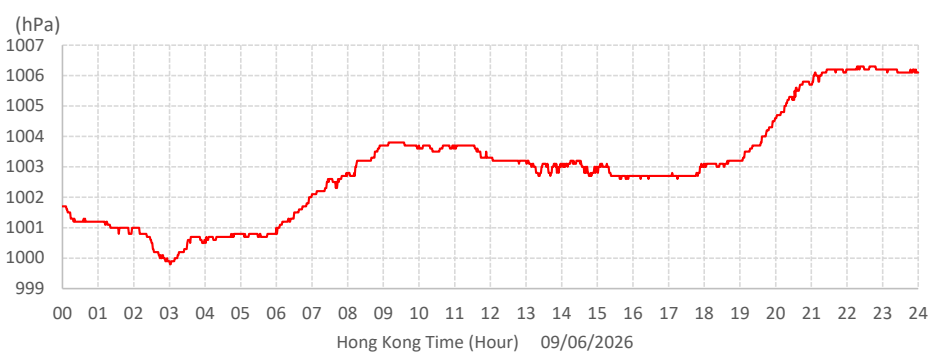
Air Temperature at King's Park Meteorological Station

24-hour Time Series of Air Temperature and Relative Humidity



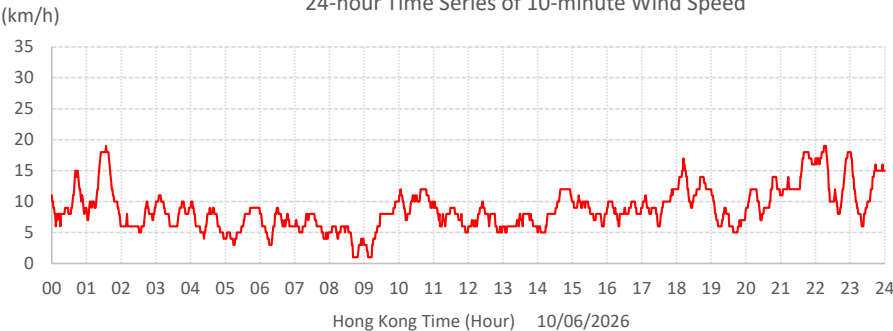
Mean Sea Level Pressure at King's Park Meteorological Station

24-hour Time Series of Mean Sea Level Pressure



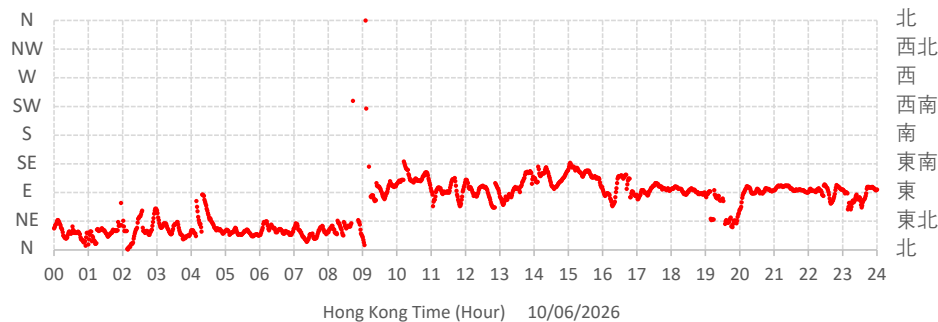
Winds at King's Park Meteorological Station

24-hour Time Series of 10-minute Wind Speed



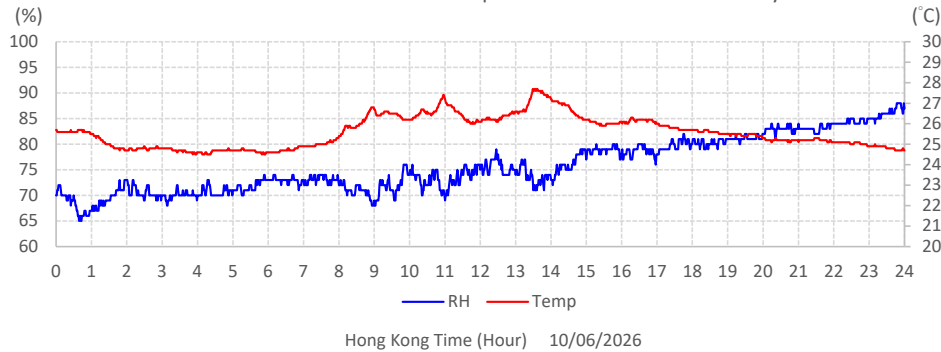
Winds at King's Park Meteorological Station

24-hour Time Series of 10-minute Mean Wind Direction



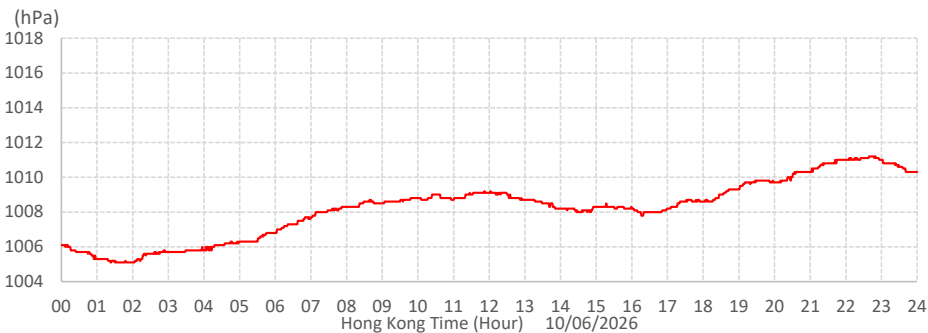
Air Temperature at King's Park Meteorological Station

24-hour Time Series of Air Temperature and Relative Humidity



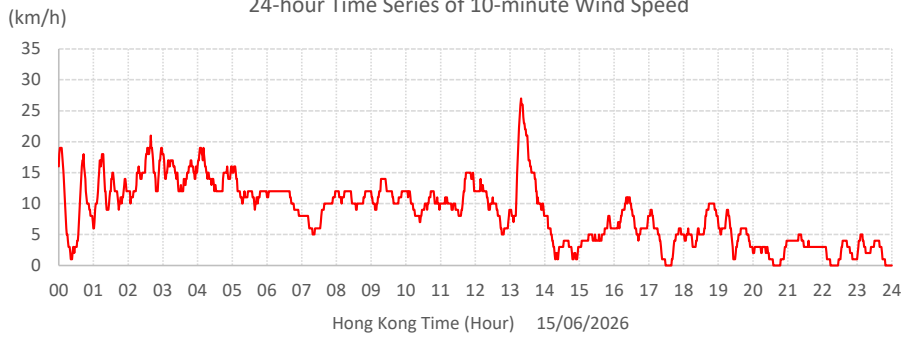
Mean Sea Level Pressure at King's Park Meteorological Station

