

Development at West Kowloon Cultural District

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

12 February 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
Environmental Team Leader (ETL)
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Date

13 February 2026

Verified by:



Claudine LEE
Independent Environmental Checker (IEC)
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Date

13 February 2026

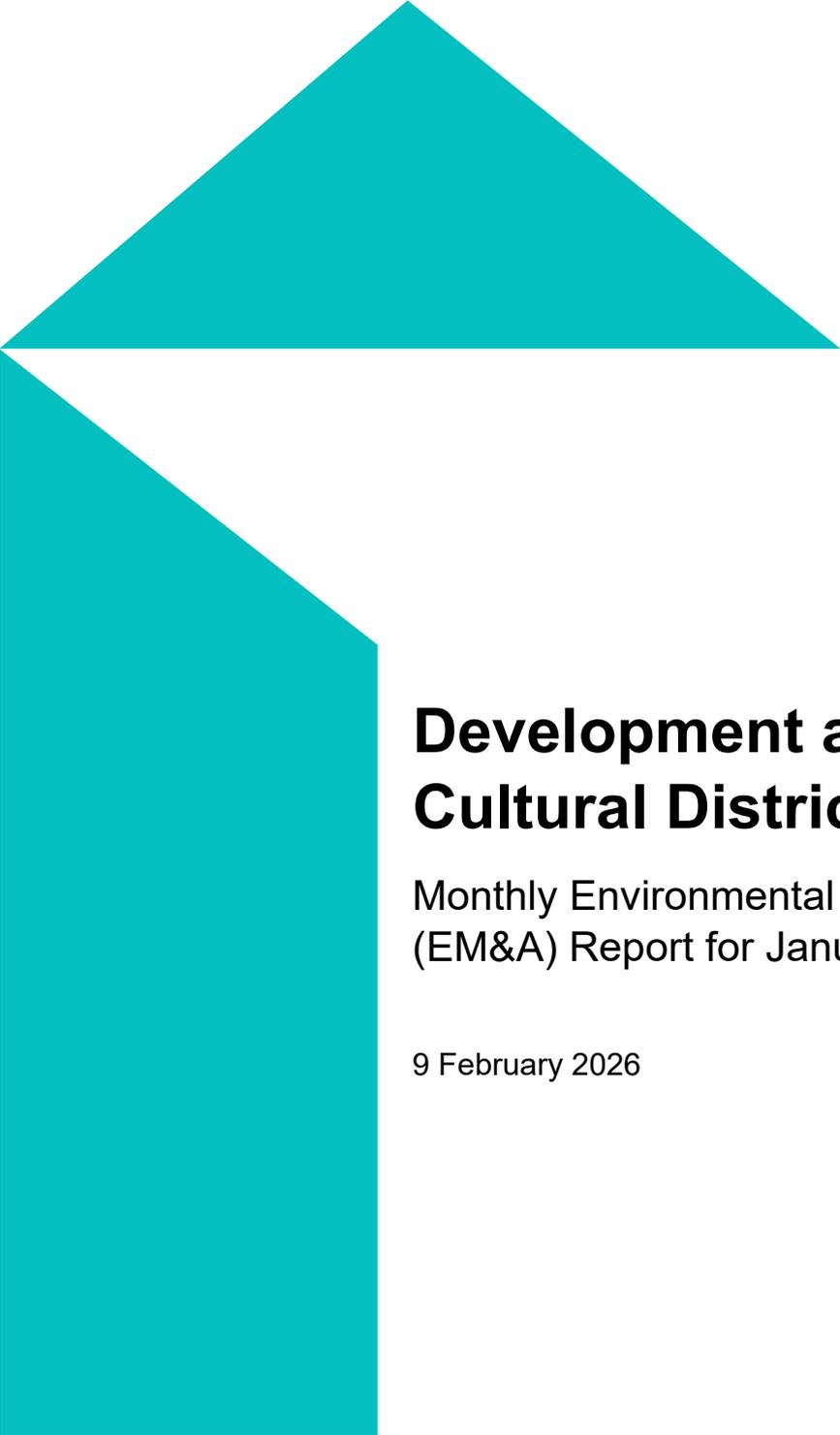
This Report Consists of:

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

9 February 2026

Contents

Executive summary	1
1 Introduction	3
1.1 Background	3
1.2 Project Organisation	3
1.3 Status of Construction Works in the Reporting Period	4
1.4 Summary of EM&A Requirements and Alternative Monitoring Locations	4
1.4.1 EM&A Requirements	4
1.4.2 Alternative Monitoring Locations	5
2 Impact Monitoring Methodology	6
2.1 Introduction	6
2.2 Air Quality	6
2.2.1 Monitoring Parameters, Frequency and Duration	6
2.2.2 Monitoring Locations	6
2.2.3 Monitoring Equipment	6
2.2.4 Monitoring Methodology	7
2.3 Noise	10
2.3.1 Monitoring Parameters, Frequency and Duration	10
2.3.2 Monitoring Location	10
2.3.3 Monitoring Equipment	10
2.3.4 Monitoring Methodology	10
2.4 Landscape and Visual	11
2.4.1 Monitoring Program	11
3 Monitoring Results	12
3.1 Impact Monitoring	12
3.2 Air Quality Monitoring	12
3.2.1 1-hour TSP	12
3.2.2 24-hour TSP	12
3.3 Noise Monitoring	13
3.4 Landscape and Visual Impact	13
4 Site Environmental Management	14
4.1 Site Inspection	14
4.2 Advice on the Solid and Liquid Waste Management Status	14
4.3 Status of Environmental Licenses and Permits	15
4.4 Recommended Mitigation Measures	15

5	Compliance with Environmental Permit	16
6	Report in Non-compliance, Complaints, Notification of Summons and Successful Prosecutions	17
6.1	Record on Non-compliance of Action and Limit Levels	17
6.2	Record on Environmental Complaints Received	17
6.3	Record on Notifications of Summons and Successful Prosecution	17
7	Future Key Issues	18
7.1	Construction Works for the Coming Month(s)	18
7.2	Key Issues for the Coming Month	18
7.3	Monitoring Schedule for the Coming Month	18
8	Conclusions and Recommendations	19
8.1	Conclusions	19
8.2	Recommendations	19

Figure 1 Site Layout Plan and Monitoring Stations

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

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 (WKCDA). 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 (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.

This Monthly EM&A Report presents the monitoring works at Lyric Theatre Complex (L2 Contract) from 1 January to 31 January 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 7, 16, 21 and 26 January 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

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 L2 to be commissioned in the coming month include:

- LTC construction
 - ABWF works
 - Façade work
 - MEP works
- ASDA and Lyric Theatre Promenade
 - Defects rectification
- DCS cofferdam
 - Construction of manholes, cabling works and cable draw pits
 - Backfilling work
 - Installation of UU services
 - Pipe connection to box culvert
 - Excavation work

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 (WKCDA). 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 (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 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/B. This Monthly EM&A Report presents the monitoring works at Lyric Theatre Complex (L2 Contract) from 1 January to 31 January 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
 - Defects rectification
- DCS cofferdam
 - Backfilling work
 - Excavation work
 - Construction of manholes
 - Installation of UU services
 - Excavation and installation of strut and waling
 - Installation of temporary isolation box

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
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.: 831657)
1-hour TSP monitoring	
Portable direct reading dust meter	Sibata LD-3B (Serial No.: 1Y5546 and 2Z6239)

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. 00710259)	LARSON DAVIS CAL200 (Serial No. 16172)

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	5-Jan-26	8:30	24	21	19	19-31	273.7	500
	9-Jan-26	8:32	31	26	29			
	15-Jan-26	8:31	21	24	25			
	21-Jan-26	8:28	23	19	24			
	27-Jan-26	8:33	24	19	25			
AM2	5-Jan-26	8:47	38	32	34	29-45	274.2	500
	9-Jan-26	8:49	45	41	38			
	15-Jan-26	8:48	31	29	33			
	21-Jan-26	8:46	31	29	35			
	27-Jan-26	8:50	41	39	36			

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	5-Jan-26	8:28	16	11-24	143.6	260
	9-Jan-26	8:30	24			
	15-Jan-26	8:29	13			
	21-Jan-26	8:26	11			
	27-Jan-26	8:31	14			
AM2	5-Jan-26	8:45	27	26-28	151.1	260
	9-Jan-26	8:46	28			
	15-Jan-26	8:46	27			
	21-Jan-26	8:44	26			
	27-Jan-26	8:48	27			

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))
5-Jan-26	9:34	10:04	64	75
15-Jan-26	9:35	10:05	64	
21-Jan-26	9:34	10:04	64	
27-Jan-26	9:37	10:07	64	

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 7 and 21 January 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 7, 16, 21 and 26 January 2026 at Lyric Theatre Complex (L2 Contract). While the site environmental management committee meeting with IEC, ET, ER and Contractor was held on 21 January 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)
7/1/2026	Waste Management	General refuse was observed on ground without proper storage, the contractor was reminded to remove general refuse regularly and store them properly.	The contractor has cleared the general refuse.	8/1/2026
16/1/2026	Water Quality	Idle chemical containers were observed on ground, the contractor was reminded to provide suitable drip tray or remove them.	The contractor has removed the idle chemical containers.	20/1/2026
21/1/2026	Water Quality	Wastewater treatment facility was observed not functioning properly, the contractor was reminded to ensure proper functioning of the wastewater treatment facility.	The contractor has ensured the proper functioning of the wastewater treatment facility.	23/1/2026
21/1/2026	Water Quality	Breaker head was observed idle on ground, the contractor was reminded to provide a suitable drip tray for the breaker head.	The contractor has provided a drip tray for the breaker head.	23/1/2026
21/1/2026	Waste Management	General refuse was observed on ground, the contractor was reminded to clean the waste properly and provide suitable storage.	The contractor has cleared the general refuse.	26/1/2026
26/1/2026	Water Quality	Wastewater treatment facility was observed not functioning properly, the contractor was reminded to ensure proper functioning of the wastewater treatment facility.	Pending	-
26/1/2026	Waste Management	The contractor was reminded to ensure proper storage of general refuse and clear them regularly.	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, 704.2 tonnes, 46.0 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 669.2 tonnes of general refuse were disposed of at SENT and WENT landfill. 0.0 tonne of metals, 0.6 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-RE0876-25	12-Aug-25	11-Feb-26	Superseded	Superseded by GW-RE0024-26
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:

Water Quality

- All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation.
- Oils and fuels should be stored in designated areas which have pollution prevention facilities.

Waste Management

- General refuse should be sorted in enclosed bins or compaction units separated from inert C&D materials.

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 Dec 2025	16 Jan 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

One environmental complaint was received in the reporting month.

On 27 January 2026, West Kowloon Cultural District Authority (WKCDA) referred a complaint case from the Harbourside Owners Committee regarding the dust pollution arising from the construction works within the West Kowloon Cultural District (WKCD). The Harbourside Owners Committee claimed that the construction site at WKCD was generating substantial amount of dust over recent weeks and caused health concern to the residents. After the investigation, it is noted that the site boundary of Lyric Theatre Complex (L2 Contract) was not adjacent to the public road, and the air quality monitoring data was well below the Action / Limit Levels in the reporting period. In spite of that, proper dust mitigation measures have been actively carried out by the contractor of Lyric Theatre Complex (L2 Contract), including regular watering at active works area and haul road for dust suppression, active water spraying at the vehicle gate entrance, and the mechanical cover of dump trucks are properly closed before leaving the construction site. Therefore, the complaint could not be attributable to Lyric Theatre Complex (L2 Contract).

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
 - Defects rectification
- DCS cofferdam
 - Construction of manholes, cabling works and cable draw pits
 - Backfilling work
 - Installation of UU services
 - Pipe connection to box culvert
 - Excavation work

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.

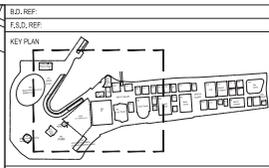
One environmental complaint was recorded in the reporting month. No notifications of summons or successful prosecutions were received during the reporting month.

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
 - AREA HANDED OVER TO SUN HUNG KAI PROPERTIES
 - CONSTRUCTION AIR/NOISE MONITORING STATIONS

REMARKS 1:
THE AIR MONITORING STATION AM2B HAS BEEN RELOCATED TO THE ALTERNATIVE MONITORING STATION AM2 AT THE G/F OF HARBORSIDE ON 1 JUNE 2021

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

REV.	DATE	DESCRIPTION	INITIAL

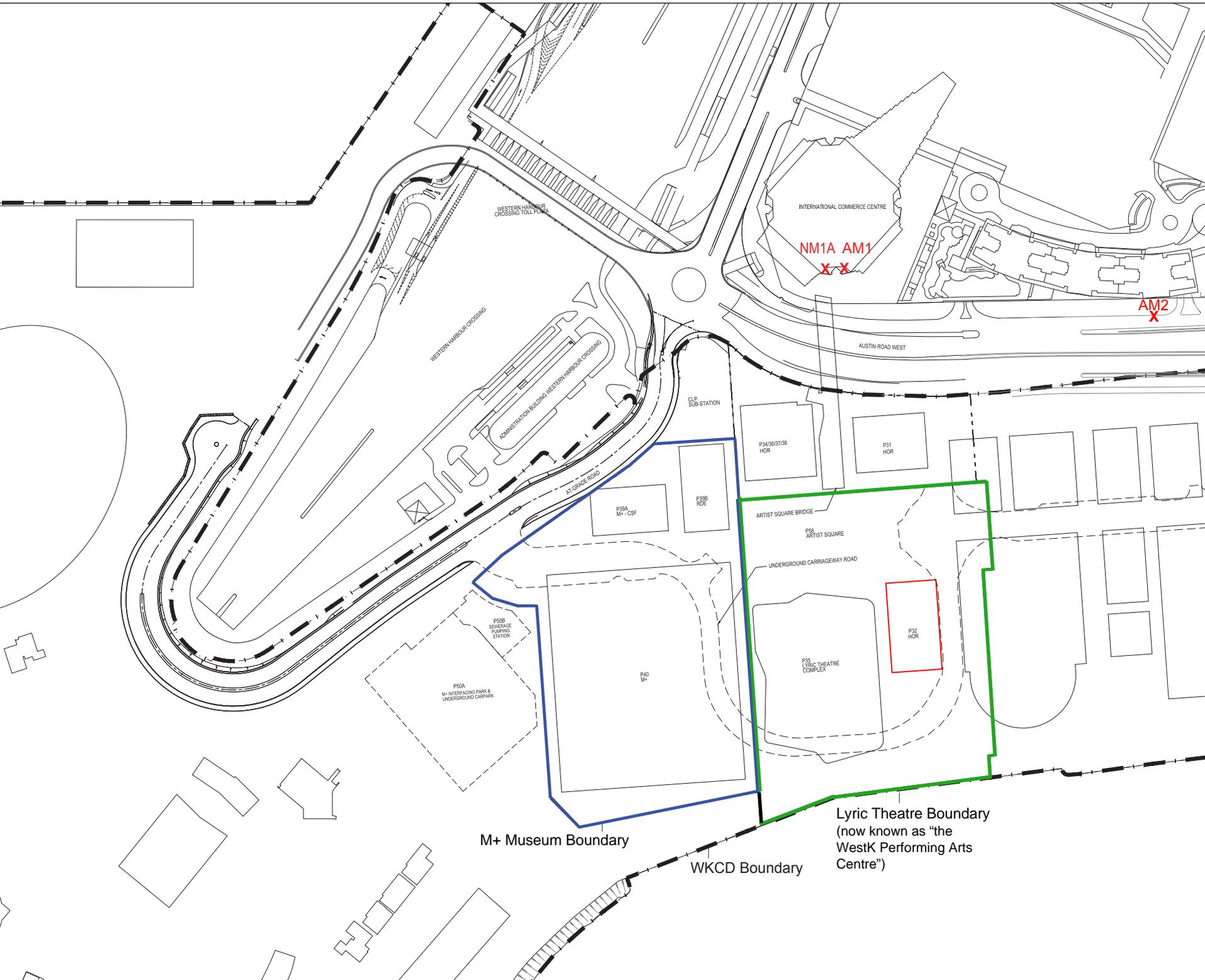
JOB TITLE
M+ MUSEUM FOR VISUAL CULTURE (MAIN CONTRACT WORKS) & LYRIC THEATRE COMPLEX

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.	FIGURE 1	REV.	XA
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CAD REF NAME: XXXXX-AUT-PMS-DWG-POU-000000-XXX.dwg
AUTHORITY



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

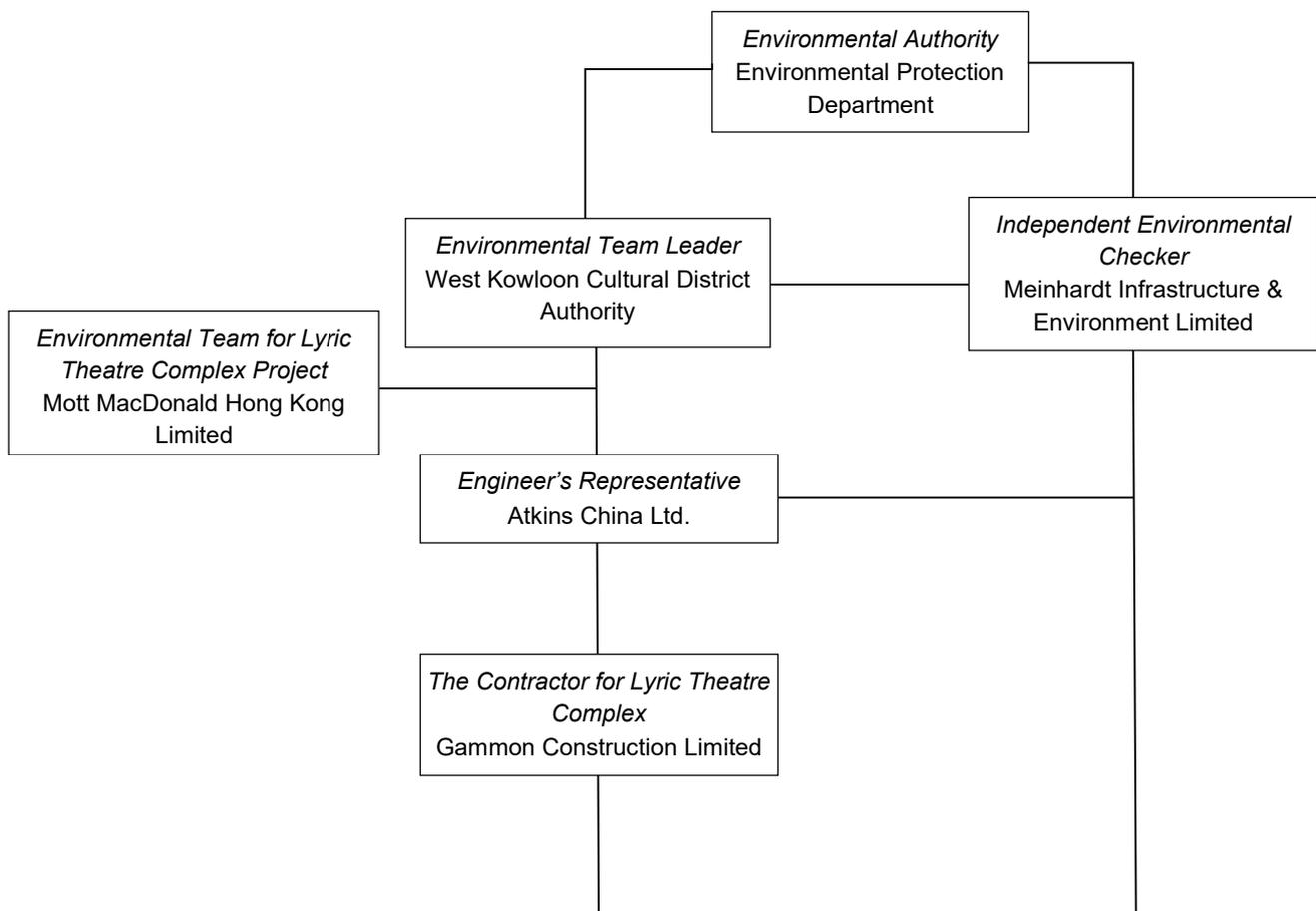


Table A-1: Contact information

Company Name	Role	Name	Telephone	Email
Atkins China Ltd.	Project Manager	Mr. Simha LytheRao	2204 8259	Simha.Lytherao@atkinsglobal.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@wkcd.a.hk

B. Tentative Construction Programme

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 A	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 A; 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 A; 3. Advise the WKCD A 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 A; 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 A 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 A, 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 A 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 A 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	<ol style="list-style-type: none">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.	<ol style="list-style-type: none">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.	<ol style="list-style-type: none">1. Confirm receipt of notification of failure in writing;2. Notify Contractor;3. In consolidation with the IEC, agree 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.	<ol style="list-style-type: none">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	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IEC and WKCD; 2. Implement noise mitigation proposals.
Limit Level	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures; 5. If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. 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	<ol style="list-style-type: none"> 1. Design check to make sure the design complies with all the proposed mitigation measures in the EIA report; 2. Prepare and submit report. 	<ol style="list-style-type: none"> 1. Check report submitted by ET; 2. Recommend remedial design if necessary. 	<ol style="list-style-type: none"> 1. Undertake remedial design if necessary. 	-
Non-conformity on one occasion	<ol style="list-style-type: none"> 1. Identify source 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Notify Contractor; 2. Ensure remedial actions are properly implemented. 	<ol style="list-style-type: none"> 1. Amend working method as necessary; 2. Rectify damage and undertake necessary replacement and remedial actions.
Repeated conformity	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Notify Contractor; 2. Ensure remedial actions are properly implemented. 	<ol style="list-style-type: none"> 1. Amend working method as necessary; 2. Rectify damage and undertake necessary replacement and remedial actions.

E. Monitoring Schedule

January 2026

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

February 2026

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2 AM1, AM2 - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	3	4	5	6 AM1, AM2 - 24hrTSP, 1hr TSP x3	7
8	9	10	11	12 AM1, AM2 - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	13	14
15	16 AM1, AM2 - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	17	18	19	20	21 AM1, AM2 - 24hrTSP, 1hr TSP x3
22	23	24	25	26	27 AM1, AM2 - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	28
		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 : 30/12/2025

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) : 1015.4
 Ta(K) : 292.5

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1 18 holes	11.2	3.382	1.651	58	58.62
2 13 holes	8.2	2.894	1.416	50	50.53
3 10 holes	6.2	2.517	1.233	42	42.45
4 7 holes	4.4	2.120	1.042	32	32.34
5 5 holes	2.6	1.630	0.805	20	20.21

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

Sampler Calibration Relationship

Slope(m): 45.961 Intercept(b): -15.679 Correlation Coefficient(r): 0.9960

Checked by: 

 Magnum Fan

Date: 02/01/2026

Certificate of Calibration

Calibration Certification Information			
Cal. Date: December 1, 2025	Rootsometer 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:	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	: HK2517350
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-2025
		DATE OF ISSUE	: 12-MAY-2025
PROJECT	: ----	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**

WORK ORDER : HK2517350
SUB-BATCH : 1
CLIENT : ENVIROTECH SERVICES CO.
PROJECT : ----



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2517350-001	Sibata LD-5R (831657)	Equipments	26-Apr-2025	S/N: 831657

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



Equipment Verification Report (TSP)

Equipment Calibrated:

Type: Laser Dust Monitor
Manufacturer: Sibata LD-5R
Serial No.: 831657
Equipment Ref.: N/A
ALS Job Order: HK2516538

Standard Equipment

Standard Equipment: High Volume Sampler (TSP)
Location : Envirotech Room (Calibration Room)
Equipment Ref.: HVS 8162
Last Calibration Date: 17-Mar-2025

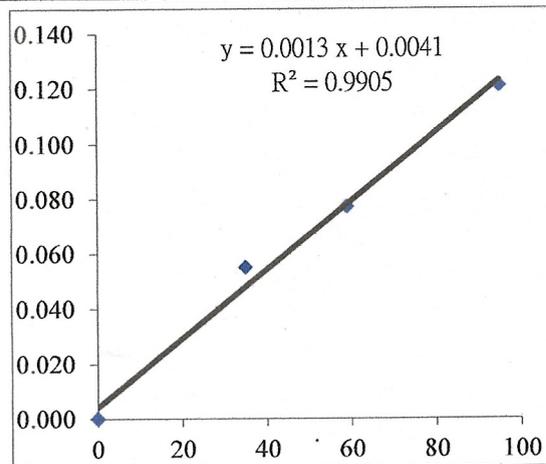
Equipment Verification Results:

Verification Date: 26-Apr-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	0845-0945	23.8	1013.2	0.055	35
2hr 00mins	0950-1150	24.9	1013.4	0.077	59
3hr 00mins	1315-1615	28.2	1013.5	0.121	95

Linear Regression of Y or X

Slope (K-factor): 0.0013(mg)/Count
Correlation Coefficient (R): 0.9905
Date of Issue: 3-May-2025



Remarks:

- 1. Strong Correlation (>0.8)
- 2. Factor 0.0013(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 *Tai* Date: 03 May 2025

QC Reviewer: K.F.Ho Signature *at* Date: 03 May 2025

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location : Rm. 712, My Loft, Tuen Mun	Date of Calibration:	17-Mar-25
HVS ID: 8162	Next Calibration Date:	16-May-25
Name and Model : TISCH HVS Model TE-5170	Operator:	K.F.Ho

CONDITIONS

Sea Level Pressure (hpa)	1022	Corrected Pressure (mm Hg)	766.6
Temperature (°C)	18.0	Temperature (K)	291

CALIBRATION ORIFICE

Make:	TISCH	Qstd Slope	2.08315
Model:	TE-5025A	Qstd Intercept	-0.04938
Serial#:	2454		

CALIBRATION

Plate No.	H2O(L) (in)	H2O(R) (in)	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	LINEAR REGRESSION
18	6.8	6.9	13.7	1.830	62	63.03	Slope= 39.645 Intercept= -8.4950 Corr. Coeff.= 0.9912
13	5.2	5.3	10.5	1.605	56	56.93	
10	4.8	4.8	9.6	1.536	50	50.83	
7	2.8	2.8	5.6	1.179	40	40.66	
5	1.6	1.6	3.2	0.897	25	25.41	

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:

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

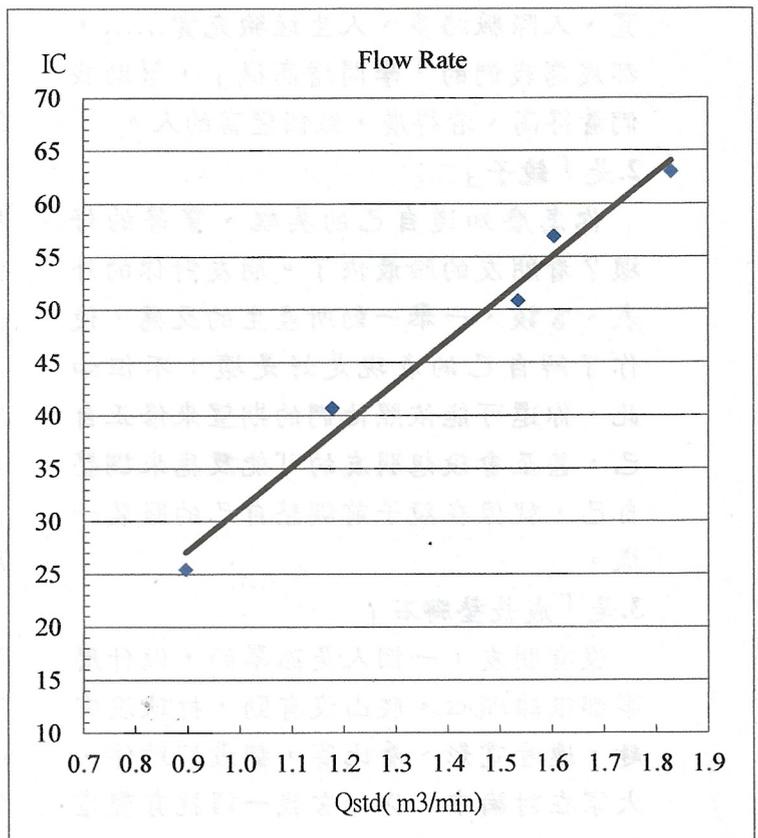
m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure



Certificate of Calibration

Calibration Certification Information			
Cal. Date: December 2, 2024	Rootsmeter S/N: 438320	Ta: 293	°K
Operator: Jim Tisch		Pa: 757.4	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	1.4200	3.2	2.00
2	3	4	1	1.0170	6.4	4.00
3	5	6	1	0.9090	7.9	5.00
4	7	8	1	0.8700	8.8	5.50
5	9	10	1	0.7140	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)
1.0093	0.7108	1.4238	0.9958	0.7013	0.8796
1.0051	0.9883	2.0136	0.9916	0.9750	1.2439
1.0031	1.1035	2.2512	0.9896	1.0886	1.3907
1.0018	1.1515	2.3611	0.9884	1.1361	1.4586
0.9965	1.3956	2.8476	0.9831	1.3769	1.7592
QSTD	m=	2.08315	QA	m=	1.30443
	b=	-0.04938		b=	-0.03050
	r=	0.99985		r=	0.99985

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: 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	: HK2520194
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	: 16-MAY-2025
		DATE OF ISSUE	: 23-MAY-2025
PROJECT	: ----	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**

WORK ORDER : HK2520194
SUB-BATCH : 1
CLIENT : ENVIROTECH SERVICES CO.
PROJECT : ----



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2520194-001	Sibata LD-3B (1Y5546)	Equipments	10-May-2025	S/N: 1Y5546

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



Equipment Verification Report (TSP)

Equipment Calibrated:

Type: Laser Dust Monitor
Manufacturer: Sibata LD-3B
Serial No.: 1Y5546
Equipment Ref.: N/A
ALS Job Order: HK2518511

Standard Equipment

Standard Equipment: High Volume Sampler (TSP)
Location : Envirotech Room (Calibration Room)
Equipment Ref.: HVS 8162
Last Calibration Date: 17-Mar-2025

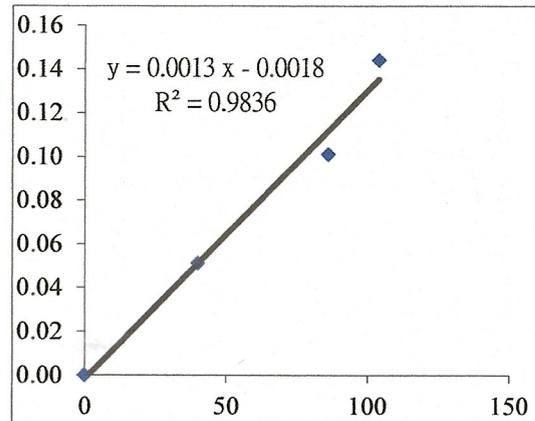
Equipment Verification Results:

Verification Date: 10-May-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	24.2	1010.4	0.051	40
2hr 00mins	1005-1205	24.4	1010.2	0.101	86
3hr 00mins	1400-1700	27.1	1009.8	0.144	104

Linear Regression of Y or X

Slope (K-factor): 0.0013(mg)/Count
Correlation Coefficient (R): 0.9918
Date of Issue: 15-May-2025



Remarks:

1. Strong Correlation (>0.8)
2. Factor 0.0013(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 [Signature] Date: 15 May 2025

QC Reviewer: K.F.Ho Signature [Signature] Date: 15 May 2025

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location : Rm. 712, My Loft, Tuen Mun	Date of Calibration:	17-Mar-25
HVS ID: 8162	Next Calibration Date:	16-May-25
Name and Model : TISCH HVS Model TE-5170	Operator:	K.F.Ho

CONDITIONS

Sea Level Pressure (hpa)	1022	Corrected Pressure (mm Hg)	766.6
Temperature (°C)	18.0	Temperature (K)	291

CALIBRATION ORIFICE

Make:	TISCH	Qstd Slope	2.08315
Model:	TE-5025A	Qstd Intercept	-0.04938
Serial#:	2454		

CALIBRATION

Plate No.	H2O(L) (in)	H2O(R) (in)	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	LINEAR REGRESSION
18	6.8	6.9	13.7	1.830	62	63.03	Slope= 39.645 Intercept= -8.4950 Corr. Coeff.= 0.9912
13	5.2	5.3	10.5	1.605	56	56.93	
10	4.8	4.8	9.6	1.536	50	50.83	
7	2.8	2.8	5.6	1.179	40	40.66	
5	1.6	1.6	3.2	0.897	25	25.41	

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:

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

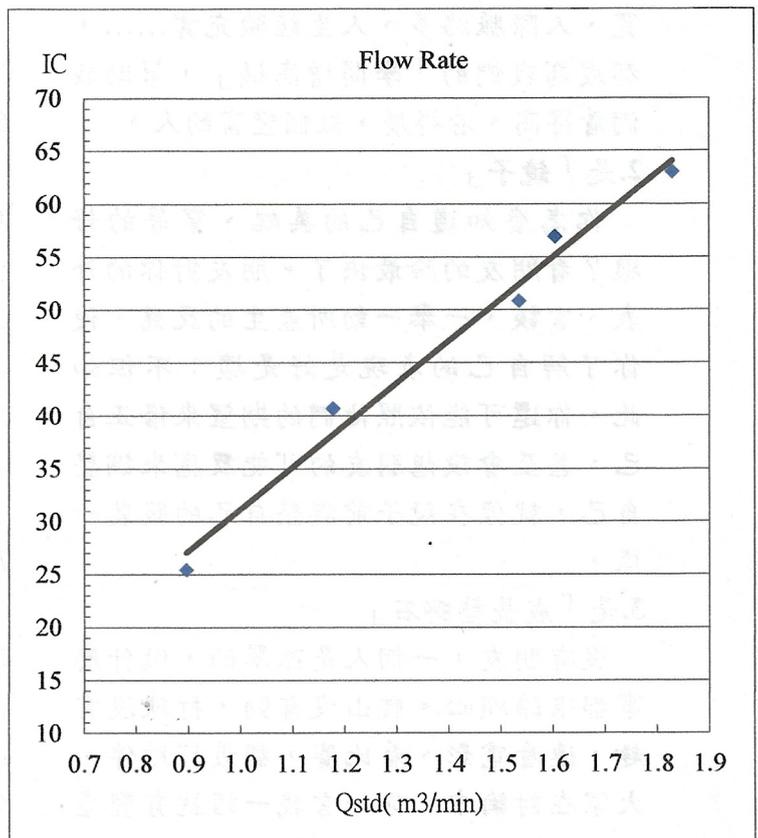
m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure



Certificate of Calibration

Calibration Certification Information			
Cal. Date: December 2, 2024	Rootsmeter S/N: 438320	Ta: 293	°K
Operator: Jim Tisch		Pa: 757.4	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	1.4200	3.2	2.00
2	3	4	1	1.0170	6.4	4.00
3	5	6	1	0.9090	7.9	5.00
4	7	8	1	0.8700	8.8	5.50
5	9	10	1	0.7140	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)
1.0093	0.7108	1.4238	0.9958	0.7013	0.8796
1.0051	0.9883	2.0136	0.9916	0.9750	1.2439
1.0031	1.1035	2.2512	0.9896	1.0886	1.3907
1.0018	1.1515	2.3611	0.9884	1.1361	1.4586
0.9965	1.3956	2.8476	0.9831	1.3769	1.7592
QSTD	m=	2.08315	QA	m=	1.30443
	b=	-0.04938		b=	-0.03050
	r=	0.99985		r=	0.99985

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: 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	: HK2520196
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	: 16-MAY-2025
		DATE OF ISSUE	: 23-MAY-2025
PROJECT	: ----	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**

WORK ORDER : HK2520196
SUB-BATCH : 1
CLIENT : ENVIROTECH SERVICES CO.
PROJECT : ----



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2520196-001	Sibata LD-3B (2Z6239)	Equipments	10-May-2025	S/N: 2Z6239

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



Equipment Verification Report (TSP)

Equipment Calibrated:

Type: Laser Dust Monitor
Manufacturer: Sibata LD-3B
Serial No.: 2Z6239
Equipment Ref.: N/A
ALS Job Order: HK2518511

Standard Equipment

Standard Equipment: High Volume Sampler (TSP)
Location: Envirotech Room (Calibration Room)
Equipment Ref.: HVS 8162
Last Calibration Date: 17-Mar-2025

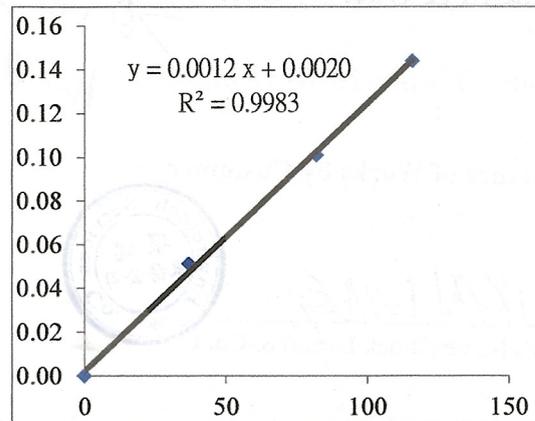
Equipment Verification Results:

Verification Date: 10-May-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	24.2	1010.4	0.051	37
2hr 00mins	1005-1205	24.4	1010.2	0.101	82
3hr 00mins	1400-1700	27.1	1009.8	0.144	116

Linear Regression of Y or X

Slope (K-factor): 0.0012(mg)/Count
Correlation Coefficient (R): 0.9992
Date of Issue: 15-May-2025



Remarks:

1. Strong Correlation (>0.8)
2. Factor 0.0012(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: 15 May 2025

QC Reviewer: K.F.Ho Signature at Date: 15 May 2025

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location : Rm. 712, My Loft, Tuen Mun	Date of Calibration:	17-Mar-25
HVS ID: 8162	Next Calibration Date:	16-May-25
Name and Model : TISCH HVS Model TE-5170	Operator:	K.F.Ho

CONDITIONS

Sea Level Pressure (hpa)	1022	Corrected Pressure (mm Hg)	766.6
Temperature (°C)	18.0	Temperature (K)	291

CALIBRATION ORIFICE

Make:	TISCH	Qstd Slope	2.08315
Model:	TE-5025A	Qstd Intercept	-0.04938
Serial#:	2454		

CALIBRATION

Plate No.	H2O(L) (in)	H2O(R) (in)	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	LINEAR REGRESSION
18	6.8	6.9	13.7	1.830	62	63.03	Slope= 39.645 Intercept= -8.4950 Corr. Coeff.= 0.9912
13	5.2	5.3	10.5	1.605	56	56.93	
10	4.8	4.8	9.6	1.536	50	50.83	
7	2.8	2.8	5.6	1.179	40	40.66	
5	1.6	1.6	3.2	0.897	25	25.41	

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:

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

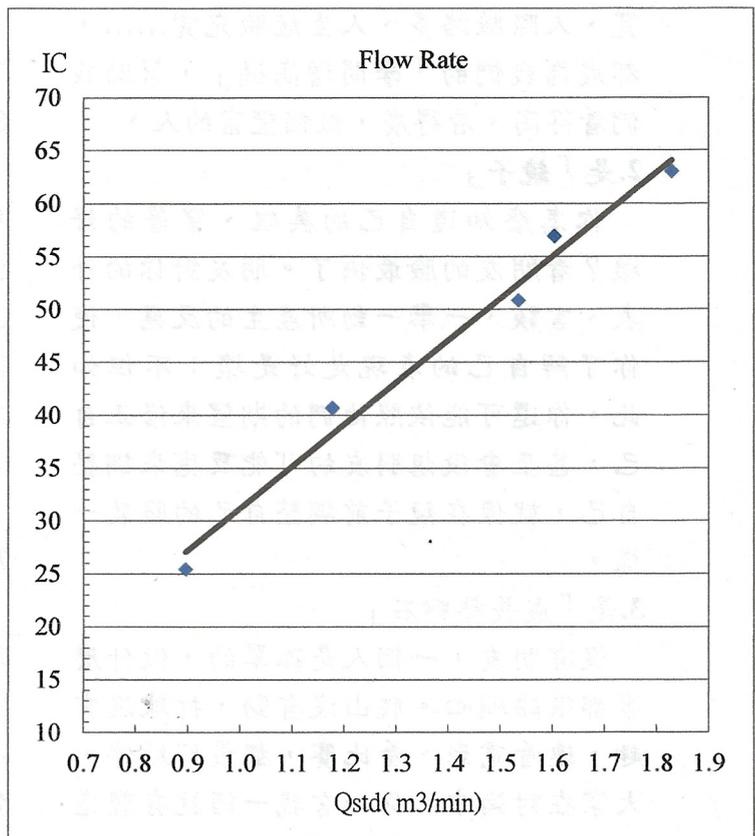
m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure



Certificate of Calibration

Calibration Certification Information			
Cal. Date: December 2, 2024	Rootsmeter S/N: 438320	Ta: 293	°K
Operator: Jim Tisch		Pa: 757.4	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	1.4200	3.2	2.00
2	3	4	1	1.0170	6.4	4.00
3	5	6	1	0.9090	7.9	5.00
4	7	8	1	0.8700	8.8	5.50
5	9	10	1	0.7140	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)
1.0093	0.7108	1.4238	0.9958	0.7013	0.8796
1.0051	0.9883	2.0136	0.9916	0.9750	1.2439
1.0031	1.1035	2.2512	0.9896	1.0886	1.3907
1.0018	1.1515	2.3611	0.9884	1.1361	1.4586
0.9965	1.3956	2.8476	0.9831	1.3769	1.7592
QSTD	m=	2.08315	QA	m=	1.30443
	b=	-0.04938		b=	-0.03050
	r=	0.99985		r=	0.99985

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: 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

Certificate of Calibration

for

Description: *Sound Level Calibrator*
Manufacturer: *Larson Davis*
Type No.: *CAL200*
Serial No.: *16172*

Submitted by:

Customer: *Envirotech Services Co.*
Address: *Rm.712, 7/F., My Loft, 9 Hoi Wing Road,*
Tuen Mun, Hong Kong

Upon receipt for calibration, the instrument was found to be:

- Within**
 Outside

the allowable tolerance.

