Development at West Kowloon Cultural District

Quarterly Environmental Monitoring and Audit (EM&A) Report (May-July 2021)

August 2021

This Quarterly EM&A Report has been reviewed and certified by the Environmental Team Leader (ETL) and verified by the Independent Environmental Checker (IEC).

Certified by:

m

CK Wu Environmental Team Leader (ETL) West Kowloon Cultural District Authority

Date

10 September 2021

Verified by:

ne-

14 September 2021

Claudine Lee Independent Environmental Checker (IEC) Meinhardt Infrastructure & Environment Ltd

Date

This Report Consists of :

Part-1: EM&A at Lyric Theatre Complex

and

Part-2: EM&A for Foundation, Excavation and Lateral Works for Integrated Basement and Underground Road in Zone 2A

Part-1: EM&A at Lyric Theatre Complex



Lyric Theatre Complex

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Executive summary

This Quarterly EM&A Report presents the monitoring works at Lyric Theatre Complex conducted from 1 May 2021 to 31 July 2021. 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.

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The impact stage EM&A programme for the Project includes air quality, noise, water quality, waste, landscape and visual monitoring. The recommended environmental mitigation measures were implemented on site and regular inspections were carried out to ensure that the environmental conditions are acceptable.

The EM&A programme was carried out by the ET in accordance with the EM&A Manual requirements. It is concluded from the environmental monitoring and audit works that adequate environmental mitigation measures have been implemented by the contractors where appropriate in the reporting quarter.

Exceedance of Action and Limit Levels

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

Implementation of Mitigation Measures

Construction phase weekly site inspections were carried out to confirm the implementation measures undertaken by the Contractors in the reporting quarter. The status of implementation of mitigation measures during the reporting quarter is shown in **Appendix C**.

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

Record of Complaints

Five complaints were received during the reporting quarter.

Record of Notifications of Summons and Successful Prosecutions

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

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) 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. 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, semitransparent 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 backof-house functions.

The 1,200-seat Lyric Theatre Complex will be Hong Kong's first world-class facility for dance performances, including ballet, contemporary and Chinese dance forms. In the run up to the opening of further major performing arts venues in the WKCD, it will also be used for a wide variety of performing arts events including drama, opera and musical performances. The Lyric Theatre Complex will act as a platform for Hong Kong's leading arts organisations and be a new major venue to show programmes from Asia and worldwide.

The Quarterly EM&A Report is prepared in accordance with the Clause 3.4 of the Environmental Permit No. EP-453/2013/B. This Quarterly EM&A Report presents the monitoring works conducted from 1 May 2021 to 31 July 2021. 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 L1 undertaken include:

- Slab construction
- Box culvert construction
- AET protection Construction of at-grade Slab
- Construction of dog house
- Column installation
- Austin Road West lay-by (PIW Works)

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

LTC construction

Structure (Slab, wall, columns and beam)

- Falsework and formwork erection
- Reinforcement work
- Concrete work

ABWF & MEP work

- ASDA and Lyric Theatre Promenade
 - Structure and BS works
- DSC cofferdam (Cofferdam A)
 - Install DCS pipes/ valve/ fittings (DN500/ DN1400) outside chamber Construction of Valve Chamber
 - Install new connection puddle flange
 - Pipe leakage tests (pre-test)
 - Construction of valve chamber (middle portion)
- Modification to existing pump cell
 - ABWF works
- Extended basement
 - ABWF & MEP work
 - RC Duct work
- Underpass and Associated Area
 - RC Structure (Waffle Ceiling)
- M+ Day 2 Works
 - Hoarding Work
 - Modification Works at M+Day 2 PN2

The Construction Works Programme of the Project is provided in **Appendix B**. A layout plan of the Project is provided in **Figure 1**.

2 Summary of EM&A Requirements and Mitigation Measures

2.1 Monitoring Requirements

In accordance with the EM&A Manual, environmental parameters including air quality, noise, landscape and visual have been monitored. The specific parameters, monitoring frequency and the respective Action and Limit levels are given in **Table 2.1**. Locations of the monitoring stations are provided in **Figure 1**.

| Parameters | Descriptions | Locations | Frequencies | Action level | Limit level |
|-----------------------|--|--|----------------------------------|---|--------------------------|
| Air Quality | 24-Hour TSP | AM1 - International Commerce Centre | At least once every 6 days | 143.6 µg/m ³ | 260 µg/m ³ |
| | 1-Hour TSP | AM1 - International Commerce Centre | At least 3 times every 6 days | 273.7 μg/m ³ | 500 µg/m³ |
| | 24-Hour TSP | AM2 - The Harbourside Tower 1 | At least once every 6 days | 151.1 μg/m³ | 260 µg/m³ |
| | 1-Hour TSP | AM2 - The Harbourside Tower 1 | At least 3 times every 6 days | 274.2 µg/m³ | 500 μg/m³ |
| Noise | Leq, 30 minutes | NM1- The Harbourside Tower 1 | Weekly | When one documented complaint is received from any one of the sensitive receivers | 75 dB(A) |
| 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 | N/A | N/A |

Table 2.1: Summary of Impact EM&A Requirements

In the context of 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. Other monitoring locations 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.

2.2 Environmental Mitigation Measures

Environmental mitigation measures have been recommended in the EM&A Manual. Summary of implementation status of the environmental mitigation measures is provided in **Appendix C**.

3 Summary of EM&A Results

3.1 Monitoring Data

In accordance with the EM&A Manual, impact monitoring has been conducted in the reporting quarter. Meteorological data for the reporting quarter have been extracted from Hong Kong Observatory and presented in **Appendix D**. Monitoring data with graphical presentation for the reporting quarter are shown in **Appendix E**. A summary on the monitoring results is presented in **Table 3.1**.

| Parameter | Monitoring Location | Minimum | Maximum | Average |
|--------------------|---------------------|---------|---------|---------|
| Air Quality | | | | |
| 1 hour TSP | AM1 | 17 | 70 | 37 |
| | AM2B / AM2* | 21 | 82 | 50 |
| 24 hour TSP | AM1 | 5 | 46 | 19 |
| | AM2B / AM2* | 8 | 120 | 44 |
| Construction Noise | | | | |
| Leq(30min) | NM1A | 67 | 72 | 68 |

Table 3.1: Summary of Monitoring Data

* The air monitoring station AM2B has been relocated to the alternative monitoring station AM2 on 1 June 2021, and portable direct reading dust meter was being used at AM2 for 24 hour TSP monitoring.

3.2 Monitoring Exceedances

Summary of the exceedances in the reporting quarter is tabulated in Table 3.2.

Table 3.2: Summary of Exceedances

| Monitoring | Parameter | No. of Exc | ceedance | Action Taken |
|-----------------------|-------------|--------------|-------------|--------------|
| Station | | Action Level | Limit Level | - |
| Air Quality | | | | |
| AM1 | 1 hour TSP | 0 | 0 | N/A |
| | 24 hour TSP | 0 | 0 | N/A |
| am2b / am2* | 1 hour TSP | 0 | 0 | N/A |
| | 24 hour TSP | 0 | 0 | N/A |
| Construction Noise | | | | |
| NM1A | Leq(30min) | 0 | 0 | N/A |

* The air monitoring station AM2B has been relocated to the alternative monitoring station AM2 on 1 June 2021, and portable direct reading dust meter was being used at AM2 for 24 hour TSP monitoring.

3.2.1 1-hour TSP Monitoring

All 1-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/ Limit Level exceedance was recorded.

3.2.2 24-hour TSP Monitoring

All 24-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/ Limit Level exceedance was recorded.

3.2.3 Construction Noise Monitoring

All construction noise monitoring was conducted as scheduled in the reporting quarter. No Action/ Limit Level exceedance was recorded.

3.2.4 Landscape and Visual Monitoring

All landscape and visual impact inspections were conducted as scheduled in the reporting quarter. No adverse comment on landscape and visual aspects were recorded.

4 Waste Management

4.1 Lyric Theatre Complex

As advised by the Contractor (L1 and L2 Contract), 1448.86 tonnes, 554.26 tonnes and 0.00 tonne of inert C&D material were disposed of as public fill to Tseung Kwan O Area 137, Tuen Mun Area 38, and Chai Wan Public Fill Barging Point respectively in the reporting quarter, while 1062.6 tonnes of general refuse were disposed of at SENT and WENT landfill. 471.5 tonnes of metals, 0.4 tonnes of paper/cardboard packaging, 0.1 tonnes of plastic and 0.0 tonne of timber were collected by recycling contractors in the reporting quarter. 0.0 tonne of inert C&D materials was reused on site. 0.0 tonne of fill materials was imported for use at site and 0.0 tonne of inert C&D materials were disposed to sorting facility and 0.4 tonnes of chemical waste were collected by licensed contractors in the reporting quarter.

The actual amount of different types of waste generated by the activities of construction works at Lyric Theatre Complex in the reporting quarter are shown in **Appendix F**.

5 Environmental Non-conformance

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

Five complaints were received in the reporting quarter: 3 complaints in May, 1 complaint in June and 1 complaint in July. No notifications of summons and successful prosecutions were received in the reporting quarter.

On 11 May 2021, West Kowloon Cultural District Authority (WKCDA) has received a complaint from the office of Mr. Derek Hung (YTMDC member). The resident of Harbourside found that noise was generated from nearby construction site on Sunday 9 May 2021. Based on the investigation, no noisy works were undertaken on 9 May 2021 (Sunday) on Lyric Theatre Complex (L1 & L2 Contracts) construction sites. Therefore, the complaint could not be attributable to the Lyric Theatre Complex. The probable noise source might be the road works conducted by other adjacent project. Hence, it was concluded that the complaint was not related to Lyric Theatre Complex. However, noise mitigation measures will continue to be strictly implemented on site to reduce impacts to nearby residents.

On the same day (i.e. 11 May 2021), WKCDA has received another complaint from Environmental Protection Department (EPD). Referring to the pictures provided by the complainant, pollutant was spotted at the waterbody of Victoria Harbour near WKCD construction site between 7 May 2021 and 9 May 2021. Based on the site investigation, no large excavation work and earthwork were conducted on 7 and 8 May 2021. No construction works were undertaken on 9 May 2021. The daily self-checking on effluent quality showed that the wastewater treatment plants were well operated and the effluent was well treated. Also, from the complaint photo, the mud/ dirt was out of Lyric Theatre Complex site boundary. Thereby, the complaint could not be attributable to Lyric Theatre Complex (L1 & L2 Contracts). However, the contractors are reminded to strictly maintain good site practices to avoid muddy water flowing into the waterbody of Victoria Harbour.

On 12 May 2021, WKCDA has received a complaint from EPD. Referring to the picture provided by the complainant, pollutant was spotted at the waterbody of Victoria Harbour near WKCD construction site on 9 May 2021. Based on the site investigation, no muddy construction works were carried out on 9 May 2021 by the contractors. The daily self-checking on effluent quality showed that the wastewater treatment plants were well operated and the effluent was well treated. Also, from the complaint photo, the yellowish plume was observed out of Lyric Theatre Complex site. Thereby, the contractors are reminded to strictly maintain good site practices to avoid muddy water flowing into the waterbody of Victoria Harbour.

On 7 June 2021, WKCDA has received a complaint from EPD. Referring to the picture provided by the nearby complainant, pollutant was spotted at the waterbody of Victoria Harbour near WKCD construction site on 5 June 2021. After the investigation, no muddy construction works were carried out on 5 June 2021 by the contractors, and no muddy water was discharged into the sea. The daily self-checking of the effluent quality showed that the wastewater treatment plants were well operated and the effluent was well treated. From the site observation, the M+ Museum cooling water main outfall adjacent to the Lyric Theatre Complex site boundary creates sometimes a white splash which might have certainly drawn the attention and observation of the complainant. In other words, the observed white plume in the water body of the Victoria Harbour on 5 June 2021 was the white splash created by the main outfall of the M+ Museum cooling water. Thereby

the complaint could not be attributable to Lyric Theatre Complex (L1 & L2 Contracts). However, the contractors are reminded to strictly maintain good site practices to avoid water pollution to the water body of Victoria Harbour.

On 7 July 2021, EPD has received a complaint from a staff of Standard Chartered Elements Priority Banking Centre regarding construction noise from WKCD construction site (Artist Square Bridge (ASB) construction site). On 5 July 2021, WKCD staff has informed the complainant that the construction works of ASB project were scheduled to be carried out until noon every day. However, noise nuisance caused by ASB works usually lasts till 14:00 to 15:00 for consecutive 3 days. As the work place of the complainant is in close proximity of ASB project, daily noise exposure has become excessive, affecting daily duty performance and well-being of the complainant. After the investigation, as the complainant specified that the noise was generated from the ASB which is not within the Lyric Theatre Complex site boundary. Besides, both L1 and L2 Contracts did not involve the bridge works. Noise measurement and monitoring were also carried out with no exceedance; hence the complaint could not be attributable to Lyric Theatre Complex. As a conclusion, the complaint was not related to Lyric Theatre Complex. However, noise mitigation measures will continue to be strictly implemented on site to reduce impacts to nearby residents.

The cumulative statistics on complaints, notifications of summons and successful prosecutions were provided in **Appendix G**.

6 Comments, Recommendations and Conclusion

6.1 Comments

Based on the observations made during site audits, landscape inspections, and construction dust and noise monitoring results, no non-compliances and exceedances of air quality and noise were recorded in the reporting quarter.

6.2 Recommendations

Reviewing the implementation of the recommended mitigation measures in the EM&A Manual, it was observed that they were effective and efficient in controlling the potential impacts due to construction of the project during the reporting period. Review of the effectiveness and efficiency of the EM&A programme will continue, and recommendations will be provided to remediate any potential impacts due to the project and to improve the EM&A programme if deficiencies of the existing EM&A programme are identified.