24-hour Time Series of Mean Sea Level Pressure



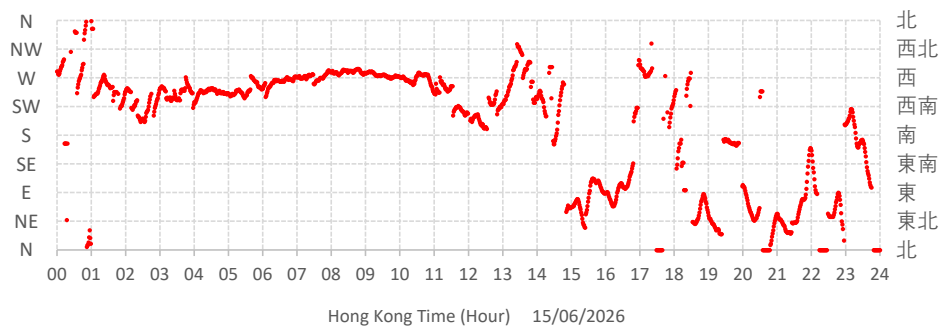
Winds at King's Park Meteorological Station

24-hour Time Series of 10-minute Wind Speed



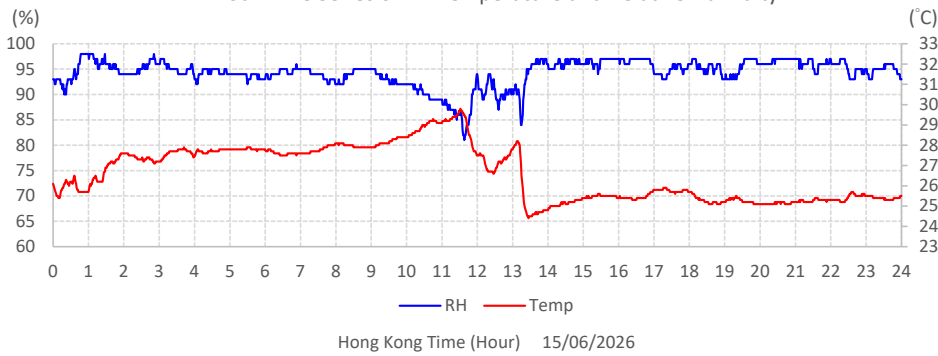
Winds at King's Park Meteorological Station

24-hour Time Series of 10-minute Mean Wind Direction



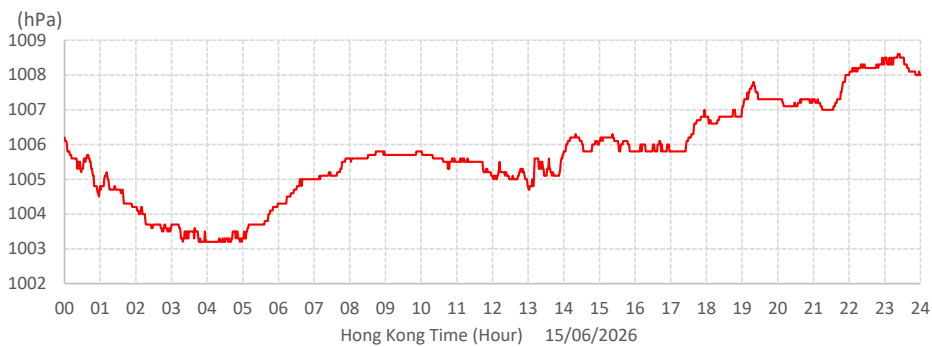
Air Temperature at King's Park Meteorological Station

24-hour Time Series of Air Temperature and Relative Humidity



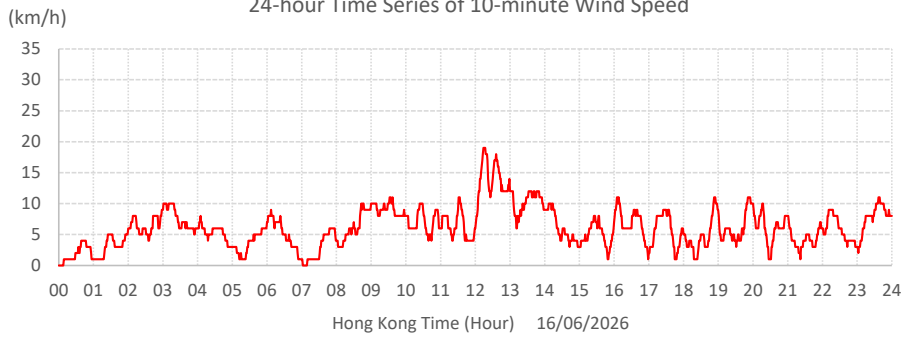
Mean Sea Level Pressure at King's Park Meteorological Station

24-hour Time Series of Mean Sea Level Pressure



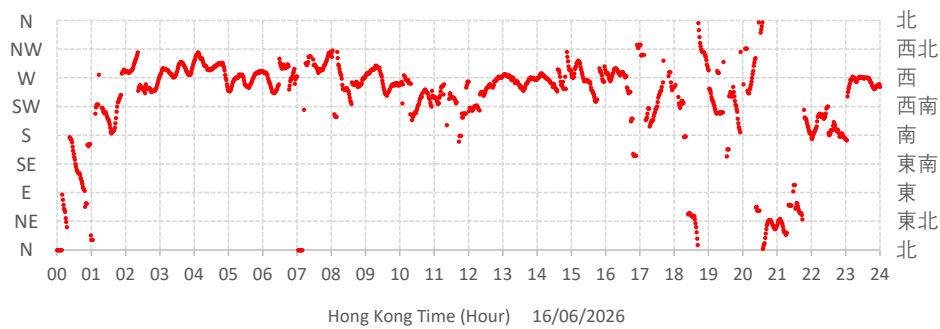
Winds at King's Park Meteorological Station

24-hour Time Series of 10-minute Wind Speed



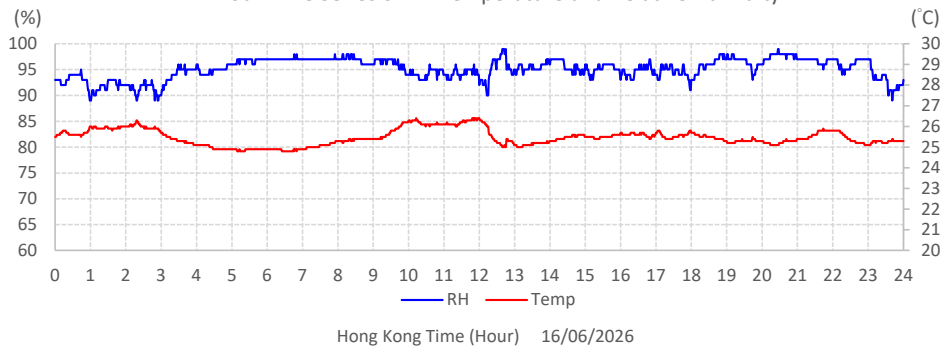
Winds at King's Park Meteorological Station