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

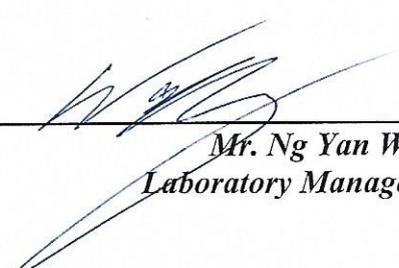
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 6 February 2025

Date of calibration: 7 February 2025

Date of NEXT calibration: 6 February 2026

Calibrated by: 
Calibration Technician

Certified by: 
Mr. Ng Yan Wa
Laboratory Manager

Date of issue: 7 February 2025

Certificate No.: APJ24-143-CC002



Page 1 of 2

1. Calibration Precautions:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Specifications:

Calibration check

3. Calibration Conditions:

Air Temperature: 24.3 °C
 Air Pressure: 1006 hPa
 Relative Humidity: 59.2 %

4. Calibration Equipment:

Test Equipment	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV240081	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV240109	HOKLAS

5. Calibration Results

5.1 Sound Pressure Level

Nominal value dB	Accept lower level dB	Accept upper level dB	Measured value dB
94.0	93.6	94.4	93.7
114.0	113.6	114.4	113.7

6. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 60942 Class 1.

Note:

The values given in this certification only related to the values measured at the time of the calibration.

Certificate No.: APJ24-143-CC002



Page 2 of 2

Certificate of Calibration

for

Description: *Sound Level Meter*
Manufacturer: *RION*
Type No.: *NL-52 (Serial No.: 00710259)*
Microphone: *UC-59 (Serial No.: 12128)*
Preamplifier: *NH-25 (Serial No.:43067)*

Submitted by:

Customer: *Envirotech Services Co.*
Address: *Rm.712, 7/F., My Loft, 9 Hoi Wing Road,
Tuen Mun, Hong Kong*

Upon receipt for calibration, the instrument was found to be:

- Within (31.5Hz – 4kHz)
 Outside

the allowable tolerance.

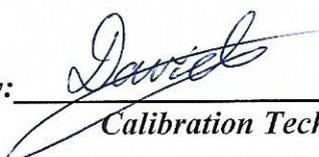
The test equipment used for calibration are traceable to National Standards via:

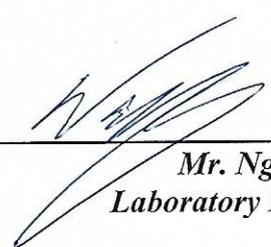
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 6 February 2025

Date of calibration: 7 February 2025

Date of NEXT calibration: 6 February 2026

Calibrated by: 
Calibration Technician

Certified by: 
Mr. Ng Yan Wa
Laboratory Manager

Date of issue: 7 February 2025

Certificate No.: APJ24-143-CC001



Page 1 of 4

1. Calibration Precaution:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Conditions:

Air Temperature: 24.3 °C
 Air Pressure: 1006 hPa
 Relative Humidity: 59.2 %

3. Calibration Equipment:

	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV240081	HOKLAS

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
30-130	dBA SPL	Fast	94	1000	94.0	±0.4

Linearity

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
30-130	dBA SPL	Fast	94	1000	94.0	Ref
			104		104.0	±0.3
			114		114.0	±0.3

Time Weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
30-130	dBA SPL	Fast	94	1000	94.0	Ref
		Slow			94.0	±0.3

Frequency Response

Linear Response

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB	
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz			
30-130	dB	SPL	Fast	94	31.5	94.0	±2.0
					63	94.1	±1.5
					125	94.1	±1.5
					250	94.0	±1.4
					500	94.0	±1.4
					1000	94.0	Ref
					2000	93.9	±1.6
					4000	93.3	±1.6

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB	
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz			
30-130	dBA	SPL	Fast	94	31.5	54.6	-39.4±2.0
					63	67.9	-26.2±1.5
					125	78.0	-16.1±1.5
					250	85.4	-8.6±1.4
					500	90.8	-3.2±1.4
					1000	94.0	Ref
					2000	95.1	+1.2±1.6
					4000	94.3	+1.0±1.6

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB	
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz			
30-130	dBC	SPL	Fast	94	31.5	91.0	-3.0±2.0
					63	93.3	-0.8±1.5
					125	93.9	-0.2±1.5
					250	94.0	-0.0±1.4
					500	94.0	-0.0±1.4
					1000	94.0	Ref
					2000	93.7	-0.2±1.6
					4000	92.5	-0.8±1.6



5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.15
	63 Hz	± 0.10
	125 Hz	± 0.10
	250 Hz	± 0.05
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted 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. (A+A)*L shall not be liable for any loss or damage resulting from the use of the equipment.

Certificate No.: APJ24-143-CC001



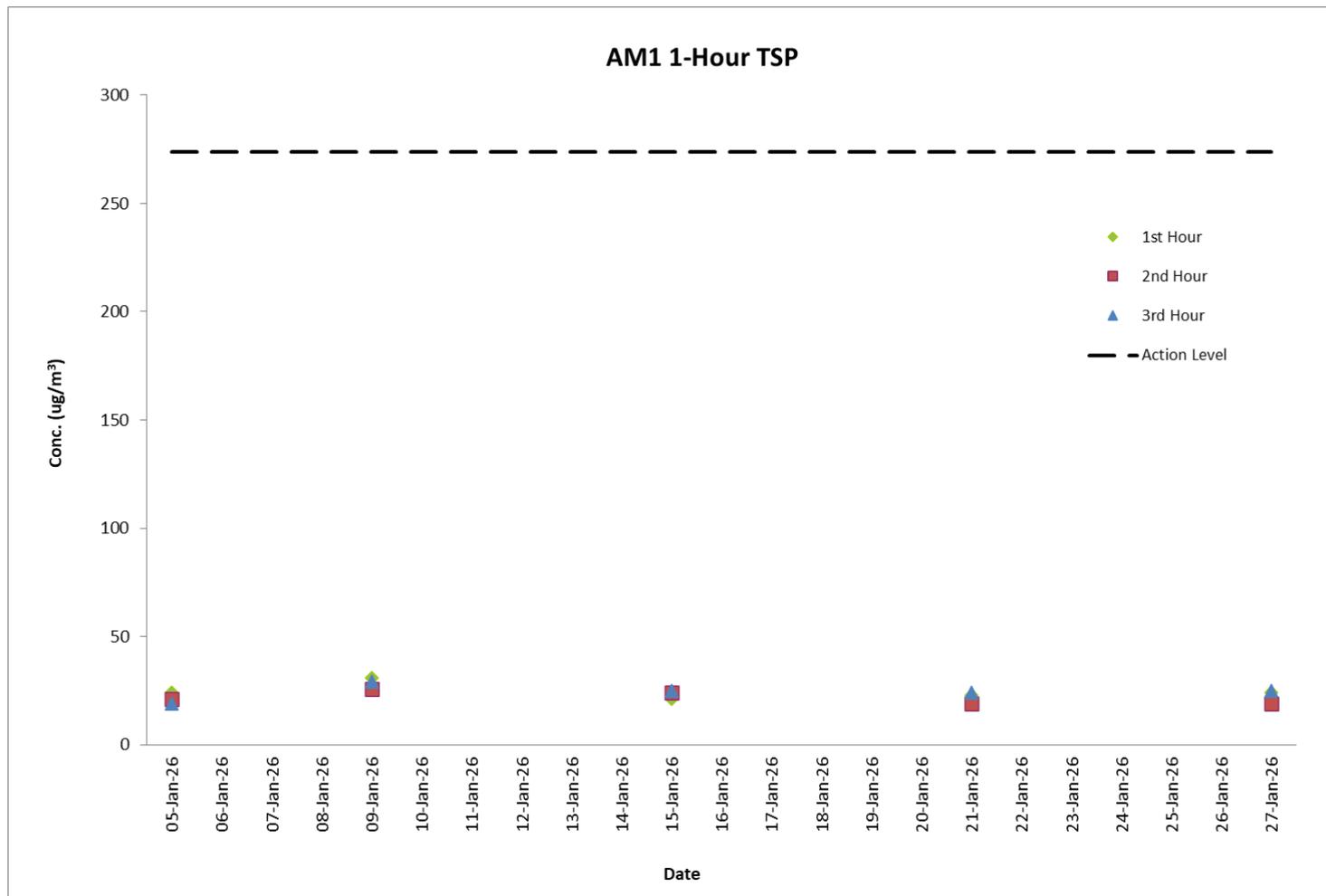
Page 4 of 4

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				
05-Jan-26	Sunny	8:30 - 11:30	24	21	19	273.7	500	19	31
09-Jan-26	Sunny	8:32 - 11:32	31	26	29	273.7	500		
15-Jan-26	Sunny	8:31 - 11:31	21	24	25	273.7	500		
21-Jan-26	Cloudy	8:28 - 11:28	23	19	24	273.7	500		
27-Jan-26	Cloudy	8:33 - 11:33	24	19	25	273.7	500		

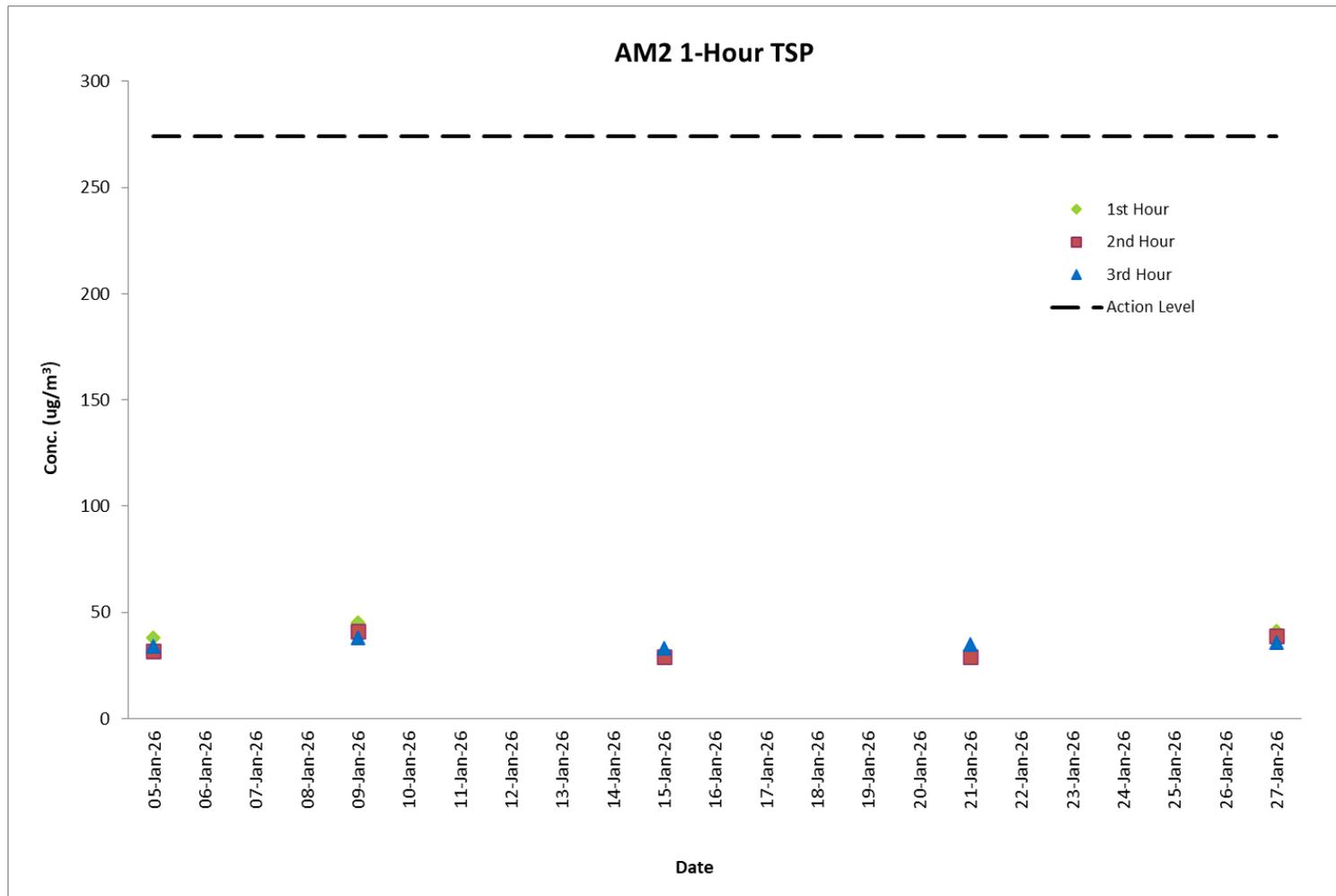
Graphical Presentation of Air Quality Monitoring Result at Station AM1 (1-hour TSP)



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				
05-Jan-26	Sunny	8:47 - 11:47	38	32	34	274.2	500	29	45
09-Jan-26	Sunny	8:49 - 11:49	45	41	38	274.2	500		
15-Jan-26	Sunny	8:48 - 11:48	31	29	33	274.2	500		
21-Jan-26	Cloudy	8:46 - 11:46	31	29	35	274.2	500		
27-Jan-26	Cloudy	8:50 - 11:50	41	39	36	274.2	500		

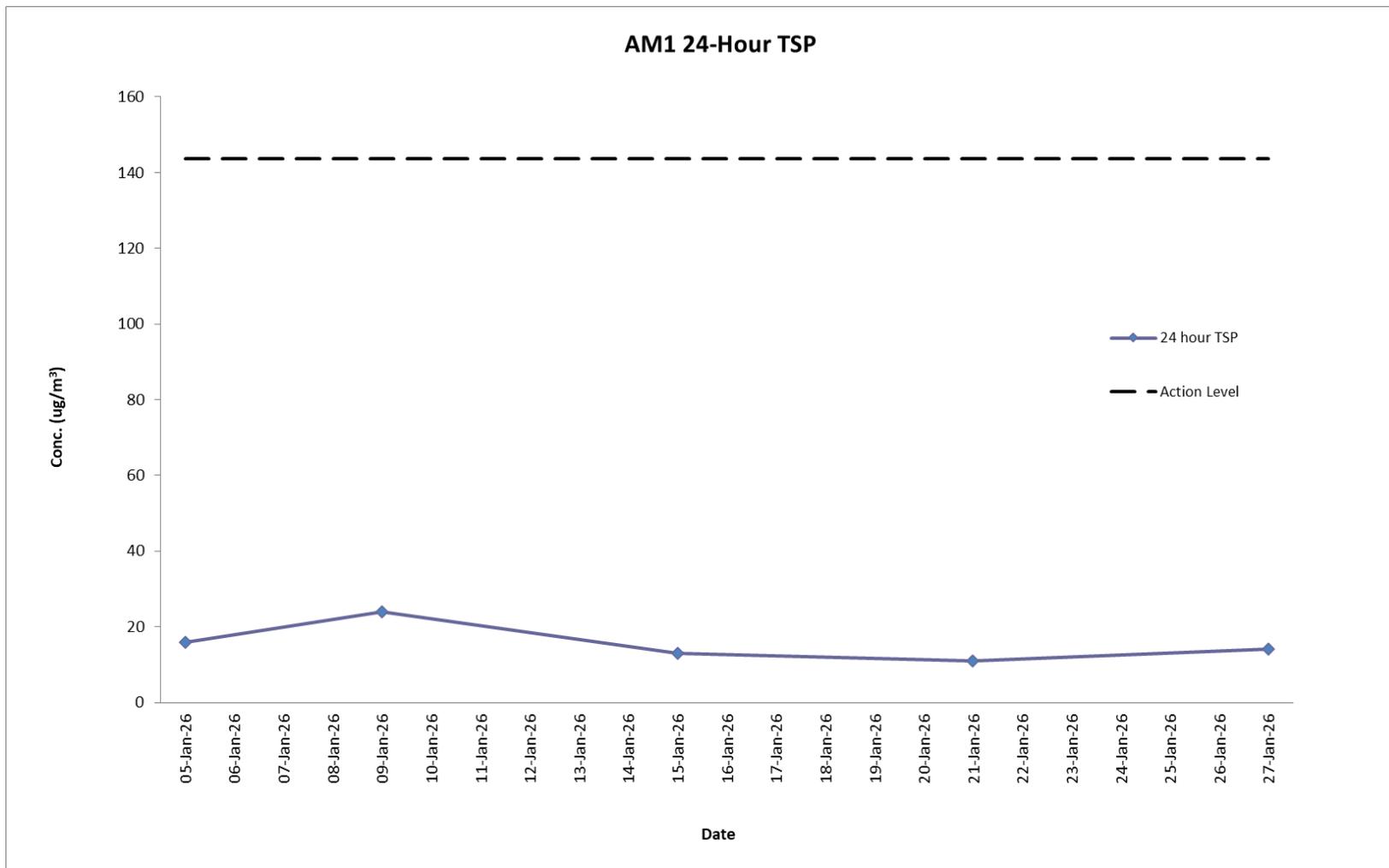
Graphical Presentation of Air Quality Monitoring Result at Station AM2 (1-hour TSP)



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				
05-Jan-26	08:28	06-Jan-26	08:28	2.7598	2.7890	30700.38	30724.38	24	1.26	1.26	1.26	16	Sunny	143.6	260
09-Jan-26	08:30	10-Jan-26	08:30	2.7535	2.7973	30724.38	30748.38	24	1.26	1.26	1.26	24	Sunny	143.6	260
15-Jan-26	08:29	16-Jan-26	08:29	2.7546	2.7783	30748.38	30772.38	24	1.26	1.26	1.26	13	Sunny	143.6	260
21-Jan-26	08:26	22-Jan-26	08:26	2.7627	2.7821	30772.38	30796.38	24	1.26	1.26	1.26	11	Fine	143.6	260
27-Jan-26	08:31	28-Jan-26	08:31	2.7635	2.7880	30796.38	30820.38	24	1.26	1.26	1.26	14	Cloudy	143.6	260

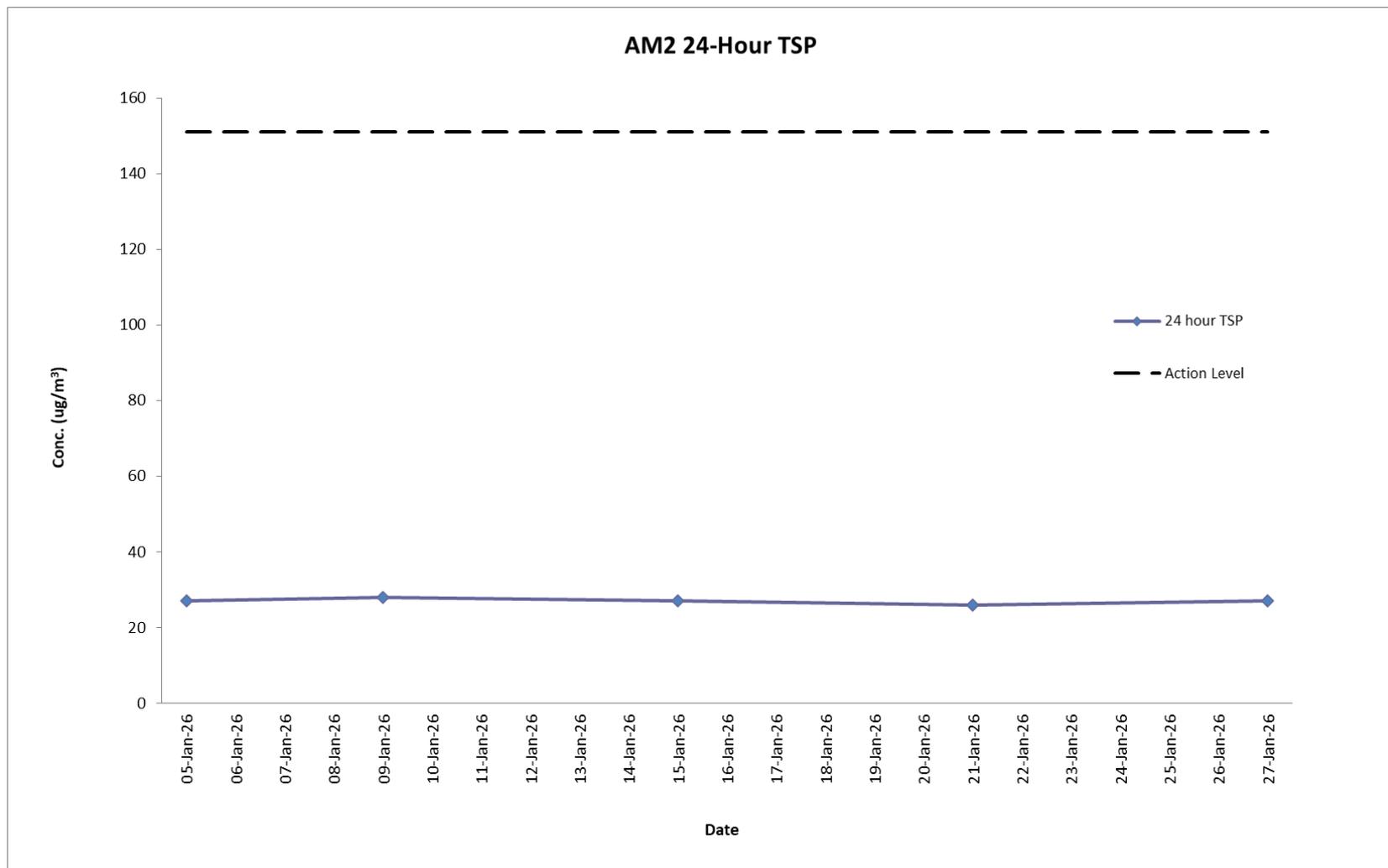
Graphical Presentation of Air Quality Monitoring Result at Station AM1 (24-hour TSP)



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					
05-Jan-26	08:45	06-Jan-26	08:45	24	27	Sunny	151.1	260
09-Jan-26	08:46	10-Jan-26	08:46	24	28	Sunny	151.1	260
15-Jan-26	08:46	16-Jan-26	08:46	24	27	Sunny	151.1	260
21-Jan-26	08:44	22-Jan-26	08:44	24	26	Cloudy	151.1	260
27-Jan-26	08:48	28-Jan-26	08:48	24	27	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)
05-Jan-26	9:34	62.8	58.6	64
05-Jan-26	9:39	63.5	59.3	
05-Jan-26	9:44	61.2	57.0	
05-Jan-26	9:49	61.9	57.9	
05-Jan-26	9:54	62.0	58.7	
05-Jan-26	9:59	63.7	59.6	
15-Jan-26	9:35	61.8	57.6	64
15-Jan-26	9:40	62.5	58.3	
15-Jan-26	9:45	63.2	59.0	
15-Jan-26	9:50	63.9	59.9	
15-Jan-26	9:55	62.0	58.6	
15-Jan-26	10:00	63.7	59.7	
21-Jan-26	9:34	63.5	59.3	64
21-Jan-26	9:39	62.2	58.6	
21-Jan-26	9:44	63.9	59.0	
21-Jan-26	9:49	62.8	58.7	
21-Jan-26	9:54	61.0	57.9	
21-Jan-26	9:59	63.7	59.6	
27-Jan-26	9:37	63.7	59.9	64
27-Jan-26	9:42	62.5	58.3	
27-Jan-26	9:47	61.2	57.0	
27-Jan-26	9:52	61.8	57.6	
27-Jan-26	9:57	63.0	59.9	
27-Jan-26	10:02	62.9	58.6	

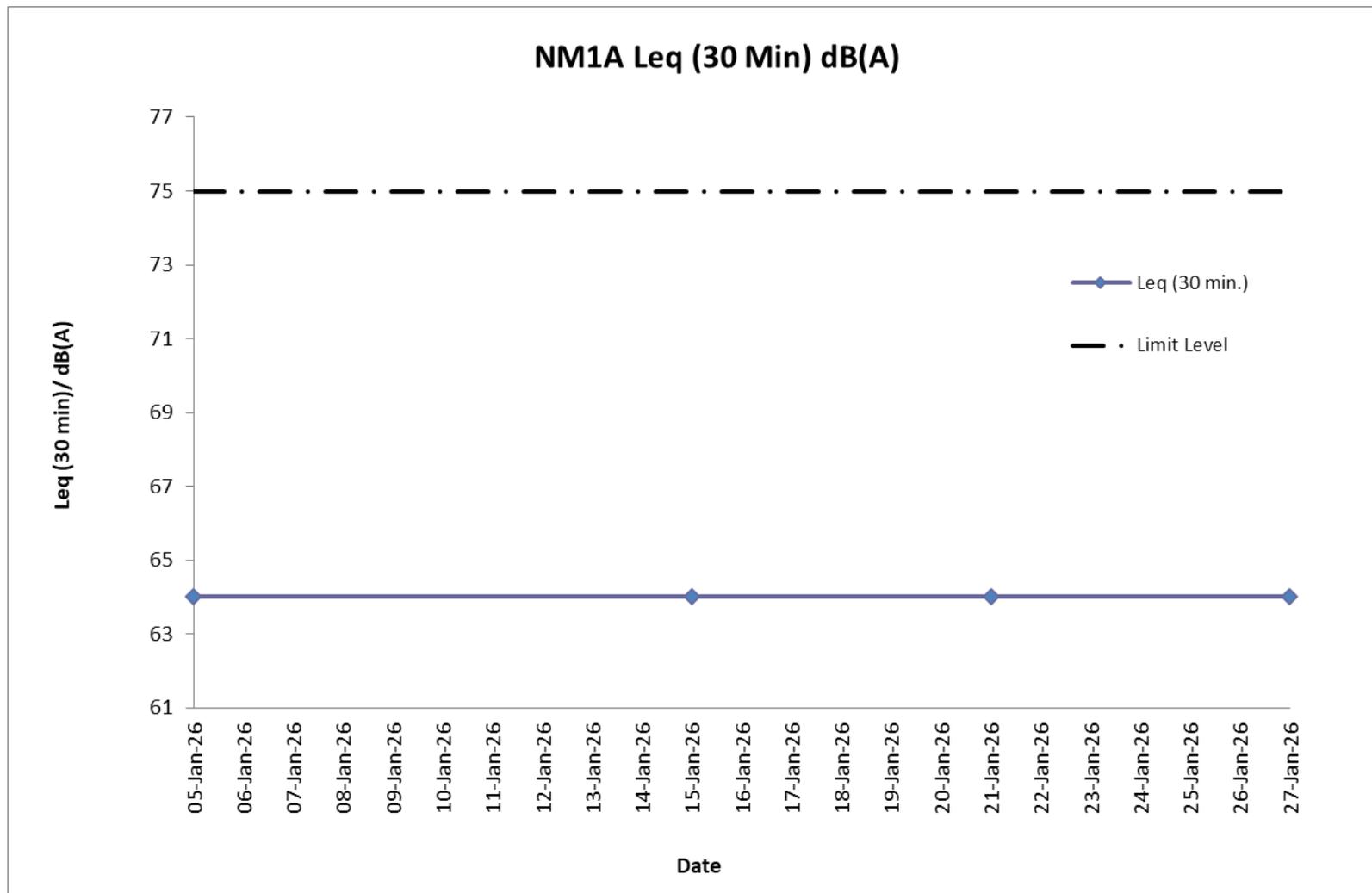
Remarks:

* +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

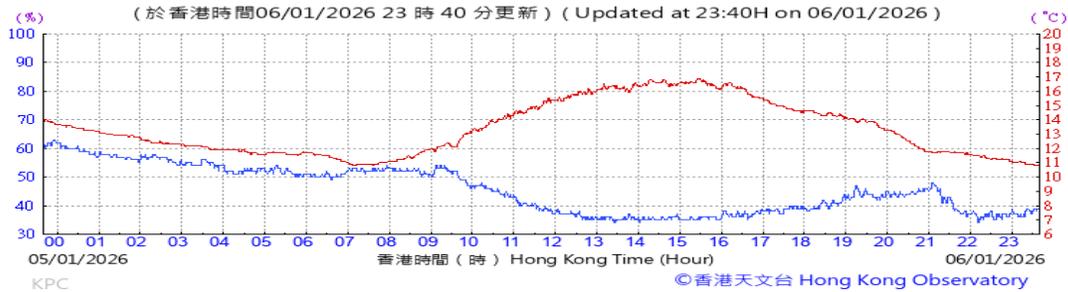


H. Meteorological Data Extracted from Hong Kong Observatory

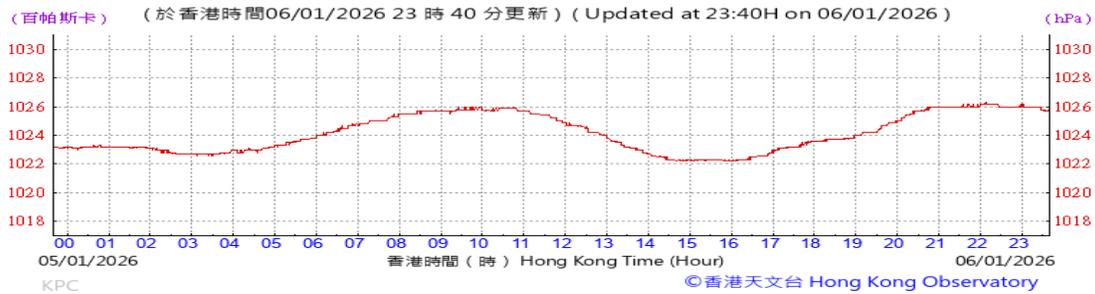
Extract of Meteorological Observations for King's Park Automatic Weather Station

January 2026

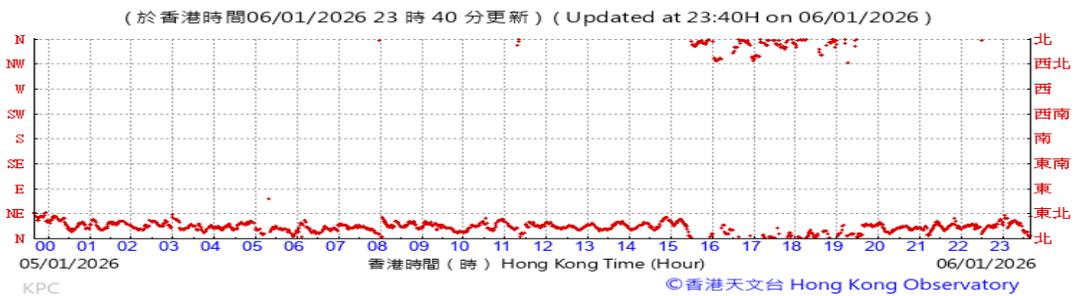
Temperature/Humidity:



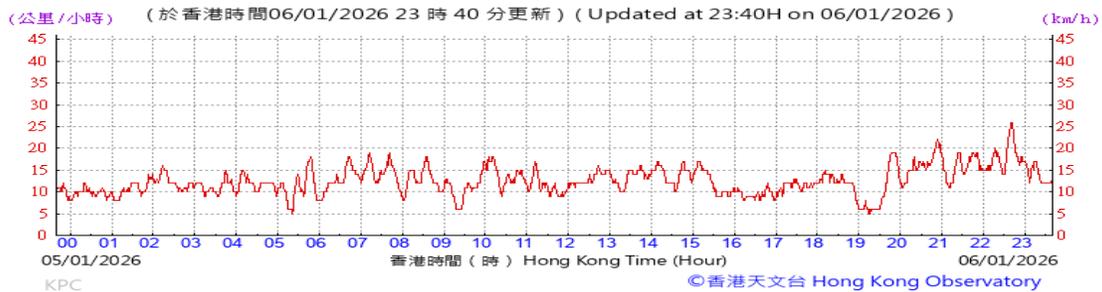
Pressure:



Wind Direction:

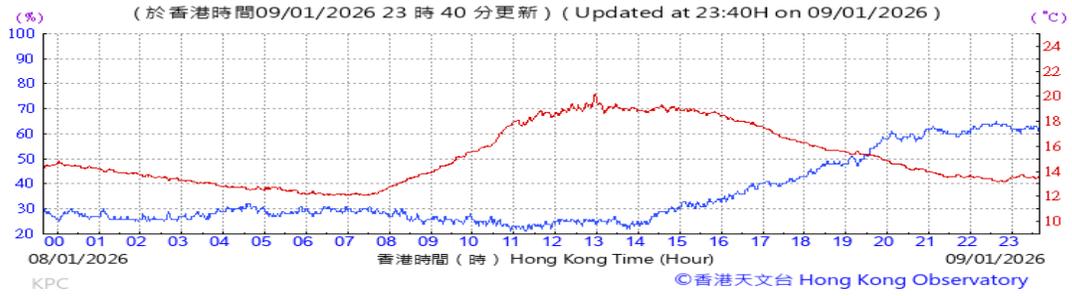


Wind Speed:

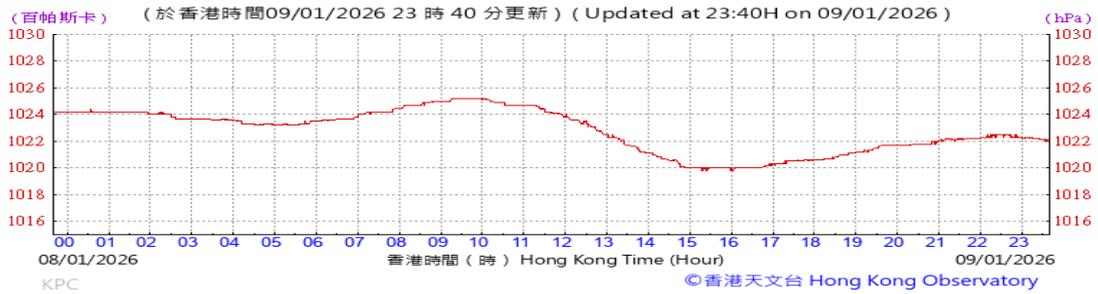


*the weather conditions were checked by the ET for the monitoring event on 5 Jan 2026, yet the meteorological graphs for 5 Jan 2026 were not available on the HKO website

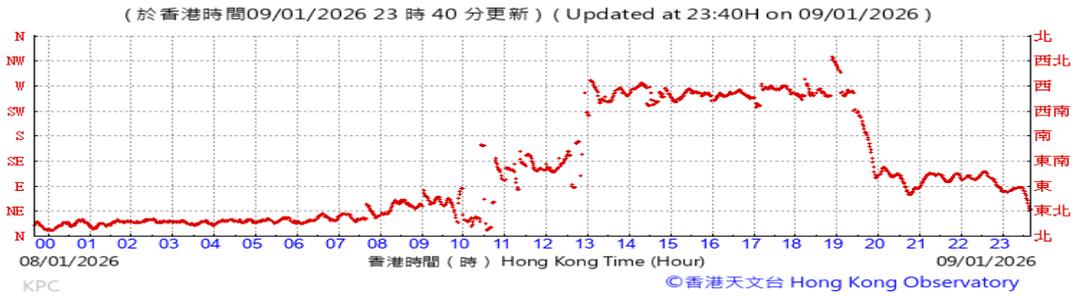
Temperature/Humidity:



Pressure:



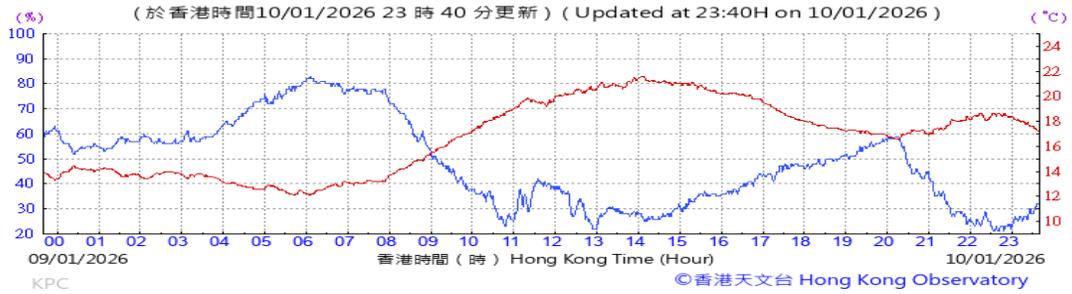
Wind Direction:



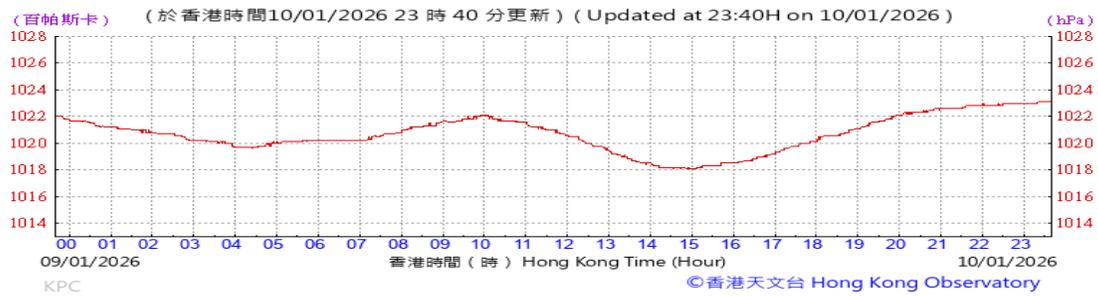
Wind Speed:



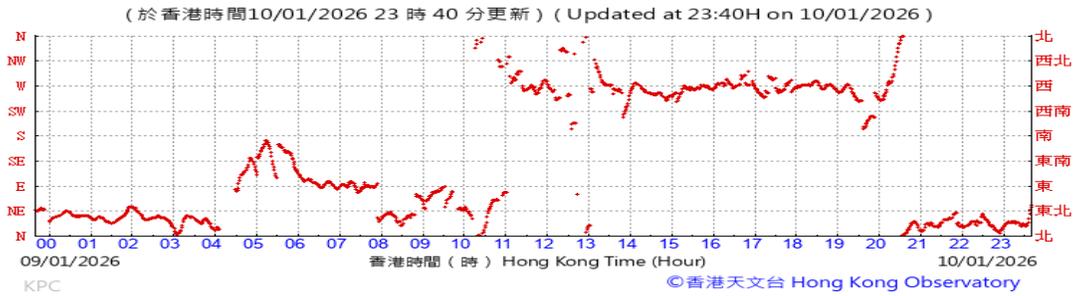
Temperature/Humidity:



Pressure:



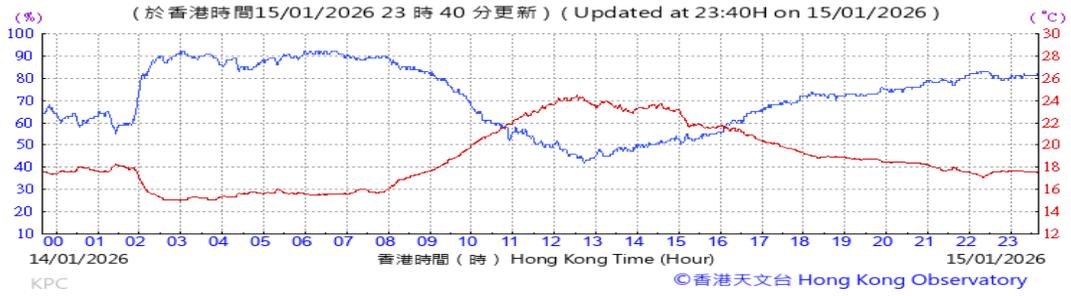
Wind Direction:



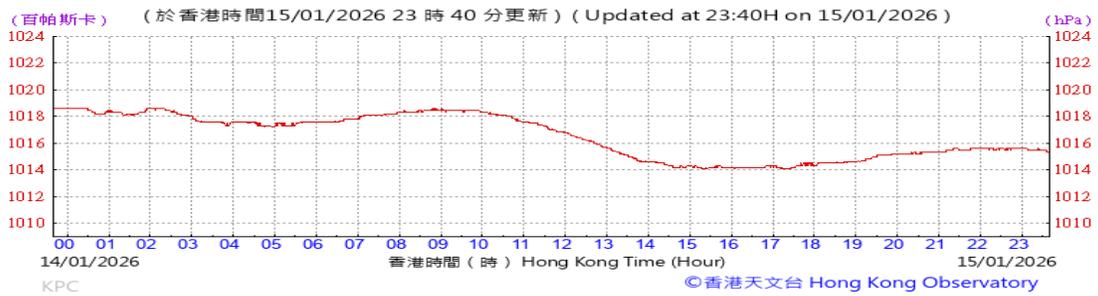
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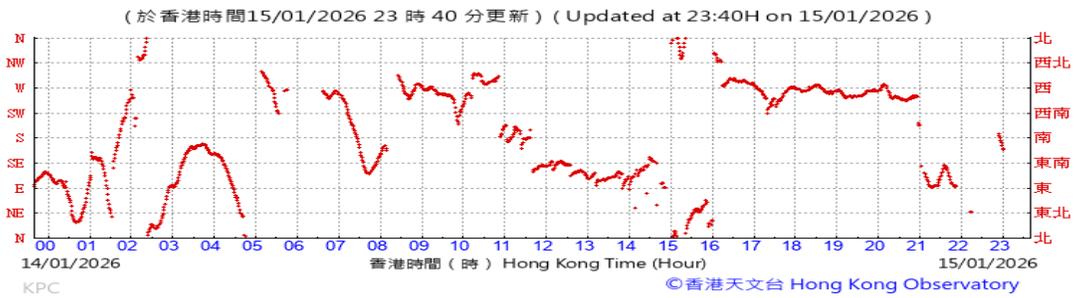
Temperature/Humidity:



Pressure:



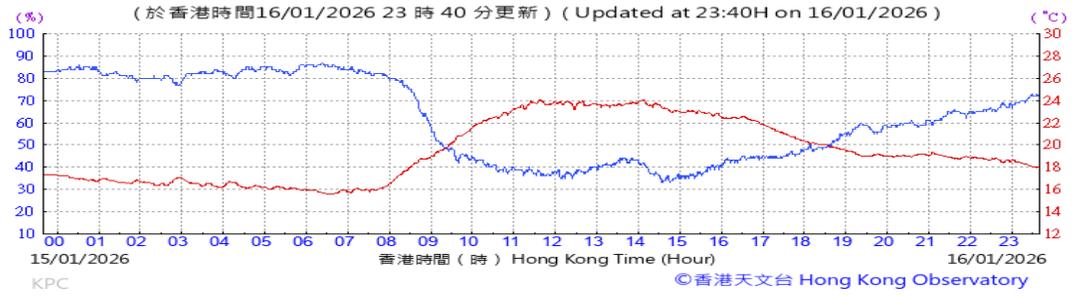
Wind Direction:



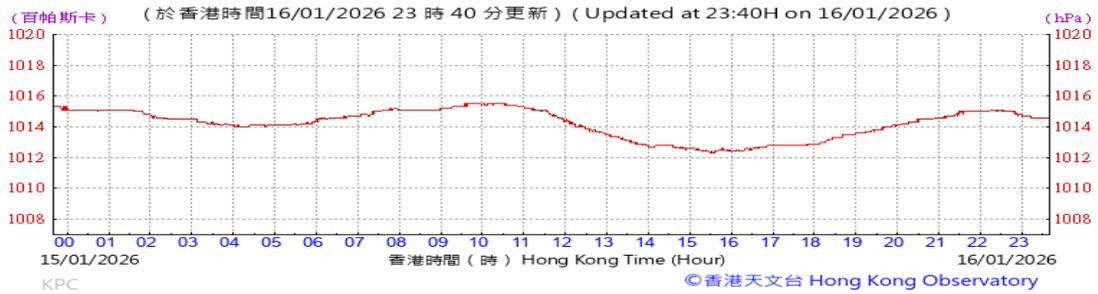
Wind Speed:



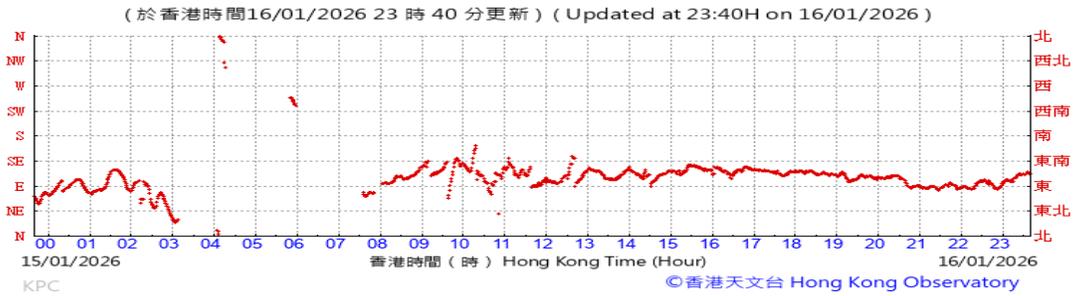
Temperature/Humidity:



Pressure:



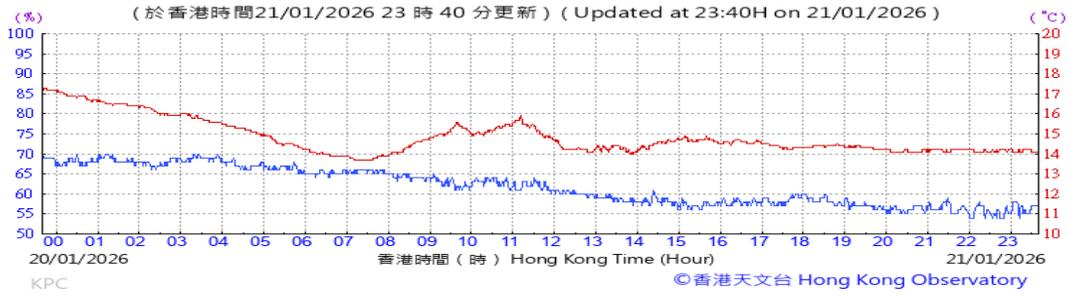
Wind Direction:



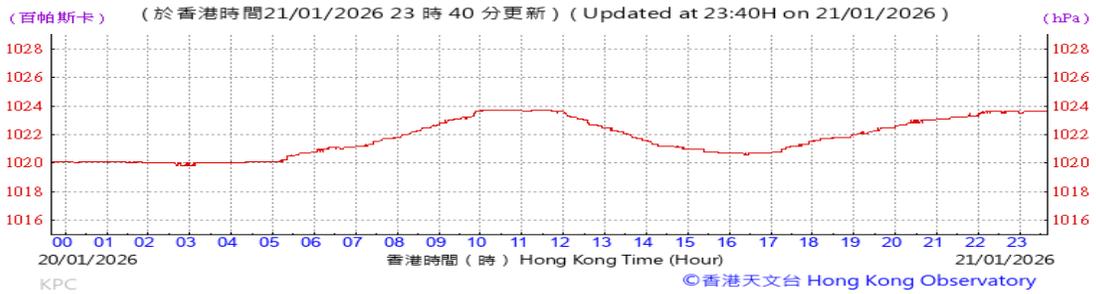
Wind Speed:



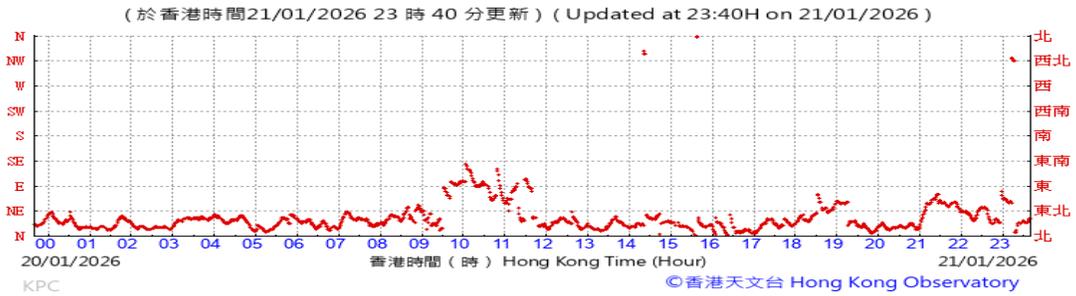
Temperature/Humidity:



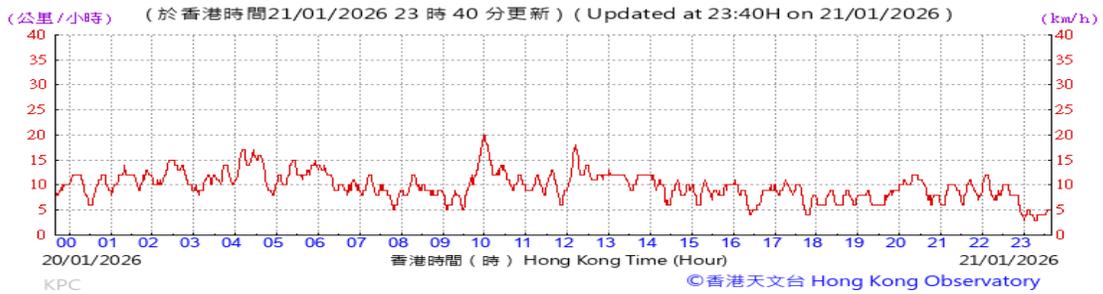
Pressure:



Wind Direction:



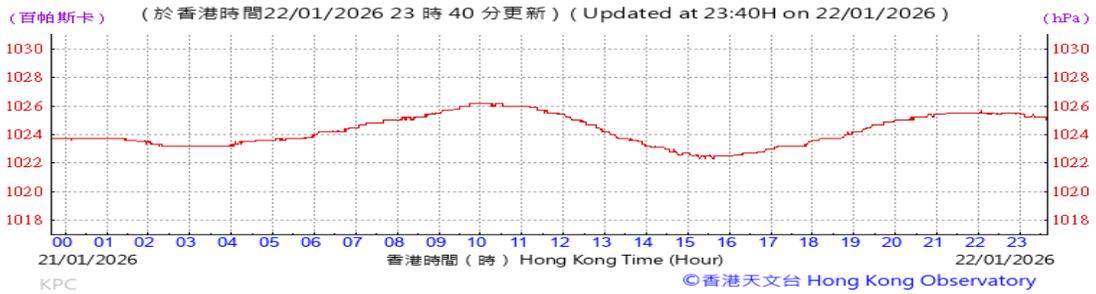
Wind Speed:



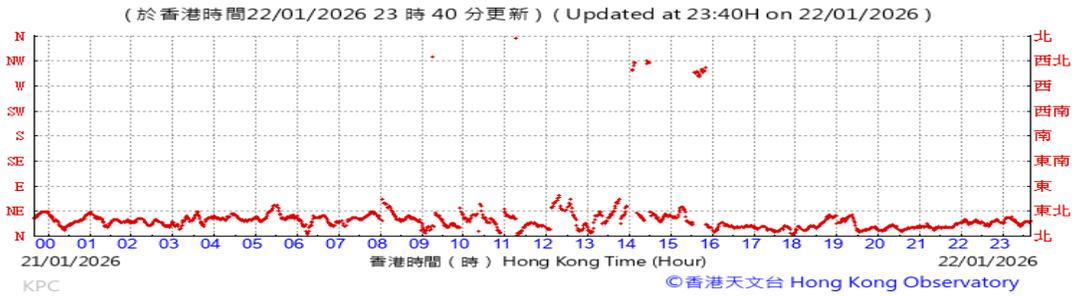
Temperature/Humidity:



Pressure:



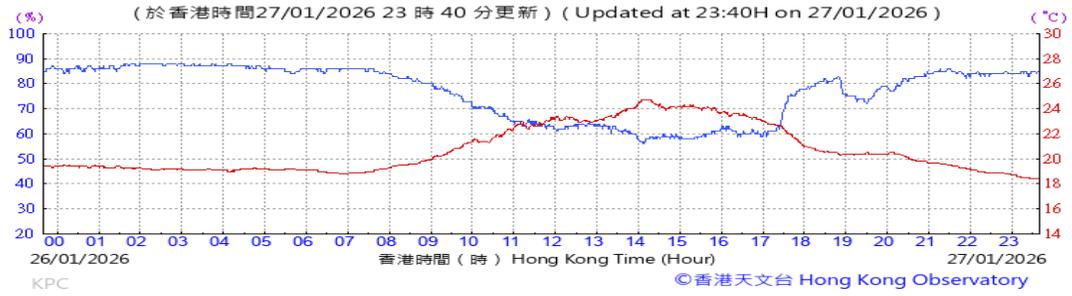
Wind Direction:



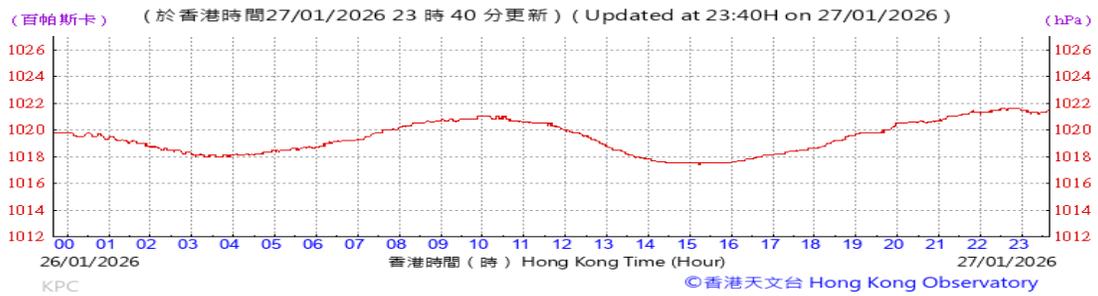
Wind Speed:



Temperature/Humidity:



Pressure:



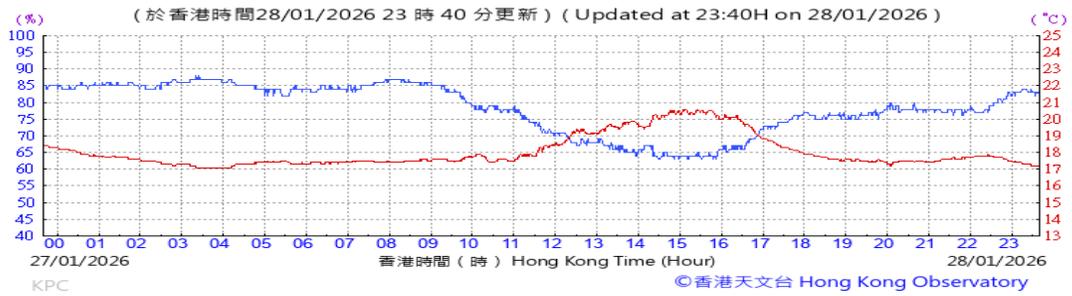
Wind Direction:



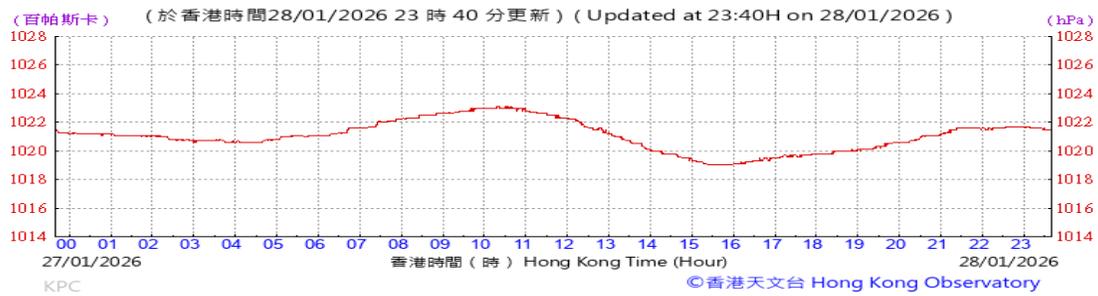
Wind Speed:



Temperature/Humidity:



Pressure:



Wind Direction:



Wind Speed:



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
Sub-total (2026)	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
Total	1021989.9	0.0	0.0	543635.2	477349.0	1005.7	2301.1	13716.7	19.5	10.8	0.0	14.9	34504.7

Note:

- 704.20 tonnes, 45.97 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 (January 2026)

EM&A Ref.	Recommendation Measures	Implementation Stage
Air Quality Impact (Construction)		
2.1 & 10.3.1	General Dust Control Measures Frequent water spraying for active construction areas (12 times a day or once every one hour), including Heavy construction activities such as construction of buildings or roads, drilling, ground excavation, cut and fill operations (i.e., earth moving)	✓
2.1 & 10.3.1	Best Practice For Dust Control The relevant best practices for dust control as stipulated in the Air Pollution Control (construction Dust) Regulation should be adopted to further reduce the construction dust impacts from the Project. These best practices include: <i>Good Site Management</i> <ul style="list-style-type: none"> • Good site management is important to help reducing potential air quality impact down to an acceptable level. As a general guide, the Contractor should maintain high standard of housekeeping to prevent emission of fugitive dust. Loading, unloading, handling and storage of raw materials, wastes or by-products should be carried out in a manner so as to minimise the release of visible dust emission. Any piles of materials accumulated on or around the work areas should be cleaned up regularly. Cleaning, repair and maintenance of all plant facilities within the work areas should be carried out in a manner minimising generation of fugitive dust emissions. The material should be handled properly to prevent fugitive dust emission before cleaning. <i>Disturbed Parts of the Roads</i> <ul style="list-style-type: none"> • Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or • Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet. <i>Exposed Earth</i> <ul style="list-style-type: none"> • Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seeding with latex, vinyl, bitumen within six months after the last construction activity on the site or part of the site where the exposed earth lies. <i>Loading, Unloading or Transfer of Dusty Materials</i> <ul style="list-style-type: none"> • 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> <ul style="list-style-type: none"> • 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 exposed earth in this project.
		✓
		✓
		✓

EM&A Ref.	Recommendation Measures	Implementation Stage
		L2
	<i>Transport of Dusty Materials</i>	
	<ul style="list-style-type: none"> 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>	
	<ul style="list-style-type: none"> 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>	
	<ul style="list-style-type: none"> 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. 	✓
	<ul style="list-style-type: none"> Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels. 	✓
	<ul style="list-style-type: none"> 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>	
	<ul style="list-style-type: none"> 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)	
	<p>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:</p>	
	Exhaust from Dust Arrestment Plant	
	<ul style="list-style-type: none"> 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	
	<ul style="list-style-type: none"> 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	
	<ul style="list-style-type: none"> 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
	<p>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.</p>	L2 ✓
Noise Impact (Construction)		
3.1 & 10.4.1	<p>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:</p> <ul style="list-style-type: none"> • 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	<p>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.</p>	✓
3.1 & 10.4.1	<p>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.</p>	✓
3.1 & 10.4.1	<p>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.</p>	✓
3.1 & 10.4.1	<p>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.</p>	✓

Implementation Stage

EM&A Ref. Recommendation Measures

L2

3.1 & 10.4.1	<p>Scheduling of Construction Works outside School Examination Periods</p> <p>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.</p>	<p>N/A</p> <p>No educational institutions nearby the site.</p>
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Water Quality Impact (Construction)

4.1 & 10.5.1	<p>Construction site runoff and drainage</p> <p>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:</p> <ul style="list-style-type: none"> • 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. • 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. 	<p>✓</p> <p>✓</p> <p>Obs</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p>
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EM&A Ref.	Recommendation Measures	Implementation Stage
		L2
	<ul style="list-style-type: none"> 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. 	✓
	<p>Barging facilities and activities</p> <p>Recommendations for good site practices during operation of the proposed barging point include:</p> <ul style="list-style-type: none"> 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. 	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.
4.1 & 10.5.1	<p>Sewage effluent from construction workforce</p> <p>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.</p>	✓
4.1 & 10.5.1	<p>General construction activities</p> <ul style="list-style-type: none"> 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. 	✓
		Obs

EM&A Ref. Recommendation Measures

L2

Waste Management Implications (Construction)

6.1 & 10.7.1	Good Site Practices	<p>Recommendations for good site practices during the construction activities include:</p> <ul style="list-style-type: none"> • 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 	<p>✓</p> <p>✓</p> <p>Obs, Rem</p> <p>✓</p> <p>✓</p> <p>✓</p>
6.1 & 10.7.1	Waste Reduction Measures	<p>Recommendations to achieve waste reduction include:</p> <ul style="list-style-type: none"> • 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 	<p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p>
6.1 & 10.7.1	Inert and Non-inert C&D Materials	<p>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.</p> <ul style="list-style-type: none"> • 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. 	<p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p>

EM&A Ref.	Recommendation Measures	Implementation Stage
	<ul style="list-style-type: none"> 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. 	L2 ✓
6.1 & 10.7.1	<p>Chemical Waste</p> <ul style="list-style-type: none"> 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	<p>General Refuse</p> <p>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.</p>	✓
Land Contamination (Construction)		
7.1 & 10.8.1	<p>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.</p> <p>The following measures are proposed for excavation and transportation of contaminated material:</p> <ul style="list-style-type: none"> 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.

Implementation Stage

L2

EM&A Ref. Recommendation Measures

<ul style="list-style-type: none"> 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; 	<p>N/A TST Fire Station is out of this project boundary, no mitigation measure is required.</p>
<ul style="list-style-type: none"> Stockpiling of contaminated excavated materials on site should be avoided as far as possible; 	<p>N/A TST Fire Station is out of this project boundary, no mitigation measure is required.</p>
<ul style="list-style-type: none"> The use of contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out; 	<p>N/A TST Fire Station is out of this project boundary, no mitigation measure is required.</p>
<ul style="list-style-type: none"> Vehicles containing any contaminated excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater; 	<p>N/A TST Fire Station is out of this project boundary, no mitigation measure is required.</p>
<ul style="list-style-type: none"> Truck bodies and tailgates should be sealed to stop any discharge; 	<p>N/A TST Fire Station is out of this project boundary, no mitigation measure is required.</p>
<ul style="list-style-type: none"> 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; 	<p>N/A TST Fire Station is out of this project boundary, no mitigation measure is required.</p>
<ul style="list-style-type: none"> Speed control for trucks carrying contaminated materials should be exercised; 	<p>N/A TST Fire Station is out of this project boundary, no mitigation measure is required.</p>
<ul style="list-style-type: none"> 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 	<p>N/A TST Fire Station is out of this project boundary, no mitigation measure is required.</p>

EM&A Ref. Recommendation Measures		Implementation Stage
		L2
	<ul style="list-style-type: none"> 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	1	0	0
From 1 March 2016 to end of the reporting month (January 2026)	64	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

Contents

Executive summary	1
1 Introduction	2
1.1 Background	2
1.2 Project Organisation	2
1.3 Construction Works Status in the Reporting Period	2
1.4 Summary of EM&A Requirements and Alternative Monitoring Locations	3
1.4.1 EM&A Requirements	3
1.4.2 Alternative Monitoring Locations	3
2 Impact Monitoring Methodology	6
2.1 Introduction	6
2.2 Air Quality	6
2.2.1 Monitoring Parameters, Frequency and Duration	6
2.2.2 Monitoring Locations	6
2.2.3 Monitoring Equipment	6
2.2.4 Monitoring Methodology	7
2.3 Noise	9
2.3.1 Monitoring Parameters, Frequency and Duration	9
2.3.2 Monitoring Location	9
2.3.3 Monitoring Equipment	9
2.3.4 Monitoring Methodology	10
2.4 Landscape and Visual	10
2.4.1 Monitoring Program	10
3 Monitoring Results	11
3.1 Impact Monitoring	11
3.2 Air Quality Monitoring	11
3.2.1 1-hour TSP	11
3.2.2 24-hour TSP	11
3.3 Noise Monitoring	12
3.4 Landscape and Visual Impact	13
4 Site Environmental Management	14
4.1 Site Inspection	14
4.1.1 Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095)	14
4.2 Advice on the Solid and Liquid Waste Management Status	15
4.2.1 Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095)	15
4.3 Status of Environmental Licenses and Permits	15
4.3.1 Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095)	16

4.4	Recommended Mitigation Measures	16
4.4.1	Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095)	16
5	Compliance with Environmental Permit	17
6	Report in Non-compliance, Complaints, Notification of Summons and Successful Prosecutions	18
6.1	Record on Non-compliance of Action and Limit Levels	18
6.2	Record on Environmental Complaints Received	18
6.3	Record on Notifications of Summons and Successful Prosecution	18
7	Future Key Issues	19
7.1	Construction Works for the Coming Month(s)	19
7.2	Key Issues for the Coming Month	19
7.2.1	Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095)	19
7.3	Monitoring Schedule for the Coming Month	19
8	Conclusions and Recommendations	20
8.1	Conclusions	20
8.2	Recommendations	20
Figure 1	Site Layout Plan and Monitoring Stations	21
Appendices		22
A.	Project Organisation	23
B.	Tentative Construction Programme	24
C.	Action and Limit Levels for Construction Phase	25
D.	Event and Action Plan for Air Quality, Noise, Landscape and Visual Impact	26
E.	Monitoring Schedule	27
F.	Calibration Certifications	28
G.	Graphical Plots of the Monitoring Results	29
H.	Meteorological Data Extracted from Hong Kong Observatory	30

I.	Waste Flow table	31
J.	Environmental Mitigation Measures – Implementation Status	32
K.	Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions	33

Executive summary

This Monthly EM&A Report presents the monitoring works at Zones 2A, 2B & 2C from 01 to 31 January 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:

- Pipe Pile and King Post Works
- Jet Grouting Works
- Double Deck Hoarding Works
- Temporary Steel Platform
- ELS Installation
- 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.

The Monthly EM&A Report is prepared in accordance with the Condition 3.4 of the Environmental Permit No. EP-453/2013/A. This Monthly EM&A Report presents the monitoring works at 2A, 2B & 2C from 01 to 31 January 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:

- Pipe Pile and King Post Works
- Jet Grouting Works

- Double Deck Hoarding Works
- Temporary Steel Platform
- ELS installation

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	Sibata-LD-3B (Serial No.: 276004, 336338, 476672)

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	Calibrator
Integrating Sound Level Meter	
AWA5661 (Serial No.: 301135)	AWA6221A (Serial No.: AWA6221A0439E)

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	02-Jan-26	13:00	41	41	39	39-56	280.4	500
	08-Jan-26	7:04	48	54	47			
	14-Jan-26	13:02	49	56	52			
	20-Jan-26	7:01	52	52	50			
	26-Jan-26	13:05	46	46	47			
	31-Jan-26	7:06	48	44	47			
AM4A	02-Jan-26	13:08	40	38	47	38-58	278.5	500
	08-Jan-26	7:12	53	54	46			
	14-Jan-26	13:10	52	53	54			
	20-Jan-26	7:09	58	57	57			
	26-Jan-26	13:13	44	47	48			
	31-Jan-26	7:14	41	43	50			
AM5A	02-Jan-26	13:23	38	46	47	38-57	275.4	500
	08-Jan-26	7:29	53	53	50			
	14-Jan-26	13:25	48	49	50			
	20-Jan-26	7:26	50	54	57			
	26-Jan-26	13:28	50	52	48			
	31-Jan-26	7:31	41	43	46			

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	02-Jan-26	10:00	38	38-50	152.4	260
	08-Jan-26	10:00	49			
	14-Jan-26	10:00	48			
	20-Jan-26	10:00	50			
	26-Jan-26	10:00	44			
	31-Jan-26	10:00	47			
AM4A	02-Jan-26	10:00	40	40-56	152.6	260
	08-Jan-26	10:00	49			
	14-Jan-26	10:00	51			
	20-Jan-26	10:00	56			
	26-Jan-26	10:00	43			
	31-Jan-26	10:00	45			
AM5A	02-Jan-26	10:00	42	41-51	141.1	260
	08-Jan-26	10:00	49			
	14-Jan-26	10:00	46			
	20-Jan-26	10:00	51			
	26-Jan-26	10:00	48			
	31-Jan-26	10:00	41			

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	02-Jan-26	13:00	13:30	62.9	75
	08-Jan-26	07:04	07:34	62.9	
	14-Jan-26	13:02	13:32	62.5	
	20-Jan-26	07:01	07:31	62.4	
	26-Jan-26	13:05	13:35	62.9	
	31-Jan-26	08:05	08:35	63.2	
NM3A	02-Jan-26	14:30	15:00	60.8	75
	08-Jan-26	08:25	08:55	61.2	
	14-Jan-26	14:32	15:02	60.8	
	20-Jan-26	08:17	08:47	61.1	
	26-Jan-26	14:35	15:05	61.1	

	31-Jan-26	09:21	09:51	61.0	
	02-Jan-26	16:35	17:05	58.2	
	08-Jan-26	09:00	09:30	58.3	
NM4A	14-Jan-26	16:37	17:07	58.2	70/65 [#]
	20-Jan-26	08:52	09:22	58.5	
	26-Jan-26	16:40	17:10	58.2	
	31-Jan-26	09:56	10:26	58.4	
	02-Jan-26	13:50	14:20	63.5	
	08-Jan-26	07:44	08:14	63.4	
NM5A*	14-Jan-26	13:52	14:22	63.9	75
	20-Jan-26	07:39	08:09	63.6	
	26-Jan-26	13:55	14:25	63.8	
	31-Jan-26	08:43	09:13	63.5	

Remarks:

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

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

No school examination was conducted during reporting period.

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

Construction Noise Permits for the works carried out during restricted hours were obtained and listed in **Table 4.3**.

3.4 Landscape and Visual Impact

Landscape and visual impact inspections were conducted as part of the weekly site inspections on 7 and 21 January 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 07, 14, 21 and 28 January 2026 at Zones 2A, 2B & 2C. The joint site inspection with IEC, ET, ER and Contractor for Zones 2A, 2B & 2C was held on 14 January 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)
07-Jan-26	Air Quality & Waste Management	The contractor was reminded that dust suppression measures shall be strengthened. The contractor was reminded to have better housekeeping and dispose of refuse frequently at designed areas.	Water was sprayed on the dry access road. General refuse was disposed.	12-Jan-26
		The contractor was reminded that NRMM labels shall be provided for all regulated machinery on site, using either a green or yellow colored label.	The colour of NRMM was revised.	
14-Jan-26	Air Quality & Noise Impact & Water Quality	The contractor was reminded that dust suppression measures shall be strengthened. The contractor was reminded that noise insulating fabric shall be adopted for certain PME.	Water was sprayed. Concerned PME was detached. Noise insulating fabric has been applied to similar PME.	20-Jan-26
		The contractor was reminded that dusty materials on sited shall be entirely covered by impervious sheeting.	Dusty material is covered and maintained in wet condition.	