6.3 Conclusion

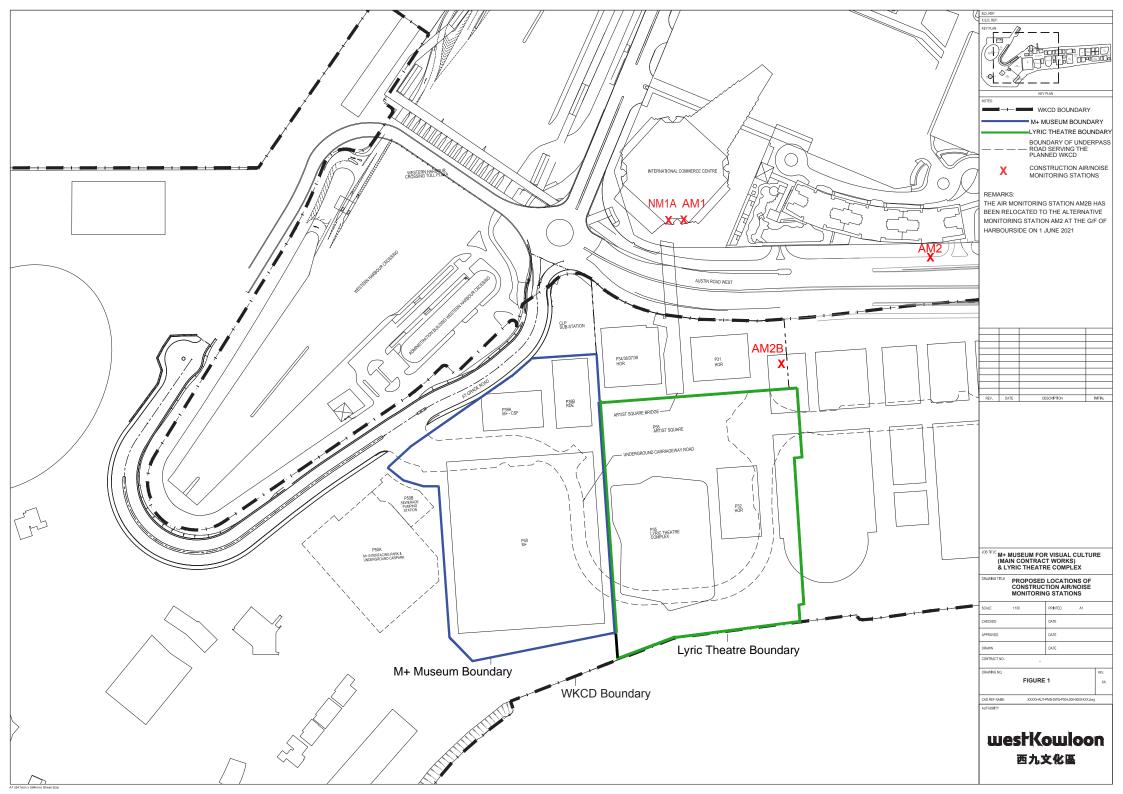
The EM&A programme as recommended in the EM&A Manual has been undertaken. The construction works and EM&A programme for M+ Museum was commenced on 31 October 2015 and completed on 28 February 2021; while the construction works and EM&A programme for Lyric Theatre Complex (L1 and L2 Contracts) was commenced 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 and noise level (as Leq, 30 minutes) under monitoring have been checked against established Action and Limit levels. There was no breach of Action and Limit levels for Air Quality (1-hour TSP and 24-hour TSP) and Noise in this reporting quarter.

Five complaints were received in the reporting quarter. No notifications of summons and successful prosecutions were received during the reporting quarter.

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

Figure 1 Site Layout Plan and Monitoring Stations



Appendices

- A. Project Organisation
- B. Construction Programme
- C. Environmental Mitigation Measures Implementation Status
- D. Meteorological Data Extracted from Hong Kong Observatory
- E. Graphical Plots of the Monitoring Results
- F. Waste Flow table
- G. Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

A. Project Organisation

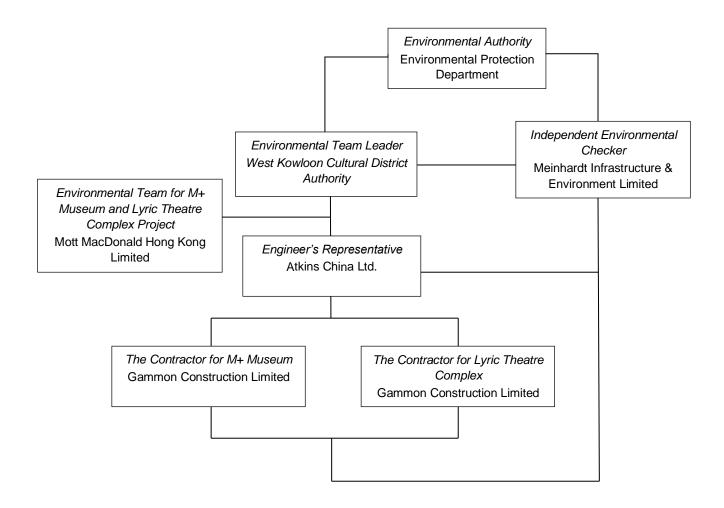


Table A-1: Contact information

| Company Name | Role | Name | Telephone | Email |
|--|--|---------------------|-----------|------------------------------------|
| Atkins China Ltd. | Resident Engineer | Ms. Gloria Lui | 5506 6361 | gloria.lui@atkinsglobal.com |
| Meinhardt Infrastructure & Environment Limited | Independent Environmental Checker | Ms. Claudine Lee | 2859 5409 | claudinelee@meinhardt.com.hk |
| Gammon Construction Limited (M+ Museum) | Environmental Manager | Mr. Andy Leung | 9489 0035 | andy.leung@gammonconstruction.com |
| Gammon Construction Limited (L1) | Environmental Manager | Ms. Sammie Chan | 9864 4296 | sammie.chan@gammonconstruction.com |
| Gammon Construction Limited (L2) | Environmental Manager | Mr. Ivan Chiu | 9416 1664 | ivan.chiu@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 | Senior Project Manager (Safety, Health and Environment) | Mr. C.K. Wu | 5506 9178 | ck.wu@wkcda.hk |

B. Construction Programme

| Activity ID | Activity Name | Start Date | Finish Date | | 2 | 2021 | |
|-------------|---|--------------------------|--------------|-----|-----|---------|-------------------|
| - | | | | May | Jun | Jul | Aug |
| | | | | 41 | 42 | 43 | 44 |
| L1 Contra | ct for Lyric Theatre Complex (3MRP) | | | | | | 1 1 1 1 1 1 |
| Cost Cent | re C - Basement | | | | | - 1 | |
| Cost Centr | e C1 - Essential Basement Structure (Excl. AE | TProtection & | Box Culvert) | | | | |
| | South Basement - East Area | 27-Feb-20 A | | | | | |
| SU12300 | South Basement - Handover to L2 | 04-Feb-20 A | 30-Jun-21 | | | 3 | |
| SU14300 | North Basement - Handover to L2 | 04-Feb-20 A | 30-Jun-21 | | |] | |
| Cost Cent | e C4 - Box Culvert | | | | | | |
| | South Section | 30-Dec-20 A | 16-Jun-21 | | | | |
| SU31000 | North Section | 22-Jun-20 A | 23-Apr-21 A | | | | |
| SU32000 | Austin Road | 29-Jun-20 A | 31-Aug-21 | | | | |
| Cost Cent | re D - Public Infrastructure Works (PIW) | | | | | | |
| SU40000 | Utilities & Drainage Works | 20-Mar-18 A | 30-Jun-21 | | | 3 | |
| SU41000 | Road Works | 04-Oct-18 A | 31-Aug-21 | | | | |
| SU42000 | Box Culvert Outfall | 24-Nov-20 A | 08-Sep-21 | | | | |
| | | | | | | ; -+ | , , , |
| Cost Cent | re E - Miscellaneous Works | | | | | | |
| SU50000 | External Works - Drainage & Sewerage Works | 19-Nov-19A | 30-Jul-21 | | | | |
| SU51000 | External Works - Watermain Works | 02-Jul-21* | 31-Aug-21 | | | | |
| SU52000 | DCS Outfall | 24-Nov-20 A | 08-Sep-21 | | | | |
| | 1 | 1 | 1 | L | 1 | | |
| | | | | | | | |

Remaining Work

Actual Work

Milestone

Critical Remaining Work

Project ID: L13MRP-20210531-ENV Layout: L1-3MRP (Env) Page: 1 of 1

West Kowloon Cultural District Authority L1 Contract for Lyric Theatre Complex & Extended Basement Three Month Rolling Programme (3MRP) - Status as of 31 May 2021



| Activity ID | Activity Name | Start Date | Finish Date | | 20 | 21 | |
|-------------|--|--------------|--------------|-----|-----|-----|-----|
| | | | | Jun | Jul | Aug | Sep |
| | | | | 42 | 43 | 44 | 45 |
| L1 Contra | ct for Lyric Theatre Complex (3MRP) | | | | | | |
| Cost Cent | tre C - Basement | | | | | | |
| Cost Cent | re C1 - Essential Basement Structure (Excl. AE | Protection & | Box Culvert) | | | | |
| SU12000 | South Basement - East Area | 27-Feb-20 A | 07-Jul-21 | | | | |
| SU12300 | South Basement - Handover to L2 | 04-Feb-20 A | 30-Jul-21 | | | | |
| SU14300 | North Basement - Handover to L2 | 04-Feb-20 A | 30-Jul-21 | | | | |
| Cost Cent | re C4 - Box Culvert | 1 | | | | | 1 |
| | South Section | 30-Dec-20 A | 16-Jun-21 A | | | | |
| SU31000 | North Section | 22-Jun-20 A | 23-Apr-21 A | | | | |
| SU32000 | Austin Road | 29-Jun-20 A | 31-Aug-21 | | | | 3 |
| Cost Cent | tre D - Public Infrastructure Works (PIW) | | | | | | |
| SU40000 | Utilities & Drainage Works | 20-Mar-18 A | 30-Jul-21 | | | | |
| SU41000 | Road Works | 04-Oct-18 A | 31-Aug-21 | | | | 3 |
| SU42000 | Box Culvert Outfall | 24-Nov-20 A | 08-Sep-21 | | | | |
| Cost Cent | tre E - Miscellaneous Works | | | | | | |
| SU50000 | External Works - Drainage & Sewerage Works | 19-Nov-19A | 30-Jul-21 | | | | |
| SU51000 | External Works - Watermain Works | 02-Jul-21* | 31-Aug-21 | | | | 1 |
| SU52000 | DCS Outfall | 24-Nov-20 A | 08-Sep-21 | | | | |
| | i | | | | | | |

Remaining Work

Critical Remaining Work

Actual Work

Milestone

Project ID: L13MRP-20210630-ENV Layout: L1-3MRP (Env) Page: 1 of 1

West Kowloon Cultural District Authority L1 Contract for Lyric Theatre Complex & Extended Basement Three Month Rolling Programme (3MRP) - Status as of 30 Jun 2021