24-hour Time Series of 10-minute Mean Wind Direction



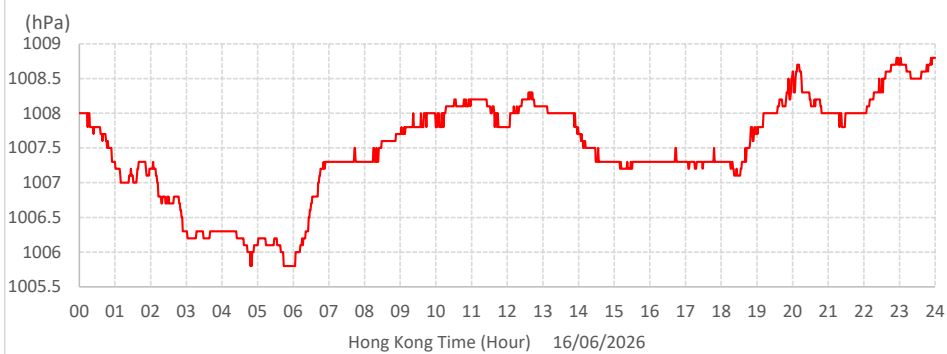
Air Temperature at King's Park Meteorological Station

24-hour Time Series of Air Temperature and Relative Humidity



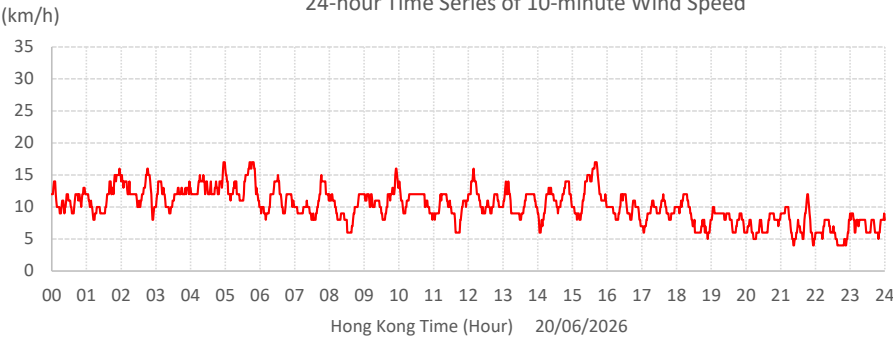
Mean Sea Level Pressure at King's Park Meteorological Station

24-hour Time Series of Mean Sea Level Pressure



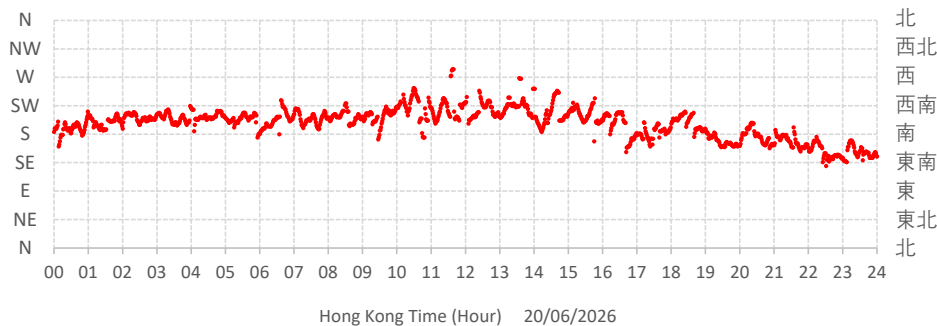
Winds at King's Park Meteorological Station

24-hour Time Series of 10-minute Wind Speed



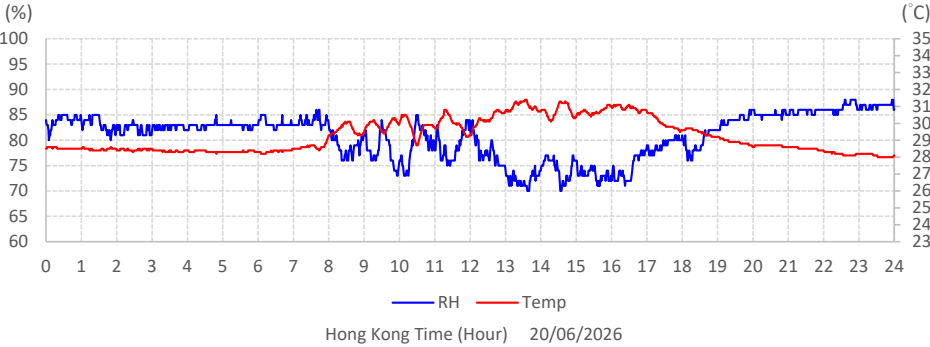
Winds at King's Park Meteorological Station

24-hour Time Series of 10-minute Mean Wind Direction



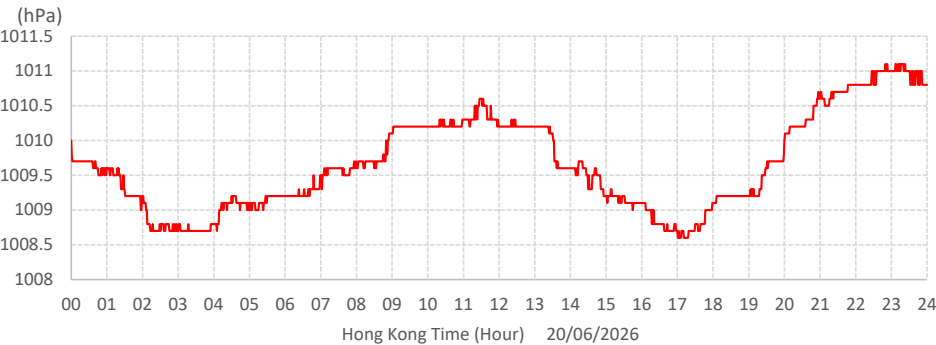
Air Temperature at King's Park Meteorological Station

24-hour Time Series of Air Temperature and Relative Humidity



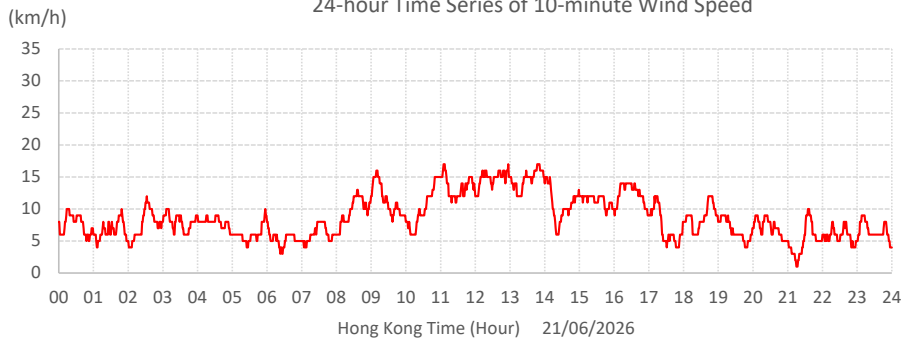
Mean Sea Level Pressure at King's Park Meteorological Station