Inspection Date	Parameter	Observation / Recommendation	Contactor's Responses /Close-out Action(s) Undertaken (Date)
21-Jan-26	Air Quality & Waste Management	The contractor was reminded that NRMM labels shall be provided for all regulated machinery on site, using either a green or yellow colored label. The contractor was reminded to have better housekeeping and dispose of refuse frequently at designated areas.	Colour of the NRMM label was corrected. 26-Jan-26 General refuse was disposed.
28-Jan-26	Noise Impact & Waste Management & Water Quality	The contractor was reminded that noise barriers shall be hanged up. The contractor was reminded to have better housekeeping and dispose of refuse frequently at designated areas. The contractor was reminded that chemical shall only be stored in designated areas.	The chemical was relocated to proper storage area. 03-Feb-26 Refuse was disposed. Chemical was removed.

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, 37423.56 tonne and 0.0 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 262.24 tonne of general refuse were disposed of at SENT landfill. 0.0 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. 4896.01 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. 48.29 tonne of inert C&D material was disposed to sorting facility and 1.40 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/26-008	19-Jan-26	18-Apr-26	Valid	--
Billing Account Construction Waste Disposal				
7051739	01-Aug-24	--	Account Active	--
Construction Noise Permit				
GW-RE1203-25	01-Oct-25	31-Mar-26	Valid	-
Wastewater Discharge License				
WT00045374-2024	24-Oct-24	31-Oct-2029	Valid	--
Notification under Air Pollution Control (Construction Dust) Regulation				
10006790	11-Jul-24	--	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:

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.
- NRMM labels shall be provided for all regulated machinery on site, using either a green or yellow coloured label.

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.

Water Quality

- Chemical drum shall only be stored in designated areas which have pollution prevention facilities or drip trays with adequate capacity.
- Open stockpiles of construction materials or construction waste on-site shall be covered with tarpaulin or removed.

Noise Impact

- The noise barriers shall be hanged up.
- Noise insulating fabric shall be adopted for certain PME.

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 December 2025	16 January 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 27 January 2026 (Tuesday), the site received a complaint from the Harbourside Owners Committee through WKCDA regarding severe dust pollution caused by ongoing construction work in the West Kowloon Cultural District. The Committee has expressed serious concerns about the negative impact this dust is having on the residents' living environment and health. Further to the complaint email received on 27 January 2026, investigation was carried out at WKCD Zone 2A, 2B & 2C site. According to the message from the complaint, the construction site is generating substantial amounts of dust, which is continuously spreading to residential complex, thereby deteriorating the living environment and posing health risks. During the inspection, construction dust generated was considered to be unavoidable due to the construction works, especially for the excavation and concrete breaking works, and site logistic. Meanwhile, the condition of the dust suppression measures were checked. On-site dust suppression measures were found in place and functioning. The dust suppression measures were believed to significantly reduce the dust emission to surrounding.

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. It was concluded that the concerned environmental impact might be due to the construction works and transportation in the site. On-site mitigation measures have already been implemented and maintained on site and prompt actions have been taken. We will keep maintain good practice on site, and strengthen the implementation of mitigation measures to reduce impacts to the nearby neighbors.

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:

- Pipe Pile and King Post Works
- Jet Grouting Works
- Double Deck Hoarding Works
- Temporary Steel Platform
- ELS Installation
- 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 piling 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 complaints were 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

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

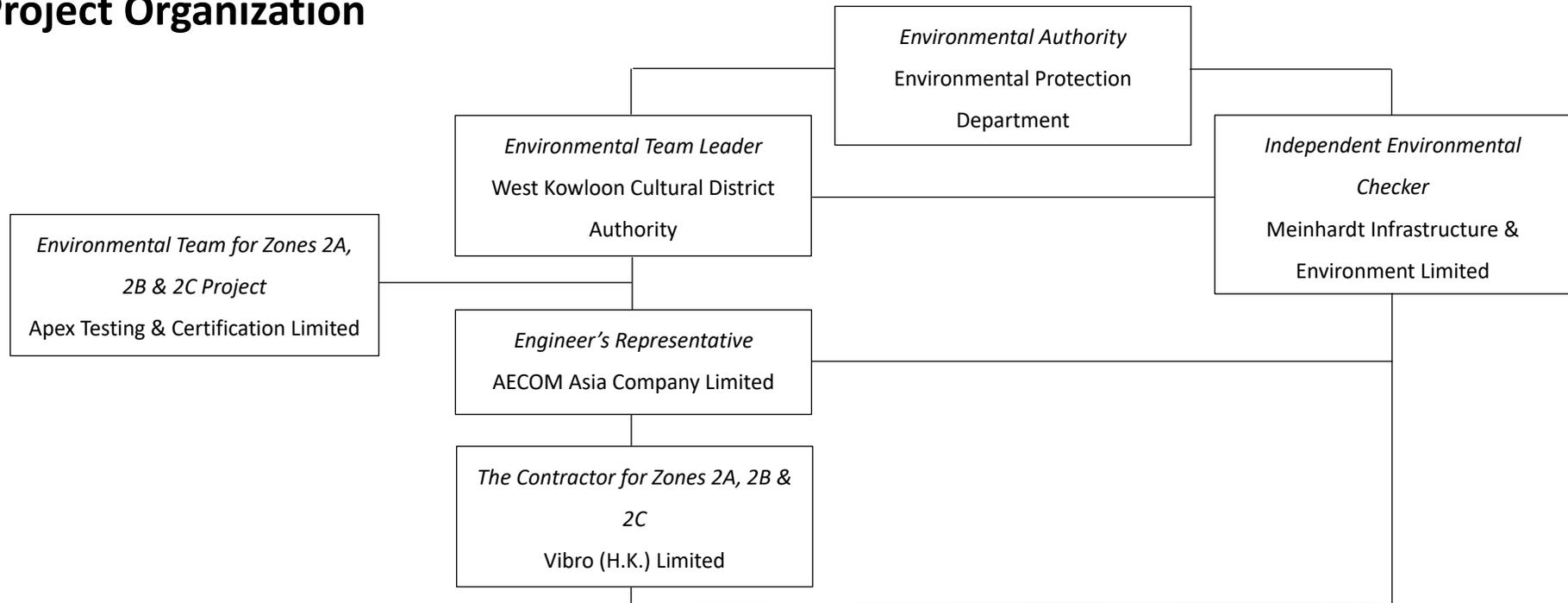


Table A-1: Contract Information

Company Name	Role	Name	Telephone	Email
West Kowloon Cultural District Authority	WKCDA Representative & Project ETL	Mr. Max LEE	2200 0782	max.sl.lee@wkda.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@apetestcert.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															
										January					February					March					
										29	05	12	19	26	02	09	16	23	30	06	13	20	27	04	11
ELS Works (Stages 1 & 2) for IBUR in Zones 2ABC 30 Jan 2026																									
Contract Dates																									
CAI Date for Optional Works																									
Between 5 Jul 2024 and 21 Nov 2026, within 870 Days																									
WKCD-AD-03030	(Opt Works Item No.3) Site Maintenance for Zone 2A, 2B, 2C and NSO after Practical Completion within 870 Days	0	05-Jul-24		0	31-Jan-26*		0%	0	◆ (Opt Works Item No.3) Site Maintenance for Zone 2A, 2B, 2C and NSO after Practical Completion within 870 Days															
WKCD-AD-03040	(Opt Works Item No.4) Road reinstatement works at Austin Road West within 870 Days	0	05-Jul-24		0	31-Jan-26*		0%	0	◆ (Opt Works Item No.4) Road reinstatement works at Austin Road West within 870 Days															
BD Statutory Submissions																									
Consent BA8 and BA10 Submissions																									
Zone 2B																									
BD Submission and Consent for Excavation and ELS Installation																									
WKCD-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	28	18-Feb-26	17-Mar-26	0%	-93	[Gantt Bar: 18-Feb-26 to 17-Mar-26]															
WKCD-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	18-Mar-26	14-Apr-26	0%	-75	[Gantt Bar: 18-Mar-26 to 14-Apr-26]															
WKCD-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	7	18-Mar-26	24-Mar-26	0%	-93	[Gantt Bar: 18-Mar-26 to 24-Mar-26]															
WKCD-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	15-Apr-26	21-Apr-26	0%	-75	[Gantt Bar: 15-Apr-26 to 21-Apr-26]															
Zone 2A-1																									
BD Submission and Consent for Excavation and ELS Installation																									
WKCD-BD-STA-01200	BA8 for excavation and ELS installation at Zone 2A-1(Stage 2)(Consent 11)	28	01-Aug-25	28-Aug-25	28	31-Jan-26	27-Feb-26	0%	-141	[Gantt Bar: 31-Jan-26 to 27-Feb-26]															
WKCD-BD-STA-01210	BA10 for excavation and ELS installation at Zone 2A-1(Stage 2)(Consent 11)	7	29-Aug-25	04-Sep-25	7	28-Feb-26	06-Mar-26	0%	-141	[Gantt Bar: 28-Feb-26 to 06-Mar-26]															
Cost Centre A - Preliminaries, General Requirements																									
General Submission and Procurement																									
Submission and Approval																									
Authority Department Submission																									
WKCD-A-SUB-01440	Application to EPD and obtain permit for marine dumping	90	02-Nov-24	30-Jan-25	474	23-Sep-24 A	09-Jan-26 A	100%		[Gantt Bar: 23-Sep-24 to 09-Jan-26]															
Procurement and Delivery of Materials																									
Steel Platform Material																									
WKCD-A-PRO-2140	Delivery of Steel Platform material for Zone 2B & 2A-1	30	28-Feb-25	29-Mar-25	92	04-Nov-25 A	03-Feb-26	30%	701	[Gantt Bar: 04-Nov-25 to 03-Feb-26]															
Strut and Wailing																									
WKCD-A-PRO-2340	Delivery of Strut and Wailing for Zone 2B & 2A-1	70	29-Apr-25	07-Jul-25	101	03-Nov-25 A	11-Feb-26	15%	-91	[Gantt Bar: 03-Nov-25 to 11-Feb-26]															
Coordination																									
Interface Contractors and Other Project Contractors																									
WKCD-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	576	05-Jul-24 A	31-Jan-26	80%	-107	[Gantt Bar: 05-Jul-24 to 31-Jan-26]															
Cost Centre B & I - General, Hoarding and Monitoring Works																									
General Submission																									
Submission and Approval																									
Method statement for Relocation of check water meter cabinet																									
WKCD-B-SUB-01125	Prepare and submit method statement for Relocation of Check water meter cabinet	0			18	02-Feb-26	19-Feb-26	0%	-58	[Gantt Bar: 02-Feb-26 to 19-Feb-26]															
WKCD-B-SUB-01135	Review and Approve method statement for Relocation of Check water meter cabinet	0			14	20-Feb-26	05-Mar-26	0%	-58	[Gantt Bar: 20-Feb-26 to 05-Mar-26]															
Construction																									
General and Monitoring Works																									
Relocate water check meter cabinet																									
WKCD-B-MOB-01240	Relocation of check water meter cabinet at Zone 2A East gantry	24	08-Nov-24	05-Dec-24	30	06-Mar-26	14-Apr-26	0%	-47	[Gantt Bar: 06-Mar-26 to 14-Apr-26]															
WKCD-B-MOB-01100	Site clearance, break up and removal of existing road pavement and light posts, signages	60	06-Dec-24	20-Feb-25	30	15-Apr-26	20-May-26	0%	-47	[Gantt Bar: 15-Apr-26 to 20-May-26]															

- ◆ Milestone
- ◆ Critical MS
- Planned Bar
- Actual Work Complet...
- Critical Bar
- ◆ R0 MS

CC/2023/2B/095
Three Month Rolling Programme as of 30 Jan 2026

Date	Revision	Checked	Approved
30-Jan-26	CMWP R0	PP	

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																								
										January					February					March					April					May				
										29	05	12	19	26	02	09	16	23	02	09	16	23	30	06	13	20	27	04	11	18	25			
WKCDA-C-CON-01555	Jet grouting (ground treatment) works at Zone 2B (Type 1, 4.8m width, 3 cluster, 1 rig), 60	0			107	05-Sep-25 A	14-Jan-26 A	100%																										
WKCDA-C-CON-01530	Jet grouting (ground treatment) works at Zone 2B (Type 2, 6.5m width, 4 cluster, 1 rig), 61	0			53	11-Nov-25 A	14-Jan-26 A	100%																										
WKCDA-C-CON-01550	Jet grouting (ground treatment) works at Zone 2B (Type 5, 9.9m width, 6 cluster, 1 rig), 33	0			53	11-Nov-25 A	14-Jan-26 A	100%																										
WKCDA-C-CON-01560	Jet grouting (ground treatment) works at Zone 2B (Type 4, 8.2m width, 5 cluster, 1 rig), 52	0			53	11-Nov-25 A	14-Jan-26 A	100%																										
Pumping Test																																		
Zone 2B at Austin Road West																																		
WKCDA-C-CON-01405	Installation of pump wells(OW,DW&RW) (15nos, 3days/no/rig, 3rig) at Zone 2B AURW (Inside)	0			111	27-Aug-25 A	09-Jan-26 A	100%																										
WKCDA-C-CON-01410	Installation of pump wells(OW,DW&RW) (15nos, 3days/no/rig, 3rig) at Zone 2B AURW (Inside)	0			54	04-Nov-25 A	08-Jan-26 A	100%																										
WKCDA-C-CON-01415	Installation of pump wells(OW,DW&RW) (15nos, 3days/no/rig, 3rig) at Zone 2B AURW (Outside)	0			51	11-Nov-25 A	12-Jan-26 A	100%																										
WKCDA-C-CON-01417	Installation of pump wells(OW,DW&RW) (15nos, 3days/no/rig, 3rig) at Zone 2B AURW (Outside)	0			38	23-Nov-25 A	09-Jan-26 A	100%																										
WKCDA-C-CON-01425	Installation of pump wells (OW,DW&RW) (14nos, 3days/no/rig, 3rig) at Zone 2B/2C (Inside)	0			41	24-Nov-25 A	13-Jan-26 A	100%																										
WKCDA-C-CON-01435	Installation of pump wells (OW,DW&RW) (14nos, 3days/no/rig, 3rig) at Zone 2B/2C (Inside)	0			25	30-Dec-25 A	23-Jan-26 A	100%																										
WKCDA-C-CON-01520	Carry-out pumping test and report submission at Zone 2B to FFL (1st Pumping Test)	15	17-Aug-25	31-Aug-25	15	31-Jan-26	14-Feb-26	0%	-102																									
Cost Centre D - Excavation and Lateral Support Works for Zone 2C (Stage 1)																																		
Construction																																		
Pre-Grout Curtain Works																																		
Pre-grout curtain works at Zone 2C																																		
Pre-grout curtain works at Zone 2C Part 2																																		
WKCDA-D-CON-01068	Carry-out Pre-grout curtain works at Zone 2C(A_A352 to A_A396 EVEN)(A_B180 to A_B202)(Consent 6b) 23,23	31	02-Apr-25	14-May-25	80	27-Oct-25 A	31-Jan-26	91%	570																									
Interlocking Pipe Pile Wall Works																																		
Interlocking Pipe Pile Wall Works Part 1																																		
WKCDA-D-CON-1520	Installation of interlocking pipe pile wall at Zone 2C(PPA-030 to PPA-052)(23nos, 1 no/day/rig, 1rig)(Consent 6b)	0			94	17-Sep-25 A	10-Jan-26 A	100%																										
WKCDA-D-CON-01120	Installation of interlocking pipe pile wall at Zone 2C(PPA-029 to PPA-003)(27nos, 1 no/day/rig, 1rig)(Consent 6b)	29	29-Aug-25	02-Oct-25	79	06-Oct-25 A	10-Jan-26 A	100%																										
Interlocking Pipe Pile Wall Works Part 2																																		
WKCDA-D-CON-01280	Installation of interlocking pipe pile wall at Zone 2C(PPA-374 to PPA-397)(24nos, 1 no/day/rig, 1rig)(Consent 6b)	46	30-Jul-25	20-Sep-25	105	17-Sep-25 A	23-Jan-26 A	100%																										
WKCDA-D-CON-01281	Installation of interlocking pipe pile wall at Zone 2C(PPA-394a) (1no., 1 no/day/rig, 1rig)(additional)	0			1	26-Jan-26 A	26-Jan-26 A	100%																										
Post Grout Curtain Works																																		
Drilling for post-grout curtain works Part 1																																		
WKCDA-D-CON-1360	Drilling for post grout curtain works at Zone 2C(A_A037 to A_A001)(Consent 6b) 37	25	03-Oct-25	03-Nov-25	158	30-Jul-25 A	05-Feb-26	75%	566																									
Drilling for post-grout curtain works Part 2																																		
WKCDA-D-CON-1340	Drilling for post grout curtain works at Zone 2C(A_A348 to A_A397)(Consent 6b) 50	34	22-Sep-25	03-Nov-25	82	25-Oct-25 A	02-Feb-26	45%	237																									
Post Grout Curtain Works Part 1																																		
WKCDA-D-CON-01290	Carry-out post grout curtain works at Zone 2C(A_A037 to A_A001)(Consent 6b) 37	25	04-Nov-25	02-Dec-25	168	30-Jul-25 A	20-Feb-26	0%	224																									
Post Grout Curtain Works Part 2																																		
WKCDA-D-CON-01296	Carry-out post grout curtain works at Zone 2C(A_A248 to A_A297)(Consent 6b) 50	34	16-Jul-25	23-Aug-25	208	27-May-25 A	31-Jan-26	97%	238																									
WKCDA-D-CON-01300	Carry-out post grout curtain works at Zone 2C(A_A348 to A_A397)(Consent 6b) 50	34	04-Nov-25	12-Dec-25	100	25-Oct-25 A	26-Feb-26	40%	219																									

- ◆ Milestone
- ◆ Critical MS
- ▬ Critical Bar
- ▬ Planned Bar
- ▬ Actual Work Complet...
- ◆ R0 MS

CC/2023/2B/095
Three Month Rolling Programme as of 30 Jan 2026

Date	Revision	Checked	Approved
30-Jan-26	CMWP R0	PP	

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																									
										January					February					March					April					May					
										29	05	12	19	26	02	09	16	23	02	09	16	23	30	06	13	20	27	04	11	18	25				
Closing Point bet. Gammon Existing IPP & PPA-003																																			
WKCDA-D-CON-01312	Carry-out Post grout (AD001_AD006 at Seaside bet. Gammon existing IPP & PP-004) 6	0			7	24-Jan-26 A	30-Jan-26 A	100%																											
WKCDA-D-CON-01307	Drilling for grouthole (AD001_AD006 at Seaside bet. Gammon existing IPP & PP-004) 6	0			6	31-Jan-26	06-Feb-26	0%	565																										
Pumping Test																																			
WKCDA-D-CON-01055	Installation of pump wells(OW,DW&RW)(17nos, 3days/no/rig, 2rig) at Zone 2C 4 (Outside)	0			110	30-Sep-25 A	11-Feb-26	55%	229																										
WKCDA-D-CON-01075	Installation of pump wells(OW,DW&RW)(17nos, 3days/no/rig, 2rig) at Zone 2C 4 (Outside)	0			110	30-Sep-25 A	11-Feb-26	55%	229																										
WKCDA-D-CON-01030	Installation of pump wells(OW,DW&RW)(17nos, 3days/no/rig, 2rig) at Zone 2C 3 (Inside)	26	29-Aug-25	27-Sep-25	26	31-Jan-26	05-Mar-26	0%	189																										
WKCDA-D-CON-01050	Installation of pump wells(OW,DW&RW)(17nos, 3days/no/rig,2rig) at Zone 2C 4 (Inside)	26	29-Sep-25	31-Oct-25	24	06-Mar-26	02-Apr-26	0%	189																										
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)																																			
WKCDA-F-SUB-01265	Review and approve submission of ELS design at zone 2B & zone 2A-1 by BD	0			139	19-Sep-25 A	04-Feb-26	90%	700																										
Method statement for excavation and lateral support installation at Zone 2B (Stage 2)																																			
WKCDA-E-SUB-01000	Prepare and submit method statement for excavation and lateral support installation at Zone 2B(Stage 2)	28	25-Jun-25	22-Jul-25	202	14-Jul-25 A	31-Jan-26	80%	-95																										
WKCDA-E-SUB-01020	Review and approve submission of method statement for excavation and lateral support installation at Zone 2B(Stage 2)	60	23-Jul-25	20-Sep-25	181	11-Aug-25 A	07-Feb-26	80%	-95																										
Excavation and ELS installation at Zone 2B (Stage 2) to FEL(Consent 11)																																			
WKCDA-E-SUB-01040	Application and obtain consent(BA8) for excavation and ELS installation at Zone 2B(Stage 2) to FEL(Consent 11)	28	04-Sep-25	01-Oct-25	28	18-Feb-26	17-Mar-26	0%	-93																										
WKCDA-E-SUB-01060	Submit BA10 for excavation and ELS installation at Zone 2B(Stage 2)	7	02-Oct-25	08-Oct-25	7	18-Mar-26	24-Mar-26	0%	-93																										
Excavation and ELS installation at Zone 2B (Stage 2) to FEL(Consent 12)																																			
WKCDA-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	18-Mar-26	14-Apr-26	0%	-75																										
WKCDA-E-SUB-01200	Submit BA10 for excavation and ELS installation at Zone 2B (Stage 2)	7	30-Oct-25	05-Nov-25	7	15-Apr-26	21-Apr-26	0%	-75																										
Construction																																			
Excavation, Temporary Shoring and Struts																																			
Excavation																																			
WKCDA-E-CON-01060	Excavation to +3.000mPD 1st ELS Layer at Zone 2B (39583m3, 1583m3/day) Part 1	25	09-Aug-25	06-Sep-25	68	11-Nov-25 A	31-Jan-26	15%	-98																										
WKCDA-E-CON-01070	Excavation to +3.000mPD 1st ELS Layer at Zone 2B (40331m3, 1613m3/day) Part 2	25	08-Sep-25	08-Oct-25	25	02-Feb-26	05-Mar-26	0%	-98																										
WKCDA-E-CON-01120	Excavation to +1.250mPD 2nd ELS Layer at Zone 2B (41583m3, 800m3/day)	52	09-Oct-25	09-Dec-25	40	06-Mar-26	25-Apr-26	0%	-98																										
WKCDA-E-CON-01130	Excavation to +0.000mPD 2nd ELS Layer at Zone 2B (45338m3, 1008m3/day)	45	10-Dec-25	03-Feb-26	37	27-Apr-26	10-Jun-26	0%	-98																										
Temporary Shoring																																			
WKCDA-E-CON-01080	Construction of temporary steel platform at Zone 2B (1,072T)	30	09-Aug-25	12-Sep-25	69	18-Nov-25 A	09-Feb-26	0%	-95																										
WKCDA-E-CON-10220	Construction of temporary steel platform at Zone 2B (1,072T)	30	13-Sep-25	20-Oct-25	30	10-Feb-26	19-Mar-26	0%	-95																										
WKCDA-E-CON-10240	Construction of temporary steel platform at Zone 2B (1,072T)	30	21-Oct-25	25-Nov-25	30	20-Mar-26	28-Apr-26	0%	-95																										
ELS Installation 3,216 Ton																																			
WKCDA-E-CON-01100	ELS installation to +3.000mPD for 1st layer at Zone 2B	81	08-Sep-25	13-Dec-25	75	24-Jan-26 A	29-Apr-26	0%	-96																										
Demolition of Existing wall bet. Zone 2A-1 and Zone B																																			

- ◆ Milestone
- ◆ Critical MS
- ▬ Critical Bar
- ▬ Planned Bar
- ▬ Actual Work Complet...
- ◆ R0 MS

CC/2023/2B/095
Three Month Rolling Programme as of 30 Jan 2026

Date	Revision	Checked	Approved
30-Jan-26	CMWP R0	PP	

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																								
										January					February					March					April					May				
										29	05	12	19	26	02	09	16	23	02	09	16	23	30	06	13	20	27	04	11	18	25			
WKCDA-E-CON-10260	Trimming of Existing IPP bet. Zone 2B and Zone 2A-1 +3.00mPD to +0.00mPD	14	09-Oct-25	24-Oct-25	14	06-Mar-26	21-Mar-26	0%	-72																									
WKCDA-E-CON-10280	Trimming of Existing IPP bet. Zone 2B and Zone 2A-1 +1.25mPD to +0.00mPD	14	10-Dec-25	27-Dec-25	14	27-Apr-26	13-May-26	0%	-75																									
Cost Centre F - Excavation and Lateral Support Works for Zone 2A-1 (Stage 2)																																		
Submissions and Approval																																		
Design Submission and Statutory Submission																																		
King post at Zone 2A-1																																		
WKCDA-F-SUB-01140	Submit BA14 and acknowledgment from BD for king post at Zone 2A-1	28	04-Jul-25	31-Jul-25	28	01-Jan-26 A	28-Jan-26 A	100%																										
WKCDA-F-SUB-01160	Application and obtain consent(BA8) for excavation and ELS installation at Zone 2A-1 (Stage 2)(Consent 11)	28	01-Aug-25	28-Aug-25	28	31-Jan-26	27-Feb-26	0%	-141																									
WKCDA-F-SUB-01180	Submit BA10 for excavation and ELS installation at Zone 2A-1	7	29-Aug-25	04-Sep-25	7	28-Feb-26	06-Mar-26	0%	-141																									
Excavation and ELS installation at Zone 2A-1 (Stage 2) to FEL(Consent 12)																																		
WKCDA-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	28	18-Mar-26	14-Apr-26	0%	-25																									
WKCDA-F-SUB-01220	Submit BA10 for excavation and ELS installation at Zone 2A-1(Stage 2)	7	30-Oct-25	05-Nov-25	7	15-Apr-26	21-Apr-26	0%	-25																									
Steel Platform Design at Zone 2B & Zone 2A-1																																		
WKCDA-F-SUB-1320	Review and Approve Design Submission of Steel Platform Design at Zone 2B & Zone 2A-1 (Stage 2, Top Deck)	29	27-Apr-25	25-May-25	99	31-Oct-25 A	06-Feb-26	77%	-120																									
Method Statement for Steel Platform at Zone 2B & Zone 2A-1																																		
WKCDA-F-SUB-1360	Review and Approve Submission of Method Statement for Steel Platform at Zone 2B & Zone 2A-1 (Stage 2, Top Deck)	29	09-Jun-25	07-Jul-25	207	14-Jul-25 A	05-Feb-26	65%	-112																									
Construction																																		
Excavation, Temporary Shoring and Struts																																		
Excavation																																		
WKCDA-F-CON-01100	Excavation to +3.0mPD from existing ground level at Zone 2A-1 (7245m3, 213m3/day)	34	09-Aug-25	17-Sep-25	65	20-Nov-25 A	06-Feb-26	50%	-99																									
WKCDA-F-CON-01110	Excavation to +3.0mPD from existing ground level at Zone 2A-1 (7481m3, 214m3/day)	35	18-Sep-25	31-Oct-25	28	28-Feb-26	01-Apr-26	0%	-114																									
WKCDA-F-CON-01160	Excavation to +1.0mPD 2nd ELS Layer at Zone 2A-1 (9023m3, 237m3/day) Part 1	38	01-Nov-25	15-Dec-25	33	02-Apr-26	15-May-26	0%	-114																									
Temporary Shoring																																		
WKCDA-F-CON-01120	Construction of temporary steel platform at Zone 2A-1 (348T)	30	09-Aug-25	12-Sep-25	76	18-Nov-25 A	20-Feb-26	45%	-110																									
WKCDA-F-CON-1380	Construction of temporary steel platform at Zone 2A-1 (348T)	30	13-Sep-25	20-Oct-25	30	21-Feb-26	27-Mar-26	0%	-110																									
WKCDA-F-CON-1400	Construction of temporary steel platform at Zone 2A-1 (348T)	30	21-Oct-25	25-Nov-25	30	28-Mar-26	07-May-26	0%	-107																									
ELS Installation (944 Ton)																																		
WKCDA-F-CON-01140	ELS installation to +3.0mPD for 1st layer at Zone 2A-1	50	01-Nov-25	31-Dec-25	45	02-Apr-26	30-May-26	0%	-114																									
Cost Centre G - Excavation and Lateral Support Works for Zone 2A-2-1 (Stage 2)																																		
Construction																																		
Excavation, Temporary Shoring and Struts																																		
Excavation																																		
WKCDA-G-CON-01095	First 1.5m depth Excavation on Zone 2A-2-1 (Remaining 5500m3, Area 2, 300m3/day)	0			119	28-Sep-25 A	24-Feb-26	10%	-104																									
WKCDA-G-CON-01100	Excavation to +2.75mPD 1st ELS Layer at Zone 2A-2-1 (8820m3, 338m3/day)	35	10-Jun-25	19-Jul-25	26	31-Jan-26	05-Mar-26	0%	-112																									
WKCDA-G-CON-01110	Excavation to +2.75mPD 1st ELS Layer at Zone 2A-2-1 (5420m3, 200m3/day)	35	21-Jul-25	29-Aug-25	31	06-Mar-26	15-Apr-26	0%	-112																									
WKCDA-G-CON-01160	Excavation to -2.6mPD 2nd ELS Layer at Zone 2A-2-1 (11820m3, 338m3/day)	35	30-Aug-25	11-Oct-25	35	16-Apr-26	28-May-26	0%	-112																									
Temporary Shoring																																		

- ◆ Milestone
- ◆ Critical MS
- Critical Bar
- Planned Bar
- Actual Work Complet...
- ◆ R0 MS

CC/2023/2B/095
Three Month Rolling Programme as of 30 Jan 2026

Date	Revision	Checked	Approved
30-Jan-26	CMWP R0	PP	

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 ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
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 ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
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 A	Contractor
Action Level				
1. Exceedance for one sample	<ol style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC and WKCD A; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method. 	<ol style="list-style-type: none"> 1. Notify Contractor 	<ol style="list-style-type: none"> 1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 1. Identify source; 2. Inform IEC and WKCD A; 3. Advise the WKCD A 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 A; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; 5. Monitor the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 1. Submit proposals for remedial to WKCD A 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	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the WKCD on the effectiveness of the proposed remedial measures; 5. Monitor the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. 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. 	<ol style="list-style-type: none"> 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	WKCDA	Contractor
Action Level	<ol style="list-style-type: none"> 1. Notify WKCDA, IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, WKCDA and Contractor; 4. Discuss with the IEC and Contractor on remedial measures required; 5. Increase monitoring frequency to check mitigation effectiveness. 	<ol style="list-style-type: none"> 1. Review the investigation results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the WKCDA accordingly; 3. Advise the WKCDA on the effectiveness of the proposed remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IEC and WKCDA; 2. Implement noise mitigation proposals.
Limit Level	<ol style="list-style-type: none"> 1. Inform IEC, WKCDA, 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 WKCDA on remedial measures required; 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. 	<ol style="list-style-type: none"> 1. Discuss amongst WKCDA, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the WKCDA accordingly. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures; 5. If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC and WKCDA 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 WKCDA 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	<ol style="list-style-type: none"> 1. Design check to make sure the design complies with all the proposed mitigation measures in the EIA report; 2. Prepare and submit report. 	<ol style="list-style-type: none"> 1. Check report submitted by ET; 2. Recommend remedial design if necessary. 	<ol style="list-style-type: none"> 1. Undertake remedial design if necessary. 	-
Non-conformity on one occasion	<ol style="list-style-type: none"> 1. Identify source 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Notify Contractor; 2. Ensure remedial actions are properly implemented. 	<ol style="list-style-type: none"> 1. Amend working method as necessary; 2. Rectify damage and undertake necessary replacement and remedial actions.
Repeated non-conformity	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Notify Contractor; 2. Ensure remedial actions are properly implemented. 	<ol style="list-style-type: none"> 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

January 2026 (Hong Kong)

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

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

February 2026 (Hong Kong)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4 Landscape & Visual inspection Zones 2A, 2B & 2C	5	6 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr TSP X 3 NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring	7
8	9	10	11	12 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr TSP X 3 NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring	13	14
15	16 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr TSP X 3 NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring	17 ● Lunar New Year's Day	18 ● Second Day of Lunar New Year	19 ● Third Day of Lunar New Year	20 Landscape & Visual inspection Zones 2A, 2B & 2C	21 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr TSP X 3 NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring
22	23	24 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr TSP X 3 NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring	25	26	27	28

F. Calibration Certifications



東恒測試顧問有限公司

AQUALITY TESTCONSULT LIMITED

香港新界粉嶺坪輦路啟芳園11A&11B號

No. 11A&B, KAI FONG GARDEN, PING CHE ROAD, FANLING, NEW TERRITORIES, HONG KONG

TEL : 852-3582-9589 FAX : 852-2674-1177 EMAIL : cal.aqtl@gmail.com WEBSITE: www.aqtlgroup.com

CERTIFICATE OF CALIBRATION

Report Number : 250727MCA-222F
 Date of Report : 1-Aug-25
 Page Number : 1 of 3
 Customer * : Apex Testing & Certification Ltd.
 Customer Address* : Unit D6A, 10/F, TML Tower, 3 Hoi Shing Road, Tsuen Wan, N.T., HK
 Customers Ref. * : A005

Item Under Calibration (IUC)*

Equipment No. : N/A
 Manufacturer : Sibata Scientific Technology Ltd
 Model No. : LD-3B
 Serial No. : 276004
 Scale Division : 0.001 mg/m³
 Range : 0.001 to 1 mg/m³
 Condition of Item : Normal

Date Item Received : 27-Jul-25
 Date Calibrated : 27-Jul-25
 Calibration Location : AQuality Calibration Lab.
 Date of Next Calibration : 26-Jul-26
 Calibrated By : Jessica Liu

Test Environment

Ambient Temperature : 28.2 °C to 30.4 °C
 Relative Humidity : 76 % to 80 %

Calibration Results

Reference True Reading (mg/m ³)	Average IUC Reading (mg/m ³)	Correction (mg/m ³)	Error of IUC Reading (%)	Coverage Factor K
0.125	0.117	0.007	6.0%	2.0
0.394	0.371	0.023	5.9%	2.0
0.884	0.834	0.050	5.7%	2.0

Remarks

1. * Denotes information supplied by customer.
 3. The results relate only to the items calibrated.
 3. The results apply to the items as received.
 4. Correction = Average of (Ref reading - IUC reading)
 5. The technical requirement of laser dust meter. +/- 30% error for the particles concentration.

Approved by: _____

LEE Mei Yee, Julia
 Managing Director

The results shown in this certificate are metrologically traceable to the International System of Units (SI) or recognised measurement standards.

The certificate shall not be reproduced except in full without approval of the laboratory.



CERTIFICATE OF CALIBRATION

Report Number : 250727MCA-222F
Date of Report : 1-Aug-25
Page Number : 3 of 3
Customer * : Apex Testing & Certification Ltd.
Customers Ref. * : A005

Details of Calibration

1. The calibration was performed in accordance with AQuality Testconsult Procedure Number ENV-L-003 (in-house method), by comparison with the laboratory's reference equipment which have traceable international standards of measurement.
3. The item under calibration (IUC) was allowed to stabilize in the laboratory for 0.35 hour before commencement of calibration.
3. A set of readings were made at each calibration concentration. The values quoted in the results are the average of each set of readings.
4. The values given in this calibration certificate only relate to the values measured at the time of calibration. Any uncertainties quoted do not include allowance for the capability of any other laboratory to repeat the measurement. The uncertainty quoted relate only to item at time of calibration. AQuality Testconsult Limited is not liable for any loss or damage resulting from the use of this equipment.
5. The identification, calibration certificate numbers for the reference equipment used were as follows :

<u>Equipment Number</u>	<u>Certificate Number</u>	<u>Description</u>
CH-LDM-1	CC1592412	粉尘测试仪

6. Copies of the Calibration certificates of the reference equipment used in this calibration may be obtained from AQuality Testconsult Limited, if necessary.