| L2-CMWP-R_01_0 L2 CMWP_R01_0 Update DD=30Apr | 8 Approved 29Sep20 - 8th | SK fi | lter: L | 2 UPD |): L(| eve | 11 | Sur | mn | nar | y . | | | | | | | | | | | | | Page | e 1 / 1 | |
|--|---|------------|------------------------|--------------------------|--------------|------------|--------------|------|----------|-------------|------------|----------|------------------------|------------------|--|-------------------|--------------------|--------------|-------------|---|----------------|---------------------|------------------|------------|-----------|---|
|) | Activity | RD | Start | Finish | BL | LM | TF | 2020 | | | | |)21 | | | | 022 | | | | 2023 | | | 202 | | - |
| | | | | | VAR | VAR | | | | | | | | | LQtr1 DJFN | | | | | | | | | | | |
| L2 CMWP R0 | 1 08 Approved 29Sep20 - 8th Update DD=30Apr21 | | | | | | | | 1110 | | | | 101/1 | | | 1.1.1 | | | | | | 1991 | | 1.1.1. | 1.101 | - |
| | & PRELIMINARIES | | | | | | | | | *** | | | 1 | | 111 | **** | -+ | -+++ | | | | | 111 | **** | 1 | |
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| | ignificant Dates | | | | | | | | | | | | ļ. ļ. ļ. | | | 1.1.1 | 4.4.4 | | | | | | | <u></u> | | |
| | ent & Completion Dates | | | | | | | | | ÷ | | | | | | ÷+-+ | | | | | | | | ÷ | | |
| Section Keyd | | | | | | | | | | | | | | | | | | | | | | | | | | |
| KD05B | Complete Required Pedestrian Access Corridor & associated top slab at Avenue Level [if instructed] | 0 | | 31-Dec-21* | 133 | 67 | 133 | | <u> </u> | | | | | | <u>¥</u> | Ø | | | | | | | | | | |
| KD05C | PC for HO of Landscape Area at Avenue & Pedestrian level between P31 & P34 [if instructed] | 0 | | 31-Dec-21* | 133 | 67 | 133 -110 | | | | | | | Ð | · • [| Ø | | | | | }- <i>∤</i> }- | | ÷ | | 4 | |
| KD05 KD05A | PC for HO of the Remaining Works for M+ Promenade South Complete Required Pedestrian Access Corridor and Floor Finishes at AURW | 0 | | 10-Jan-22* 07-May-22* | -111 6 | -11 -60 | -110 | | | | | | | | | Ø | | | | | | | | | | |
| KD03A | PC for HO Loc ICT/Risers Rms to APC for ICT Sys Instn Wrks | 0 | | 07-Way-22 08-Mar-24* | -130 | -7 | -130 | | | +-+- | +-+-+- | | t | | | | | -+ | | | | Ø | ÷ | | | |
| KD10 | PC for HO of ASDA, Lyric Theatre Promenade South to Authority | 0 | | 08-Mar-24* | -130 | -7 | -130 | | | +-+-+- | +-+- | | <u>+-+-</u> +- | | | ++++ | | | | | | Ø | <u>+-</u> +- | | | |
| KD09 | PC for HO of RDE areas for Tenancy Fit-out Wrks | 0 | | 08-Mar-24* | -130 | -7 | -130 | | | | | | | | | +-+-+ | | | | | | Ø | 1 | | | |
| KD11 | PC for HO of Extended Basement for HO to Authority & HO of Carriageway to Relevant Govt Authority | 0 | | 13-May-24* | -135 | -7 | -135 | | | | | | | | | 1-1-1 | | | | | | | Ø | | V | |
| KD07 | PRACTICAL COMPLETION for C'Way 3A (M+ Day 2 Works) | 0 | | 11-Jun-24* | -136 | -8 | -136 | | 111 | 111 | | | 1111 | 1111 | | 111 | | 111 | | 1-1-1- | - 1- T | | 1 | Ð | ∇ | |
| KD13 | PRACTICAL COMPLETION for Lyric Theatre, Extended Basement & C'Way 3B | 0 | | 11-Jun-24* | -136 | -8 | -136 | | 11 | T 1 T | | | ITT | 111 | | 111 | | | | []]] | | | | Ð | V | |
| Stage Keydat | les | | | | | | | | | | | | | | | | | | | | | | T | | | Ĩ |
| KD01 | Compl Dsgn Coor/Subm and obtn NNO for L1 Contr Bsmt constn wrks | 0 | | 20-Jul-19 A | 0 | 0 | | | 111 | 111 | | | 1111 | 111 | | 111 | 1111 | | | 1 1 1 1 | () () | | 11 | 111 | 1111 | 1 |
| KD06 | PC for Fountain Related Plantroom(s) | 0 | | 04-May-22* | -4 | -4 | -4 | | 111 | | | | [[]] | | | 8 | | | | | | | 11 I. | | | |
| KD03 | OBTAIN OP for Lyric Theatre & Extended Basement | 0 | | 08-Mar-24* | -130 | -7 | -130 | | 111 | | | | | | | 1.1.1 | | | | | | Ø | Ш | | | |
| KD14 | Complete U/G road and the associated plantrooms at Zone 3A&3B Integrated Basement | 0 | | 23-Mar-24* | -130 | -7 | -130 | | <u>.</u> | | | | 1.1.1. | 4.4.4. | | 144 | 4.4.4. | 4.4.4 | | | ļ. ļ. ļ. | Ø | 2 | | | _ |
| KD02 | Obtain BA14 Acknowledge from BD for M+ Day2 A&A Works | 0 | | 09-May-24* | -134 | -7 | -134 | | | | + | | | | | ÷-++ | | | | | | | Ø | ÷ | | |
| Summary I | Program - Level 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUM10 | [LoE] CC_B Lyric Theatre - Substructure RC Structural Concrete | 106 | 06-May-20 A | 27-Sep-21 | -90 | 8 | -9 | XXXX | (xx) | XXXX | **** | XXXX | ×××× | 3 | | | | | | | | | | | | |
| SUM14 | [LoE] CC_B Lyric Theatre - ABWF Work Including Theatres (Excl. Punch List Works) | 824 | 24-May-21 | 11-Mar-24 | -103 | -6 | -31 | | J.H. | | | | | YYYY | | YYYY | | YYYY | YYYY | | | | <u>YYY</u> | <u> </u> | .].[] | |
| SUM11 | [LoE] CC_B Lyric Theatre - Superstructure RC Structural Concrete | 386 | 12-Jul-21 | 09-Dec-22 | -104 | -6 | -59 | | | | | | | | | | | | 2 | <u> </u> | | | | | | |
| SUM15 | [LoE] CC_B Lyric Theatre - MEP 1st to Final Fix (Excl. TH SYS, TH Non-FSD in Walls, etc.) | 666 | 29-Jul-21 | 01-Nov-23 | -128 | -6 | -44 | | | | | | ; <u>ex</u> | × × × × | **** | XXXX | XXXX | ×××× | XXXX | <u></u> | × × × × | ××× • | | ÷ | | |
| SUM41 | [LoE] CC_B Lyric Theatre - Structural Steel by CSD | 411 | 25-Sep-21 | 22-Mar-23 | -112 | -6 | -70 | | | | | | ++ | -++- | | | -++ | | | | | | 4 | | | |
| SUM12 | [LoE] CC_B Lyric Theatre - EWS Weather Tight Type | 300 | 03-Jan-22 | 10-Feb-23 | -101 | -6 | 85 | | | | | | - | | | | | | | L. J. J. | | <u></u> | <u>i.</u> | | <u></u> | |
| SUM17 | [LoE] CC_B Lytic Theatre - Theatre Specialist Systems Incl. T&C, Precom. & Commissioning | 636 | 08-Apr-22 | 08-Jun-24 | -102 | -5 | -102 | | | | +-+-+- | | ↓↓ - ↓ - | | | | | | | | | | | | . <u></u> | |
| SUM13 | [LoE] CC_B Lyic Theatre - EWS Non-Weather Tight Type 4.1 & 4.3 | 312 | 19-Jul-22 | 11-Sep-23 | -96 | -6 | 6 | | | +-+-+- | | | | | | ÷ † | | | | | | | | +-+-+- | | |
| SUM16 SUM18 | [LoE] CC_B Lyric Theatre - T&C (Excluding Non-FSD ELV & Electrical) [LoE] CC_B Lyric Theatre, EB, C'Way 3B - Stat. Insp. & Approval (from Form 314/501 to BD OP) | 139 98 | 20-May-23 06-Nov-23 | 04-Nov-23 08-Mar-24 | -103 -103 | -6 -6 | -103 -103 | | | +-+-+- | | | | | | ÷+-+ | | | | | | | à | <u> </u> | | |
| SUM18 | [LoE] CC_B Lylic Theathe, ED, C Way SB - Stat. Insp. & Approval (nonr Point S14/S01 to BD OP) | 757 | 12-Apr-21 A | 09-Feb-24 | -103 | -6 | -103 | | | | | | | | ++++++ | | debel a | | | +++++++++++++++++++++++++++++++++++++++ | | V V V V | | <u></u> | + | |
| SUM23 | [LoE] CC C -Artist SQ. Bridge (ASB 1/2/3; ASB 3; P31 2; P34 2; AS 1/2; ASB-6/P31 EVA) | 704 | 17-May-21 | 18-Dec-23 | -44 | -7 | -42 | | | | | | | ~~~~ | | | | **** | | | | | ÷- | | | |
| SUM22 | [LoE] CC C - HoR Development (P32-1, P29-1, P31-EVA) | 611 | 16-Jul-21 | 19-Oct-23 | 6 | -7 | 8 | | 1-1- | | | | ; x x x | **** | | x x x | ***** | ×××× | xxxx | × × × × | | *** | 1-1- | **** | | • |
| SUM20 | [LoE] CC C - LT Promenade & Pocket Square Bridge | 644 | 28-Sep-21 | 01-Feb-24 | -138 | 0 | -78 | | | | | | + | | v v v v v | <u> vvvv</u> | ***** | vvvv | | ~~~~ | | vvvvv | + v v | s | | |
| SUM24 | [LoE] CC_D - Remaining Works for M+ Promenade South | 188 | 18-Feb-21 A | 10-Jan-22 | -86 | -8 | -86 | | 11 | | | | ~~~~ | | - | 111 | 111 | 111 | | 1111 | - 1- F | | 111 | 111 | 111 | - |
| SUM25 | [LoE] CC_E - DCS Cofferdam A Works & Obtain BA14 | 347 | 23-Jun-20 A | 16-Aug-22 | -80 | -15 | -52 | - | XXX | ×××× | × * × × | | t x x x | | **** | | *** | | | | | | TT | | | |
| SUM42 | [LoE] CC_E - DCS Outside of Cofferdam A Works (Connect DIA1,600 & Remove Temp O'fall) | 435 | 01-Sep-21 | 30-Mar-23 | -138 | 0 | -78 | | 3.11 | | | | 5 | | | | | *** | | | | | 111 | | | |
| SUM26 | [LoE] CC_F - Mods to Existing Pump Cell Civil & MEP Works (Excl. Options 2 Add. Pumps) | 271 | 20-May-21 | 18-May-22 | -196 | 0 | 82 | | | | | | | | | | | | | | | | | | | |
| SUM27 | [LoE] CC_G Extended Basement - ABWF Works (Incl. Deferred Areas Under Deck) | 633 | 26-May-21 | 20-Jul-23 | -99 | -7 | 123 | | 1 | | | | | | | | | | | | | | <u>.</u> | | | |
| SUM28 | [LoE] CC_G Extended Basement - MEP 1st Fix to Final Fix (Incl. Deferred Areas Under Deck) | 587 | 29-Jun-21 | 28-Jun-23 | -99 | -7 | -50 | | | | | | ++- | | | | ···· | | ~~~~ | | <u></u> | | | | | |
| SUM29 | [LoE] CC_G Extended Basement - T&C | 292 | 23-Jul-22 | 20-Jul-23 | -99 | -7 | -50 | | <u></u> | <u></u> | <u></u> | | ļ | | | 1.1 .4 | | | | | | | <u>.</u> | | | |
| SUM30 | [LoE] CC_H - Vibration Isolation Spring System Remaining as of 30Apr2020 (AS=30Sep19) | 0 | 09-May-20 A | | | 0 | 0.5.7 | | | | | | <u>i.t.i.</u> | <u>.i.j.i</u> | | <u>i</u> | <u>.ii.j.</u> | <u>.il.i</u> | | ↓- <i>↓</i> - <i>↓</i> | - | | į | | 4-4-4 | |
| SUM31 | [LoE] CC_I Carriageway 3B - ABWF Works | 456 | 16-Jun-21 | 28-Dec-22 | -51 | 0 | 257 115 | | | ÷ | | | | | | | | | | | | | | +-+-+- | | |
| SUM32 SUM33 | [LoE] CC_I Carriageway 3B - MEP Works (1st Fix to Final Fix) | 357 108 | 03-Aug-21 24-Oct-22 | 18-Oct-22 08-Mar-23 | -37 -90 | 0 | 115 57 | | +-+- | ++++ | + | | | | | ÷+-+ | | | | <u></u> | | | | ++++ | | - |
| SUM33 SUM35 | [LoE] CC_I Underpass 3B & Associated Area - T&C [LoE] CC J - M+ Day 2 Works (excl. connections to M+ and SZ 1 FS Changeover) | 762 | 24-Oct-22 18-May-21 | 14-Dec-23 | -90 | -7 | -83 | | | + | | | Vele i | dobol | u la | dalada | | | | | | de la la | <u></u> +-- | +-+-+- | | |
| SUM35 SUM38 | [LoE] CC_J - M+ Day 2 Works (excl. connections to M+ and SZ_1 FS Changeover) [LoE] CC_J - M+ Day 2 FS Changeover in 3A SZ_1, Connections to M+, Integrated T&C | 99 | 20-Nov-23 | 23-Mar-24 | -103 | -7 | -83 | | | | | | | | | | | | | | <u></u> | | ÷ | | | |
| SUM38 | [LoE] CC J Carriageway 3A - Stat. Insp. & Approvals (from Form 314A to BA14) | 56 | 29-Feb-24 | 09-May-24 | -103 | -6 | -103 | | | ++++ | | | + | | · | <u>+-</u> +-+ | | | | | | | | t interest | ≠÷÷ | |
| SUM39 | [LoE] CC K - Water Main at Promenade | 253 | 17-Aug-22 | 21-Jul-23 | -138 | 0 | -78 | | | **** | + | | 1 | | · • • • • • • • | <u> </u> | · † - † 🙀 | ***** | | i viviju | <u>vy</u> i | · | 1 | **** | | |
| SUM40 | [LoE] CC_N Lifts & Escalators | 458 | 29-Dec-21 | 25-Jul-23 | -71 | -7 | -6 | | 111 | ÷ | | | <u>† † †</u> | - <u></u> +- | | ~~~~ | ~~~~ | ~~~~ | | | | ·;;;;;;;; | i-t- | ÷-†-†- | 1-1-1- | |
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L2 CMWP_R01_08 Approved 29Sep20 - 8th Update DD=30Apr21