24-hour Time Series of Mean Sea Level Pressure



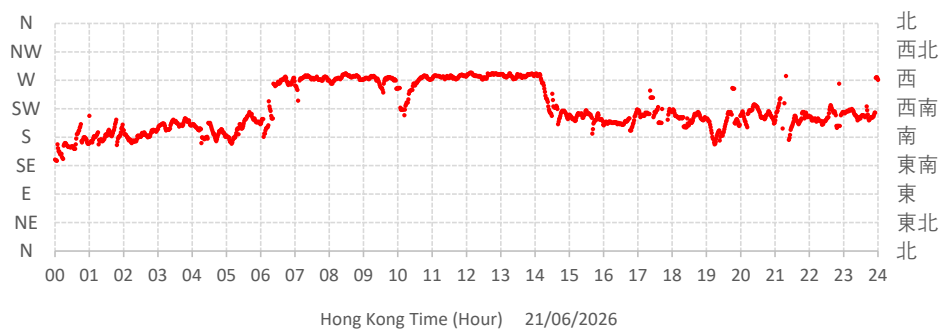
Winds at King's Park Meteorological Station

24-hour Time Series of 10-minute Wind Speed



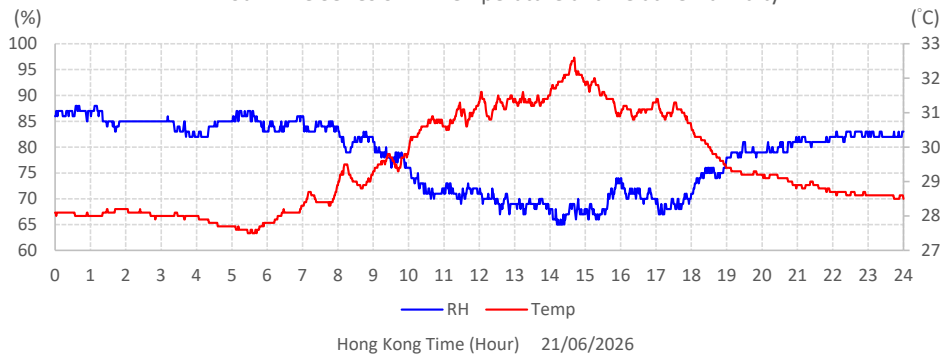
Winds at King's Park Meteorological Station

24-hour Time Series of 10-minute Mean Wind Direction



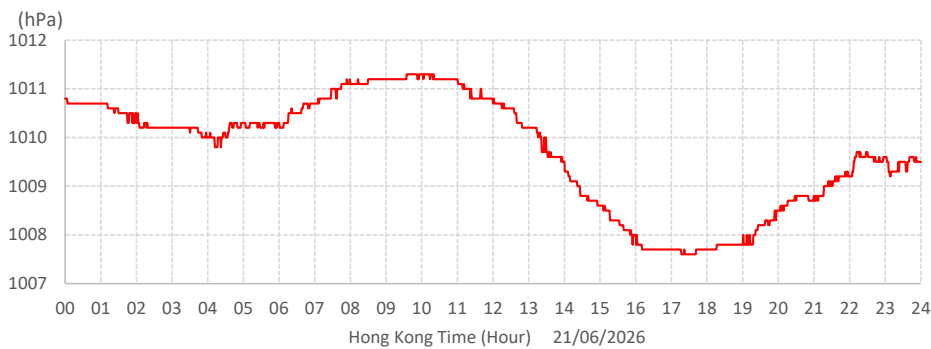
Air Temperature at King's Park Meteorological Station

24-hour Time Series of Air Temperature and Relative Humidity



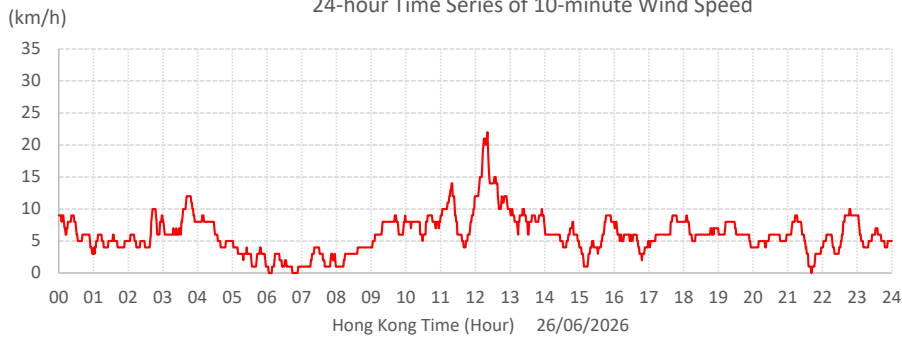
Mean Sea Level Pressure at King's Park Meteorological Station

24-hour Time Series of Mean Sea Level Pressure



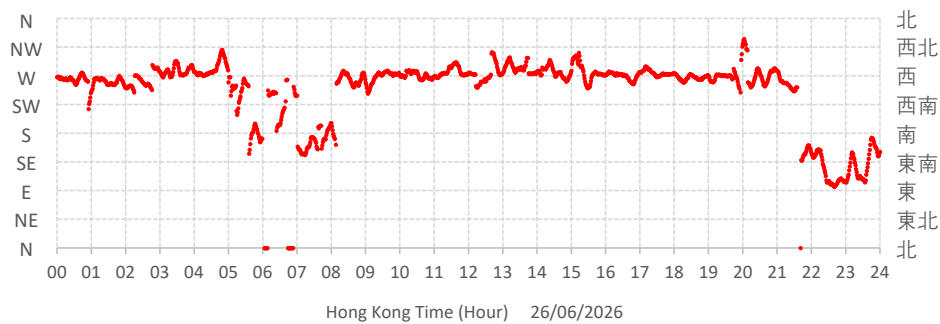
Winds at King's Park Meteorological Station