- End of Report -



東恒測試顧問有限公司

AQUALITY TESTCONSULT LIMITED

香港新界粉嶺坪輦路啟芳園11A&11B號

No. 11A&11B, KAI FONG GARDEN, PING CHE ROAD, FANLING, N.T., HONG KONG

TEL : 852-3582-9589

FAX : 852-2674-1177

EMAIL : cal.aqtl@gmail.com

WEBSITE: www.aqtlgroup.com

CERTIFICATE OF CALIBRATION

Apex Testing & Certification Ltd. Unit D6A, 10/F, TML Tower, 3 Hoi Shing Road, Tsuen Wan, N.T., HK	Test Report No.	250727MCA-222F
	Date of Issue	1-Aug-25
	Date of Testing	27-Jul-25
	Page	1 of 1

Item for Calibration

Description	: Laser Dust Monitor
Manufacturer	: Sibata Scientific Technology Ltd
Model No.	: LD-3B
Serial No.	: 276004

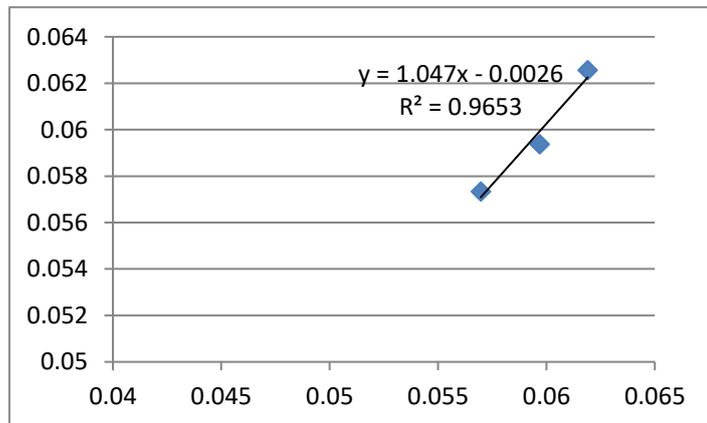
Standard Equipment

Description	: High Volume Sampler / Calibration Orifice
Manufacturer	: Tisch Environmental, Inc.
Model No.	: TE-5170 / TE-5025A
Serial No.	: 3476 / 4088
Last Calibration	: 17-AUG-24 / 7-NOV-23

Date	Time	Mean Temp (°C)	Mean Pressure (hPa)	Concentration Standard Equipment (mg/m3)	Concentration Calibrated Equipment (mg/m3)
27-Jul-25	19:00	29.3	1000.1	0.0619	0.0626
27-Jul-25	20:05	29.3	1000.1	0.0570	0.0573
27-Jul-25	21:10	29.3	1000.1	0.0597	0.0594

By Linear Regression of Y or X

Slope	: 1.0470
Correlation Coefficient	: 0.9653
K-Factor	: 0.9961
Validity of Calibration	: 26-Jul-26



Recorded by : Jessica Liu Signature: Jessica Liu Date: 27-Jul-25

Checked by : S Tang Signature: S Tang Date: 27-Jul-25



東恒測試顧問有限公司

AQUALITY TESTCONSULT LIMITED

香港新界粉嶺坪輦路啟芳園11A&11B號

No. 11A&B, KAI FONG GARDEN, PING CHE ROAD, FANLING, NEW TERRITORIES, HONG KONG

TEL : 852-3582-9589 FAX : 852-2674-1177 EMAIL : cal.aqtl@gmail.com WEBSITE: www.aqtlgroup.com

CERTIFICATE OF CALIBRATION

Report Number : 250727MCA-221F
 Date of Report : 1-Aug-25
 Page Number : 1 of 2
 Customer * : Apex Testing & Certification Ltd.
 Customer Address* : Unit D6A, 10/F, TML Tower, 3 Hoi Shing Road, Tsuen Wan, N.T., HK
 Customers Ref. * : A005

Item Under Calibration (IUC)*

Equipment No. : N/A
 Manufacturer : Sibata Scientific Technology Ltd
 Model No. : LD-3B
 Serial No. : 476672
 Scale Division : 0.001 mg/m³
 Range : 0.001 to 1 mg/m³
 Condition of Item : Normal

Date Item Received : 27-Jul-25
 Date Calibrated : 27-Jul-25
 Calibration Location : AQuality Calibration Lab.
 Date of Next Calibration : 26-Jul-26
 Calibrated By : Jessica Liu

Test Environment

Ambient Temperature : 28.2 °C to 30.4 °C
 Relative Humidity : 76 % to 80 %

Calibration Results

Reference True Reading (mg/m ³)	Average IUC Reading (mg/m ³)	Correction (mg/m ³)	Error of IUC Reading (%)	Coverage Factor K
0.125	0.130	0.006	4.6%	2.0
0.394	0.423	0.028	7.2%	2.0
0.884	0.933	0.049	5.5%	2.0

Remarks

1. * Denotes information supplied by customer.
 2. The results relate only to the items calibrated.
 3. The results apply to the items as received.
 4. Correction = Average of (Ref reading - IUC reading)
 5. The technical requirement of laser dust meter. +/- 20% error for the particles concentration.

Approved by: _____

LEE Mei Yee, Julia
 Managing Director

The results shown in this certificate are metrologically traceable to the International System of Units (SI) or recognised measurement standards.

The certificate shall not be reproduced except in full without approval of the laboratory.



CERTIFICATE OF CALIBRATION

Report Number : 250727MCA-221F
 Date of Report : 1-Aug-25
 Page Number : 2 of 2
 Customer * : Apex Testing & Certification Ltd.
 Customers Ref. * : A005

Details of Calibration

1. The calibration was performed in accordance with AQuality Testconsult Procedure Number ENV-L-003 (in-house method), by comparison with the laboratory's reference equipment which have traceable international standards of measurement.
2. The item under calibration (IUC) was allowed to stabilize in the laboratory for 0.25 hour before commencement of calibration.
3. A set of readings were made at each calibration concentration. The values quoted in the results are the average of each set of readings.
4. The values given in this calibration certificate only relate to the values measured at the time of calibration. Any uncertainties quoted do not include allowance for the capability of any other laboratory to repeat the measurement. The uncertainty quoted relate only to item at time of calibration. AQuality Testconsult Limited is not liable for any loss or damage resulting from the use of this equipment.
5. The identification, calibration certificate numbers for the reference equipment used were as follows :

<u>Equipment Number</u>	<u>Certificate Number</u>	<u>Description</u>
CH-LDM-1	CC1592412	粉尘测试仪

6. Copies of the Calibration certificates of the reference equipment used in this calibration may be obtained from AQuality Testconsult Limited, if necessary.

- End of Report -



CERTIFICATE OF CALIBRATION

Apex Testing & Certification Ltd. Unit D6A, 10/F, TML Tower, 3 Hoi Shing Road, Tsuen Wan, N.T., HK	Test Report No.	250727MCA-221F
	Date of Issue	1-Aug-25
	Date of Testing	27-Jul-25
	Page	1 of 1

Item for Calibration

Description	: Laser Dust Monitor
Manufacturer	: Sibata Scientific Technology Ltd
Model No.	: LD-3B
Serial No.	: 476672

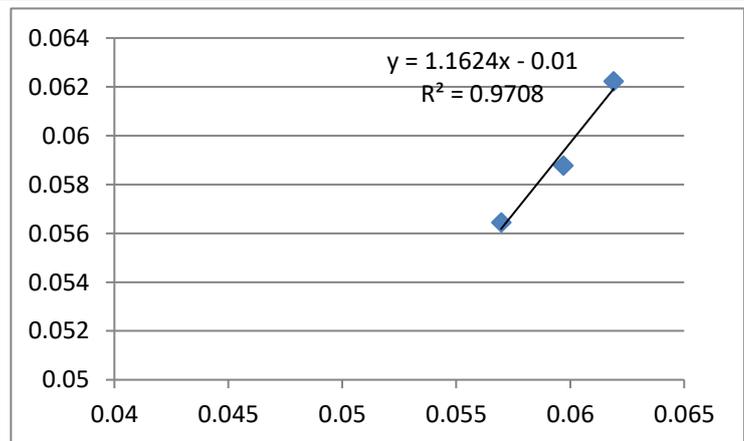
Standard Equipment

Description	: High Volume Sampler / Calibration Orifice
Manufacturer	: Tisch Environmental, Inc.
Model No.	: TE-5170 / TE-5025A
Serial No.	: 3476 / 4088
Last Calibration	: 17-AUG-24 / 7-NOV-23

Date	Time	Mean Temp (°C)	Mean Pressure (hPa)	Concentration Standard Equipment (mg/m3)	Concentration Calibrated Equipment (mg/m3)
27-Jul-25	19:00	29.3	1000.1	0.0619	0.0622
27-Jul-25	20:05	29.3	1000.1	0.0570	0.0564
27-Jul-25	21:10	29.3	1000.1	0.0597	0.0588

By Linear Regression of Y or X

Slope	: 1.1624
Correlation Coefficient	: 0.9708
K-Factor	: 1.0066
Validity of Calibration	: 26-Jul-26



Recorded by : Jessica Liu Signature: Jessica Liu Date: 27-Jul-25

Checked by : S Tang Signature: S Tang Date: 27-Jul-25



香港新界粉嶺坪輦路啟芳園11A&11B號

No. 11A&B, KAI FONG GARDEN, PING CHE ROAD, FANLING, NEW TERRITORIES, HONG KONG

TEL : 852-3582-9589 FAX : 852-2674-1177 EMAIL : cal.aqtl@gmail.com WEBSITE: www.aqtlgroup.com

CERTIFICATE OF CALIBRATION

Report Number : 250727MCA-223F
Date of Report : 1-Aug-25
Page Number : 1 of 2
Customer * : Apex Testing & Certification Ltd.
Customer Address* : Unit D6A, 10/F, TML Tower, 3 Hoi Shing Road, Tsuen Wan, N.T., HK
Customers Ref. * : A005

Item Under Calibration (IUC)*

Equipment No. : N/A
Manufacturer : Sibata Scientific Technology Ltd
Model No. : LD-3B
Serial No. : 336338
Scale Division : 0.001 mg/m³
Range : 0.001 to 1 mg/m³
Condition of Item : Normal

Date Item Received : 27-Jul-25
Date Calibrated : 27-Jul-25
Calibration Location : AQuality Calibration Lab.
Date of Next Calibration : 26-Jul-26
Calibrated By : Jessica Liu

Test Environment

Ambient Temperature : 28.2 °C to 30.4 °C
Relative Humidity : 76 % to 80 %

Calibration Results

Reference True Reading (mg/m ³)	Average IUC Reading (mg/m ³)	Correction (mg/m ³)	Error of IUC Reading (%)	Coverage Factor K
0.125	0.132	0.007	5.6%	2.0
0.394	0.418	0.024	6.1%	2.0
0.884	0.950	0.066	7.5%	2.0

Remarks

1. * Denotes information supplied by customer.
2. The results relate only to the items calibrated.
3. The results apply to the items as received.
4. Correction = Average of (Ref reading - IUC reading)
5. The technical requirement of laser dust meter. +/- 20% error for the particles concentration.

Approved by: _____

LEE Mei Yee, Julia
Managing Director

The results shown in this certificate are metrologically traceable to the International System of Units (SI) or recognised measurement standards.

The certificate shall not be reproduced except in full without approval of the laboratory.



CERTIFICATE OF CALIBRATION

Report Number : 250727MCA-223F
Date of Report : 1-Aug-25
Page Number : 2 of 2
Customer * : Apex Testing & Certification Ltd.
Customers Ref. * : A005

Details of Calibration

1. The calibration was performed in accordance with AQuality Testconsult Procedure Number ENV-L-003 (in-house method), by comparison with the laboratory's reference equipment which have traceable international standards of measurement.
2. The item under calibration (IUC) was allowed to stabilize in the laboratory for 0.25 hour before commencement of calibration.
3. A set of readings were made at each calibration concentration. The values quoted in the results are the average of each set of readings.
4. The values given in this calibration certificate only relate to the values measured at the time of calibration. Any uncertainties quoted do not include allowance for the capability of any other laboratory to repeat the measurement. The uncertainty quoted relate only to item at time of calibration. AQuality Testconsult Limited is not liable for any loss or damage resulting from the use of this equipment.
5. The identification, calibration certificate numbers for the reference equipment used were as follows :

<u>Equipment Number</u>	<u>Certificate Number</u>	<u>Description</u>
CH-LDM-1	CC1592412	粉尘测试仪

6. Copies of the Calibration certificates of the reference equipment used in this calibration may be obtained from AQuality Testconsult Limited, if necessary.

- End of Report -



CERTIFICATE OF CALIBRATION

Apex Testing & Certification Ltd. Unit D6A, 10/F, TML Tower, 3 Hoi Shing Road, Tsuen Wan, N.T., HK	Test Report No.	250727MCA-223F
	Date of Issue	1-Aug-25
	Date of Testing	27-Jul-25
	Page	1 of 1

Item for Calibration

Description : Laser Dust Monitor
 Manufacturer : Sibata Scientific Technology Ltd
 Model No. : LD-3B
 Serial No. : 336338

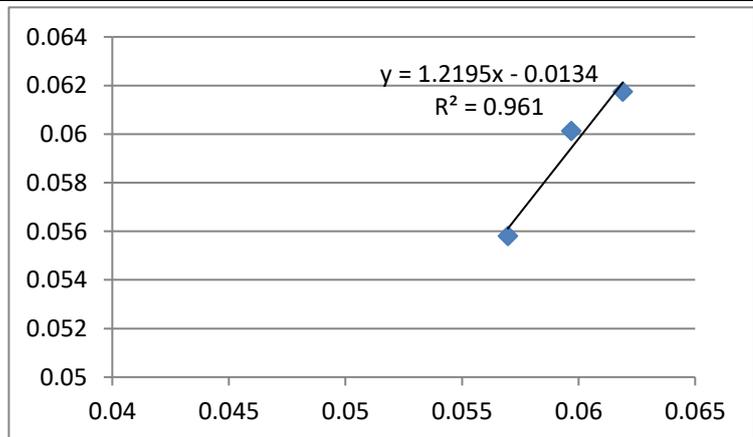
Standard Equipment

Description : High Volume Sampler / Calibration Orifice
 Manufacturer : Tisch Environmental, Inc.
 Model No. : TE-5170 / TE-5025A
 Serial No. : 3476 / 4088
 Last Calibration : 17-AUG-24 / 7-NOV-23

Date	Time	Mean Temp (°C)	Mean Pressure (hPa)	Concentration Standard Equipment (mg/m3)	Concentration Calibrated Equipment (mg/m3)
27-Jul-25	19:00	29.3	1000.1	0.0619	0.0617
27-Jul-25	20:05	29.3	1000.1	0.0570	0.0558
27-Jul-25	21:10	29.3	1000.1	0.0597	0.0601

By Linear Regression of Y or X

Slope : 1.2195
 Correlation Coefficient : 0.9610
 K-Factor : 1.0054
 Validity of Calibration : 26-Jul-26



Recorded by : Jessica Liu Signature: Jessica Date: 27-Jul-25
 Checked by : S Tang Signature: S Tang Date: 27-Jul-25

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.

Multilateral Recognition Arrangements (MLA) for HKCAS v

Mutual Recognition Arrangement (MRA) Partners for HKIAS v

 back

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

Economy	Logo	Name of Partner	URL	Test Area
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
United States of America		ANSI National Accreditation Board (ANAB)	http://www.anab.org/	Calibration, Medical Testing, Non-medical Testing, Proficiency Testing Provider, Reference Material Producer
United States of America		International Accreditation Service Inc. (IAS)	http://www.iasonline.org/	Calibration, Medical Testing, Non-medical Testing
United States of America		National Accreditation Center LLC (NAC)		Calibration, Non-medical Testing
United States of America		National Voluntary Laboratory Accreditation Program (NVLAP)	http://www.nist.gov/nvlap	Calibration, Non-medical Testing



CERTIFICATE OF ACCREDITATION

This is to attest that

AQUALITY TESTCONSULT LIMITED

11A&B, KAI FONG GARDEN, PING CHE ROAD
FANLING, HONG KONG

Calibration Laboratory CL-207

has met the requirements of AC204, *IAS Accreditation Criteria for Calibration Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date February 19, 2024



A handwritten signature in black ink, reading 'Raj Nathan'.

President

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY ^{1,2} (±)	CALIBRATION PROCEDURE AND/OR STANDARD EQUIPMENT USED
			dimensional requirements as specified in BS 1881- Part 105: 1984)
Test Sieve ³	4 mm to 50 mm	50 µm	Reference Caliper by direct measurement as per BS 410 : 1986
Elongation Gauge ³	Gap between Pins of Gauge 10 mm to 100 mm	0.29 mm	Reference Caliper by direct measurement (Verification in accordance with in-house method for the dimensional requirements as specified in BS 812- Part 1:1975; BS 812- Part 105.2: 1990)
Flakiness Gauge ³	Length of Slot of Gauge 4.9 mm to 33.9 mm	0.06 mm	Reference Caliper by direct measurement ((Verification in accordance with in-house method for the dimensional requirements as specified in BS 812- Part 1:1975; BS 812- Part105.1:1985; BS 812- Part105.1:1989)
Riffle Box ³	Width 6 mm to 100 mm	0.06 mm	Reference Caliper by direct measurement (Verification in accordance with in-house method for the dimensional requirements as specified in BS 812- Part 1:1975)
Mechanical			
Force Measuring Machine ³ (Compression Mode)	1 kN to 3000 kN	0.4 %	Reference Load cell by direct measurement (Based on BS 1610: Part 1:1985; BS 1610: Part 1:1992; BS EN ISO 12390-4:2000 Annex B; BS EN 12390-4: 2019; BS EN ISO 7500-1:2004, BS EN ISO 7500-1: 2015, BS EN ISO 7500-1: 2018)
Laser Dust Meter ³	Dust particles 0.1 mg/m ³ to 3 mg/m ³ 3 mg/m ³ to 8 mg/m ³	0.006 mg/m ³ 0.39 mg/m ³	By comparison method by using reference laser dust meter (Based on ISO 12103-1:2016)
Rebound Hammer ³	80 unit (hardness)	1.6 rebound count	Reference Rebound count by comparison method (Based on BS1881: Part 202:1986; BS EN 12504-2:2001; BS EN



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



TE-5170 Calibration Worksheet

Site Information

Location: AM3A	Zones 2A at West Site ID: Kowloon Cultural	Date: 23-Dec-25
Sampler: TE-5170	Serial No: 4340	Tech: CS Tang

Site Conditions

Barometric Pressure (in Hg): 30.04	Corrected Pressure (mm Hg): 763
Temperature (deg F): 68	Temperature (deg K): 293
Average Press. (in Hg): 30.04	Corrected Average (mm Hg): 763
Average Temp. (deg F): 68	Average Temp. (deg K): 293

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	12.90	1.737	53.0	53.56	Slope: 31.1626
2	10.70	1.584	48.0	48.50	Intercept: -0.3978
3	7.50	1.329	41.0	41.43	Corr. Coeff: 0.9976
4	4.60	1.045	33.0	33.35	
5	2.60	0.790	23.0	23.24	# 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 1.2968544
Average Flow Calculation in CFM 45.79192885
Sample Time (Hrs): 1.0
Total Flow in m3/min 77.81126398
Total Flow in CFM 2747.515731

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



TE-5170 Calibration Worksheet

Site Information

Location: AM5A	Zones 2A at West Site ID: Kowloon Cultural	Date: 23-Dec-25
Sampler: TE-5170	Serial No: 4344	Tech: CS Tang

Site Conditions

Barometric Pressure (in Hg): 30.04	Corrected Pressure (mm Hg): 763
Temperature (deg F): 68	Temperature (deg K): 293
Average Press. (in Hg): 30.04	Corrected Average (mm Hg): 763
Average Temp. (deg F): 68	Average Temp. (deg K): 293

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	1.717	53.0	53.56	Slope: 30.6589 Intercept: 0.8015 Corr. Coeff: 0.9978 # of Observations: 5
2	10.60	1.576	48.0	48.50	
3	7.40	1.320	41.0	41.43	
4	4.40	1.022	33.0	33.35	
5	2.40	0.760	23.0	23.24	

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 1.279046157
Average Flow Calculation in CFM 45.16311981
Sample Time (Hrs): 1.0
Total Flow in m3/min 76.74276944
Total Flow in CFM 2709.787189

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



TE-5170 Calibration Worksheet

Site Information

Location: AM4A	Zones 2A at West Site ID: Kowloon Cultural	Date: 23-Dec-25
Sampler: TE-5170	Serial No: 3998	Tech: CS Tang

Site Conditions

Barometric Pressure (in Hg): 30.04	Corrected Pressure (mm Hg): 763
Temperature (deg F): 68	Temperature (deg K): 293
Average Press. (in Hg): 30.04	Corrected Average (mm Hg): 763
Average Temp. (deg F): 68	Average Temp. (deg K): 293

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	1.724	53.0	53.56	Slope: 32.3243
2	10.40	1.562	48.0	48.50	Intercept: -2.0095
3	7.80	1.355	41.0	41.43	Corr. Coeff: 0.9981
4	4.70	1.056	33.0	33.35	
5	2.70	0.805	23.0	23.24	# 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 1.300109282
Average Flow Calculation in CFM 45.90685873
Sample Time (Hrs): 1.0
Total Flow in m3/min 78.00655689
Total Flow in CFM 2754.411524

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



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 SXE202510293
Certificate No.

第 1 页, 共 4 页
Page of

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.	AWA6221A0439E	设备管理编号 Equipment No.	FYH-QM4-NG-119
接收日期 Receipt on	2025 年 06 月 06 日 Y M D		

结论 符合JJG 176-2022 (1级) 技术要求
Conclusion Comply with the requirements for JJG 176-2022(for Class 1)

校准日期 Calibration on	2025 年 06 月 11 日 Y M D
发布日期 Issue on	2025 年 06 月 12 日 Y M D

批准 Authorized by		李敏毅
核 验 Reviewed by		李广智
校 准 Calibrated by		何卓斌



扫一扫查真伪

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Post Code: 510405 Tel: (8620)86594172 Fax: (8620)86590743 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
计量标准考核证书号: [1992]国量标粤证字第085号
Certificate No. for Examination of measurement standard



校准结果 RESULTS OF CALIBRATION

证书编号 SXE202510293
Certificate No.

原始记录号 SXE202510293
Record No.

第 3 页, 共 4 页
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	93.96	0.04	0.25	符合要求(Pass)
1000	114	114.01	0.01	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	998.95	0.1051	0.7	符合要求(Pass)
1000	114	998.99	0.1014	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	0.3	2.5	符合要求(Pass)





说 明

证书编号 SXE202510293

第 2 页, 共 4 页

Certificate No.

DIRECTIONS

Page of

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. 本中心所出具的数据均可溯源至国家计量基准和/或国际单位制(SI)。

All data issued by this laboratory are traceable to national primary standards and/or International System of Units (SI).

3. 校准地点、环境条件:

Location and environmental conditions of the calibration:

地点 声学/振动实验室 Acoustics/Vibration 温度 (25±1) °C 相对湿度 (40~50) %
Location Lab. Temperature R.H.

4. 本次校准的技术依据:

Reference documents for the calibration:

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

5. 本次校准所使用的主要计量标准器具:

Major standards of measurement used in the calibration:

设备名称/型号规格/测量范围 Name of Equipment /Model/Type/Range	编号 Serial No.	证书号/有效期/溯源单位 Certificate No./Due Date /Traceability to	计量特性 Metrological Characteristic
动态信号分析仪 Dynamical Signal Analyzer /3560C (3110模块) /0.1 Hz~200 kHz	2392397	SXE202500778 /2026-04-16 /本中心	电压: $U_{rel}=0.2\%$, 频率: $U_{rel}=0.002\%$ ($k=2$) Voltage: $U_{rel}=0.2\%$, Frequency: $U_{rel}=0.002\%$ ($k=2$)
工作标准传声器 Working standard microphone /4190/20 Hz~20 kHz	2383233	SXE202500423 /2026-03-03 /本中心	20 Hz~4 kHz, $U=0.20$ dB 5 kHz~20 kHz, $U=0.50$ dB ($k=2$)
声校准器 Sound Level Calibrator /4231/94 dB, 114 dB	2730392	SXE202500307 /2026-02-09 /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”由委托方提供, “制造厂”、“型号规格”、“出厂编号”以及“设备编号”为仪器上标注, 委托方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 client, and the Manufacturer, Model/Type, Serial No. and Equipment No. are marked on the items. Client 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 SXE202510293
Certificate No.

原始记录号 SXE202510293
Record No.

第 4 页, 共 4 页
Page of

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 校准结果符合性判定依据JJF 1094-2002《测量仪器特性评定》之5.3.1和JJG 176-2022《声校准器检定规程》。Decision rules of conformity are JJF 1094-2002 *Evaluation of the Characteristics of Measuring Instruments* (5.3.1) and JJG 176-2022 *V.R. of Sound Calibrators*.

4 结论: 被校准仪器校准结果符合 JJG 176-2022 (1级)全部后续项目技术要求。

Conclusion: The data of instrument calibrated comply with the technical characteristics of all subsequent items in JJG 176-2022 (for Class 1).

5 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.

6 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): (25 ± 1) °C

湿度 (Humidity): $(40 \sim 50)$ %RH

静压 (Static pressure): $(100.0 \sim 101.0)$ kPa



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第 1 页 共 7 页
Page of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.

第 2 页 共 7 页
Page of

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°C

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

证书编号 C2509253990002
Certificate No.

第 3 页 共 7 页
Page of

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.

第 4 页 共 7 页
Page of

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 (dB)	接受限 (dB)	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

证书编号 C2509253990002
Certificate No.

第 5 页 共 7 页
Page of

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

证书编号 C2509253990002
Certificate No.

第 6 页 共 7 页
Page of

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) (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



第 7 页 共 7 页
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

1. 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.
2. 校准项目符合1级技术要求。
The calibrated measurand are accord with class 1 technical specifications.

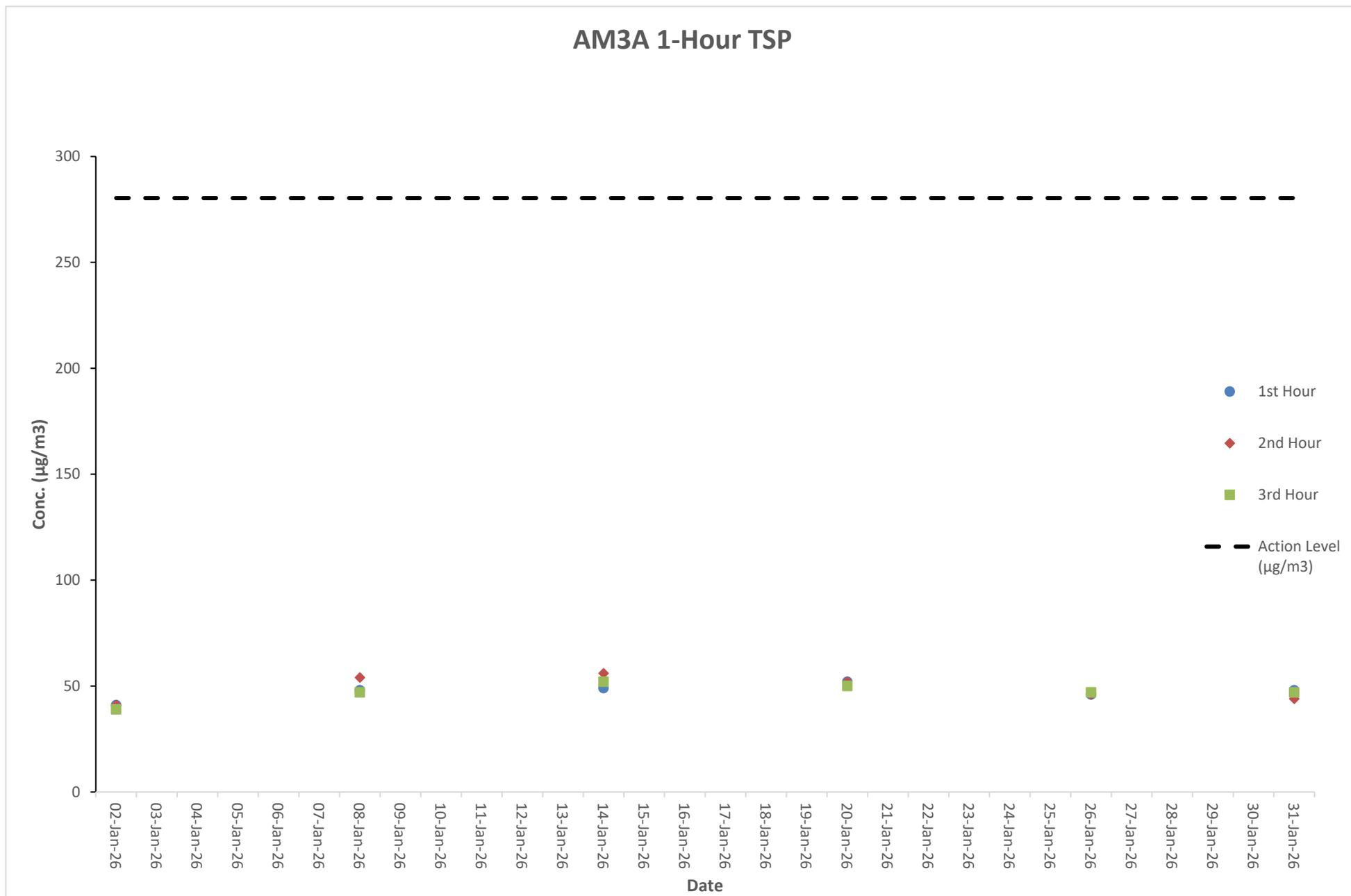
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G. Graphical Plots of the Monitoring Results

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

Date	Weather Condition	Time		Conc. ($\mu\text{g}/\text{m}^3$)			Action Level	Limit Level
		Start	Finish	1st Hour	2nd Hour	3rd Hour		
02-Jan-26	Fine	13:00	16:00	41	41	39	280.4	500
08-Jan-26	Fine	7:04	10:04	48	54	47	280.4	500
14-Jan-26	Fine	13:02	16:02	49	56	52	280.4	500
20-Jan-26	Cloudy	7:01	10:01	52	52	50	280.4	500
26-Jan-26	Fine	13:05	16:05	46	46	47	280.4	500
31-Jan-26	Cloudy	7:06	10:06	48	44	47	280.4	500

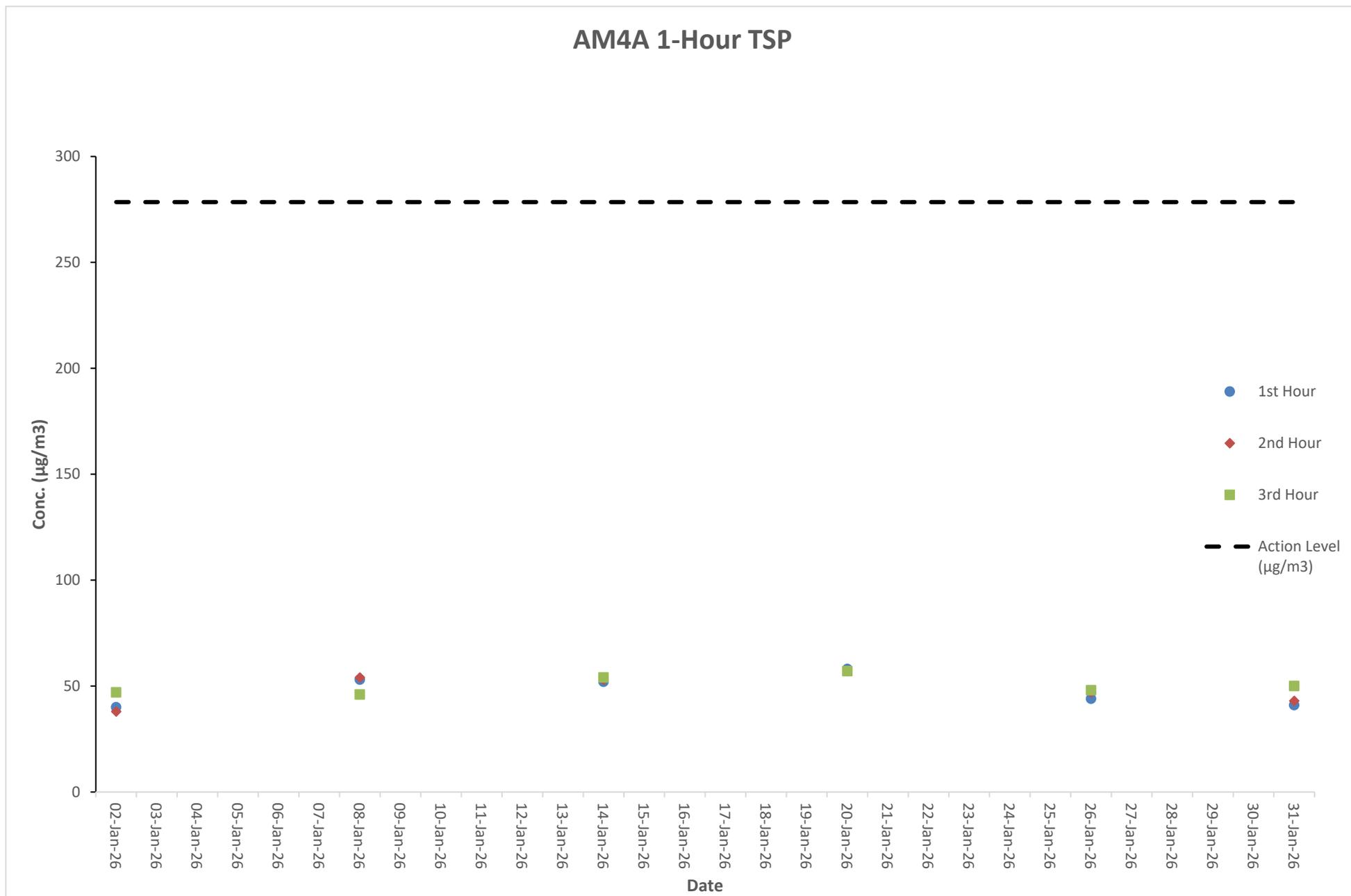
Graphical Presentation of Air Quality Monitoring Result at Station AM3A (1-hour TSP)



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

Date	Weather Condition	Time		Conc. ($\mu\text{g}/\text{m}^3$)			Action Level	Limit Level
		Start	Finish	1st Hour	2nd Hour	3rd Hour		
02-Jan-26	Fine	13:08	16:08	40	38	47	278.5	500
08-Jan-26	Fine	7:12	10:12	53	54	46	278.5	500
14-Jan-26	Fine	13:10	16:10	52	53	54	278.5	500
20-Jan-26	Cloudy	7:09	10:09	58	57	57	278.5	500
26-Jan-26	Fine	13:13	16:13	44	47	48	278.5	500
31-Jan-26	Cloudy	7:14	10:14	41	43	50	278.5	500

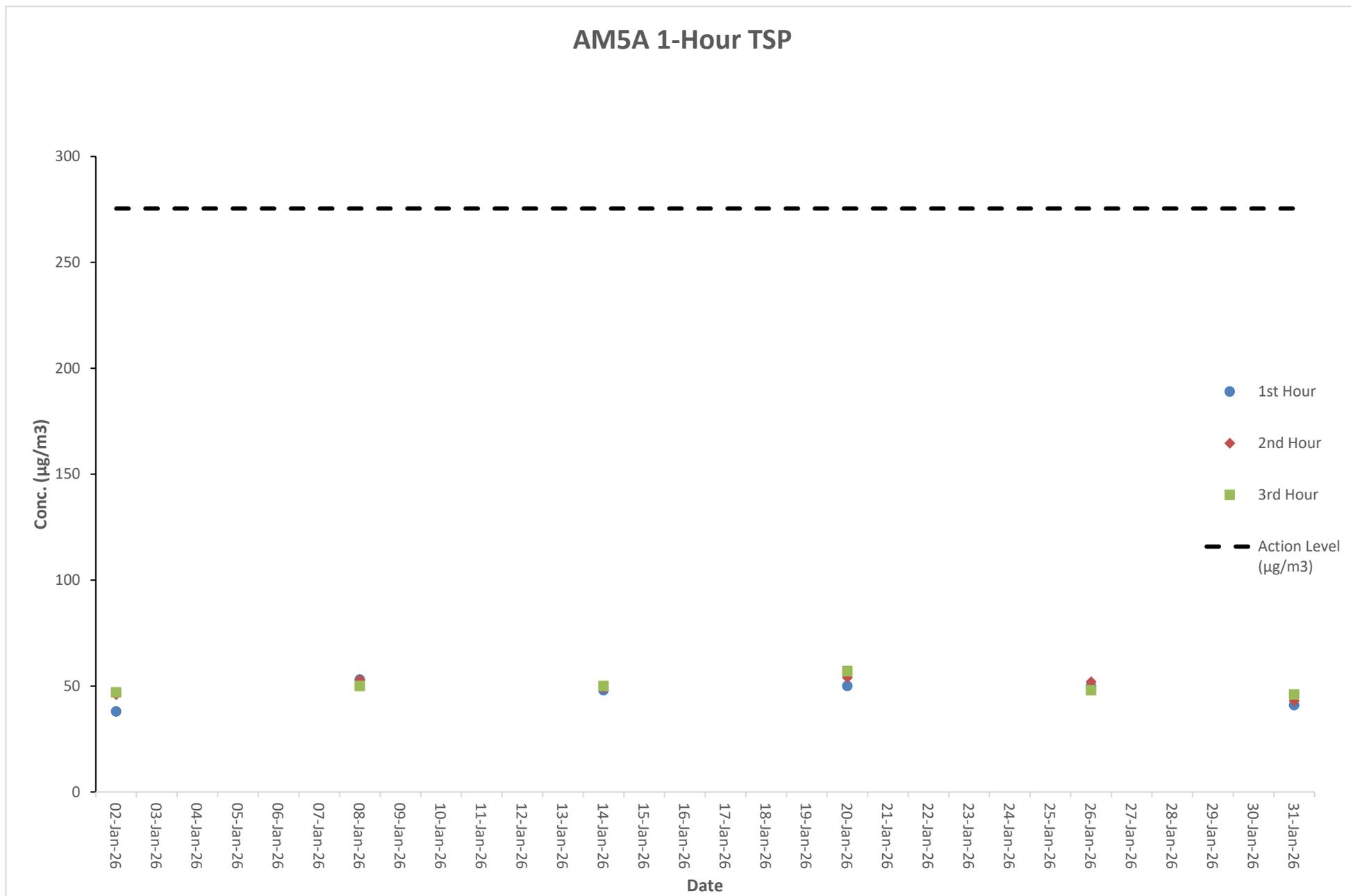
Graphical Presentation of Air Quality Monitoring Result at Station AM4A (1-hour TSP)