Revision Checked Approved CMWP Rev_1_08 - 8th Update DD 30Apr21 IH NS

| Au Oppose Noture Plottering Nature 2000 0 01/14/1922 PO for HSL Confferes Res Low Carbon 0 004/14/2 0 <td< th=""><th></th><th>Activity</th><th>RD</th><th>Start</th><th>Finish</th><th>2020</th><th></th><th></th><th></th><th></th><th>2021</th><th></th><th></th><th></th><th></th><th>20</th><th></th><th></th><th></th><th></th><th>202</th><th></th><th></th><th></th></td<> | | Activity | RD | Start | Finish | 2020 | | | | | 2021 | | | | | 20 | | | | | 202 | | | |
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| 2 LoE I O2, B Lync Theathe - EWS Weather Tight Type 27 < | | | | | | | | | | . | | | ~~~~~ | | ***** | ***** | | | | | | · | ~~ | |
| 7 LOEI OC. B Lytic Theatre - Theste Specialite Systems Ind. T&C, Precom. & Commissioning 613 11.449-22 08-Jun-24 0.00000000000000000000000000000000000 | | | _ | | | | | | | | | | | · · · · · · · · · · · · · · · · · · · | | | | | | | | | | |
| 3 LoE [OC_B Lyinc Theatre - EWS Non-Weather Tight Type 4.1 & 4.3 294 18-Aug-22 16-Sep-23 3 LoE [OC_B Lyinc Theatre - T&G (Excluding Non-KSD EUV & Electrical) 199 20-May-23 0-4-Avv-23 1 LoE [OC_C B Lyinc Theatre - T&G (Excluding Non-KSD EUV & Electrical) 199 20-May-23 0-4-Avv-23 1 LoE [OC_C C Lyinc Theatre - ELK VA3 B3: P31-2; P34-2; P31-2; P31- | | | | | | | | | | | · | | | | | | | | | | <u></u> | | | |
| 3 LoE [CC, B Lytic Theatre - T&C (Excluding Non-FSD ELV & Electrical) 139 20-May-23 04-Nov-23 3 LoE [CC, B Lytic Theatre - T&C (Excluding Non-FSD ELV & Electrical) 98 06-Nov-23 06-May-24 1 LoE [CC, C LTEVAH & Elex/L2 776 12-Apr-21A 09-Feb-24 3 LoE [CC, C - LTEVAH & Elex/L2 776 12-Apr-21A 19-Oct-23 4 LoE [CC, C - LTEVAH & Elex/L2 560 04-Oct-21 19-Feb-24 5 LoE [CC, C - LTEVAH & Stoppment (P32-1, P34-2; AS 1/2; ASB-6/P31 EVA) 666 04-Oct-21 19-Feb-24 5 LoE [CC, C - LTEVAH & Stoppment (P32-1, P34-2; AS 1/2; ASB-6/P31 EVA) 560 04-Oct-21 19-Feb-24 6 LoE [CC, C - LTEVAH & Stoppment (P32-1, P34-2; AS 1/2; ASB-6/P31 EVA) 580 14-App-21 19-Feb-24 1 LoE [CC, C - LTEVAH & Stoppment (P32-1, P34-2; AS 1/2; ASB-6/P31 EVA) 148 18-5ep-21 14-5ep-22 2 LoE [CC, C - LTEVAH & Stoppment (P32-1, P34-2; AS 1/2; ASB-2; Add PanyPany 2) 14-5ep-23 14-5ep-23 1 LoE [CC, C - Nots to Existing Pump Call KB //2 (PAK) (Edx Cytoprose Zadd: Pumps) 250 14-5ep-22 2 LoE [CC, C - Stoteded Basement - MEP 15 Fix Enhal Fix (Ind | | | _ | | | | + | | | | | | | | ļļ | | - | | | | | | | |
| B [LoE] CC, B Lyric Theatre, EB, C/Way 3B - Stat. Insp. & Approval (from Form 314/501 to BD OP) 98 06-Nov-23 08-Mar-24 09-Reb-24 [LoE] CC, C - Lrit SV1 & EV/2 736 12-Apr-21 A 09-Reb-24 09-Reb-24 [LoE] CC, C - Lrit SV1 & EV/2 F031 EV/3 19-Reb-24 19-Reb-24 [LoE] CC, C - Lrit SV1 & EV/2 F031 EV/3 190 EV/2 19-Reb-24 [LoE] CC, C - Lrit SV1 & KV2 660 04-Oct-21 19-Reb-24 [LoE] CC, C - LT Promenade & Pocket Square Bridge 660 04-Oct-21 19-Reb-24 [LoE] CC, C - LTS N01 Morks for M+ Promenade South 188 18-Reb-21 A 10-Reb-22 [LoE] CC, E - DSC Sofferdam A Works (Connect DIA1.600 & Remove Temp Ofall) 444 01-Sep-21 14-Apr-22 [LoE] CC, G E- Mods to Existing Pump Cell Cvit & MEP Works (Incl. Defered Areas Under Deck) 628 15-May-21 A 20-Li-23 [LoE] CC, G E- Mods to Basement - ABWF Works (Incl. Defered Areas Under Deck) 628 15-May-21 A 20-Li-23 14-Apr-23 [LoE] CC, G E- Loed Basement - T& CC 270 18-Aug-22 20-Li-23 14-Apr-24 14-Apr-24 [LoE] CC, G E- Lended Basement - T& CC 270 18-Aug-22 20-Li-23 14-Apr- | | | | - | | | | | | | | | <u>+</u> +- | · | · | 1-1 | | <u> </u> | | | | | | |
| 1 [LoE] CC, C-LT EVA1 & EVA2 736 12-Apr-21A 09-Feb-24 1 <td< td=""><td></td><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>• • • • • • • •</td><td>††</td><td>+</td><td></td><td>+ + + +</td><td></td><td></td><td>1</td><td></td><td>- i</td><td>ta da da</td></td<> | | | _ | | | | | | | | | | | • • • • • • • • | †† | + | | + + + + | | | 1 | | - i | ta da |
| 3 [LoE] CC_C-Artist SQ. Bridge (ASB_1/2/3; ASB_3; P31_2; P34_2; AS_1/2; ASB-6/P31 EVA) 686 11-Jun-21 18-Dec-23 2 [LoE] CC_C-L-HR Development (P32-1, P29-1, P31-EVA) 590 14-Aug-21 19-Oct-23 19-Oct-23 4 [LoE] CC_C-LT Pomenade & Pocket Square Bridge 650 04-Oct-21 19-Feb-24 4 [LoE] CC_D - Remaining Works for M+ Promenade South 188 18-Feb-21A 10-Feb-22 2 [LoE] CC_E - LCS Conferdam A Works & Otalin BA14 348 23-Jun-20A 14-Apr-23 2 [LoE] CC_E - NCS Oxide of Conferdam A Works (Connet DA1,600 & Remove Temp O'fall) 444 01-Feb-22 2 [LoE] CC_E - NCS Oxide of Conferdam A Works (Incl. Defered Areas Under Deck) 620 18-Aug-21 18-Aug-22 3 [LoE] CC_E E-NCS Oxide of Conferdam A Works (Incl. Defered Areas Under Deck) 610 17-May-21A 29-Jul-23 4 [LoE] CC_G E-Stended Basement - ABWF Works (Incl. Defered Areas Under Deck) 610 17-May-21A 29-Jul-23 5 [LoE] CC_G C-I-Decompany 38 - ABWF Works 451 07-Jul-21 10-Jul-21 10-Jul-21 6 [LoE] CC_I C-I-Decompany 38 - ABWF Works 451 07-Jul-21 01-Jul-21 10-Jul- | | | _ | | | | | | | | | | | + | | | | | | | | | - | teria : |
| D LoEj CC_C - LT Promenade & Pocket Square Bridge 650 04-Oct-21 19-Feb-24 4 LoEj CC_D - Remaining Works for M+ Promenade South 188 18-Feb-21A 10-Feb-22 5 LoEj CC_E - DCS Cofferdam A Works & Obtain BA14 348 23-Jun-20A 14-Sep-22 2 LoEj CC_E - DCS Colfiside of Cofferdam A Works (Connect DIA1,600 & Remove Temp Ofail) 444 01-Sep-21 14-Apr-23 3 LoEj CC_F - Mods to Existing Pump Cell Civil & MEP Works (Excl. Options 2 Add. Pumps) 250 18-Jun-21 18-May-22 7 LoEj CC_G E Stended Basement - ABWF Works (Incl. Deferred Areas Under Deck) 628 15-May-21A 28-Jun-23 9 LoEj CC_G E Stended Basement - T&C 270 18-Aug-22 20-Jul-23 9 LoEj CC_G C H- Vibration Isolation Spring System Remaining as of 30Apr/2020 (AS=30Sep19) 0 9-May-20A 10-Feb-21A 1 LoEj CC_I C-I Methys 38 - ABWF Works (excl. connections to M+ and SZ_1 FS Changeover) 756 01-Mu-22 10-Hov-22 10-Hov-22 1 LoEj CC_J - M+ Day 2 Vorks (excl. connections to M+, Integrated T&C 99 20-Mar-23 10-Hov-23 10-Hov-24 1 LoEj CC_J - M+ Day 2 Vorks (excl. connections to M+, Integrated T&C | | | | | | | | | | | | | | - | | | | | <u>i i i i i i i i i i i i i i i i i i i </u> | | | | | 1 |
| 44 [LoE] CC, D. Remaining Works for M+ Promenade South 188 18.Feb-21A 10-Feb-22 55 [LoE] CC, E - DCS Cofferdam A Works & Obtain BA14 348 23-Jun-20A 14-Sep-22 2 [LoE] CC, E - DCS Outside of Cofferdam A Works & (Connect DIA1,600 & Remove Temp OTall) 444 01-Sep-21 14-App-23 36 [LoE] CC, F - Mods to Existing Pump Cell Cvil & MEP Works (Exd. Options 2 Add. Pumps) 250 18-Jun-21 18-May-22 7 [LoE] CC, G Extended Basement - ABWP Works (Ind. Deferred Areas Under Deck) 628 15-May-21 A 20-Jul-23 9 [LoE] CC, G Extended Basement - T&C 270 18-May-22 20-Jul-23 20-Jul-23 9 [LoE] CC, G Extended Basement - NEP 1st Fix to Final Fix (Ind. Deferred Areas Under Deck) 610 17-May-21 A 28-Jun-23 20-Jul-23 9 [LoE] CC, I Carriageway 3B - ABWF Works 451 07-Jul-24 14-Jul-23 20-Jul-23 20-Jul-23 20-Jul-24 10 [LoE] CC, I Carriageway 3B - MEP Works (1st Fix to Final Fix) 348 27-Aug-21 11-Nov-22 20-Jul-24 | | | | | | | | | | | | | ***** | + | ÷ | ÷ | | <u> </u> | | - | | | | |
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| 22 [LoE] CC_E - DCS Outside of Cofferdam A Works (Connect DIA1,600 & Remove Temp O'fall) 444 01-Sep-21 14-Apr-23 36 [LoE] CC_F - Mods to Existing Pump Cell Civil & MEP Works (Excl. Options 2 Add. Pumps) 250 18-Jun-21 18-May-22 7 [LoE] CC_G E Attended Basement - ABWF Works (Incl. Deferred Areas Under Deck) 628 15-May-21A 20-Jul-23 8 [LoE] CC_G E Attended Basement - MEP 1st Fix to Final Fix (Incl. Deferred Areas Under Deck) 610 17-May-21A 28-Jun-23 9 [LoE] CC_G E Attended Basement - T&C 270 18-Aug-22 20-Jul-23 20-Gegggggggggggggggggggggggggggggggggggg | | | _ | | | | | | . 📫 | | 1 | | | <u> </u> | | | | | | | | | | |
| Base [LoE] CC_F - Mods to Existing Pump Cell Civil & MEP Works (Excl. Options 2 Add. Pumps) 250 18-Jun-21 18-May-22 7 [LoE] CC_G Extended Basement - ABWF Works (Incl. Deferred Areas Under Deck) 628 15-May-21A 20-Jul-23 8 [LoE] CC_G Extended Basement - MEP 1st Fix to Final Fix (Incl. Deferred Areas Under Deck) 610 17-May-21A 28-Jun-23 9 [LoE] CC_G Extended Basement - T&C 270 18-Aug-22 20-Jul-23 20-Jul-23 0 [LoE] CC_G Extended Basement - T&C 270 18-Aug-22 20-Jul-23 20-Jul-23 0 [LoE] CC_G Extended Basement - T&C 0 0-May-20A 10-Feb-21A 1 [LoE] CC_L Carriageway 3B - MEP Works (1st Fix to Final Fix) 348 27-Aug-21 01-Nov-22 2 [LoE] CC_L I Carriageway 3B - MEP Works (1st Fix to Final Fix) 348 27-Aug-21 01-Nov-22 3 [LoE] CC_L I Carriageway 3B - MEP Works (excl. connections to M+ and SZ_1 FS Changeover) 756 01-Jun-21 20-Dec-23 5 [LoE] CC_L J - M+ Day 2 Works (excl. connections to M+, Integrated T&C 99 20-Nov-23 23-Mar-24 4-Mar-24 8 [LoE] CC_L Carriageway 3A-Stat. Insp. & Approvals (from Form 314A to BA14) 56 </td <td></td> <td><u></u>.</td> <td>444.</td> <td></td> <td></td> <td></td> | | | | | | | | | | | | | | | | | | | | <u></u> . | 444. | | | |
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| Basel [LoE] CC_G Extended Basement - MEP 1st Fix to Final Fix (Ind. Deferred Areas Under Deck) 610 17-May-21A 28-Jun-23 Image: Comparison of the comparison of | | | | | | | | | | | | | | | | <u></u> | | <u></u> | <u> </u> | | <u></u> | . | | |
| 9 [LoE] CC_G Extended Basement - T&C 270 18-Aug-22 20-Jul-23 Image: Comparison of the | | | | | | | +-+ | | | | ļ | | | | | | | | | | ***** | | | |
| D [LoE] CC_H - Vibration Isolation Spring System Remaining as of 30Apr2020 (AS=30Sep19) 0 09-May-20A 10-Feb-21 A Image: Constraint of the system Remaining as of 30Apr2020 (AS=30Sep19) 0 09-May-20A 10-Feb-21 A Image: Constraint of the system Remaining as of 30Apr2020 (AS=30Sep19) 0 09-May-20A 10-Feb-21 A Image: Constraint of the system Remaining as of 30Apr2020 (AS=30Sep19) 0 09-May-20A 10-Feb-21 A Image: Constraint of the system Remaining as of 30Apr2020 (AS=30Sep19) 0 09-May-20A 10-Feb-21 A Image: Constraint of the system Remaining as of 30Apr2020 (AS=30Sep19) 0 09-May-20A 10-Feb-21 A Image: Constraint of the system Remaining as of 30Apr2020 (AS=30Sep19) 0 09-May-20A 10-Feb-21 A Image: Constraint of the system Remaining as of 30Apr2020 (AS=30Sep19) 0 09-May-20 10-Feb-21 A Image: Constraint of the system Remaining as of 30Apr2020 (AS=30Sep19) 0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>+</td> <td></td> <td>, and the second se</td> <td></td> <td>desetseda</td> <td>3</td> <td></td> <td></td> | | | | | | | + | | | | | | | | | | | | , and the second se | | desetseda | 3 | | |
| 1 [LoE] CC_l Carriageway 3B - ABWF Works 451 07-Jul-21 12-Jan-23 12-Jan-23 12-Jan-23 12-Jan-24 | 30 | | | - | | | | | - | | | | | | 111 | | | | | 11 | 111 | | | |
| 3 [LoE] CC_l Underpass 3B & Associated Area - T&C 108 04-Nov-22 20-Mar-23 108 108 04-Nov-22 20-Mar-23 108 108 108 108 108 04-Nov-22 20-Mar-23 108 108 108 109-Dec-23 108 109-Dec-23 109-Dec-23 108 109-Dec-23 108 108 109-Dec-23 108 108 109-Dec-23 108-Dec-23 109-Dec-23 109-Dec-23 109-Dec-23 109-Dec-23 108-Dec-23 109-Dec-23 109-Dec-23 109-Dec-23 108-Dec-23 109-Dec-23 < | 31 | | 451 | 07-Jul-21 | 12-Jan-23 | | | | | | | | | + | + + | | | + | - | | | | | |
| 5 [LoE] CC_J - M+ Day 2 Works (excl. connections to M+ and SZ_1 FS Changeover) 756 01-Jun-21 20-Dec-23 | 32 | [LoE] CC_I Carriageway 3B - MEP Works (1st Fix to Final Fix) | 348 | 27-Aug-21 | 01-Nov-22 | | | | | | | | | | | | | - | | | | | | |
| B [LoE] CC_J - M + Day 2 FS Changeover in 3A SZ_1, Connections to M+, Integrated T&C 99 20-Nov-23 23-Mar-24 4 [LoE] CC_J Carriageway 3A - Stat. Insp. & Approvals (from Form 314A to BA14) 56 29-Feb-24 09-May-24 9 [LoE] CC_K - Water Main at Promenade 240 16-Sep-22 02-Aug-23 | 33 | [LoE] CC_I Underpass 3B & Associated Area - T&C | 108 | 04-Nov-22 | 20-Mar-23 | | | | | | | | | | | | | | | | | | | |
| 4 [LoE] CC_J Carriageway 3A - Stat. Insp. & Approvals (from Form 314A to BA14) 56 29-Feb-24 09-May-24 9 [LoE] CC_K - Water Main at Promenade 240 16-Sep-22 02-Aug-23 | 5 | | | | | | | | | . | | | | | | · · · · · · · · | | | | | | | · · · · · | |
| 9 [LoE] CC_K - Water Main at Promenade 240 16-Sep-22 02-Aug-23 | 8 | | | | | | | | | | | | <u>.</u> | · | ļ | | | ÷ | | | 444- | . | | |
| | | | | | | -+-+- | +-+ | | | | | | | | ÷ | + | | <u></u> | | <u></u> | iii. | <u>_</u> | | |
| | | | | | | | + | | | | | | | - | | | | | | | | | | |
| | ŧU | | 436 | 29-Dec-21 | 25-Jui-25 | 1 1 1 | | : : | 1 1 | 1 1 | 1 | | | 1 | | | | | | | | | 1 1 | 1 |
| | | | | | | | | | | | | | | | | Data | | | | Povicio | n | | 0 | ookor |
| Base Line ACT Date Revision Checked | | Base Line ACT Current - MEP Works | | D 04 | _09 Ap | | | 200 | - | 00 | 0 | | | - | | 3-Jun-21 | | | | 9th Upda | | | 0 | eckeu |