24-hour Time Series of 10-minute Wind Speed



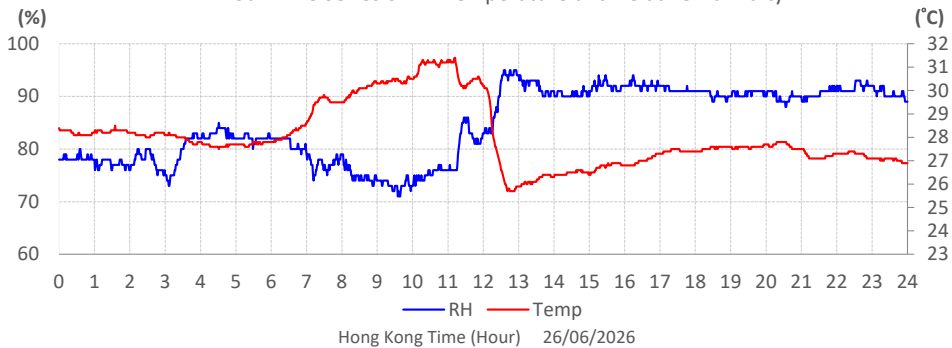
Winds at King's Park Meteorological Station

24-hour Time Series of 10-minute Mean Wind Direction



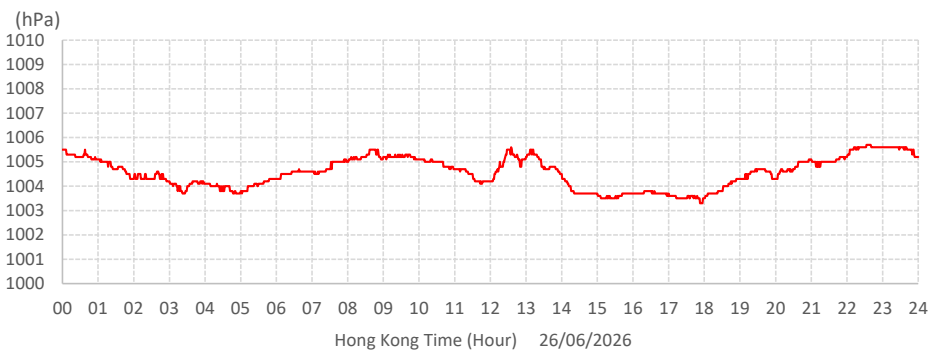
Air Temperature at King's Park Meteorological Station

24-hour Time Series of Air Temperature and Relative Humidity



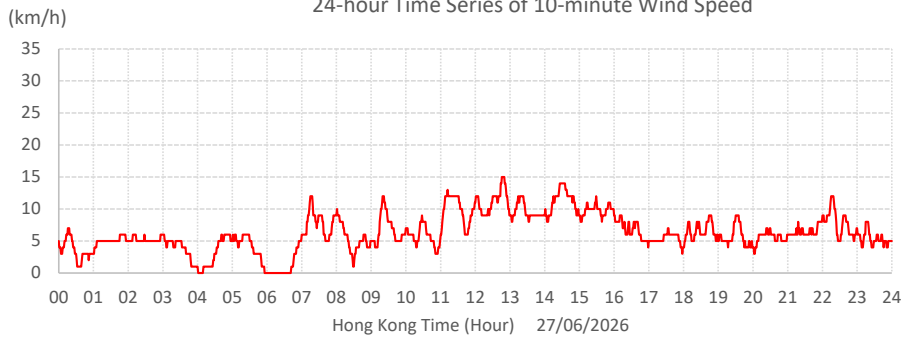
Mean Sea Level Pressure at King's Park Meteorological Station

24-hour Time Series of Mean Sea Level Pressure



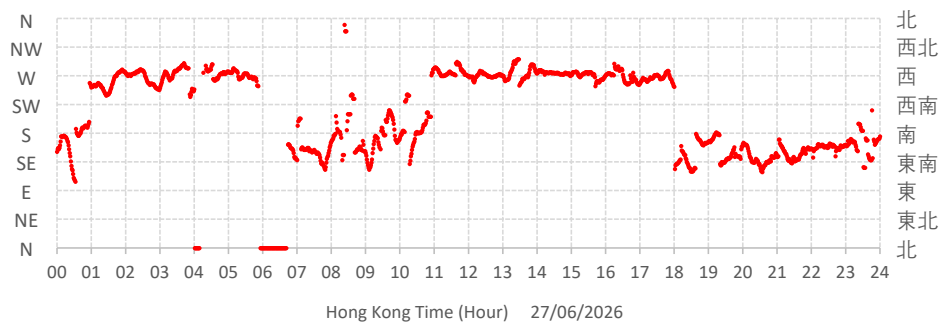
Winds at King's Park Meteorological Station

24-hour Time Series of 10-minute Wind Speed



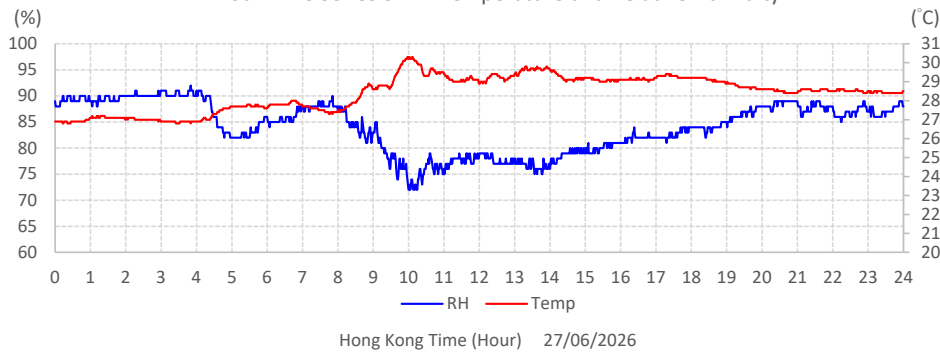
Winds at King's Park Meteorological Station

24-hour Time Series of 10-minute Mean Wind Direction



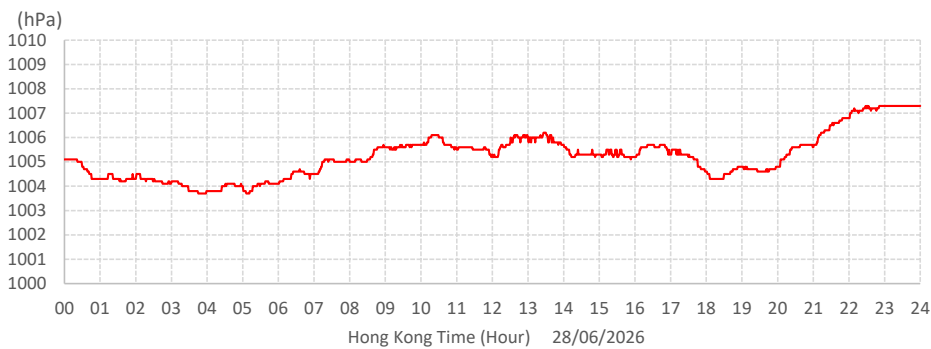
Air Temperature at King's Park Meteorological Station