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

Date	Weather Condition	Time		Conc. ($\mu\text{g}/\text{m}^3$)			Action Level	Limit Level
		Start	Finish	1st Hour	2nd Hour	3rd Hour		
02-Jan-26	Fine	13:23	16:23	38	46	47	275.4	500
08-Jan-26	Fine	7:29	10:29	53	53	50	275.4	500
14-Jan-26	Fine	13:25	16:25	48	49	50	275.4	500
20-Jan-26	Cloudy	7:26	10:26	50	54	57	275.4	500
26-Jan-26	Fine	13:28	16:28	50	52	48	275.4	500
31-Jan-26	Cloudy	7:31	10:31	41	43	46	275.4	500

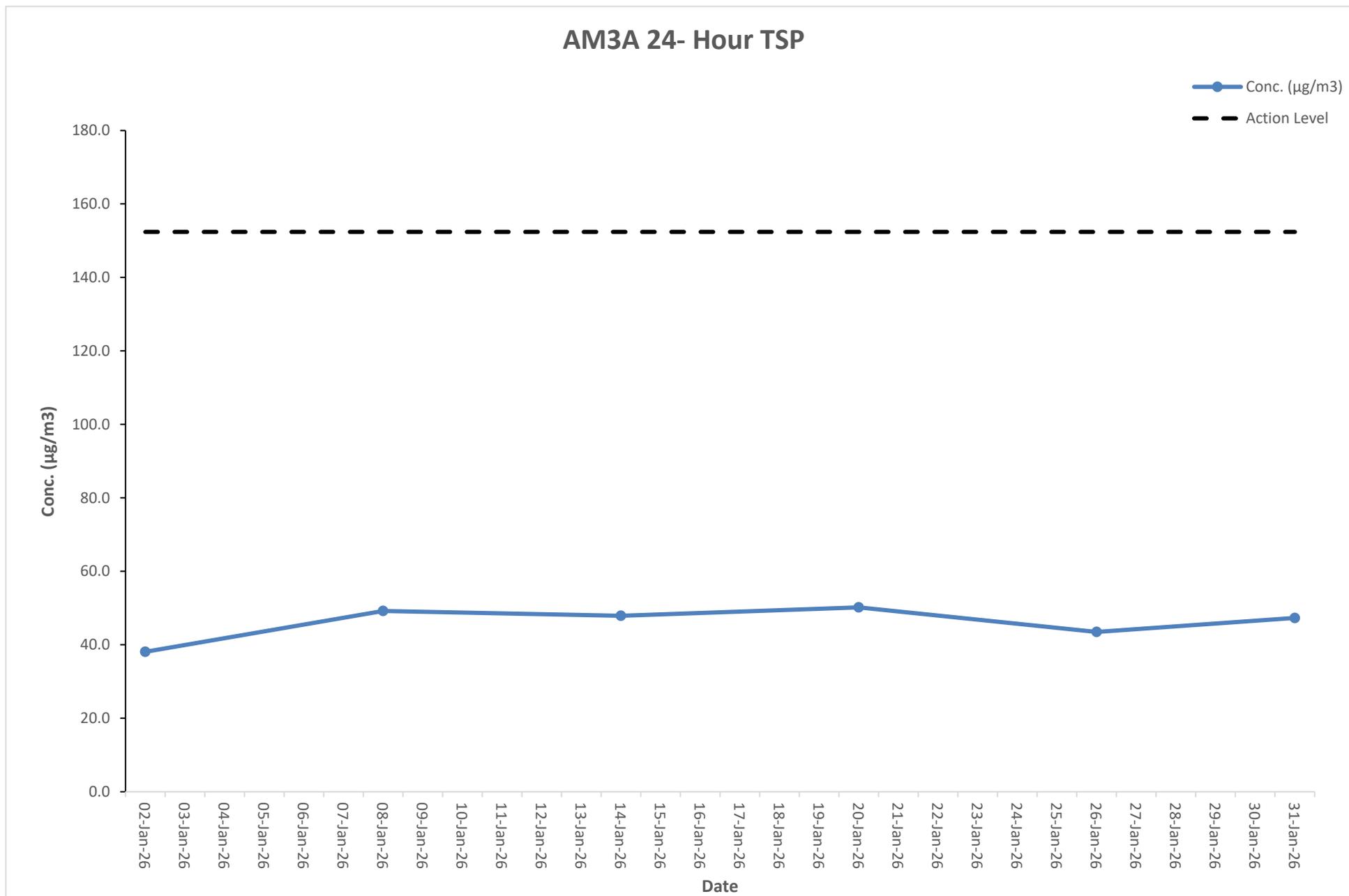
Graphical Presentation of Air Quality Monitoring Result at Station AM5A (1-hour TSP)



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/m ³)	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
02-Jan-26	10:00AM	03-Jan-26	10:00AM	2.8038	2.8651	9382.8	9406.8	24	1.12	1.12	1.12	38.1	Sunny	152.4	260
08-Jan-26	10:00AM	09-Jan-26	10:00AM	2.8013	2.8806	9406.8	9430.8	24	1.12	1.12	1.12	49.2	Sunny	152.4	260
14-Jan-26	10:00AM	15-Jan-26	10:00AM	2.8042	2.8813	9430.8	9454.8	24	1.12	1.12	1.12	47.9	Sunny	152.4	260
20-Jan-26	10:00AM	21-Jan-26	10:00AM	2.8027	2.8834	9454.8	9478.8	24	1.12	1.12	1.12	50.2	Cloudy	152.4	260
26-Jan-26	10:00AM	27-Jan-26	10:00AM	2.8039	2.8740	9478.8	9502.8	24	1.12	1.12	1.12	43.5	Sunny	152.4	260
31-Jan-26	10:00AM	01-Feb-26	10:00AM	2.8066	2.8827	9502.8	9526.8	24	1.12	1.12	1.12	47.3	Cloudy	152.4	260

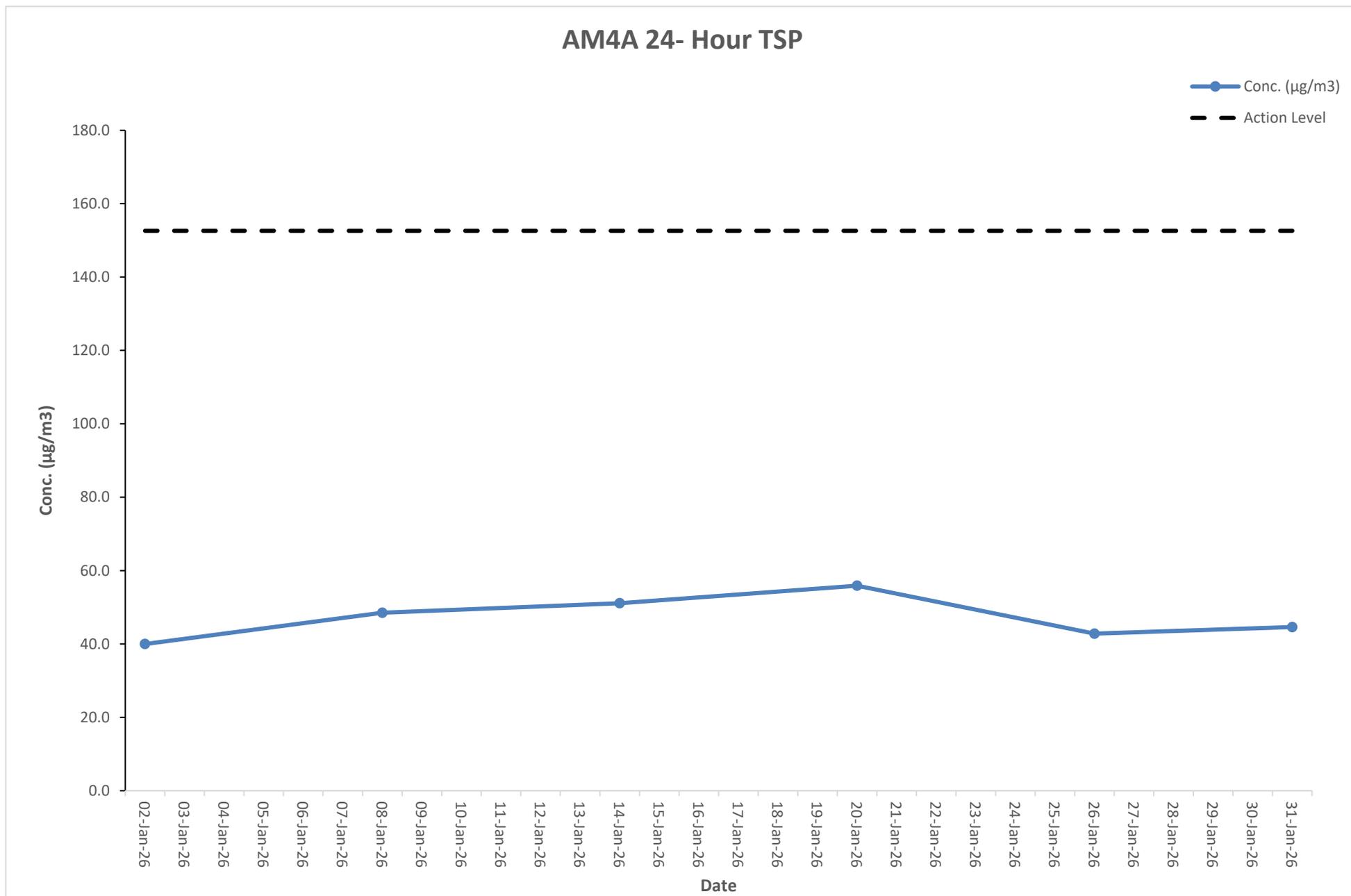
Graphical Presentation of Air Quality Monitoring Result at Station AM3A (24-hour TSP)



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/m ³)	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
02-Jan-26	10:00AM	03-Jan-26	10:00AM	2.8054	2.8697	9802.4	9826.4	24	1.12	1.12	1.12	40.0	Sunny	152.6	260
08-Jan-26	10:00AM	09-Jan-26	10:00AM	2.8062	2.8842	9826.4	9850.4	24	1.12	1.12	1.12	48.5	Sunny	152.6	260
14-Jan-26	10:00AM	15-Jan-26	10:00AM	2.8020	2.8842	9850.4	9874.4	24	1.12	1.12	1.12	51.1	Sunny	152.6	260
20-Jan-26	10:00AM	21-Jan-26	10:00AM	2.8067	2.8966	9874.4	9898.4	24	1.12	1.12	1.12	55.9	Cloudy	152.6	260
26-Jan-26	10:00AM	27-Jan-26	10:00AM	2.8064	2.8753	9898.4	9922.4	24	1.12	1.12	1.12	42.8	Sunny	152.6	260
31-Jan-26	10:00AM	01-Feb-26	10:00AM	2.8077	2.8794	9922.4	9946.4	24	1.12	1.12	1.12	44.6	Cloudy	152.6	260

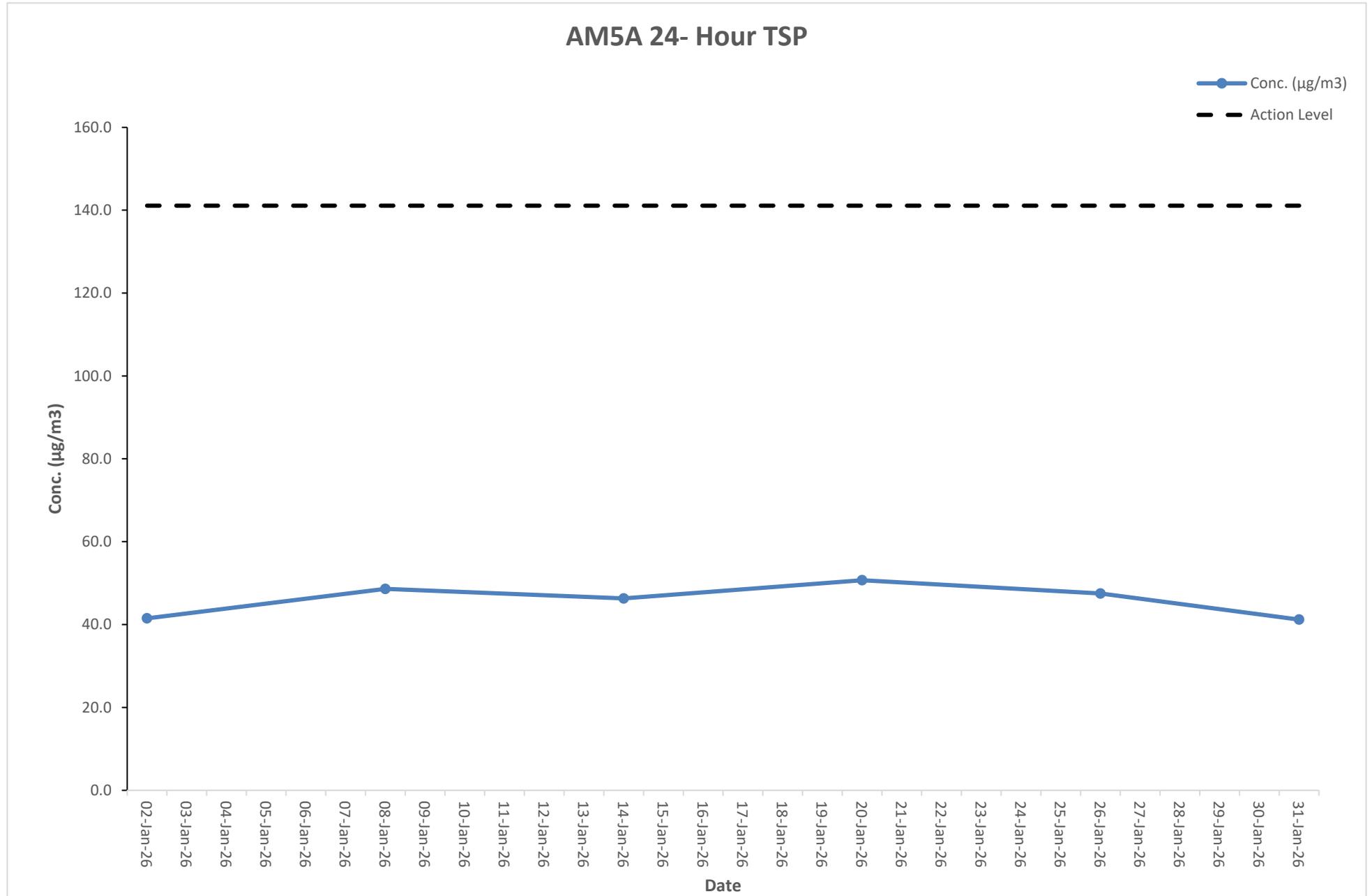
Graphical Presentation of Air Quality Monitoring Result at Station AM4A (24-hour TSP)



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/m ³)	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
02-Jan-26	10:00AM	03-Jan-26	10:00AM	2.8079	2.8748	9940.6	9964.6	24	1.12	1.12	1.12	41.5	Sunny	141.1	260
08-Jan-26	10:00AM	09-Jan-26	10:00AM	2.8031	2.8814	9964.6	9988.6	24	1.12	1.12	1.12	48.6	Sunny	141.1	260
14-Jan-26	10:00AM	15-Jan-26	10:00AM	2.8023	2.8767	9988.6	10012.6	24	1.12	1.12	1.12	46.3	Sunny	141.1	260
20-Jan-26	10:00AM	21-Jan-26	10:00AM	2.8068	2.8885	10012.6	10036.6	24	1.12	1.12	1.12	50.7	Cloudy	141.1	260
26-Jan-26	10:00AM	27-Jan-26	10:00AM	2.8078	2.8843	10036.6	10060.6	24	1.12	1.12	1.12	47.5	Sunny	141.1	260
31-Jan-26	10:00AM	01-Feb-26	10:00AM	2.8026	2.8689	10060.6	10084.6	24	1.12	1.12	1.12	41.2	Cloudy	141.1	260

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



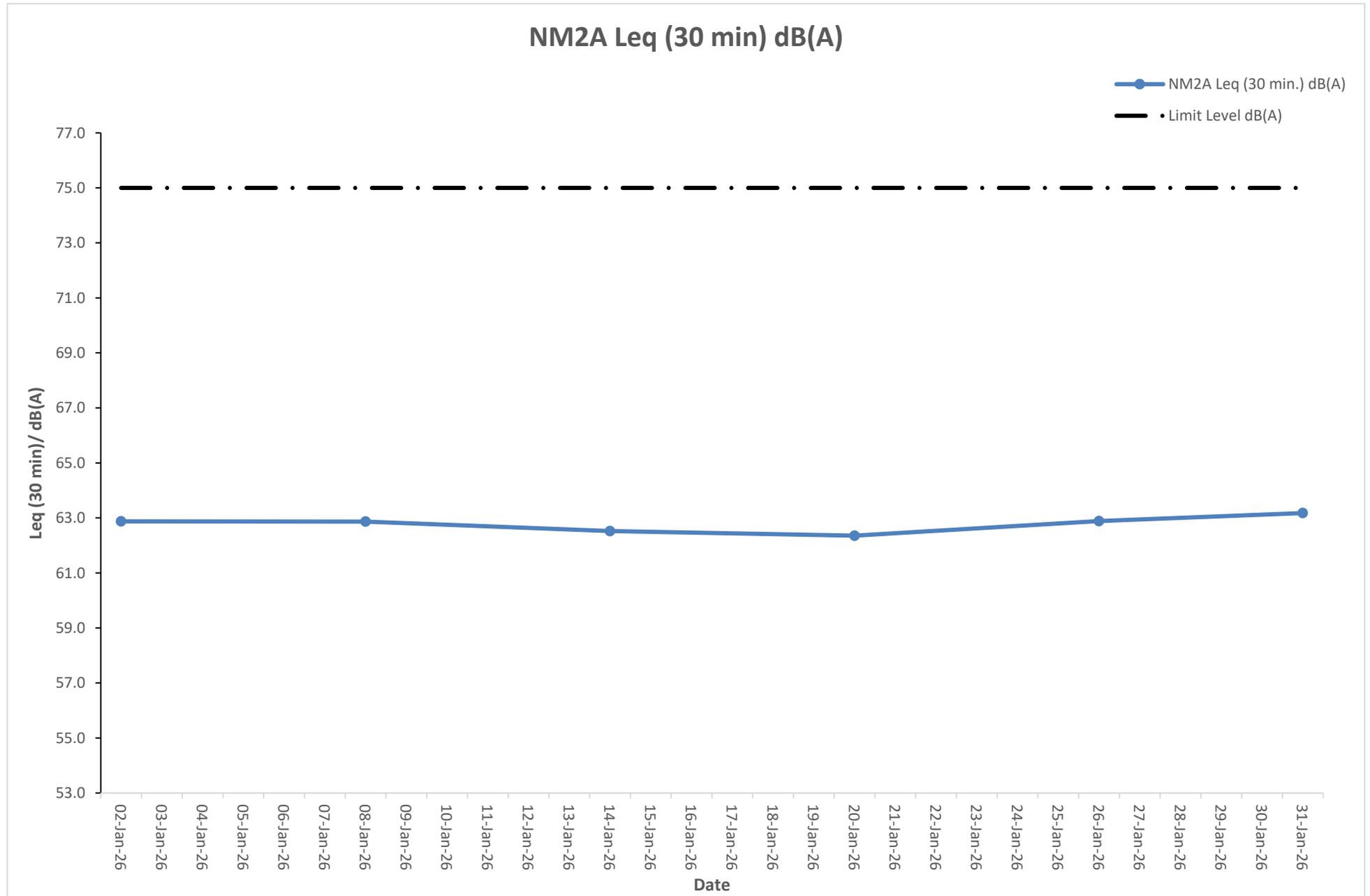
Noise Monitoring Result at Station NM2A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
02-Jan-26	13:00	64.0	60.5	62.9
02-Jan-26	13:05	64.6	61.3	
02-Jan-26	13:10	64.8	61.1	
02-Jan-26	13:15	65.0	60.8	
02-Jan-26	13:20	64.1	61.2	
02-Jan-26	13:25	64.8	61.1	
08-Jan-26	7:04	63.8	60.9	62.9
08-Jan-26	7:09	64.4	60.8	
08-Jan-26	7:14	64.9	61.3	
08-Jan-26	7:19	64.4	61.6	
08-Jan-26	7:24	64.0	61.3	
08-Jan-26	7:29	64.2	61.0	
14-Jan-26	13:02	63.8	60.5	62.5
14-Jan-26	13:07	64.1	61.5	
14-Jan-26	13:12	64.5	60.6	
14-Jan-26	13:17	64.1	60.7	
14-Jan-26	13:22	65.0	60.2	
14-Jan-26	13:27	63.7	60.2	
20-Jan-26	7:01	64.9	61.4	62.4
20-Jan-26	7:06	64.8	60.6	
20-Jan-26	7:11	64.4	60.4	
20-Jan-26	7:16	64.4	60.9	
20-Jan-26	7:21	64.4	61.4	
20-Jan-26	7:26	63.7	61.4	
26-Jan-26	13:05	64.0	61.5	62.9
26-Jan-26	13:10	63.7	61.4	
26-Jan-26	13:15	64.1	61.0	
26-Jan-26	13:20	64.0	60.4	
26-Jan-26	13:25	64.2	61.1	
26-Jan-26	13:30	64.9	61.4	
31-Jan-26	8:05	65.0	60.8	63.2
31-Jan-26	8:10	64.5	61.1	
31-Jan-26	8:15	64.8	60.8	
31-Jan-26	8:20	64.4	60.9	
31-Jan-26	8:25	63.8	60.5	
31-Jan-26	8:30	64.5	60.9	



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

Graphical Presentation of Noise Monitoring Result at Station NM2A



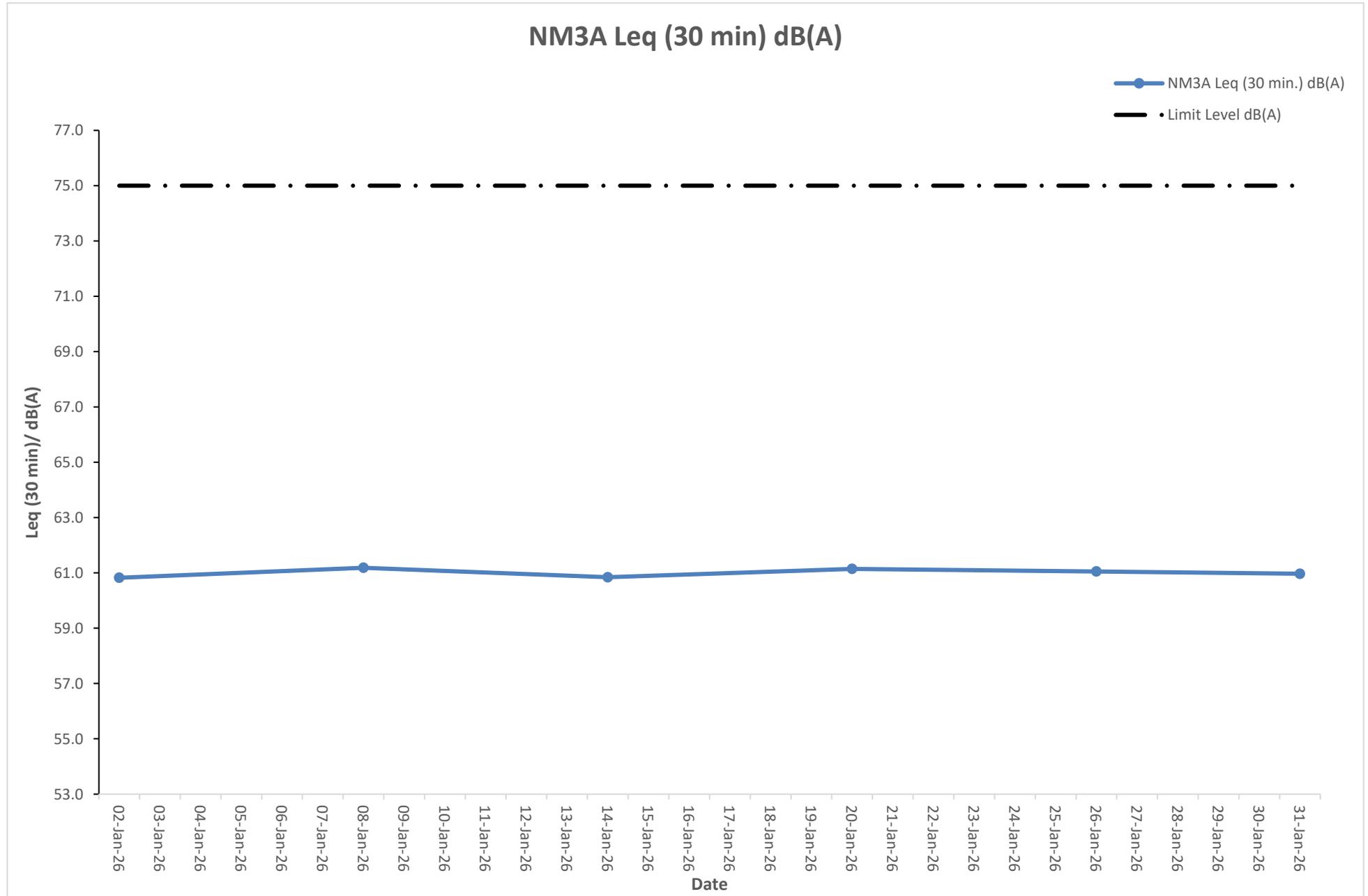
Noise Monitoring Result at Station NM3A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
02-Jan-26	14:30	62.1	57.5	60.8
02-Jan-26	14:35	63.6	57.5	
02-Jan-26	14:40	62.7	57.7	
02-Jan-26	14:45	63.8	56.0	
02-Jan-26	14:50	62.2	57.5	
02-Jan-26	14:55	63.3	57.3	
08-Jan-26	8:25	61.9	56.3	61.2
08-Jan-26	8:30	62.5	56.0	
08-Jan-26	8:35	62.1	57.8	
08-Jan-26	8:40	62.8	55.9	
08-Jan-26	8:45	62.0	57.4	
08-Jan-26	8:50	61.9	57.0	
14-Jan-26	14:32	62.6	57.0	60.8
14-Jan-26	14:37	62.0	57.6	
14-Jan-26	14:42	62.0	56.1	
14-Jan-26	14:47	62.8	57.7	
14-Jan-26	14:52	63.1	56.4	
14-Jan-26	14:57	63.3	57.0	
20-Jan-26	8:17	63.1	56.2	61.1
20-Jan-26	8:22	63.4	57.0	
20-Jan-26	8:27	62.6	56.5	
20-Jan-26	8:32	62.4	57.3	
20-Jan-26	8:37	62.5	56.7	
20-Jan-26	8:42	62.3	57.4	
26-Jan-26	14:35	62.6	56.1	61.1
26-Jan-26	14:40	61.9	56.0	
26-Jan-26	14:45	63.8	56.0	
26-Jan-26	14:50	63.3	57.4	
26-Jan-26	14:55	61.9	57.1	
26-Jan-26	15:00	62.2	57.8	
31-Jan-26	9:21	63.7	56.2	61.0
31-Jan-26	9:26	62.3	57.5	
31-Jan-26	9:31	61.9	56.1	
31-Jan-26	9:36	62.2	56.3	
31-Jan-26	9:41	62.0	56.0	
31-Jan-26	9:46	63.7	56.9	



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

Graphical Presentation of Noise Monitoring Result at Station NM3A



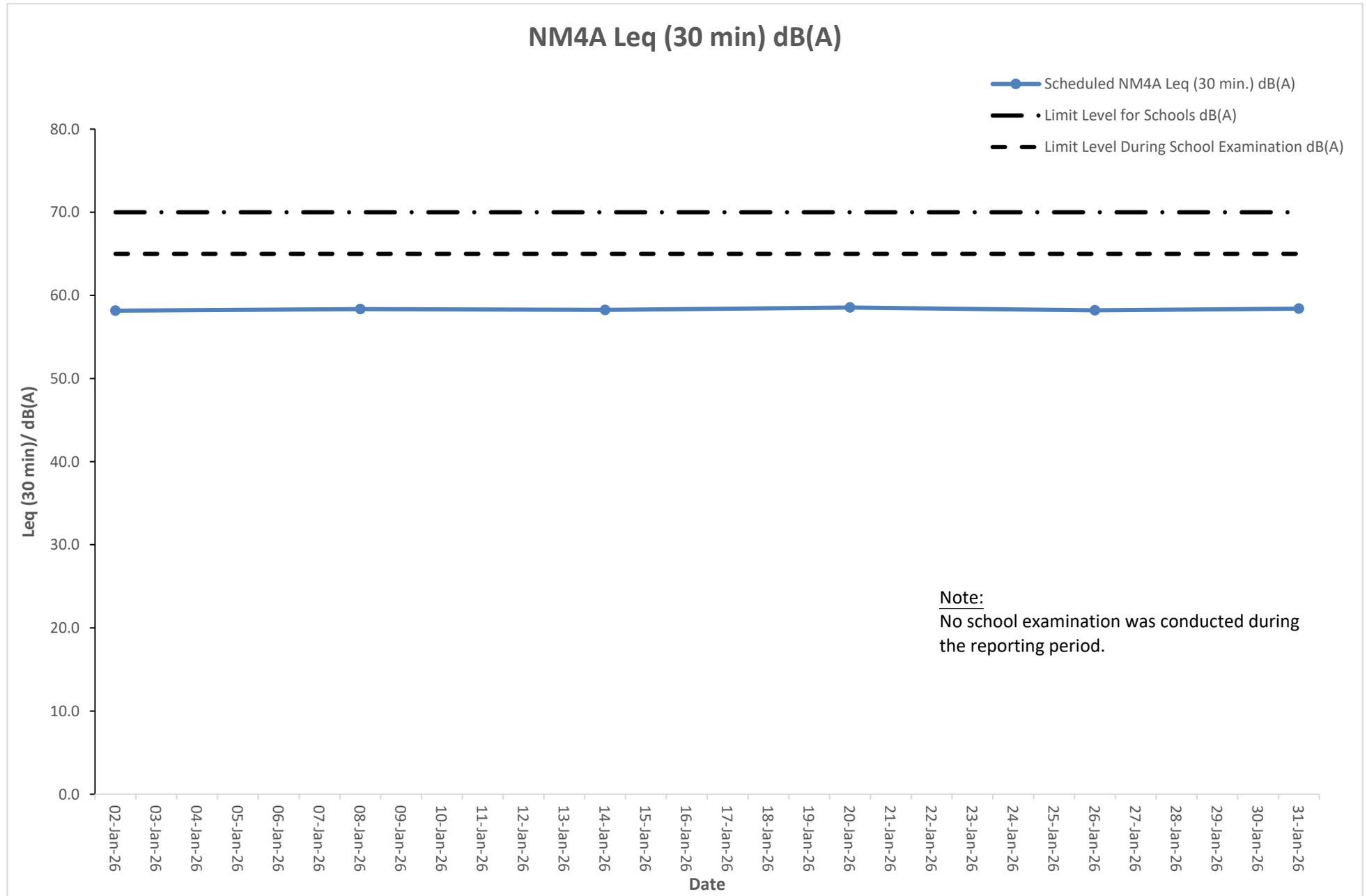
Noise Monitoring Result at Station NM4A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
02-Jan-26	16:35	60.0	56.8	58.2
02-Jan-26	16:40	59.5	57.0	
02-Jan-26	16:45	60.2	57.1	
02-Jan-26	16:50	60.5	57.0	
02-Jan-26	16:55	60.5	57.1	
02-Jan-26	17:00	59.5	56.5	
08-Jan-26	9:00	59.7	55.8	58.3
08-Jan-26	9:05	60.1	56.9	
08-Jan-26	9:10	59.5	55.8	
08-Jan-26	9:15	60.1	57.1	
08-Jan-26	9:20	60.3	56.6	
08-Jan-26	9:25	60.1	55.7	
14-Jan-26	16:37	59.7	55.8	58.2
14-Jan-26	16:42	59.5	55.7	
14-Jan-26	16:47	59.8	56.7	
14-Jan-26	16:52	60.1	57.0	
14-Jan-26	16:57	59.2	57.1	
14-Jan-26	17:02	59.9	56.8	
20-Jan-26	8:52	60.1	55.8	58.5
20-Jan-26	8:57	59.8	57.1	
20-Jan-26	9:02	59.4	56.9	
20-Jan-26	9:07	59.8	56.6	
20-Jan-26	9:12	59.2	56.7	
20-Jan-26	9:17	60.2	57.1	
26-Jan-26	16:40	60.4	56.3	58.2
26-Jan-26	16:45	60.6	56.1	
26-Jan-26	16:50	59.3	56.1	
26-Jan-26	16:55	60.1	56.1	
26-Jan-26	17:00	60.0	56.0	
26-Jan-26	17:05	59.7	56.3	
31-Jan-26	9:56	59.3	55.8	58.4
31-Jan-26	10:01	59.5	56.1	
31-Jan-26	10:06	60.3	56.9	
31-Jan-26	10:11	60.0	56.1	
31-Jan-26	10:16	59.8	56.1	
31-Jan-26	10:21	59.6	56.8	



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)
02-Jan-26	13:50	62.3	57.6	60.5	63.5
02-Jan-26	13:55	62.2	57.6		
02-Jan-26	14:00	61.9	57.6		
02-Jan-26	14:05	61.4	57.8		
02-Jan-26	14:10	62.7	57.8		
02-Jan-26	14:15	62.8	58.1		
08-Jan-26	7:44	62.3	58.1	60.4	63.4
08-Jan-26	7:49	61.8	58.3		
08-Jan-26	7:54	62.2	59.0		
08-Jan-26	7:59	61.4	58.0		
08-Jan-26	8:04	62.5	59.3		
08-Jan-26	8:09	62.8	57.9		
14-Jan-26	13:52	61.5	58.7	60.9	63.9
14-Jan-26	13:57	62.2	58.7		
14-Jan-26	14:02	62.4	58.1		
14-Jan-26	14:07	62.2	58.5		
14-Jan-26	14:12	61.8	58.3		
14-Jan-26	14:17	62.0	58.7		
20-Jan-26	7:39	62.5	58.3	60.6	63.6
20-Jan-26	7:44	61.9	59.3		
20-Jan-26	7:49	61.4	59.0		
20-Jan-26	7:54	62.7	58.1		
20-Jan-26	7:59	62.7	57.6		
20-Jan-26	8:04	62.7	58.0		
26-Jan-26	13:55	62.4	58.9	60.8	63.8
26-Jan-26	14:00	61.5	58.1		
26-Jan-26	14:05	62.3	58.4		
26-Jan-26	14:10	62.6	57.5		
26-Jan-26	14:15	61.7	59.2		
26-Jan-26	14:20	61.4	58.4		
31-Jan-26	8:43	62.1	58.4	60.5	63.5
31-Jan-26	8:48	62.4	57.4		
31-Jan-26	8:53	62.8	57.7		
31-Jan-26	8:58	62.8	58.8		
31-Jan-26	9:03	62.0	59.2		
31-Jan-26	9:08	62.4	58.7		

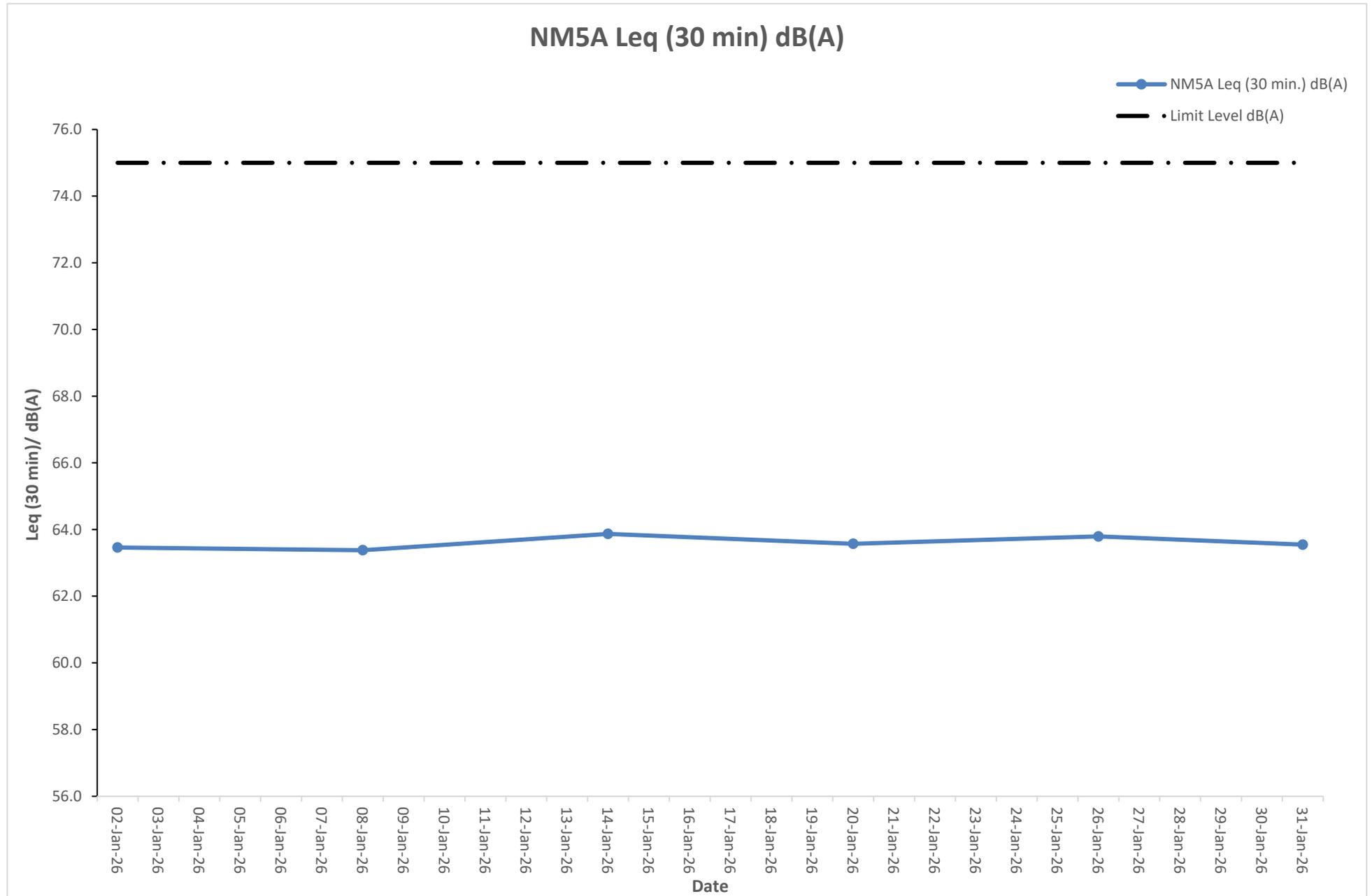
Remarks:

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



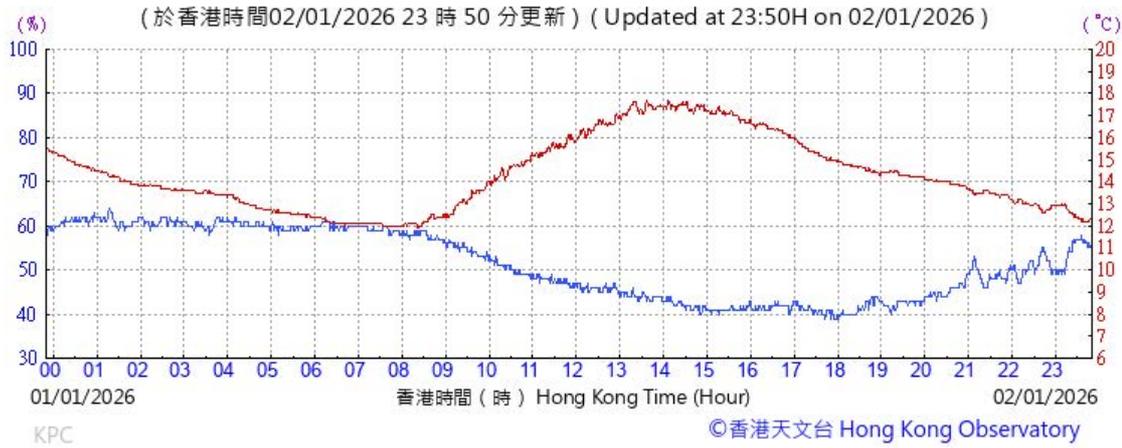
The station set-up of a free-field measurement at station NM5A.