| | Activity | RD | Start | Finish | 202 | | | | | |)21 | | | | | 202 | | | | | 2023 | | | | 2 |
|---------------|---|------------|--------------------------|--------------------------|------------|-------|----------------|-------------|----------|-------|-------------|-----------------------|--------------------|---|-------------------|-----------------|-------------------|-------------|-------|-------------|------------|-------------|----------|--------------------|------------------|
| | | | | | | Qtr 3 | | | | Qtr 2 | | | | | | | | | 4 Qtr | | 2 Qt | | | Qtr 1 | |
| M/P R01 | 10 Approved 29Sep 20 - 10th Update DD=30Jun21 | | | | MJ | JAS | | ID J | FM | AMJ | JA | ISIO | ND. | JIFIN | | N J J | | | DJF | | | 180 | ND | JIFII | M |
| | PRELIMINARIES | | | | | | +-+ | | | | | { <u></u> {}{ | | | | +-+- | ++- | +++ | | <u>⊦-</u> + | | | | | ; |
| | | | | | | | | | | | | | | | | | | ÷ | | | | | | | i |
| ntract Sig | gnificant Dates | | | | | | | | | | | | | | | | | | | | | | | | |
| | ont & Completion Dates | | | | | | <u></u> | | | | | <u></u> | | | | 11 | 1.1. | 1.1.1 | | LLL | | | | | L.İ |
| ection Keydal | tes | | | | | | | | | | | | | | | | | | | | | | | | |
| | PC for HO of Landscape Area at Avenue & Pedestrian level between P31 & P34 [if instructed] | 0 | | 31-Dec-21* | | | <u>.</u> | | - | | | | Y- | · | . 6 | | | 4.4.4 | | ļ | 4.4.4. | | | | i |
| | Complete Required Pedestrian Access Corridor & associated top slab at Avenue Level [if instructed] | 0 | | 28-Jan-22* | | | ++ | | - | | · | Ø | | ··· | e | 2 | | ÷.+.+ | | | | | | | + - |
| | PC for HO of the Remaining Works for M+ Promenade South Complete Required Pedestrian Access Corridor and Floor Finishes at AURW | 0 | | 05-Mar-22* 07-May-22* | | | + | | | | | S | | ··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· | <mark>v</mark> | <u>.</u> | | +-+-+ | | | | | | | ; ; . |
| | PC for HO Loc ICT/Risers Rms to APC for ICT Sys Instn Wrks | 0 | | 23-Mar-24* | | | +-+ | ÷ | | | | | | | | 4-÷- | ++- | ++++ | | | | € | 5 | | - . |
| | PC for HO of ASDA, Lyric Theatre Promenade South to Authority | 0 | | 23-Mar-24* | | | + | | | | | | | | | | | | | | | e | | | |
| - | PC for HO of RDE areas for Tenancy Fit-out Wrks | 0 | | 23-Mar-24* | | | + | | | | | | | | | | | | | | | ē | | | 7 |
| | PC for HO of Extended Basement for HO to Authority & HO of Carriageway to Relevant Govt Authority | 0 | | 29-May-24* | | | 1-1 | 111 | | | | 111 | | | | 11 | 11 | | | | 1-1-1- | 1-1-3 | ⊘ | ,-tt- | (<u>†</u> - |
| KD07 | PRACTICAL COMPLETION for C'Way 3A (M+ Day 2 Works) | 0 | | 26-Jun-24* | | | Ť. | 111 | | 111 | 1 | 1 | | | 1.1 | 11 | 111 | 111 | | | 1111 | 1-1-1 | | Ø | ;÷- |
| KD13 | PRACTICAL COMPLETION for Lyric Theatre, Extended Basement & CWay 3B | 0 | | 26-Jun-24* | | | | | | | |] | | | | | | | | | 1 | | | Ø | |
| Stage Keydate | 3 | | | | | | 1.1. | | | | | | | | | 1.1. | 1.1. | 1.1.1 | | | 1.1.1. | | | | |
| | Compl Dsgn Coor/Subm and obtn NNO for L1 Contr Bsmt constn wrks | 0 | | 20-Jul-19 A | | | <u> -</u> | | | | | | | | | | Ļ | | | | | | | | ; |
| | PC for Fountain Related Plantroom(s) | 0 | | 24-May-22* | | | | | | | | | | | Ø | V. | | | | | | | | | |
| | OBTAIN OP for Lyric Theatre & Extended Basement | 0 | | 23-Mar-24* | | | | | | | · · · · · · | | | | | | | | | ÷ | ÷ | € | Ø | | V |
| | Complete U/G road and the associated plantrooms at Zone 3A&3B Integrated Basement Obtain BA14 Acknowledge from BD for M+ Day2 A&A Works | 0 | | 12-Apr-24* 25-May-24* | • | | | { | | | | | | | | | | | | | | | Ø | | ;+` |
| | | 0 | | 25-May-24 | | | +-+ | | | | | | | | | ÷-+- | ++- | ÷.+.+ | | | | | | | ; · |
| | rogram - Level 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | [LoE] CC_B Lyric Theatre - Substructure RC Structural Concrete | 81 | 06-May-20 A | | | | | | | | | | | | <u>i i</u> | <u>. i</u> | | <u></u> | | <u></u> | <u>ii.</u> | | | | i. |
| | [LoE] CC_B Lyric Theatre - ABWF Work Including Theatres (Excl. Punch List Works) | 805 391 | 28-May-21 A 23-Jul-21 | 26-Mar-24 24-Dec-22 | | | | <u></u> | | | | | | - | al al a | | | | | | | | | | <u> </u> . |
| - | [LoE] CC_B Lyric Theatre - Superstructure RC Structural Concrete [LoE] CC B Lyric Theatre - MEP 1st to Final Fix (Excl. TH SYS, TH Non-FSD in Walls, etc.) | 656 | 25-Jui-21 25-Aug-21 | 16-Nov-23 | • | | ÷-+ | ÷ | | | | | | | | | | | | | | | | · | ; <u>+</u> · |
| | [LOE] CC_B Lyric Theatre - Structural Steel by CSD | 419 | 04-Oct-21 | 11-Apr-23 | **** | | +-+ | ÷ | | | | i i j essi | | | ***** | ***** | ***** | | | | | | | | (†· |
| | [LoE] CC B Lyric Theatre - EWS Weather Tight Type | 277 | 21-Feb-22 | 25-Feb-23 | | | 1 1 | | | | | | | | | | | | | | 1-1-1- | 111 | | | († - |
| SUM17 | [LoE] CC_B Lyric Theatre - Theatre Specialist Systems Incl. T&C, Precom. & Commissioning | 617 | 21-May-22 | 25-Jun-24 | | | | | | | | | | | | | | | | | | | | <u></u> | |
| UM13 | [LoE] CC_B Lyric Theatre - EWS Non-Weather Tight Type 4.1 & 4.3 | 300 | 01-Sep-22 | 11-Oct-23 | | | I.I. | | | | | | | | | | - F | | | <u> </u> | | | | | |
| | [LoE] CC_B Lyric Theatre - T&C (Excluding Non-FSD ELV & Electrical) | 139 | 06-Jun-23 | 20-Nov-23 | | | <u> -</u> | | | | | | | | | | ļ | <u></u> | | | | | | | |
| | [LoE] CC_B Lyric Theatre, EB, C'Way 3B - Stat. Insp. & Approval (from Form 314/501 to BD OP) | 98 | 21-Nov-23 | 23-Mar-24 | | | | | | | <u></u> | <u> </u> | | | | | | | | <u> </u> | | | | | <u>.</u> |
| | [LoE] CC_C-LT EVA1 & EVA2 | 727 | 12-Apr-21 A | 02-Mar-24 | | | | | | | | | | | | | | | | | | | | | ; <u></u> ; |
| | [LoE] CC_C - Artist SQ. Bridge (ASB_1/2/3; ASB_3; P31_2; P34_2; AS_1/2; ASB-6/P31 EVA) [LoE] CC C - HoR Development (P32-1, P29-1, P31-EVA) | 685 592 | 21-Jun-21 A 31-Aug-21 | 06-Jan-24 06-Nov-23 | | | + | | | | | | ***** | | ai an instantion | ***** | **** | ***** | | | | | . | | ¦¦· |
| | [LoE] CC_C - LT Promenade & Pocket Square Bridge | 657 | 25-Oct-21 | 15-Mar-24 | **** | | +-+- | ÷ | | | | | a inter | ujuj o | dada | dada | - | ÷ | *** | | | | hadrade | adaad i | jar†. |
| | [LoE] CC D - Remaining Works for M+ Promenade South | 186 | 18-Feb-21 A | | **** | | + | | - | | | | ***** | | | 111 | | | | | | | | | († - |
| | [LoE] CC E - DCS Cofferdam A Works & Obtain BA14 | 344 | 23-Jun-20 A | 12-Oct-22 | | | | | <u></u> | | | 1 | | atasta | ataata | ***** | diante | *** | | | 1 1 1 | 1 1 | | | /**† |
| SUM42 | [LoE] CC_E - DCS Outside of Cofferdam A Works (Connect DIA1,600 & Remove Temp O'fall) | 466 | 01-Sep-21 | 16-May-23 | | | | | | | | | | | | | | + | | |] | | | | |
| | [LoE] CC_F - Mods to Existing Pump Cell Civil & MEP Works (Excl. Options 2 Add. Pumps) | 229 | 17-Jul-21 | 18-May-22 | | | | | | | | | | | | | | | | | | | | | ¦ |
| | [LoE] CC_G Extended Basement - ABWF Works (Incl. Deferred Areas Under Deck) | 617 | 15-May-21 A | | | | 4.4.4 | | | | | | | | | | | | | | <u></u> | | | | ÷÷ |
| | [LoE] CC_G Extended Basement - MEP 1st Fix to Final Fix (Incl. Deferred Areas Under Deck) | 599 | 17-May-21 A | | | | + | | | | | | | | | | | | | | dandarda | | | | ; ! - |
| | [LoE] CC_G Extended Basement - T&C [LoE] CC H - Vibration Isolation Spring System Remaining as of 30Apr2020 (AS=30Sep19) | 258 0 | 17-Sep-22 09-May-20 A | 05-Aug-23 10-Feb-21 A | - | | | | - | | | | | | - <u>-</u> | | | | | | | | | | ; . |
| | [LOE] CC_1 Carriageway 3B - ABWF Works | 421 | 12-Aug-21 | 13-Jan-23 | | | | · · · · · · | | | - ie | <u>ii</u> | <u>i</u> i | <u>ii.</u> | <u>.ii</u> . | <u>.ii.</u> | <u></u> | <u></u> | | <u> </u> | | | | | ; <u>+</u> · |
| | [LoE] CC_I Carriageway 3B - MEP Works (1st Fix to Final Fix) | 314 | 29-Oct-21 | 21-Nov-22 | \uparrow | | **** | | | | | i∵i∵ė | | | | | | | | in in in | 1-1-1- | 1-1-1 | | | (+ |
| | [LoE] CC Underpass 3B & Associated Area - T&C | 108 | 08-Nov-22 | 23-Mar-23 | 111 | | †-† | : | | | | 1 | | | 111 | | | | | et tr | 1-1-1- | 1-1-1 | ii - | | ; † - |
| UM35 | [LoE] CC_J - M+ Day 2 Works (excl. connections to M+ and SZ_1 FS Changeover) | 750 | 03-Jun-21 A | 15-Jan-24 | | | | | | | | | | | - | - | - | | | | | | <u></u> | • | 1 |
| JM38 | [LoE] CC_J - M+ Day 2 FS Changeover in 3A SZ_1, Connections to M+, Integrated T&C | 99 | 05-Dec-23 | 12-Apr-24 | | | | | | | | | | | | 11 | | | | | | | - | | |
| | [LoE] CC_J Carriageway 3A - Stat. Insp. & Approvals (from Form 314A to BA14) | 56 | 15-Mar-24 | 25-May-24 | | | ļ | | | | | | | | | 1.1. | | | | | | | | | · 🟧 |
| SUM39 | [LoE] CC_K - Water Main at Promenade | 244 | 14-Oct-22 | 01-Sep-23 | | | ÷-+ | | | | | ļļļ | | | <u>.</u> | | | | | | | | | | i |
| | [LoE] CC N Lifts & Escalators | 460 | 13-Jan-22 | 10-Aug-23 | | | 1 1 | : : | : : : | 1 1 | | | | | | | | | | | | | : : | 1 1 | . 1 |

C. Environmental Mitigation Measures – Implementation Status

Table C-1: Environmental Mitigation Measures Implementation Status

| | Recommendation Measures | Implementation Stage | | | | | | |
|-----------|---|----------------------|--------------|------|--------------|--------------|--------------|--|
| | | L1 | | | | L2 | | |
| EM&A | | Мау | Jun 2021 | Jul^ | May 2021 | Jun 2021 | Jul | |
| Ref. | | 2021 | | 2021 | | | 2021 | |
| Air Quali | ty Impact (Construction) | | | | | | | |
| 2.1 & | General Dust Control Measures | | | | | | | |
| 10.3.1 | 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) | ✓ | ~ | | ~ | * | Obs | |
| 2.1 & | Best Practice For Dust Control | | | | | | | |
| 10.3.1 | 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: | | | | | | | |
| | Good Site Management | | | | | | | |
| | • 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 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. | Rem, Obs | Obs | | Obs | Obs | Obs | |
| | Disturbed Parts of the Roads | | | | | | | |
| | Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or | \checkmark | \checkmark | | \checkmark | \checkmark | \checkmark | |
| | Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet. | \checkmark | \checkmark | | Obs | ✓ | \checkmark | |
| | Exposed Earth | | | | | | | |
| | • Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seating 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. | N/A | N/A | | N/A | N/A | N/A | |