24-hour Time Series of Air Temperature and Relative Humidity



Mean Sea Level Pressure at King's Park Meteorological Station

24-hour Time Series of Mean Sea Level Pressure



I. Waste Flow table

Table I-1: Monthly Waste Flow Table for Zones 2A, 2B & 2C

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Materials Generated Monthly					
	Total Quantity Generated	Hard Rocks and Large Broken	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facility	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
2024													
Jul	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep	131.67	0.00	0.00	0.00	131.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.24
Oct	241.28	0.00	0.00	0.00	231.10	10.18	0.00	0.00	0.00	0.00	0.00	0.00	3.95
Nov	5383.52	0.00	0.00	4340.40	1043.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	155.23
Dec	5757.15	0.00	0.00	3082.05	2675.10	0.00	0.00	151.49	0.00	0.00	0.00	0.80	38.92
Sub-total (2024)	11513.62	0.00	0.00	7422.45	4080.99	10.18	0.00	151.49	0.00	0.00	0.00	0.80	214.34
2025													
Jan	4500.55	0.00	0.00	2090.69	2391.44	18.42	0.00	147.67	0.00	0.00	0.00	0.00	29.39
Feb	2785.60	0.00	0.00	0.00	2785.60	0.00	0.00	91.33	0.00	0.00	0.00	0.00	21.33
Mar	3263.24	0.00	0.00	0.00	3263.24	0.00	0.00	4.70	0.00	0.00	0.00	0.00	20.17
Apr	3696.49	0.00	0.00	0.00	3689.80	6.69	0.00	8.86	0.00	0.00	0.00	0.40	71.98
May	5148.11	0.00	0.00	155.70	4992.41	0.00	0.00	6.09	0.00	0.00	0.00	0.00	37.06
Jun	9607.19	0.00	0.00	2846.65	6760.54	0.00	0.00	3.87	0.00	0.00	0.00	0.00	28.58
Jul	13836.49	0.00	0.00	3799.18	10037.31	0.00	0.00	4.19	0.00	0.00	0.00	0.00	84.85
Aug	16769.40	0.00	0.00	1935.66	14833.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.59
Sep	16533.90	0.00	0.00	4231.18	12302.72	0.00	0.00	46.33	0.00	0.00	0.00	0.00	70.92
Oct	25286.05	0.00	0.00	12356.51	12929.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.72
Nov	26898.87	0.00	0.00	12312.60	14558.72	27.55	0.00	154.33	0.00	0.00	0.00	0.00	17.15
Dec	29184.17	0.00	0.00	12258.93	16864.40	60.84	0.00	62.95	0.00	0.00	0.00	0.00	32.55
Sub-total	157510.06	0.00	0.00	51987.10	105409.46	113.50	0.00	530.32	0.00	0.00	0.00	0.40	494.29
2026													
Jan	42458.10	0.00	0.00	4986.25	37423.56	48.29	0.00	0.00	0.00	0.00	0.00	1.40	262.24
Feb	12783.36	0.00	0.00	3467.05	9282.74	33.57	0.00	0.00	0.00	0.00	0.00	1.40	45.23
Mar	40698.86	0.00	0.00	14555.65	26000.83	142.38	0.00	0.00	0.00	0.00	0.00	0.00	69.95
Apr	70060.05	0.00	0.00	48377.85	21536.93	145.27	0.00	0.00	0.00	0.00	0.00	0.00	49.47
May	74100.98	0.00	0.00	45313.46	28721.07	66.45	0.00	22.45	0.00	0.00	0.00	0.00	46.44
Jun	123508.26	0.00	0.00	46176.60	77331.66	0.00	0.00	80.40	0.00	0.00	0.00	0.00	47.02
Jul	0.00												
Aug	0.00												
Sep	0.00												
Oct	0.00												
Nov	0.00												
Dec	0.00												
Sub-total (2026)	363609.61	0.00	0.00	162876.86	200296.79	435.96	0.00	102.85	0.00	0.00	0.00	2.80	520.35
Total	532633.29	0.00	0.00	222286.41	309787.24	559.64	0.00	784.66	0.00	0.00	0.00	4.00	1228.98

Note:

- 65976.06 tonnes and 11355.6 tonnes of inert C&D material were disposed of as public fill to Tseung Kwan O Area 137 Public Fill and Tuen Mun Area 38 Public Fill respectively in the reporting month.

- 13 cargos among 29 Jul 25 and 02 Aug 25 are recorded by the weight measurement device on dump truck due to malfunction of TKO137's weightbridge.

J. Environmental Mitigation Measures – Implementation Status

Table J-1: Environmental Mitigation Measures Implementation Status (June 2026)

[illegible]

EM&A Ref. Recommendation Measures	Implementation Stage Zone 2A, 2B & 2C
activity on the site or part of the site where the exposed earth lies.	
<i>Loading, Unloading or Transfer of Dusty Materials</i>	✓
All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet.	
<i>Debris Handling</i>	✓
- Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides. - Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped.	N/A No debris chute on-site
<i>Transport of Dusty Materials</i>	✓
Vehicle used for transporting dusty materials/spoils should be covered with tarpaulin or similar material. The cover should extend over the edges of the sides and tailboards.	
<i>Wheel washing</i>	✓
Vehicle wheel washing facilities should be provided at each construction site exit. Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels.	
<i>Use of vehicles</i>	✓
The speed of the trucks within the site should be controlled to about 10km/hour in order to reduce adverse dust impacts and secure the safe movement around the site.	
Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels.	✓
Where a vehicle leaving the construction site is carrying a load of dusty materials, the load should be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle.	✓
<i>Site hoarding</i>	✓
Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit.	

EM&A Ref. Recommendation Measures	Implementation Stage Zone 2A, 2B & 2C
2.1 Best Practicable Means for Cement Works (Concrete Batching Plant) The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Cement Works (Concrete Batching Plant) BPM 3/2(93) should be followed and implemented to further reduce the construction dust impacts of the Project. These best practices include: <i>Exhaust from Dust Arrestment Plant</i> - Wherever possible the final discharge point from particulate matter arrestment plant, where is not necessary to achieve dispersion from residual pollutants, should be at low level to minimise the effect on the local community in the case of abnormal emissions and to facilitate maintenance and inspection <i>Emission Limits</i> - All emissions to air, other than steam or water vapour, shall be colourless and free from persistent mist or smoke <i>Engineering Design/Technical Requirements</i> - As a general guidance, the loading, unloading, handling and storage of fuel, raw materials, products, wastes or by-products should be carried out in a manner so as to prevent the release of visible dust and/or other noxious or offensive emissions	N/A No concrete batching plant in in this project. N/A No concrete batching plant in in this project. N/A No concrete batching plant in this project.
Non-Road Mobile Machinery (NRMM): All NRMMs operating on-site which are subject to emission control of Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation are approved/exempted (as the case may be) and affixed with the requisite approval/exemption labels.	✓
Noise Impact (Construction)	