Graphical Presentation of Noise Monitoring Result at Station NM5A

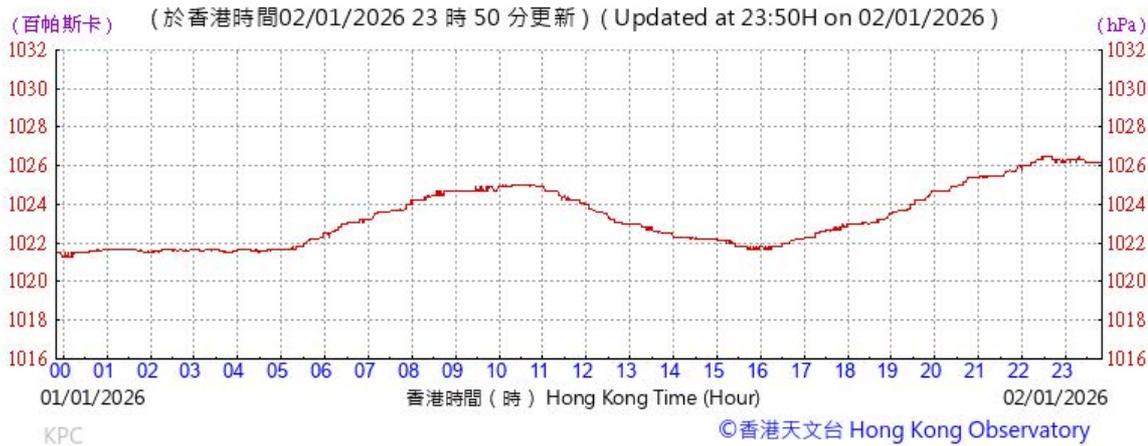


H. Meteorological Data Extracted from Hong Kong Observatory

Temperature/Humidity:



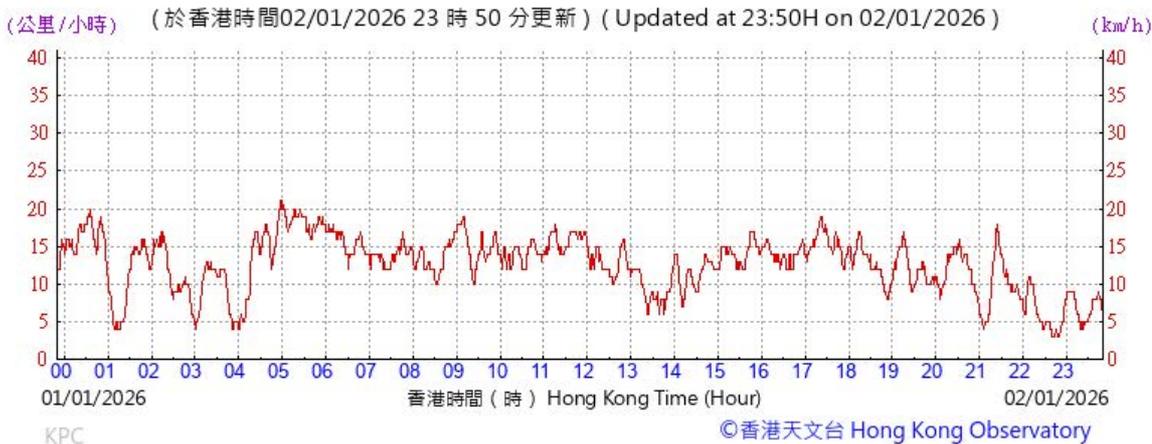
Pressure:



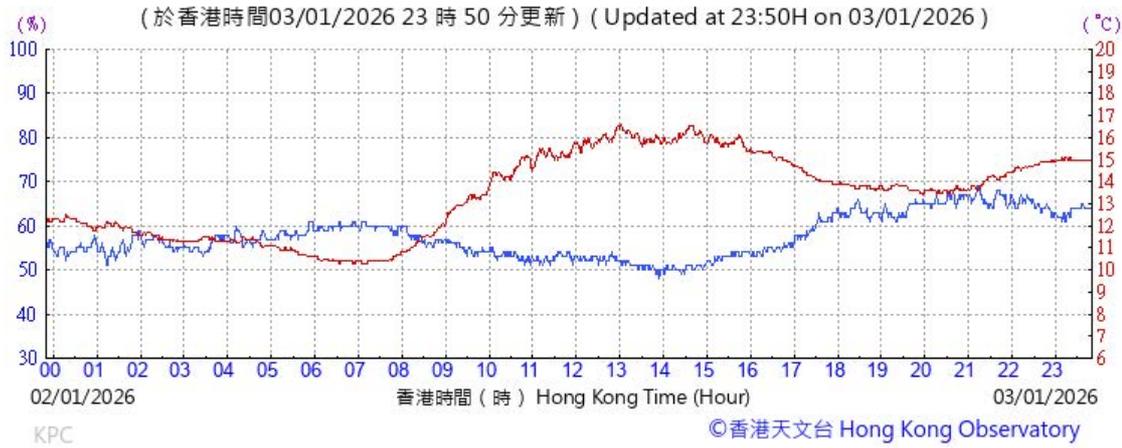
Wind Direction:



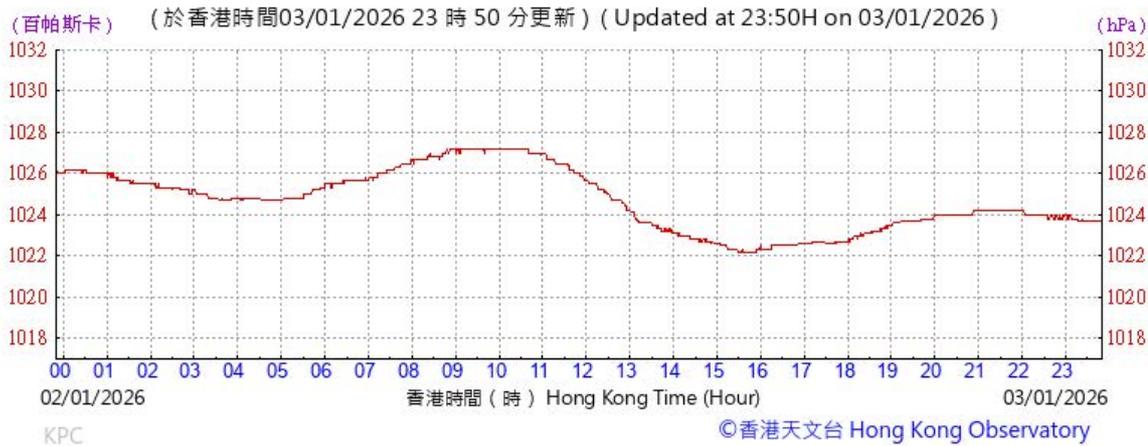
Wind Speed:



Temperature/Humidity:



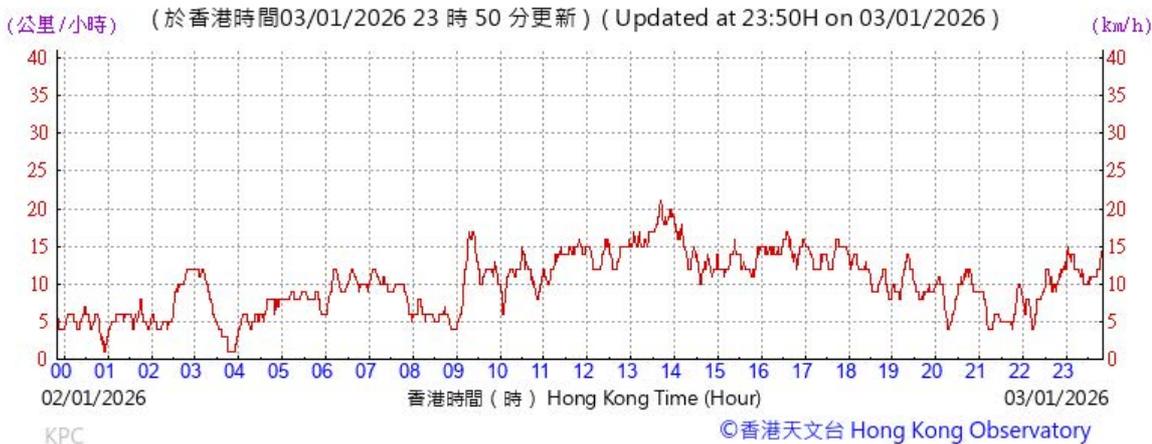
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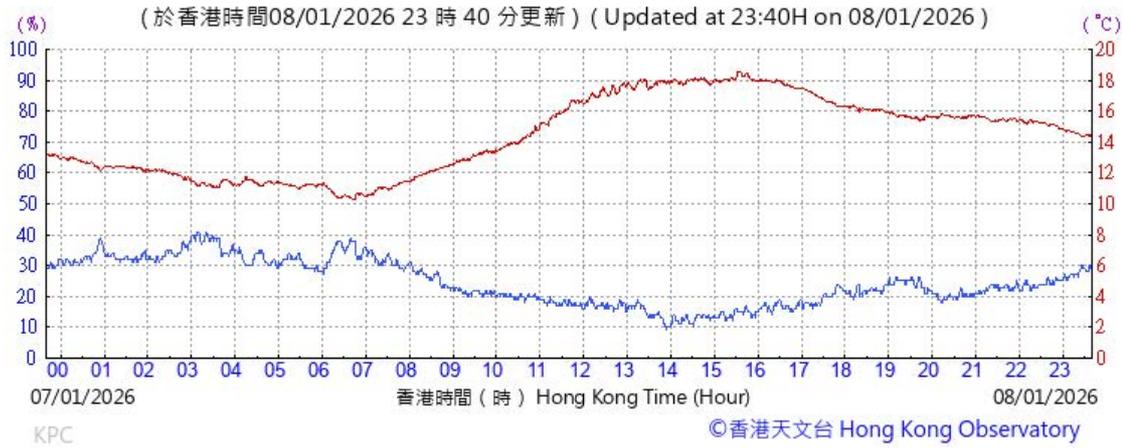
Wind Direction:



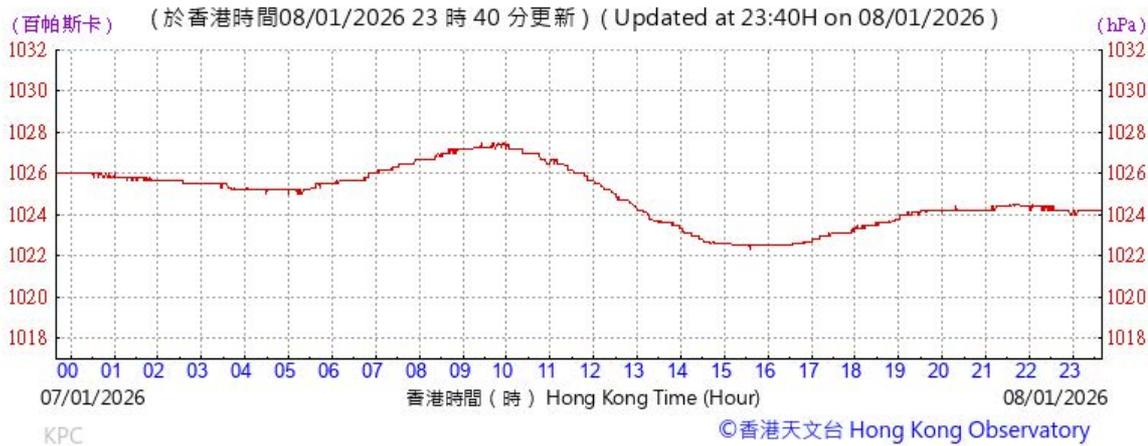
Wind Speed:



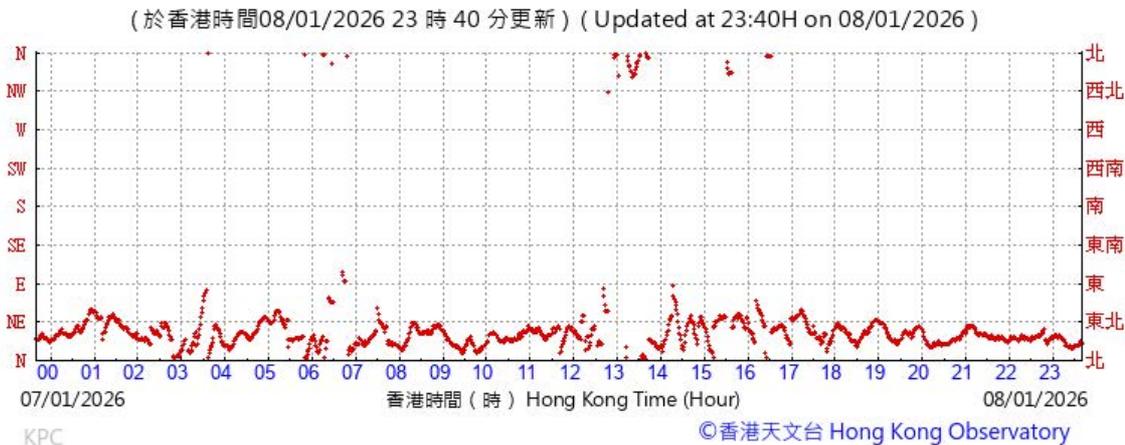
Temperature/Humidity:



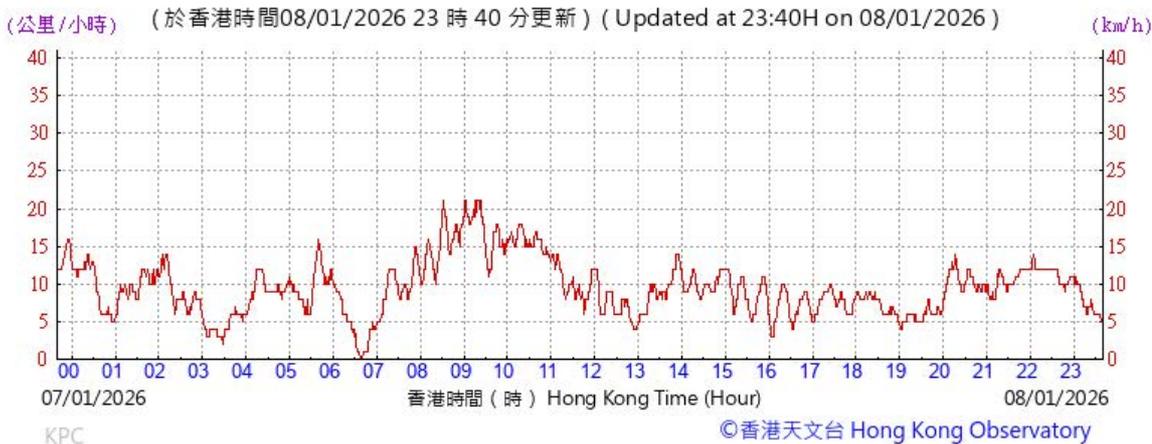
Pressure:



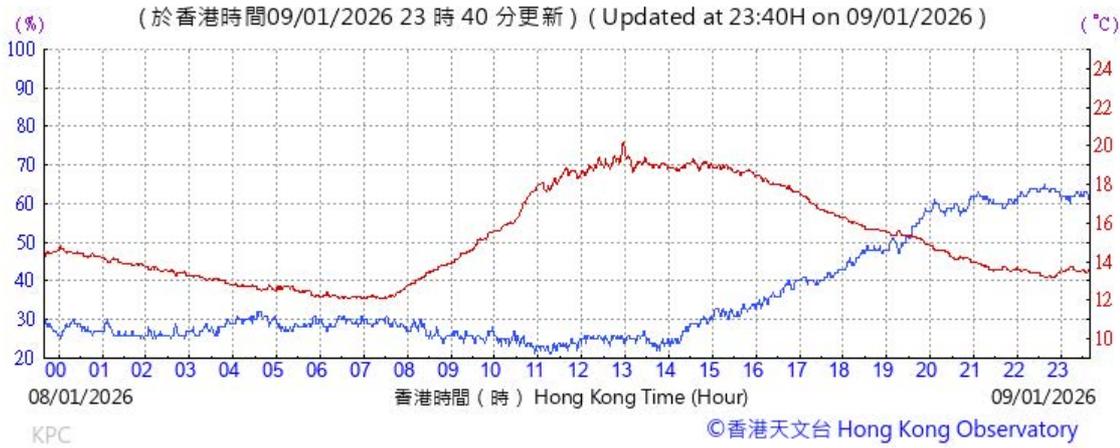
Wind Direction:



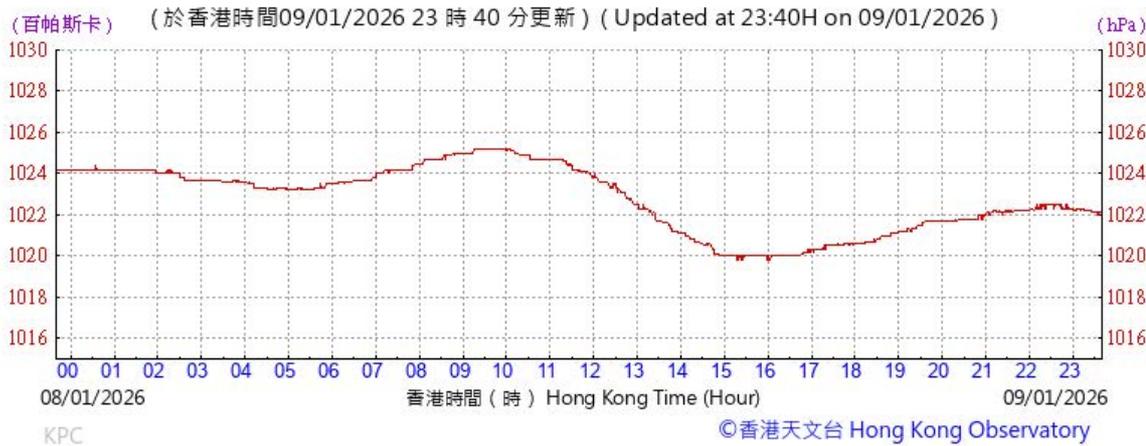
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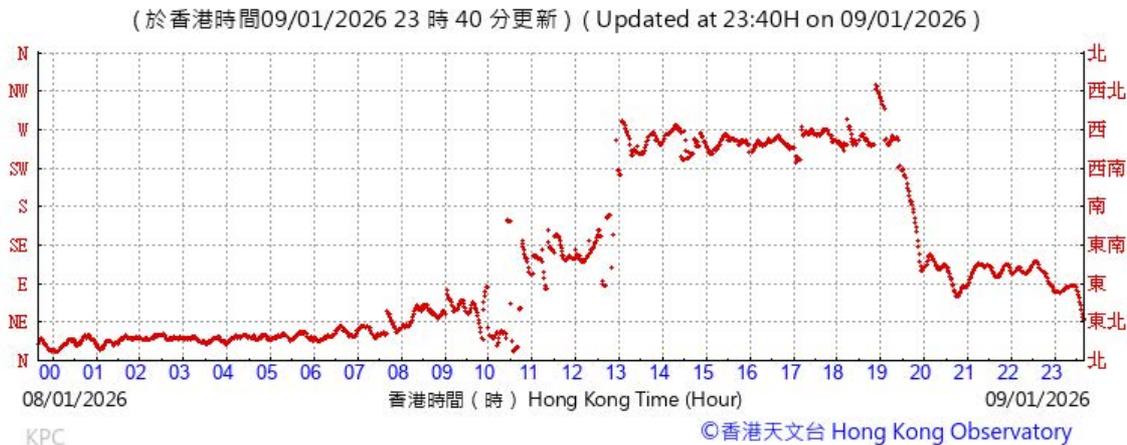
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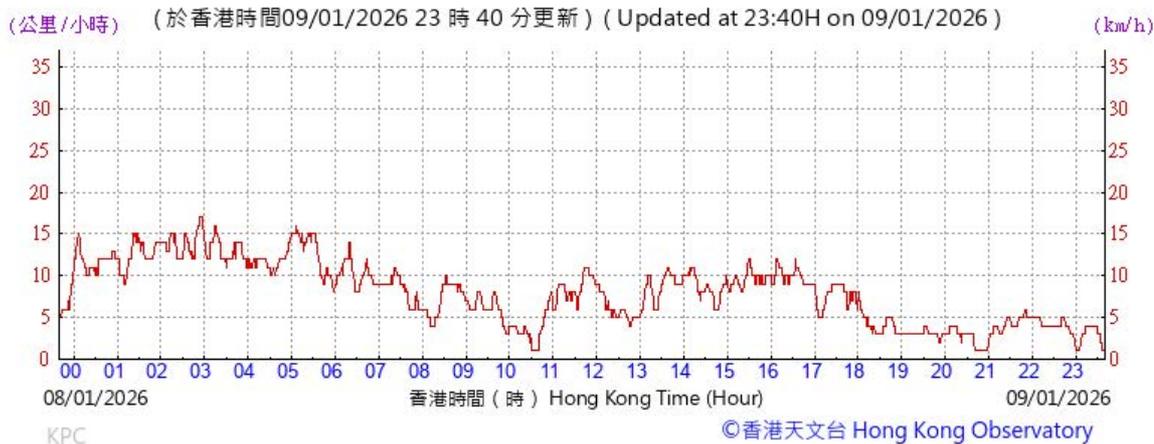
Pressure:



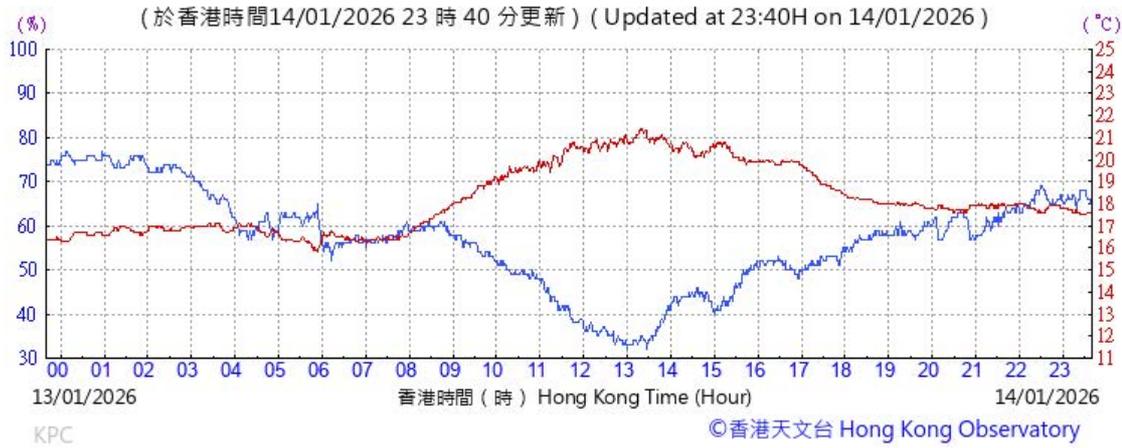
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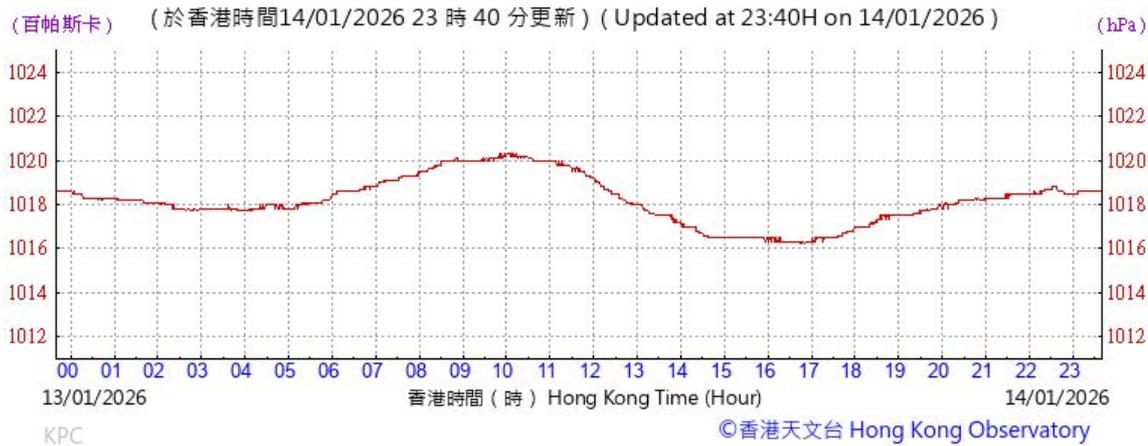
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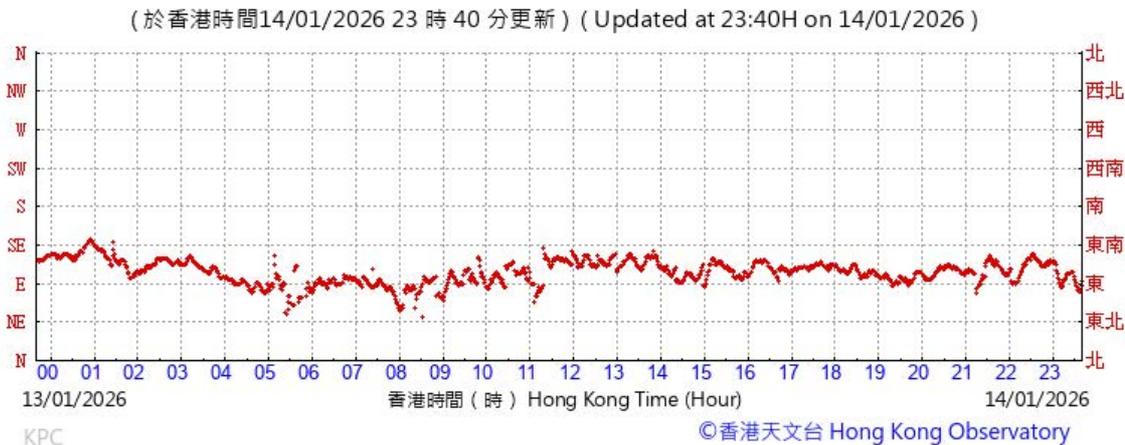
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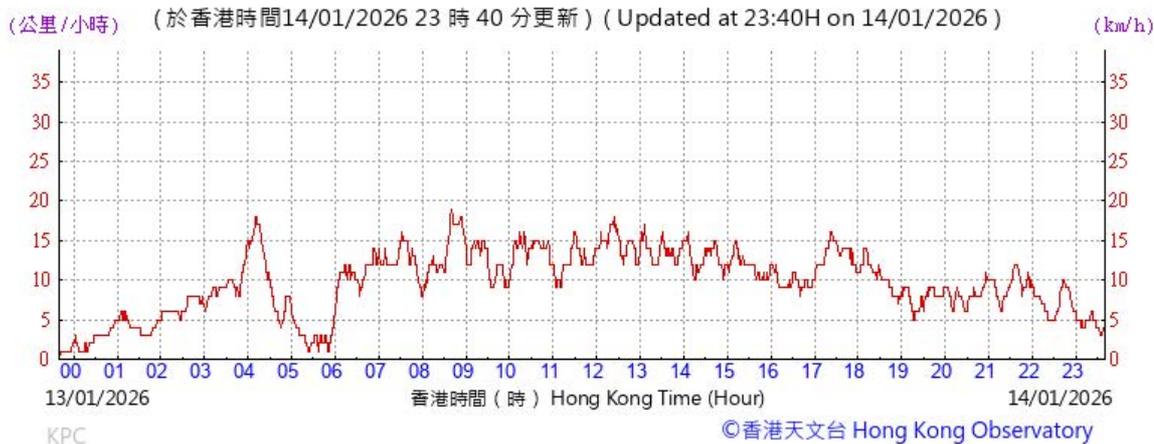
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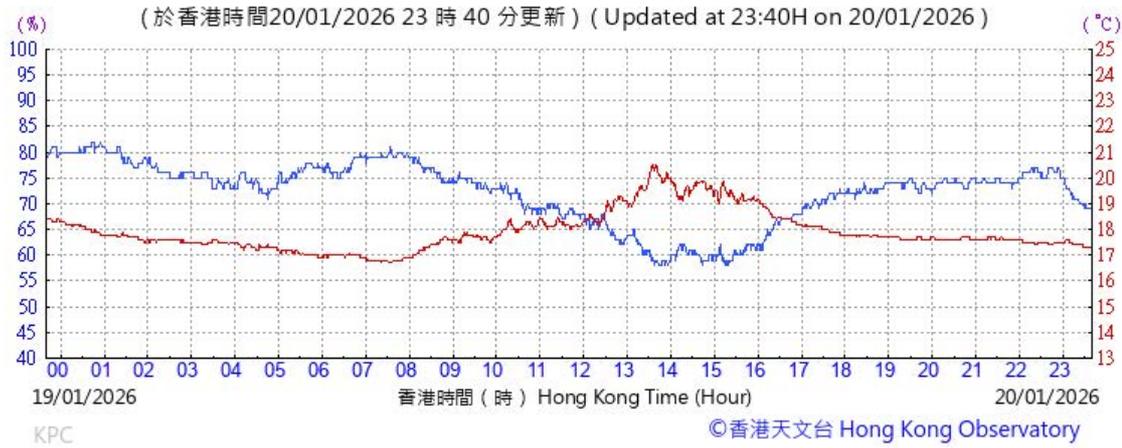
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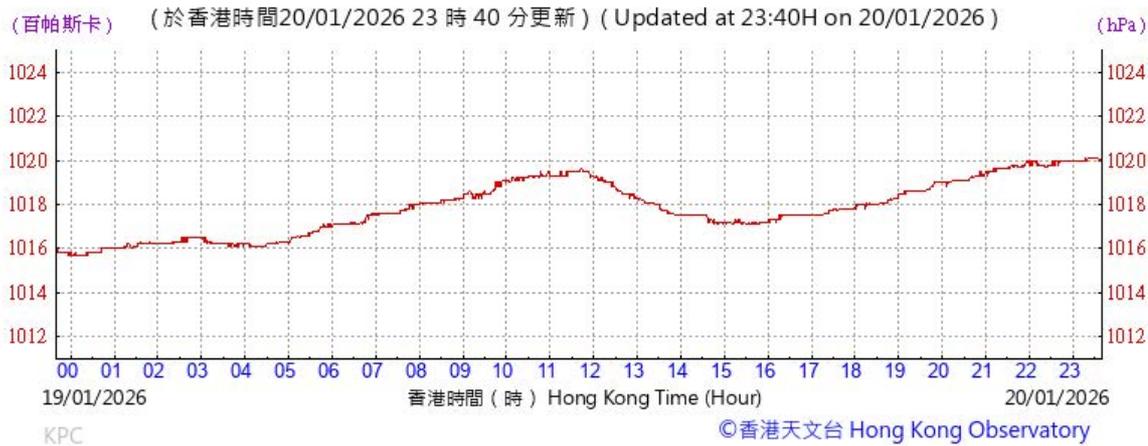
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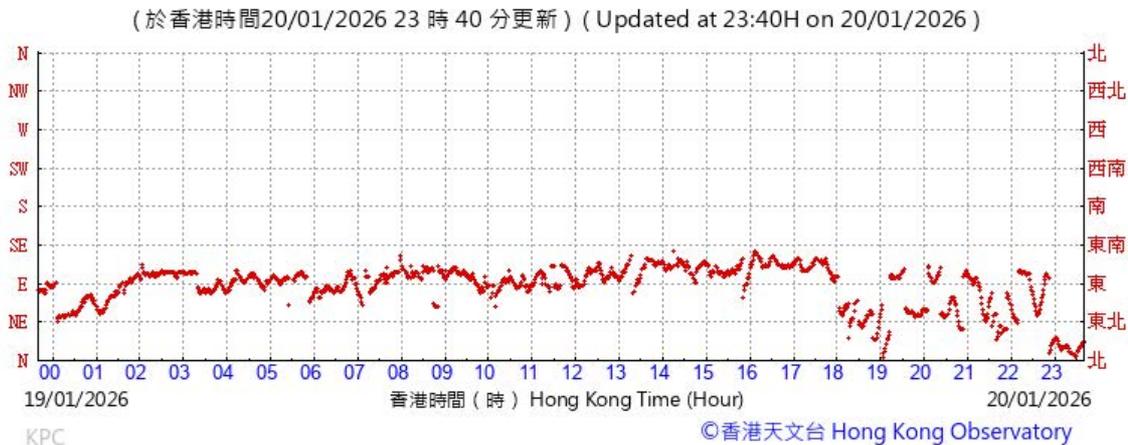
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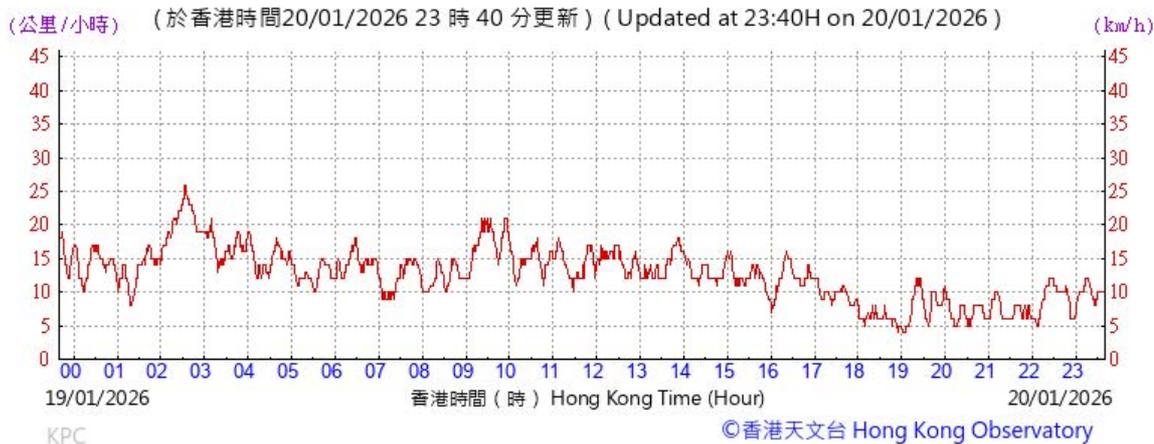
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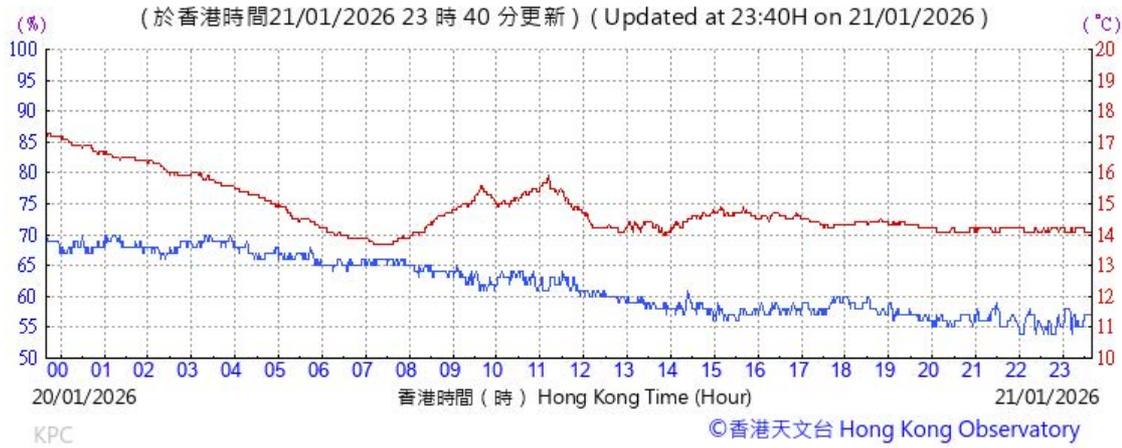
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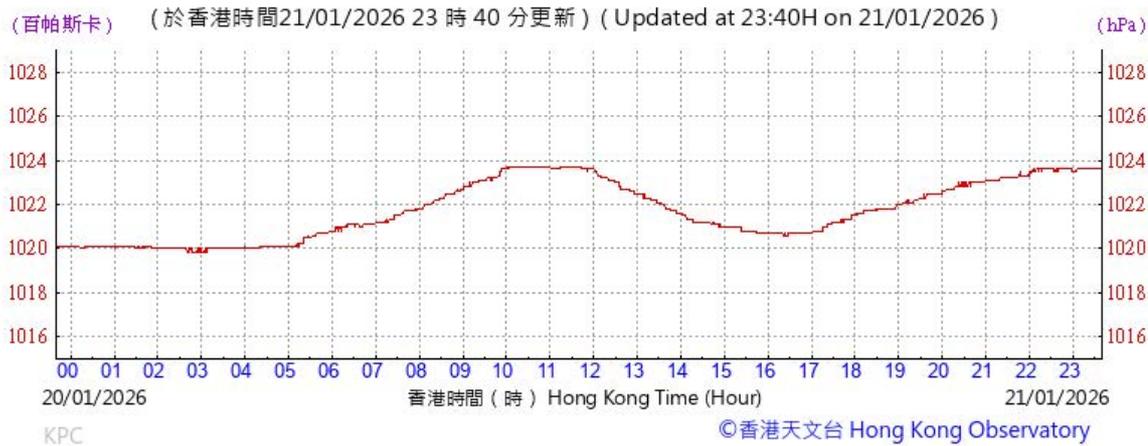
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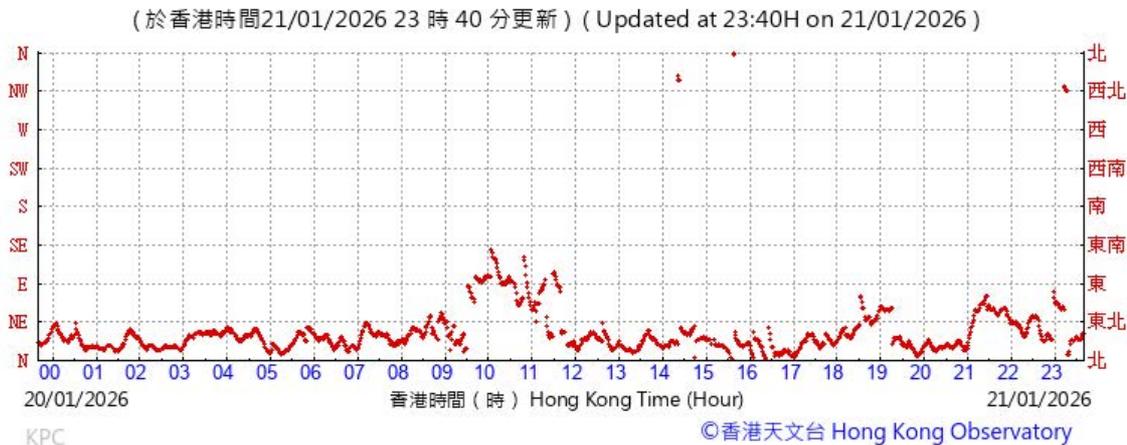
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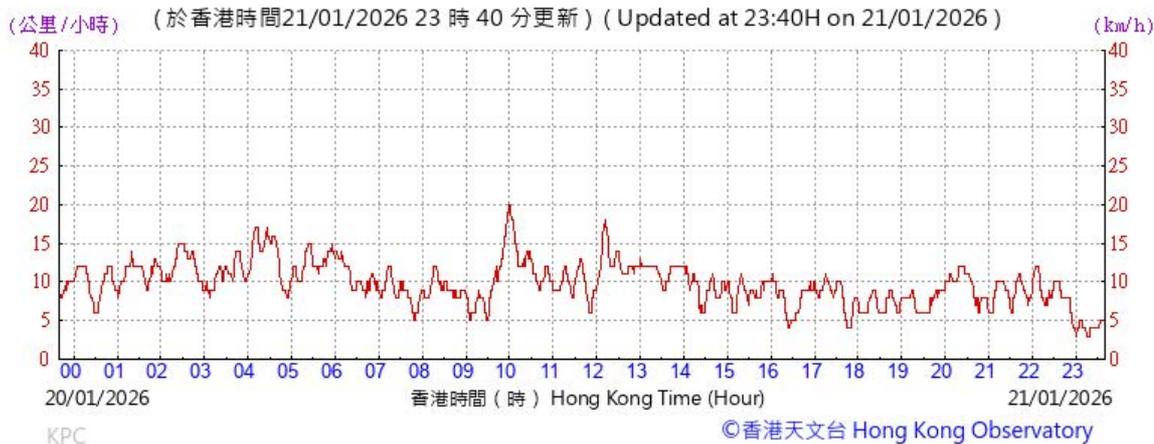
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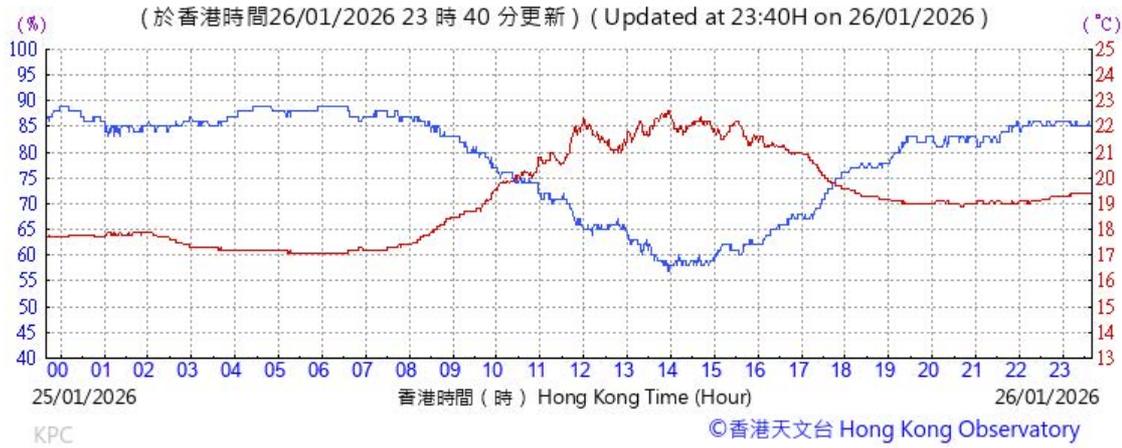
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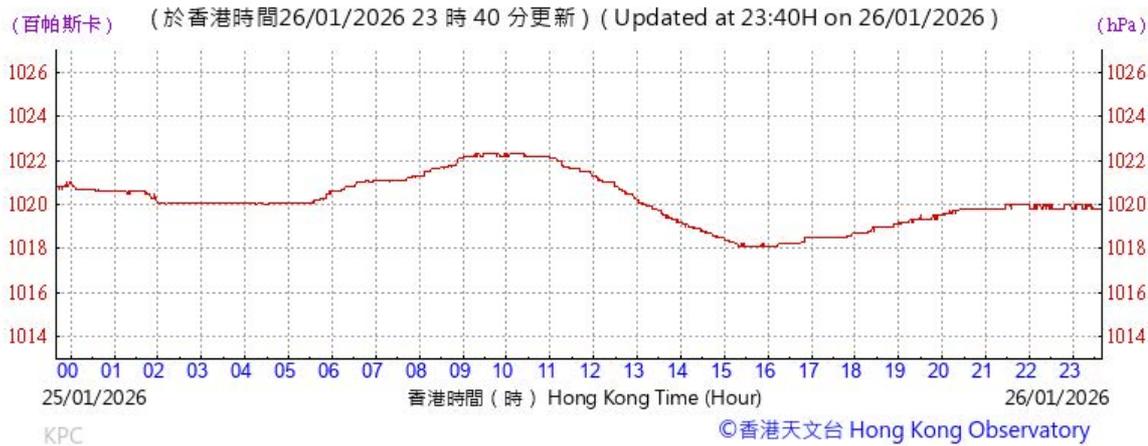
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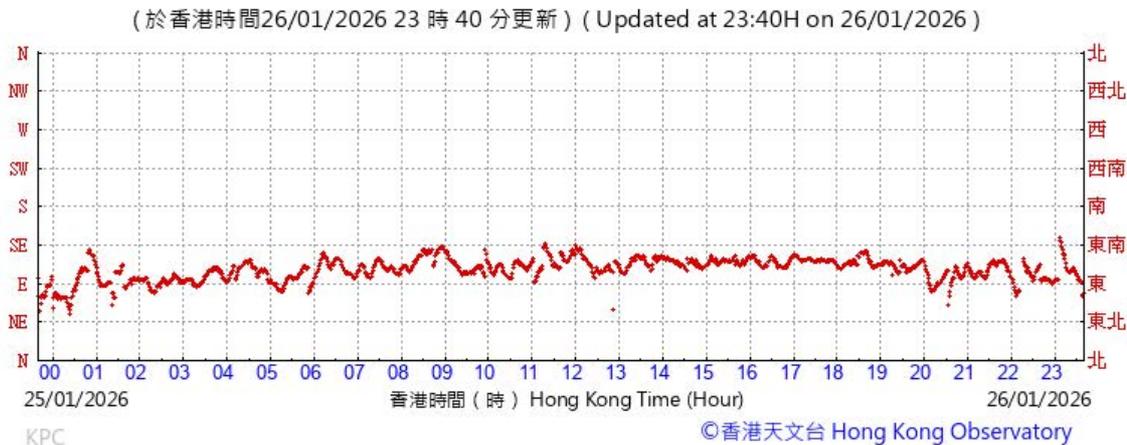
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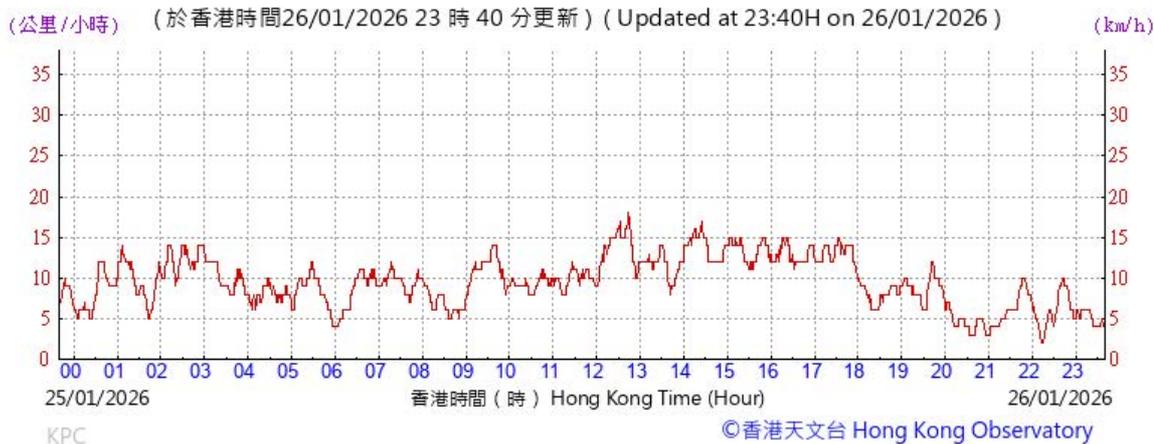
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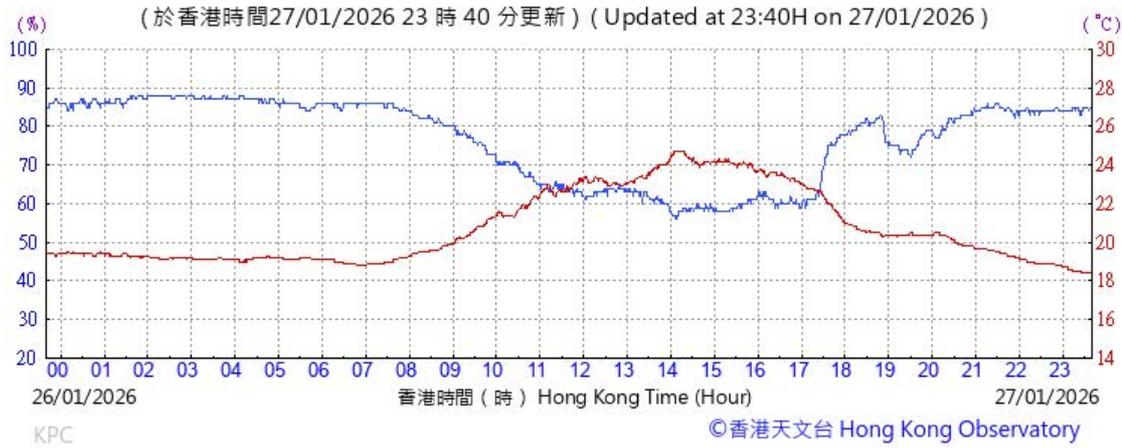
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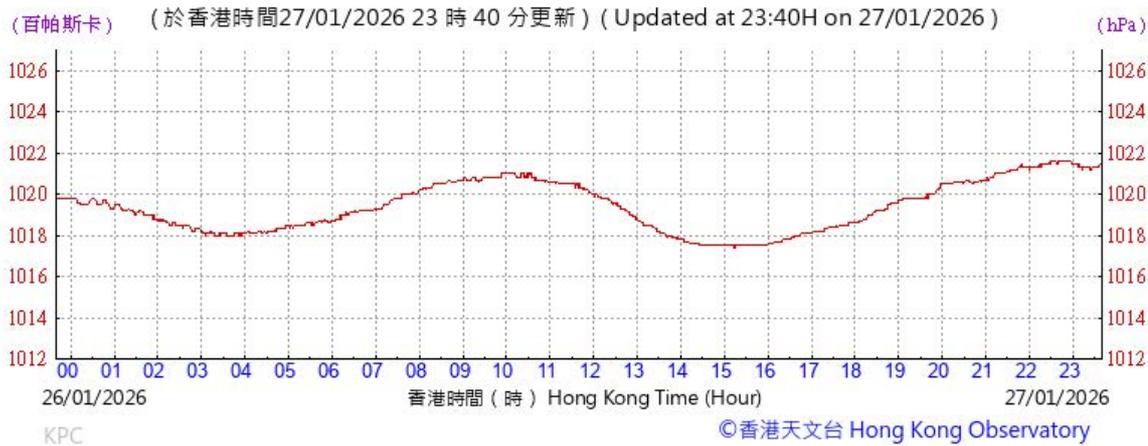
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Temperature/Humidity:



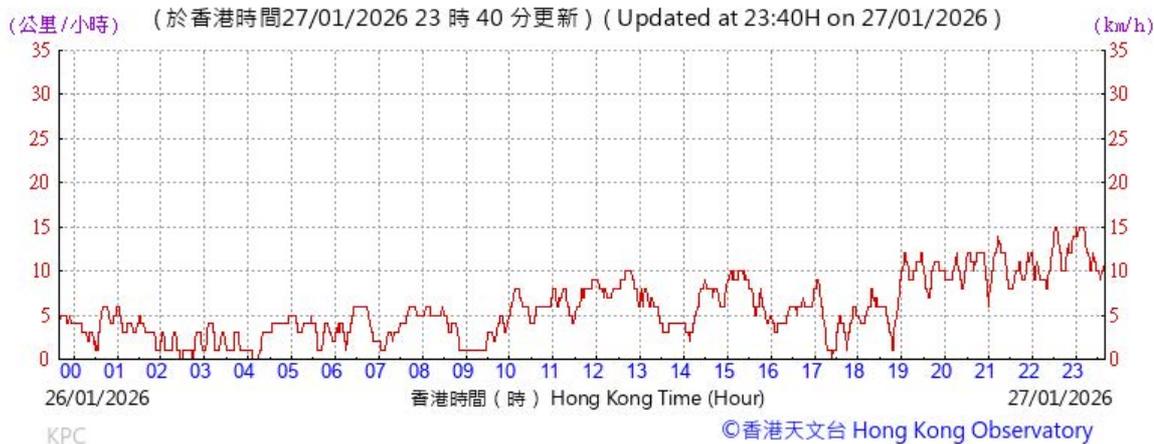
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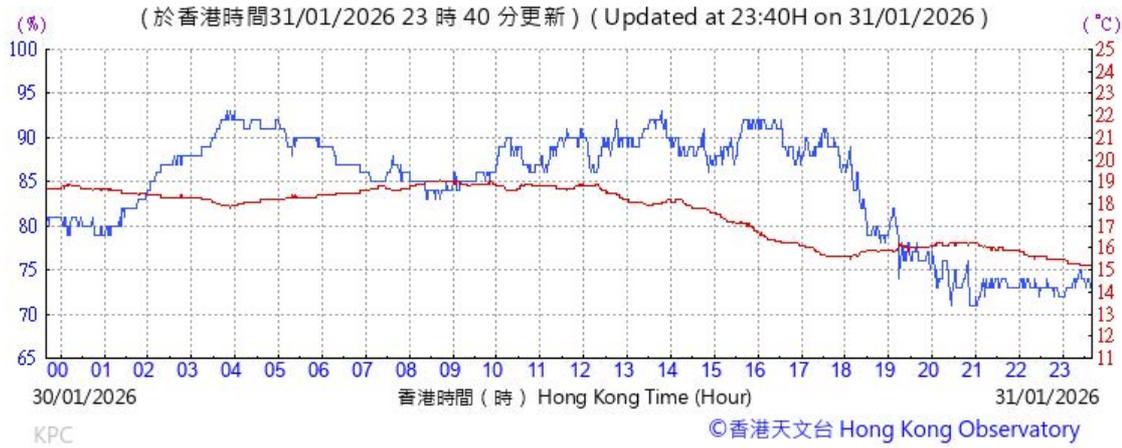
Wind Direction:



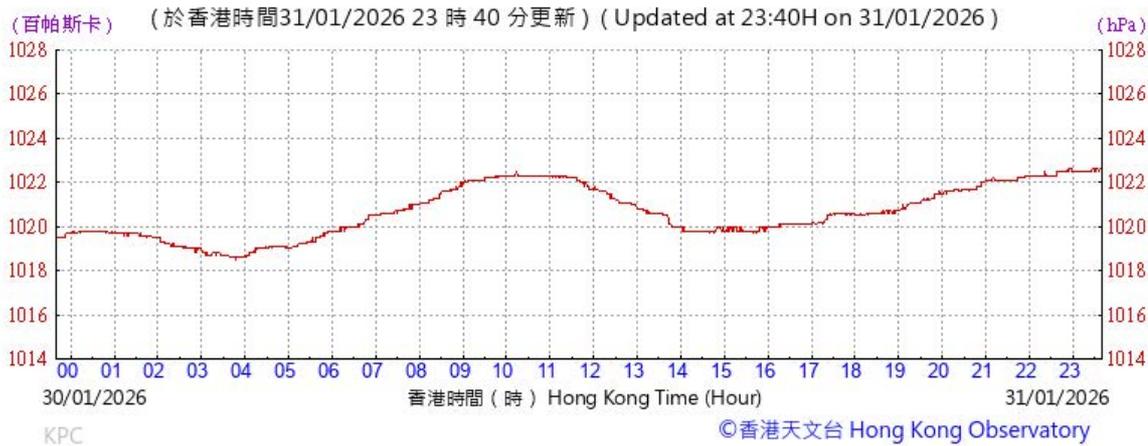
Wind Speed:



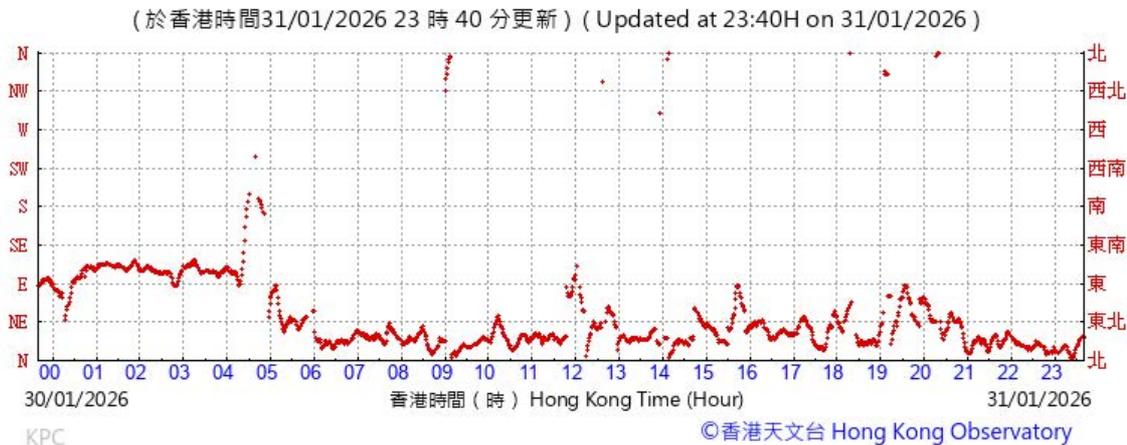
Temperature/Humidity:



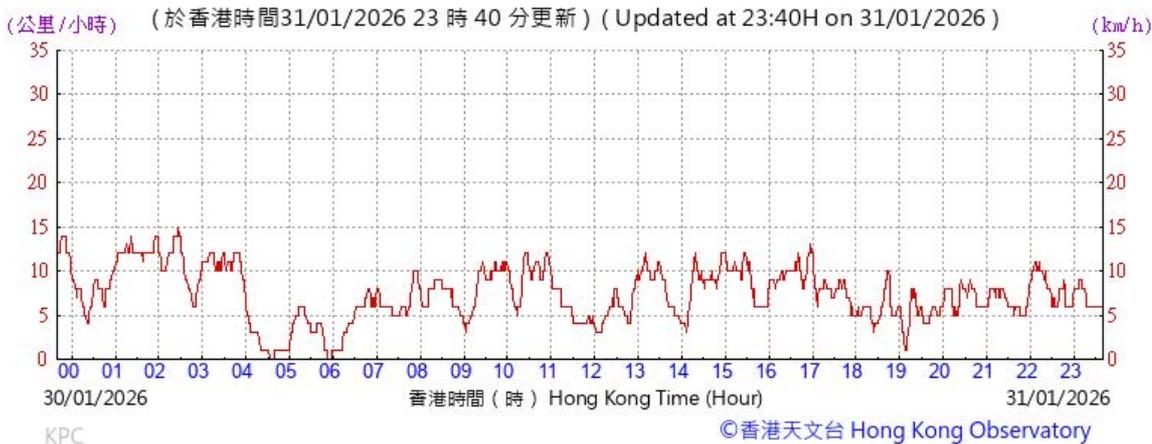
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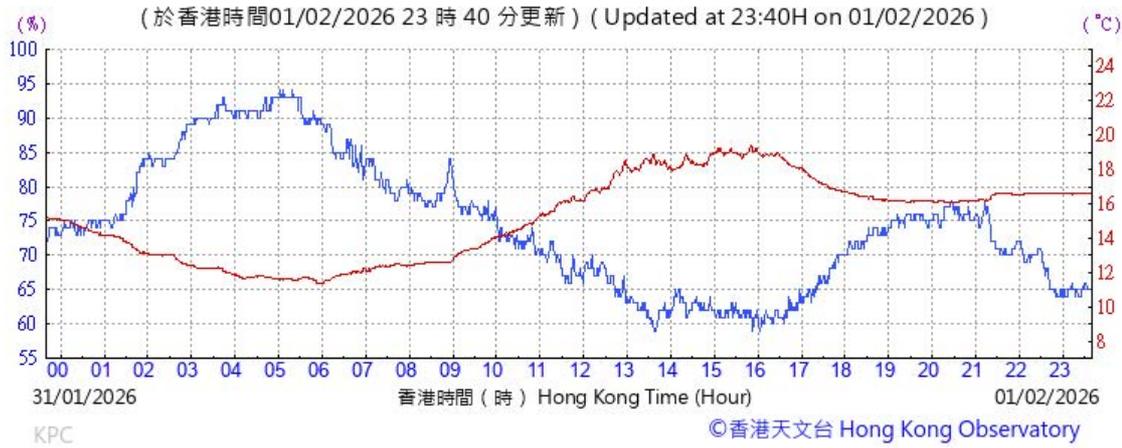
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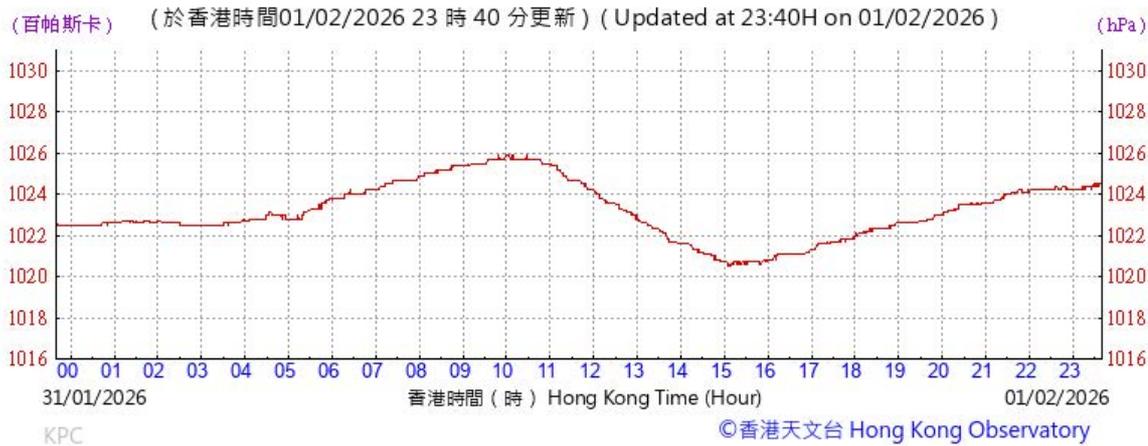
Wind Speed:



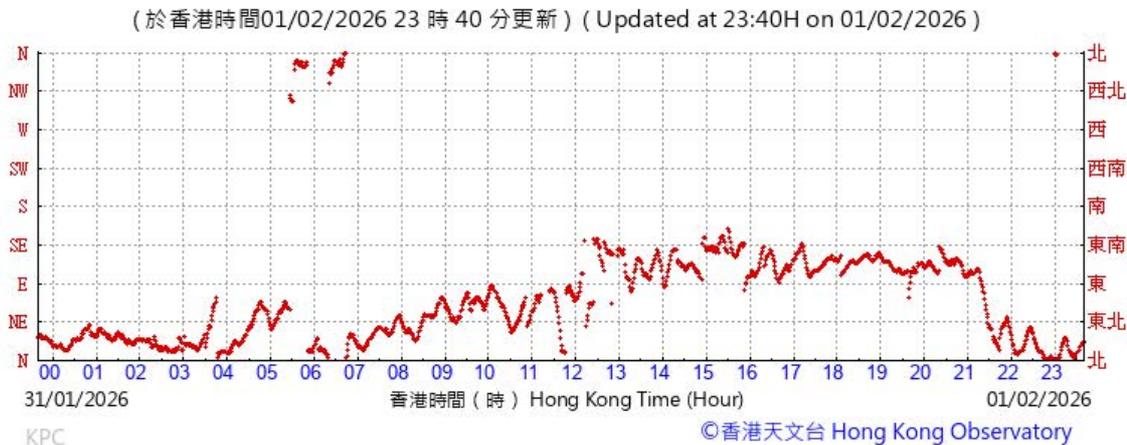
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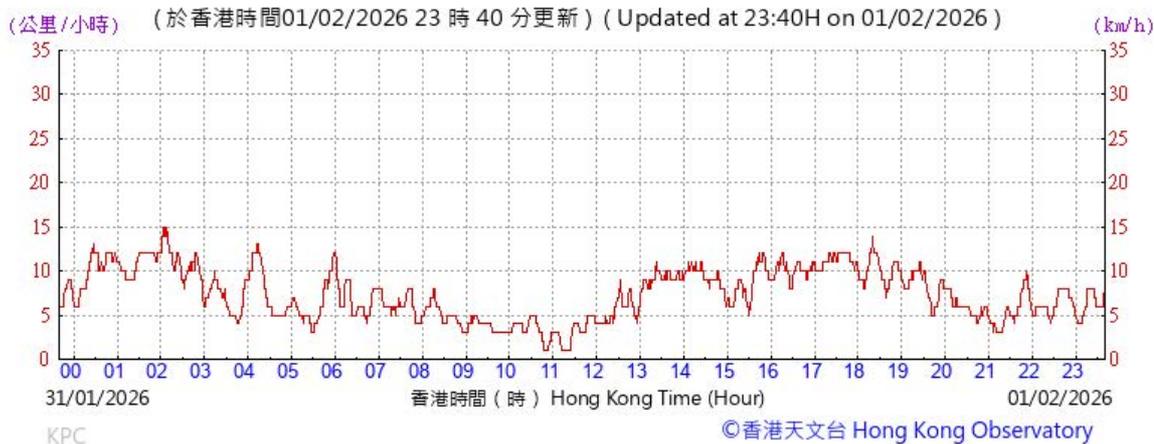
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Wind Direction:



Wind Speed:



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	42367.86	0.00	0.00	4896.01	37423.56	48.29	0.00	0.00	0.00	0.00	0.00	1.40	262.24
Feb	0.00												
Mar	0.00												
Apr	0.00												
May	0.00												
Jun	0.00												
Jul	0.00												
Aug	0.00												
Sep	0.00												
Oct	0.00												
Nov	0.00												
Dec	0.00												
Sub-total	42367.86	0.00	0.00	4896.01	37423.56	48.29	0.00	0.00	0.00	0.00	0.00	1.40	262.24
Total	169023.68	0.00	0.00	59409.55	109490.45	123.68	0.00	681.81	0.00	0.00	0.00	1.20	708.63

Note:

- 37423.56 tonnes and 0.00 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.
- Record of steel H-pile recycling between 04 Nov 25 to 05 Dec 25 is finalized and supplemented.
- Disposal Record to Public Landfill and Fill Bank between 30 Dec 25 to 31 Dec 25 would be supplemented in coming reporting period.

J. Environmental Mitigation Measures – Implementation Status

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

EM&A Ref. Recommendation Measures	Implementation Stage Zone 2A, 2B & 2C
Air Quality Impact (Construction)	
2.1 General Dust Control Measures Frequent water spraying for active construction areas (12 times a day or once every one hour), including Heavy construction activities such as construction of buildings or roads, drilling, ground excavation, cut and fill operations (i.e., earth moving)	✓
2.1 Best Practice for Dust Control The relevant best practices for dust control as stipulated in the Air Pollution Control (construction Dust) Regulation should be adopted to further reduce the construction dust impacts from the Project. These best practices include:	
<i>Good Site Management</i>	
<ul style="list-style-type: none"> • Good site management is important to help reducing potential air quality impact down to an acceptable level. As a general guide, the Contractor should maintain high standard of housekeeping to prevent emission of fugitive dust. Loading, unloading, handling and storage of raw materials, wastes or by-products should be carried out in a manner so as to minimise the release of visible dust emission. Any piles of materials accumulated on or around the work areas should be cleaned up regularly. Cleaning, repair and maintenance of all plant facilities within the work areas should be carried out in a manner minimising generation of fugitive dust emissions. The material should be handled properly to prevent fugitive dust emission before cleaning. 	✓
<i>Disturbed Parts of the Roads</i>	
<ul style="list-style-type: none"> • Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or • Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet. 	Obs
<i>Exposed Earth</i>	
<ul style="list-style-type: none"> • Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seeding with latex, vinyl, bitumen within six months after the last construction 	✓

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>	✓
<ul style="list-style-type: none"> 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>	Obs
<ul style="list-style-type: none"> 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>	✓
<ul style="list-style-type: none"> 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>	✓
<ul style="list-style-type: none"> 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>	✓
<ul style="list-style-type: none"> 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. 	
<ul style="list-style-type: none"> Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels. 	✓
<ul style="list-style-type: none"> 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>	✓
<ul style="list-style-type: none"> 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

2.1	Best Practicable Means for Cement Works (Concrete Batching Plant)	
	<p>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:</p>	
	<i>Exhaust from Dust Arrestment Plant</i>	N/A
	<ul style="list-style-type: none"> 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 	No concrete batching plant in in this project.
	<i>Emission Limits</i>	N/A
	<ul style="list-style-type: none"> All emissions to air, other than steam or water vapour, shall be colourless and free from persistent mist or smoke 	No concrete batching plant in in this project.
	<i>Engineering Design/Technical Requirements</i>	N/A
	<ul style="list-style-type: none"> 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 	No concrete batching plant in this project.
	Non-Road Mobile Machinery (NRMM):	Obs
	<p>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.</p>	

Noise Impact (Construction)

EM&A Ref. Recommendation Measures

3.1	Good Site Practice	
	<p>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:</p>	
	<ul style="list-style-type: none"> • 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. 	<p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p>
3.1	Adoption of Quieter PME	Obs
	<p>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.</p>	
3.1	Use of Movable Noise Barriers	Obs
	<p>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</p>	

EM&A Ref. Recommendation Measures

	plant and 5 dB(A) for mobile plant provided the direct line of sight between the PME and the NSRs is blocked.	
3.1	<p>Use of Noise Enclosure/ Acoustic Shed</p> <p>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.</p>	✓
3.1	<p>Use of Noise Insulating Fabric</p> <p>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.</p>	✓
3.1	<p>Scheduling of Construction Works outside School Examination Periods</p> <p>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.</p>	✓

Water Quality Impact (Construction)

4.1	<p>Construction site runoff and drainage</p> <p>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</p>	
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EM&A Ref. Recommendation Measures

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. ✓
- 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 ✓

EM&A Ref. Recommendation Measures

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.

Obs

✓

✓

N/A

No bentonite slurries are used in this project.

Implementation Stage

Zone 2A, 2B & 2C

EM&A Ref. Recommendation Measures

4.1	Barging facilities and activities	
	Recommendations for good site practices during operation of the proposed barging point include:	
	<ul style="list-style-type: none"> 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; 	<p>N/A</p> <p>No barging facilities in this project at this stage.</p>
	<ul style="list-style-type: none"> 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; 	<p>N/A</p> <p>No barging facilities in this project at this stage.</p>
	<ul style="list-style-type: none"> All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; and 	<p>N/A</p> <p>No barging facilities in this project at this stage.</p>
	<ul style="list-style-type: none"> Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site. 	<p>N/A</p> <p>No barging facilities in this project at this stage.</p>
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	
	<ul style="list-style-type: none"> 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

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

✓

✓

✓

✓

✓

6.1 Waste Reduction Measures

Recommendations to achieve waste reduction include:

EM&A Ref. Recommendation Measures	Implementation Stage Zone 2A, 2B & 2C
<ul style="list-style-type: none"> Sort inert C&D material to recover any recyclable portions such as metals 	✓
<ul style="list-style-type: none"> Segregation and storage of different types of waste in different containers or skips to enhance reuse or recycling of materials and their proper disposal 	✓
<ul style="list-style-type: none"> 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 	✓
<ul style="list-style-type: none"> Proper site practices to minimise the potential for damage or contamination of inert C&D materials 	✓
<ul style="list-style-type: none"> 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	
<p>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.</p>	
<ul style="list-style-type: none"> The surplus inert C&D material will be disposed of at the Government's PFRFs for beneficial use by other projects in Hong Kong. 	✓
<ul style="list-style-type: none"> 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. 	✓
<ul style="list-style-type: none"> 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

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.

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;
- The use of contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out;
- Vehicles containing any contaminated excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater;
- Truck bodies and tailgates should be sealed to stop any discharge;
- 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;
- Speed control for trucks carrying contaminated materials should be exercised;
- 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
- 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.

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.

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.

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.

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 (January 2026)	1	0	0
From 05 July 2024 to end of the reporting month	5	0	0