Loading, Unloading or Transfer of Dusty Materials

| | Recommendation Measures | Implementation Stage | | | | | | |
|--------|--|----------------------|--------------|------|--------------|--------------|--------------|--|
| | | L1 | | | | L2 | | |
| EM&A | | May | Jun | Jul^ | Мау | Jun | Jul | |
| Ref. | | 2021 | 2021 | 2021 | 2021 | 2021 | 2021 | |
| | All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet. | \checkmark | \checkmark | | \checkmark | \checkmark | \checkmark | |
| | Debris Handling | | | | | | | |
| | Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides. | Obs | \checkmark | | \checkmark | \checkmark | \checkmark | |
| | Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped. | \checkmark | \checkmark | | ✓ | \checkmark | \checkmark | |
| | Transport of Dusty Materials | | | | | | | |
| | 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. | \checkmark | \checkmark | | √ | √ | \checkmark | |
| | Wheel washing | | | | | | | |
| | 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. | \checkmark | \checkmark | | √ | √ | \checkmark | |
| | Use of vehicles | | | | | | | |
| | 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. | \checkmark | ✓ | | √ | ✓ | \checkmark | |
| | Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels. | \checkmark | \checkmark | | \checkmark | \checkmark | \checkmark | |
| | 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. Site hoarding | ~ | \checkmark | | 1 | ~ | ~ | |
| | 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. | 1 | \checkmark | | ~ | ✓ | ~ | |
| 2.1 & | Best Practicable Means for Cement Works (Concrete Batching Plant) | | | | | | | |
| 10.3.1 | The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Cement Works (Concrete Batching Plant) BPM 3/2(93) should be followed and implemented to further reduce the construction dust impacts of the Project. These best practices include: Exhaust from Dust Arrestment Plant | | | | | | | |

| | | Implementation Stage | | | | | | |
|----------|--|----------------------|--------------|------|--------------|--------------|--------------|--|
| | | | L1 | | | L2 | | |
| EM&A | Recommendation Measures | May | Jun | Jul^ | Мау | Jun | Jul | |
| Ref. | | 2021 | 2021 | 2021 | 2021 | 2021 | 2021 | |
| | 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 | N/A | | N/A | N/A | N/A | |
| | Emission Limits | | | | | | | |
| | All emissions to air, other than steam or water vapour, shall be colourless and free from persistent mist or smoke | N/A | N/A | | N/A | N/A | N/A | |
| | Engineering Design/Technical Requirements | | | | | | | |
| | As a general guidance, the loading, unloading, handling and storage of fuel, raw materials, products, wastes or by-products should be carried out in a manner so as to prevent the release of visible dust and/or other noxious or offensive emissions | N/A | N/A | | N/A | N/A | N/A | |
| | 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. | Obs | V | | \checkmark | V | ✓ | |
| Noise Im | pact (Construction) | | | | | | | |
| 3.1 & | Good Site Practice | | | | | | | |
| 10.4.1 | Good site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The following package of measures should be followed during each phase of construction: | | | | | | | |
| | only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works; | \checkmark | ✓ | | \checkmark | ✓ | \checkmark | |
| | machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum | \checkmark | ✓ | | \checkmark | ✓ | \checkmark | |
| | plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs; | \checkmark | ✓ | | \checkmark | ✓ | \checkmark | |
| | mobile plant should be sited as far away from NSRs as possible; and | \checkmark | \checkmark | | \checkmark | \checkmark | \checkmark | |
| | material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities. | \checkmark | \checkmark | | \checkmark | \checkmark | \checkmark | |

| | | Implementation Stage | | | | | | |
|-----------------|---|----------------------|-------------|--------------|-------------|-------------|-------------|--|
| | | | L1 | | | L2 | | |
| EM&A Ref. | Recommendation Measures | May 2021 | Jun 2021 | Jul^ 2021 | May 2021 | Jun 2021 | Jul 2021 | |
| 3.1 & 10.4.1 | The recommended quieter PME adopted in the assessment were taken from the EPD's QPME Inventory and " <i>Sound Power Levels of Other Commonly Used PME</i> " are presented in Table 4.26 in the EIA report. It should be noted that the silenced PME selected for assessment can be found in Hong Kong. | √ | ~ | | ~ | ~ | ✓ | |
| 3.1 & 10.4.1 | Use of Movable Noise Barriers Movable noise barriers can be very effective in screening noise from particular items of plant when constructing the Project. Noise barriers located along the active works area close to the noise generating component of a PME could produce at least 10 dB(A) screening for stationary plant and 5 dB(A) for mobile plant provided the direct line of sight between the PME and the NSRs is blocked. | ~ | × | | ~ | × | √ | |
| 3.1 & 10.4.1 | Use of Noise Enclosure/ Acoustic Shed The use of noise enclosure or acoustic shed is to cover stationary PME such as air compressor and concrete pump. With the adoption of the noise enclosure, the PME could be completely screened, and noise reduction of 15 dB(A) can be achieved according to the EIAO Guidance Note No. 9/2010. | ~ | V | | ~ | ~ | ✓ | |
| 3.1 & 10.4.1 | Use of Noise Insulating Fabric Noise insulating fabric can also be adopted for certain PME (e.g. drill rig, pilling machine etc). The fabric should be lapped such that there are no openings or gaps on the joints. According to the approved Tsim Sha Tsui Station Northern Subway EIA report (AEIAR-127/2008), a noise reduction of 10 dB(A) can be achieved for the PME lapped with the noise insulating fabric. | Obs | V | | ~ | ✓ | ~ | |
| 3.1 & 10.4.1 | Scheduling of Construction Works outside School Examination Periods During construction phase, the contractor should liaise with the educational institutions (including NSRs LCS and CRGPS) to obtain the examination schedule and avoid the noisy construction activities during school examination periods. | N/A | N/A | | N/A | N/A | N/A | |
| Water Qu | uality Impact (Construction) | | | | | | | |
| 4.1 & 10.5.1 | Construction site runoff and drainage The site practices outlined in ProPECC Note PN 1/94 should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. The following measures are recommended to protect water quality and sensitive uses | | | | | | | |

of the coastal area, and when properly implemented should be sufficient to adequately control site discharges so as to avoid water quality impacts:

| | | | | Implementa | ation Stage | | |
|------|--|------|------|------------|-------------|--------------|--------------|
| | | | L1 | | | L2 | |
| EM&A | Recommendation Measures | Мау | Jun | Jul^ | Мау | Jun | Jul |
| Ref. | | 2021 | 2021 | 2021 | 2021 | 2021 | 2021 |
| | 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; | V | ~ | | ~ | ~ | ✓ |
| | 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. | Obs | 4 | | ~ | ~ | ~ |
| | 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. | Rem | ✓ | | Rem | Obs | ~ |
| | Measures should be taken to minimize the ingress of site drainage into excavations. If excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from foundation excavations should be discharged into storm drains via silt removal facilities. | ~ | ✓ | | ✓ | \checkmark | ~ |
| | 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. | ~ | ~ | | V | ~ | ~ |
| | 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. | ✓ | ~ | | ✓ | ✓ | \checkmark |

| | | Implementation Stage | | | | | | |
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| | | | L1 | | | L2 | | |
| EM&A | Recommendation Measures | Мау | Jun | Jul^ | Мау | Jun | Jul | |
| Ref. | | 2021 | 2021 | 2021 | 2021 | 2021 | 2021 | |
| | 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. | √ | ~ | | V | ¥ | Ý | |
| | 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. | V | ✓ | | ~ | ~ | ~ | |
| | Bentonite slurries used in piling or slurry walling should be reconditioned and reused wherever practicable. Temporary enclosed storage locations should be provided on-site for any unused bentonite that needs to be transported away after all the related construction activities are completed. The requirements in ProPECC Note PN 1/94 should be adhered to in the handling and disposal of bentonite slurries. | N/A | N/A | | N/A | N/A | N/A | |
| | Barging facilities and activities | | | | | | | |
| | Recommendations for good site practices during operation of the proposed barging point include: | | | | | | | |
| | All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; | N/A | N/A | | N/A | N/A | N/A | |
| | 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; | N/A | N/A | | N/A | N/A | N/A | |
| | All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; and | N/A | N/A | | N/A | N/A | N/A | |
| | 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 | N/A | | N/A | N/A | N/A | |
| 4.1 & | Sewage effluent from construction workforce | | | | | | | |
| 10.5.1 | 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. | √ | 1 | | ~ | V | ✓ | |
| | Concrel construction activities | | | | | | | |

General construction activities

| | | | | Implementa | ation Stage | | |
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| | | | L1 | | | L2 | |
| EM&A | Recommendation Measures | May | Jun | Jul^ | Мау | Jun | Jul |
| Ref. | | 2021 | 2021 | 2021 | 2021 | 2021 | 2021 |
| 4.1 & 10.5.1 | 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. | ✓ | ¥ | | ~ | Ý | 1 |
| | 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. | V | Obs | | Obs | Obs | Obs |
| Waste Ma | anagement Implications (Construction) | | | | | | |
| 6.1 & | Good Site Practices | | | | | | |
| 10.7.1 | 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 | ✓ | Obs | | \checkmark | Obs | Obs |
| | Training of site personnel in proper waste management and chemical handling procedures | ✓ | ✓ | | \checkmark | \checkmark | \checkmark |
| | Provision of sufficient waste disposal points and regular collection of waste | \checkmark | \checkmark | | Obs | \checkmark | \checkmark |
| | Appropriate measures to minimise windblown litter and dust/odour during transportation of waste by either covering trucks or by transporting wastes in enclosed containers | \checkmark | \checkmark | | \checkmark | \checkmark | √ |
| | Provision of wheel washing facilities before the trucks leaving the works area so as to minimise dust introduction to public roads | \checkmark | \checkmark | | \checkmark | ~ | \checkmark |
| | 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 | ✓ | \checkmark | | ✓ | ~ | \checkmark |
| 6.1 & | Waste Reduction Measures | | | | | | |
| 10.7.1 | Recommendations to achieve waste reduction include: | | | | | | |
| | Sort inert C&D material to recover any recyclable portions such as metals | \checkmark | \checkmark | | \checkmark | \checkmark | \checkmark |
| | Segregation and storage of different types of waste in different containers or skips to enhance reuse or recycling of materials and their proper disposal | Rem | Obs | | \checkmark | \checkmark | \checkmark |
| | 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 | ✓ | √ | | \checkmark | \checkmark | √ |

| | | Implementation Stage | | | | | | |
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| | | | L1 | | | L2 | | |
| EM&A Ref. | Recommendation Measures | Мау | Jun 2021 | Jul^ | Мау | Jun | Jul | |
| | Proper site practices to minimise the potential for damage or contamination of inert C&D materials | 2021 ✓ | <u>2021</u> ✓ | 2021 | 2021 ✓ | 2021 ✓ | 2021 ✓ | |
| | Plan the use of construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of wastes | \checkmark | \checkmark | | \checkmark | \checkmark | \checkmark | |
| 6.1 & | Inert and Non-inert C&D Materials | | | | | | | |
| 10.7.1 | 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. | \checkmark | V | | V | ✓ | ✓ | |
| | The surplus inert C&D material will be disposed of at the Government's PFRFs for beneficial use by other projects in Hong Kong. | \checkmark | \checkmark | | \checkmark | \checkmark | \checkmark | |
| | 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. | ~ | V | | \checkmark | V | ✓ | |
| | 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. | ✓ | ¥ | | V | V | ✓ | |
| | 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. | ~ | ~ | | ~ | ~ | ~ | |

| | | | | Implement | ation Stage | | |
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| EM&A | Recommendation Measures | Мау | Jun | Jul^ | Мау | Jun | Jul |
| Ref. | | 2021 | 2021 | 2021 | 2021 | 2021 | 2021 |
| 6.1 & 10.7.1 | Chemical Waste If chemical wastes are produced at the construction site, the Contractor will be required to register with the EPD as a chemical waste producer and to follow the guidelines stated in the "Code of Practice on the Packaging Labelling and Storage of Chemical Wastes". Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor should use a licensed collector to transport and dispose of the chemical waste) (General) Regulation. Potential environmental impacts arising from the handling activities (including storage, collection, transportation and disposal of chemical waste) are | • | • | | ✓ | Obs ✓ | Obs |
| 6.1 & | expected to be minimal with the implementation of appropriate mitigation measures as recommended. General Refuse | | | | | | |
| 10.7.1 | 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. | ~ | ~ | | ✓ | 1 | ~ |
| Land Con | tamination (Construction) | | | | | | |
| 7.1 & 10.8.1 | The potential for land contamination issues at the TST Fire Station due to its future relocation will be confirmed by site investigation after land acquisition. Where necessary, mitigation measures for minimising potential exposure to contaminated materials (if any) or remediation measures will be identified. If contaminated land is identified (e.g., during decommissioning of fuel oil storage tanks) after the commencement of works, mitigation measures are proposed in order to minimise the potentially adverse effects on the health and safety of construction workers and impacts arising from the disposal of potentially contaminated materials. The following measures are proposed for excavation and transportation of contaminated material: | | | | | | |