EM&A Ref. Recommendation Measures	Implementation Stage Zone 2A, 2B & 2C
3.1 Good Site Practice Good site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The following package of measures should be followed during each phase of construction: • only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works; • machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum • plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs; • mobile plant should be sited as far away from NSRs as possible; and • material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities.	✓ ✓ ✓ ✓ ✓
3.1 Adoption of Quieter PME The recommended quieter PME adopted in the assessment were taken from the EPD's QPME Inventory and "<i>Sound Power Levels of Other Commonly Used PME</i>" are presented in Table 4.26 in the EIA report. It should be noted that the silenced PME selected for assessment can be found in Hong Kong.	✓
3.1 Use of Movable Noise Barriers Movable noise barriers can be very effective in screening noise from particular items of plant when constructing the Project. Noise barriers located along the active works area close to the noise generating component of a PME could produce at least 10 dB(A) screening for stationary	Obs

EM&A Ref. Recommendation Measures		Implementation Stage Zone 2A, 2B & 2C
	plant and 5 dB(A) for mobile plant provided the direct line of sight between the PME and the NSRs is blocked.	
3.1	Use of Noise Enclosure/ Acoustic Shed The use of noise enclosure or acoustic shed is to cover stationary PME such as air compressor and concrete pump. With the adoption of the noise enclosure, the PME could be completely screened, and noise reduction of 15 dB(A) can be achieved according to the EIAO Guidance Note No. 9/2010.	✓
3.1	Use of Noise Insulating Fabric Noise insulating fabric can also be adopted for certain PME (e.g. drill rig, pilling machine etc). The fabric should be lapped such that there are no openings or gaps on the joints. According to the approved Tsim Sha Tsui Station Northern Subway EIA report (AEIAR-127/2008), a noise reduction of 10 dB(A) can be achieved for the PME lapped with the noise insulating fabric.	✓
3.1	Scheduling of Construction Works outside School Examination Periods During construction phase, the contractor should liaise with the educational institutions (including NSRs LCS and CRGPS) to obtain the examination schedule and avoid the noisy construction activities during school examination periods.	✓
Water Quality Impact (Construction)		
4.1	Construction site runoff and drainage The site practices outlined in ProPECC Note PN 1/94 should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. The following measures are recommended to protect water quality and sensitive uses of the coastal area, and when properly implemented should be sufficient to adequately control site discharges so as to avoid water	

EM&A Ref. Recommendation Measures

Implementation Stage

Zone 2A, 2B & 2C

quality impacts:

- At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels, earth bunds or sand bag barriers should be provided on site to direct storm water to silt removal facilities. The design of the temporary on-site drainage system should be undertaken by the WKCDA's Contractor prior to the commencement of construction; ✓
- Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the TM standards under the WPCO. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC Note PN 1/94. Sizes may vary depending upon the flow rate. The detailed design of the sand/silt traps should be undertaken by the WKCDA's Contractor prior to the commencement of construction. ✓
- All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit should be regularly removed, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times. Obs
- Measures should be taken to minimize the ingress of site drainage into excavations. If excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from foundation excavations should be discharged into storm drains via silt removal facilities. ✓
- All vehicles and plant should be cleaned before leaving a construction site to ensure no Obs

EM&A Ref. Recommendation Measures	Implementation Stage Zone 2A, 2B & 2C
earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facility should be provided at construction site exit where practicable. Wash-water should have sand and silt settled out and removed regularly 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.	
• Open stockpiles of construction materials or construction wastes onsite 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.	✓
• Manholes (including newly constructed ones) should be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and stormwater runoff being directed into foul sewers.	✓
• Precautions should be taken at any time of the year when rainstorms are likely. Actions should be taken when a rainstorm is imminent or forecasted and actions to be taken during or after rainstorms are summarized in Appendix A2 of ProPECC Note PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes.	✓
• Bentonite slurries used in piling or slurry walling should be reconditioned and reused wherever practicable. Temporary enclosed storage locations should be provided on-site for any unused bentonite that needs to be transported away after all the related construction activities are completed. The requirements in ProPECC Note PN 1/94 should be adhered to in the handling and disposal of bentonite slurries.	N/A No bentonite slurries are used in this project.

EM&A Ref. Recommendation Measures	Implementation Stage Zone 2A, 2B & 2C
4.1 Barging facilities and activities Recommendations for good site practices during operation of the proposed barging point include: • All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; • Loading of barges and hoppers should be controlled to prevent splashing of material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation; • All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; and • Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site.	✓ ✓ ✓ ✓
4.1 Sewage effluent from construction workforce Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	✓
4.1 General construction activities • Construction solid waste, debris and refuse generated on-site should be collected, handled and disposed of properly to avoid entering any nearby storm water drain. Stockpiles of cement and other construction materials should be kept covered when not	✓

EM&A Ref. Recommendation Measures		Implementation Stage Zone 2A, 2B & 2C
	being used.	
	Oils and fuels should only be stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to any nearby storm water drain, all fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund should be drained of rainwater after a rain event.	Obs
Waste Management Implications (Construction)		
6.1	Good Site Practices Recommendations for good site practices during the construction activities include: - 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 - Training of site personnel in proper waste management and chemical handling procedures - Provision of sufficient waste disposal points and regular collection of waste - Appropriate measures to minimise windblown litter and dust/odour during transportation of waste by either covering trucks or by transporting wastes in enclosed containers - Provision of wheel washing facilities before the trucks leaving the works area so as to minimise dust introduction to public roads - Well planned delivery programme for offsite disposal such that adverse environmental impact from transporting the inert or non-inert C&D materials is not anticipated	✓ ✓ Obs ✓ Obs ✓
6.1	Waste Reduction Measures Recommendations to achieve waste reduction include:	

EM&A Ref.	Recommendation Measures	Implementation Stage Zone 2A, 2B & 2C
	- Sort inert C&D material to recover any recyclable portions such as metals - Segregation and storage of different types of waste in different containers or skips to enhance reuse or recycling of materials and their proper disposal - Encourage collection of recyclable waste such as waste paper and aluminium cans by providing separate labelled bins to enable such waste to be segregated from other general refuse generated by the work force - Proper site practices to minimise the potential for damage or contamination of inert C&D materials - Plan the use of construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of wastes	✓ ✓ ✓ ✓ ✓
6.1	Inert and Non-inert C&D Materials In order to minimise impacts resulting from collection and transportation of inert C&D material for off-site disposal, the excavated materials should be reused on-site as fill material as far as practicable. In addition, inert C&D material generated from excavation works could be reused as fill materials in local projects that require public fill for reclamation. - The surplus inert C&D material will be disposed of at the Government's PFRFs for beneficial use by other projects in Hong Kong. - Liaison with the CEDD Public Fill Committee (PFC) on the allocation of space for disposal of the inert C&D materials at PFRF is underway. No construction work is allowed to proceed until all issues on management of inert C&D materials have been resolved and all relevant arrangements have been endorsed by the relevant authorities including PFC and EPD. - The C&D materials generated from general site clearance should be sorted on site to	✓ ✓ ✓

EM&A Ref. Recommendation Measures

segregate any inert materials for reuse or disposal of at PFRFs whereas the non-inert materials will be disposed of at the designated landfill site.

- In order to monitor the disposal of inert and non-inert C&D materials at respectively PFRFs and the designated landfill site, and to control fly-tipping, it is recommended that the Contractor should follow the Technical Circular (Works) No. 6/2010 for Trip Ticket System for Disposal of Construction & Demolition Materials issued by Development Bureau. In addition, it is also recommended that the Contractor should prepare and implement a Waste Management Plan detailing their various waste arising and waste management practices in accordance with the relevant requirements of the Technical Circular (Works) No. 19/2005 Environmental Management on Construction Site.

✓

6.1

Chemical Waste

- If chemical wastes are produced at the construction site, the Contractor will be required to register with the EPD as a chemical waste producer and to follow the guidelines stated in the "Code of Practice on the Packaging Labelling and Storage of Chemical Wastes". Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor should use a licensed collector to transport and dispose of the chemical wastes at the approved Chemical Waste Treatment Centre or other licensed recycling facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.
- Potential environmental impacts arising from the handling activities (including storage,

✓

✓

EM&A Ref. Recommendation Measures		Implementation Stage Zone 2A, 2B & 2C
	collection, transportation and disposal of chemical waste) are expected to be minimal with the implementation of appropriate mitigation measures as recommended.	
6.1	General Refuse General refuse should be stored in enclosed bins or compaction units separated from inert C&D materials. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from inert C&D materials. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.	Obs
Land Contamination (Construction)		
7.1	The potential for land contamination issues at the TST Fire Station due to its future relocation will be confirmed by site investigation after land acquisition. Where necessary, mitigation measures for minimising potential exposure to contaminated materials (if any) or remediation measures will be identified. If contaminated land is identified (e.g., during decommissioning of fuel oil storage tanks) after the commencement of works, mitigation measures are proposed in order to minimise the potentially adverse effects on the health and safety of construction workers and impacts arising from the disposal of potentially contaminated materials. The following measures are proposed for excavation and transportation of contaminated material: - To minimize the chance for construction workers to come into contact with any contaminated materials, bulk earth-moving excavation equipment should be employed; - Contact with contaminated materials can be minimised by wearing appropriate clothing and personal protective equipment such as gloves and masks (especially when interacting directly with contaminated material), provision of washing facilities and prohibition of	N/A TST Fire Station is out of this project boundary, no mitigation measure is required. N/A TST Fire Station is out of this project boundary, no mitigation measure is required.

EM&A Ref. Recommendation Measures	Implementation Stage Zone 2A, 2B & 2C
smoking and eating on site;	
• Stockpiling of contaminated excavated materials on site should be avoided as far as possible;	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
• The use of contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out;	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
• Vehicles containing any contaminated excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater;	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
• Truck bodies and tailgates should be sealed to stop any discharge;	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
• Only licensed waste haulers should be used to collect and transport contaminated material to treatment/disposal site and should be equipped with tracking system to avoid fly tipping;	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
• Speed control for trucks carrying contaminated materials should be exercised;	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
• Observe all relevant regulations in relation to waste handling, such as Waste Disposal Ordinance (Cap. 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap. 354) and obtain all necessary permits where required; and	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
• Maintain records of waste generation and disposal quantities and disposal arrangements.	N/A

EM&A Ref. Recommendation Measures		Implementation Stage Zone 2A, 2B & 2C
		TST Fire Station is out of this project boundary, no mitigation measure is required.
Ecological Impact (Construction)		
No mitigation measure is required.		
Landscape and Visual Impact (Construction)		
Table 9.1 (CM1)	Trees should be retained in situ on site as far as possible. Should tree removal be unavoidable due to construction impacts, trees will be transplanted or felled with reference to the stated criteria in the Tree Removal Applications to be submitted to relevant government departments for approval in accordance to ETWB TCW No. 29/2004 and 3/2006.	✓
Table 9.1 (CM2)	Compensatory tree planting shall be incorporated to the proposed project and maximize the new tree, shrubs and other vegetation planting to compensate tree felled and vegetation removed. Also, implementation of compensatory planting should be of a ratio not less than 1:1 in terms of quality and quantity within the site.	N/A Compensatory tree planting is being reviewed.
Table 9.1 (CM3)	Buffer trees for screening purposes to soften the hard architectural and engineering structures and facilities.	N/A Roof garden is designed to be built, but it has not been completed yet.
Table 9.1 (CM4)	Softscape treatments such as vertical green wall panel /planting of climbing and/or weeping plants, etc, to maximize the green coverage and soften the hard architectural and engineering structures and facilities.	N/A Climbing or weeping plants are designed to be planted, but proposal is being reviewed for the planting location.
Table 9.1 (CM5)	Roof greening by means of intensive and extensive green roof to maximize the green coverage and improve aesthetic appeal and visual quality of the building/structure.	N/A Roof garden is designed to be built, but it has not been completed yet.

EM&A Ref. Recommendation Measures		Implementation Stage Zone 2A, 2B & 2C
Table 9.1 (CM6)	Sensitive streetscape design should be incorporated along all new roads and streets.	N/A Greening along the seafront is proposed, and under review.
Table 9.1 (CM7)	Structure, ornamental planting shall be provided along amenity strips to enhance the landscape quality.	N/A Gardens are designed to be built, and under review.
Table 9.1 (CM8)	Landscape design shall be incorporated to architectural and engineering structures in order to provide aesthetically pleasing designs.	✓
Table 9.1 (CM9)	Minimize the structure of marine facilities to be built on the seabed and foreshore in order to minimize the affected extent to the waterbody	N/A No marine facilities for this project.
Table 9.2 (MCP1)	Use of decorative screen hoarding/boards	✓
Table 9.2 (MCP2)	Early introduction of landscape treatments	N/A No landscape treatments during this stage.
Table 9.2 (MCP3)	Adoption of light colour for the temporary ventilation shafts for the basement during the transition period.	N/A No ventilation shafts for this project.
Table 9.2 (MCP4)	Control of night time lighting	✓
Table 9.2 (MCP5)	Use of greenery such as grass cover for the temporary open areas will help achieve the visual balance and soften the hard edges of the structures.	N/A No temporary open areas for this project.
N/A	- Not Applicable	
✓	- Implemented	
Obs	- Observed	
Rem	- Reminder	

K. Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

Cumulative statistics for complaints, notifications of summons and successful prosecutions for the Project account for period starting from the date of commencement of construction works (i.e. 05 July 2024 for Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095)) to the end of the reporting month and are summarised in the Table K-1 below respectively.

Table K-1: Statistics for complaints, notifications of summons and successful prosecutions for Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095)

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of summons	Successful prosecutions
This reporting month (June 2026)	1	0	0
From 05 July 2024 to end of the reporting month	8	0	0