| | | | | Implement | ation Stage | | |
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| | | | L1 | | | L2 | |
| EM&A | Recommendation Measures | Мау | Jun | Jul^ | Мау | Jun | Jul |
| Ref. | | 2021 | 2021 | 2021 | 2021 | 2021 | 2021 |
| | 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 | N/A | | N/A | N/A | N/A |
| | Contact with contaminated materials can be minimised by wearing appropriate clothing and personal protective equipment such as gloves and masks (especially when interacting directly with contaminated material), provision of washing facilities and prohibition of smoking and eating on site; | N/A | N/A | | N/A | N/A | N/A |
| | Stockpiling of contaminated excavated materials on site should be avoided as far as possible; | N/A | N/A | | N/A | N/A | N/A |
| | The use of contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out; | N/A | N/A | | N/A | N/A | N/A |
| | Vehicles containing any contaminated excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater; | N/A | N/A | | N/A | N/A | N/A |
| | Truck bodies and tailgates should be sealed to stop any discharge; | N/A | N/A | | N/A | N/A | N/A |
| | Only licensed waste haulers should be used to collect and transport contaminated material to treatment/disposal site and should be equipped with tracking system to avoid fly tipping; | N/A | N/A | | N/A | N/A | N/A |
| | • Speed control for trucks carrying contaminated materials should be exercised; | N/A | N/A | | N/A | N/A | N/A |
| | Observe all relevant regulations in relation to waste handling, such as Waste Disposal Ordinance (Cap. 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap. 354) and obtain all necessary permits where required; and | N/A | N/A | | N/A | N/A | N/A |
| | Maintain records of waste generation and disposal quantities and disposal arrangements. | N/A | N/A | | N/A | N/A | N/A |
| Ecologica | I Impact (Construction) | | | | | | |
| | No mitigation measure is required. | | | | | | |
| Landscap | e 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. | ~ | V | | \checkmark | ✓ | ✓ |

| | | | | Implementa | ation Stage | | |
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| | | | L1 | | | L2 | |
| EM&A | Recommendation Measures | Мау | Jun | Jul^ | Мау | Jun | Jul |
| Ref. | | 2021 | 2021 | 2021 | 2021 | 2021 | 202 |
| 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 | N/A | | N/A | N/A | N/A |
| Table 9.1 & 10.8 (CM3) | Buffer trees for screening purposes to soften the hard architectural and engineering structures and facilities. | N/A | N/A | | N/A | N/A | N/A |
| 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 | N/A | | N/A | N/A | N/A |
| 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 | N/A | | N/A | N/A | N/A |
| Table 9.1 & 10.8 (CM6) | Sensitive streetscape design should be incorporated along all new roads and streets. | N/A | N/A | | N/A | N/A | N/A |
| Table 9.1 & 10.8 (CM7) | Structure, ornamental planting shall be provided along amenity strips to enhance the landscape quality. | N/A | N/A | | N/A | N/A | N/A |
| 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 | N/A | | N/A | N/A | N/ <i>F</i> |
| 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 | N/A | | N/A | N/A | N/A |
| 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 | N/A | | N/A | N/A | N/A |
| Table 9.2 & 10.9 (MCP3) | Adoption of light colour for the temporary ventilation shafts for the basement during the transition period. | N/A | N/A | | N/A | N/A | N/A |
| Table 9.2 & 10.9 (MCP4) | Control of night time lighting | \checkmark | V | | \checkmark | \checkmark | ~ |

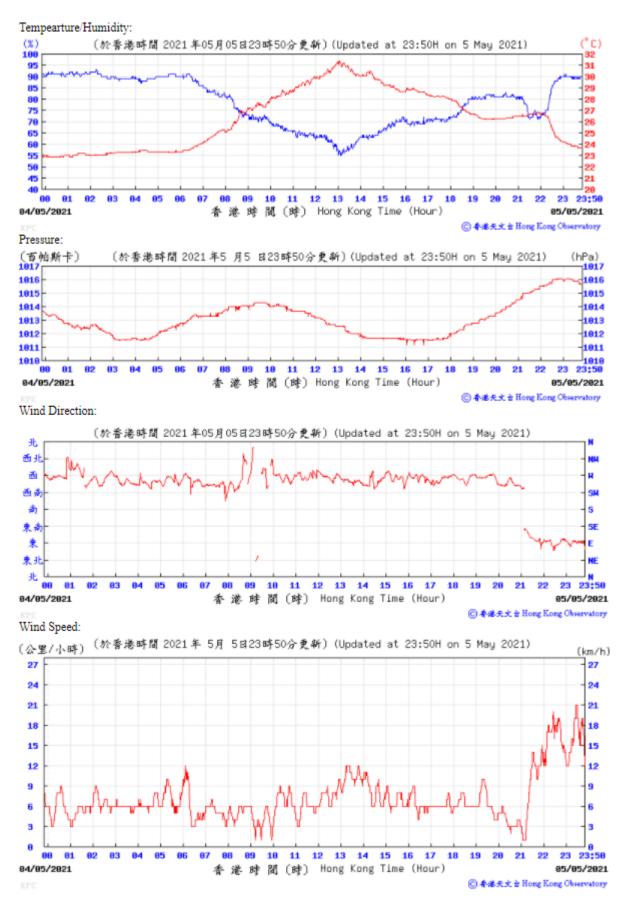
| | | Implementation Stage | | | | | |
|-------------------------------|--|----------------------|------|------|------|------|------|
| | | | L1 | | | L2 | |
| EM&A Ref. | Recommendation Measures | Мау | Jun | Jul^ | Мау | Jun | Jul |
| | | 2021 | 2021 | 2021 | 2021 | 2021 | 2021 |
| Table 9.2 & 10.9 (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 | N/A | | N/A | N/A | N/A |

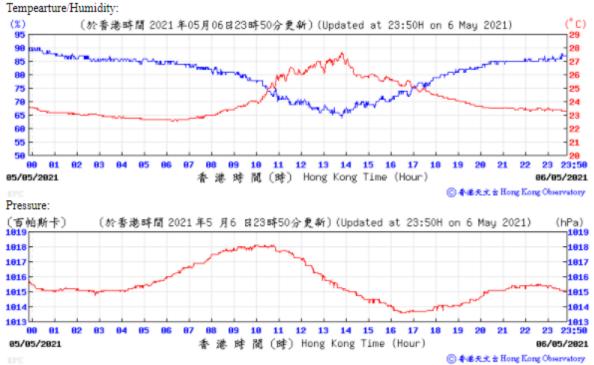
| N/A | - | Not Applicable |
|-----|---|----------------|
| ✓ | • | Implemented |
| Obs | - | Observed |
| Rem | - | Reminder |

Remarks: ^ EM&A Programme of Lyric Theatre Complex (L1 Contract) ended on 30 June 2021

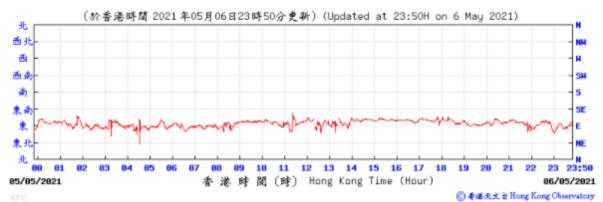
D. Meteorological Data Extracted from Hong Kong Observatory

Table D-1: Extract of Meteorological Observations for King's Park Automatic Weather Station in the reporting quarter

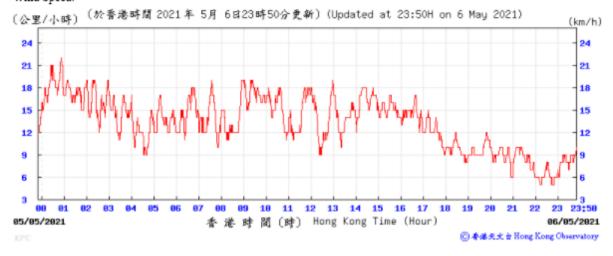


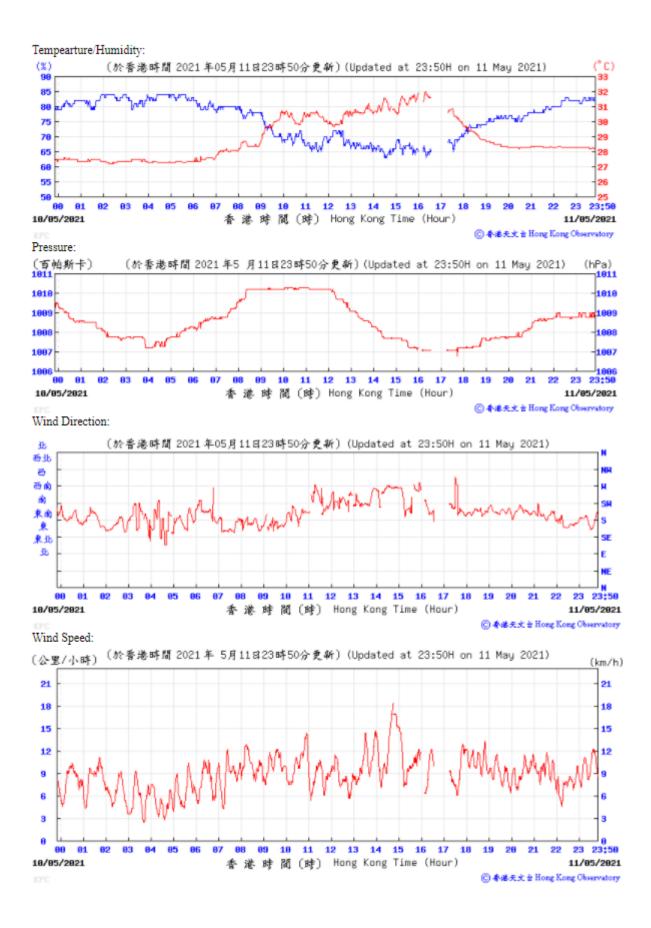


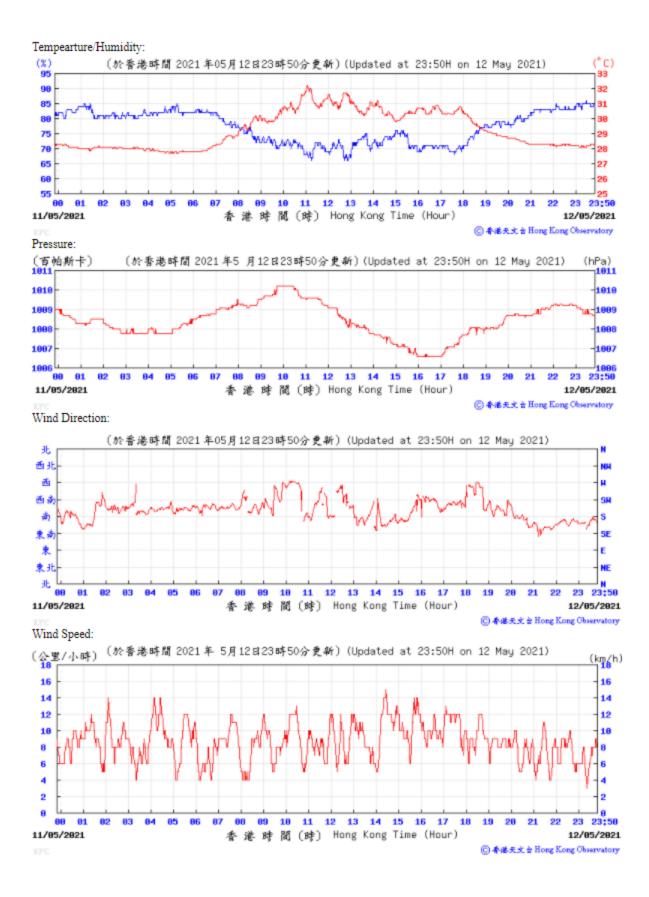
Wind Direction:

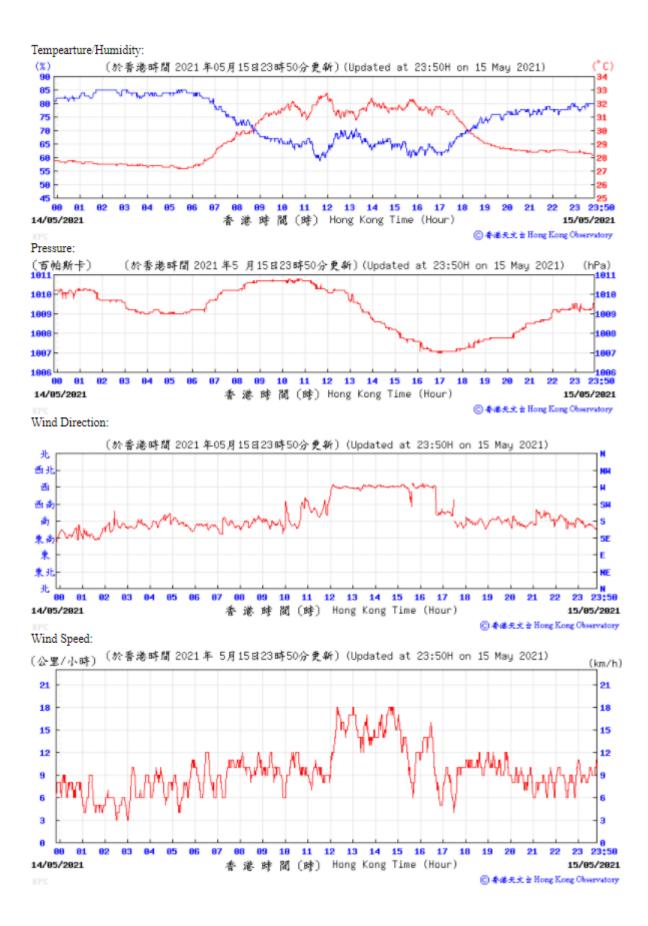


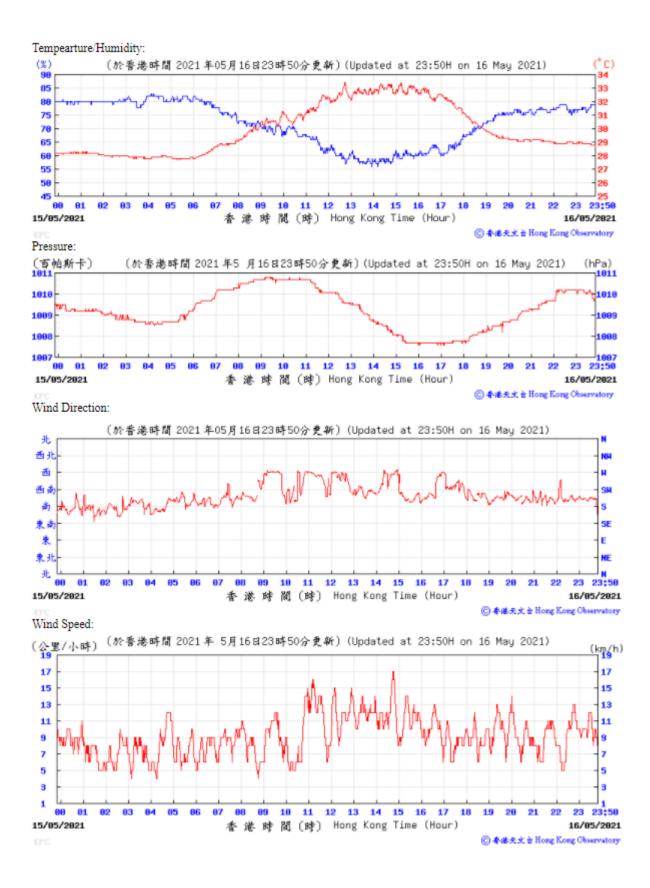
Wind Speed:

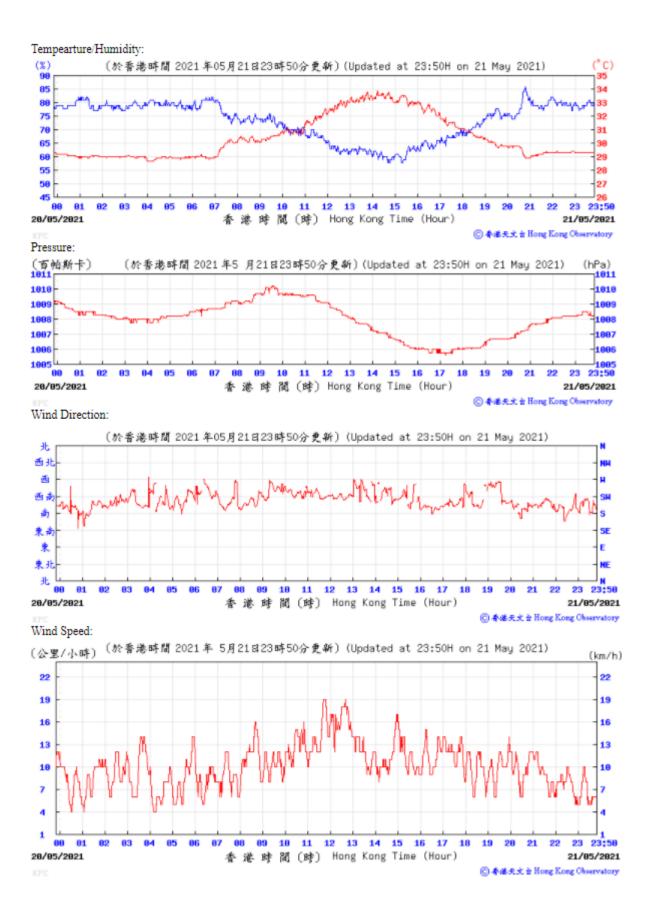


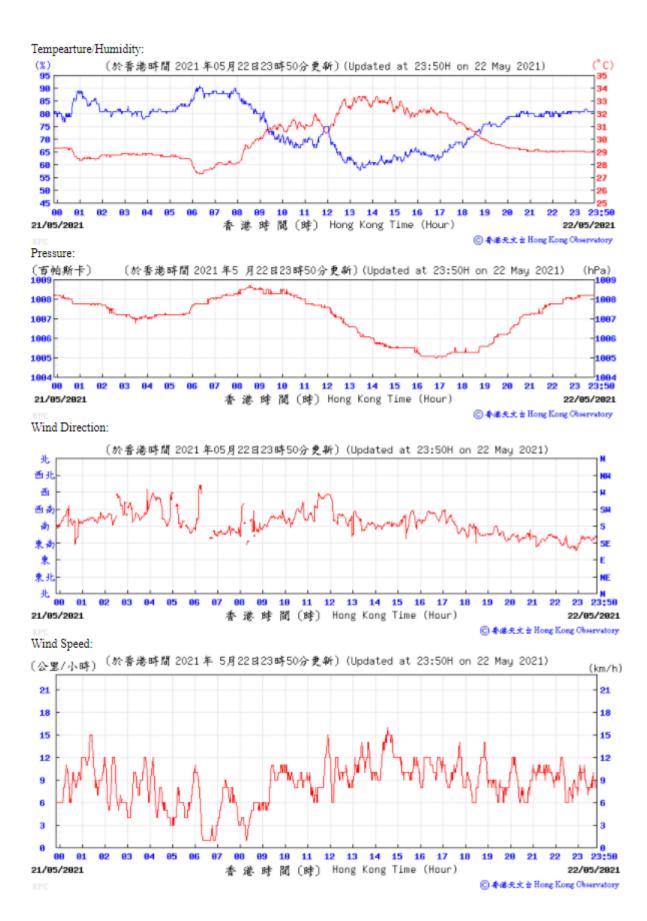


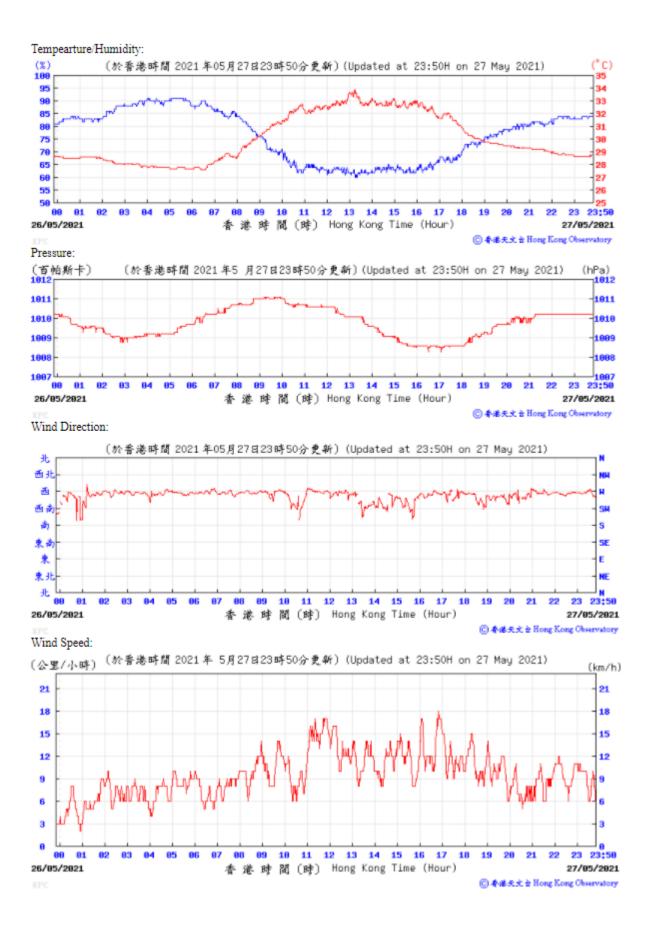


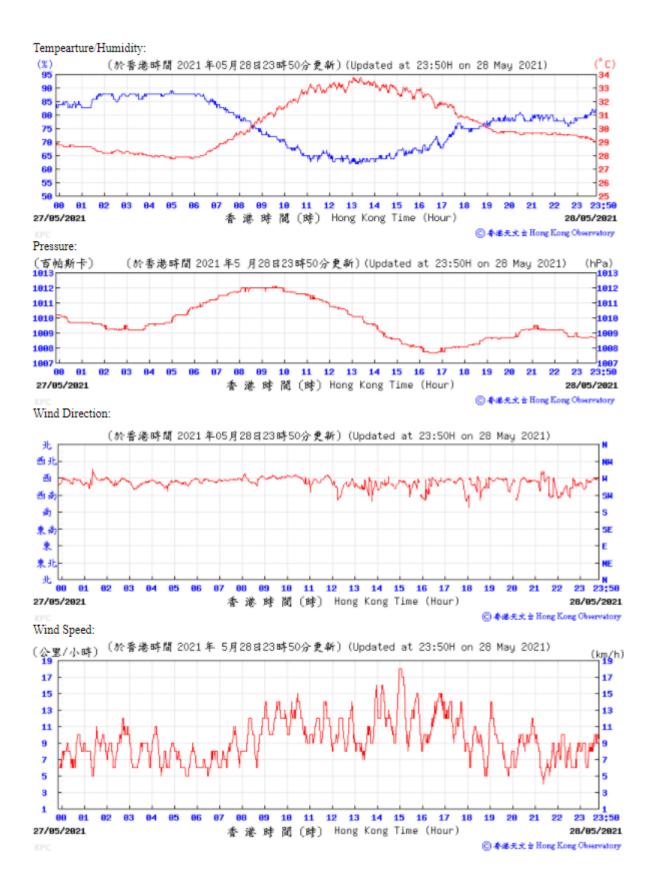


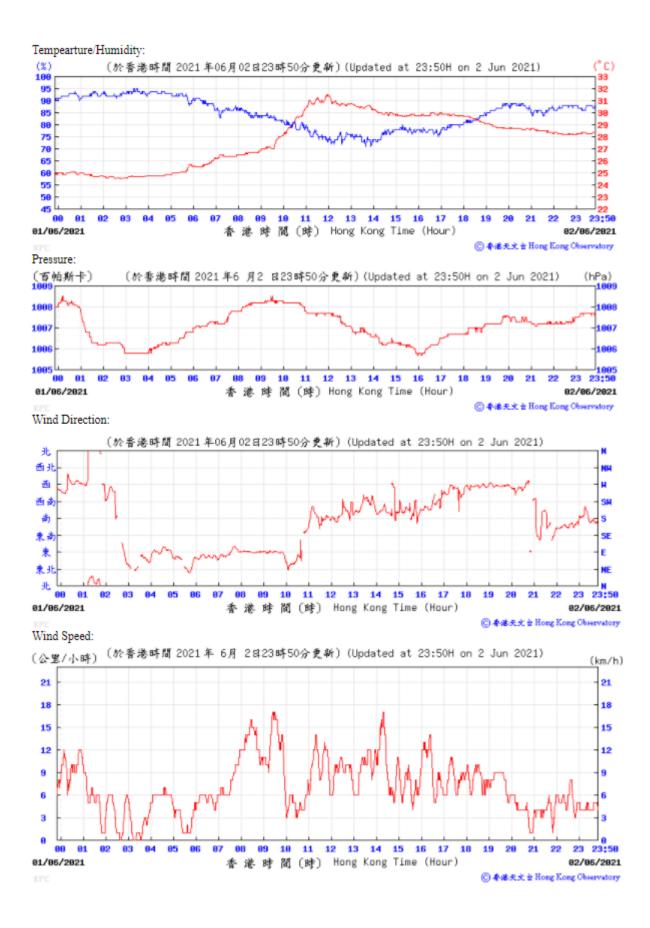


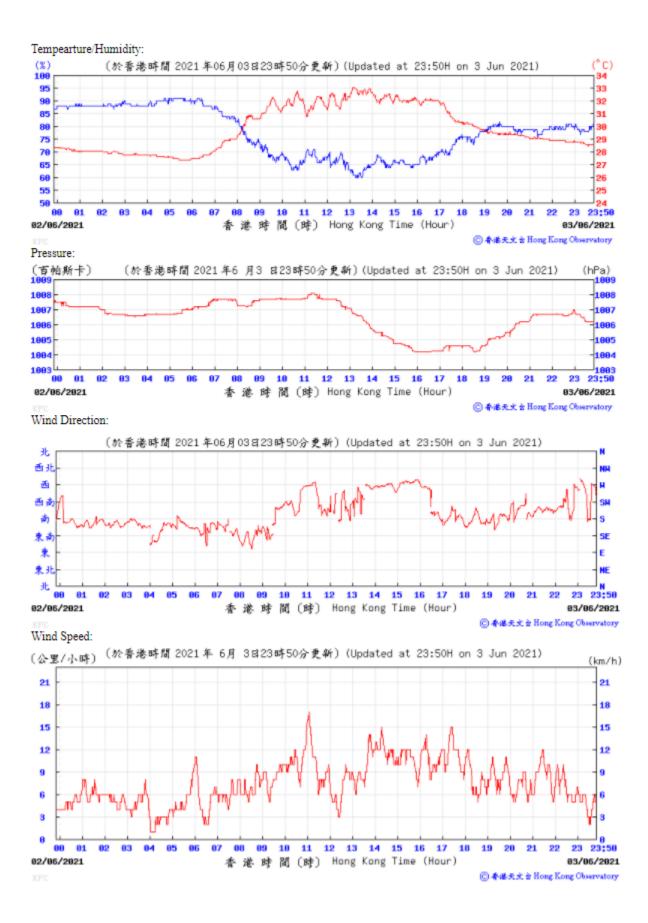


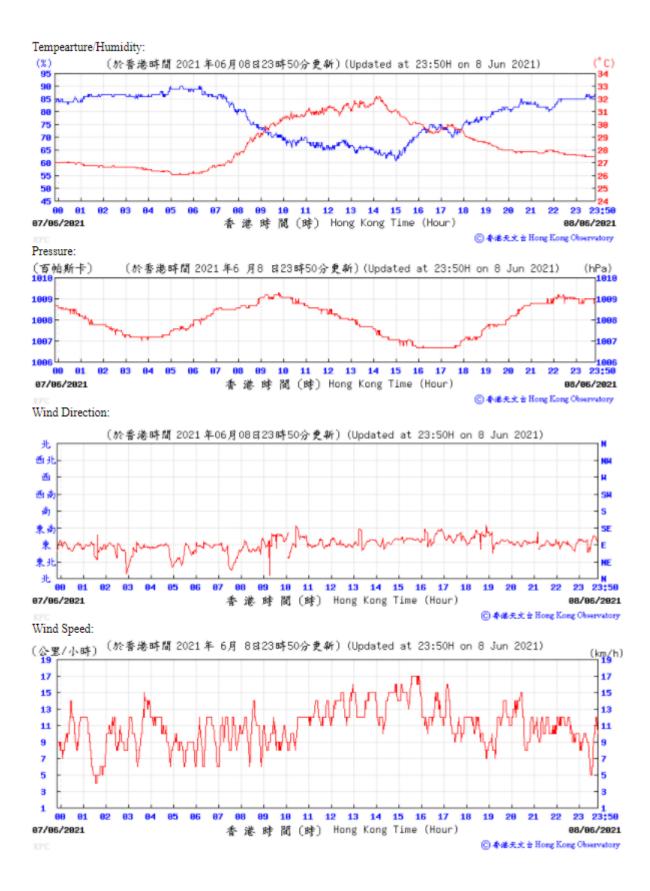


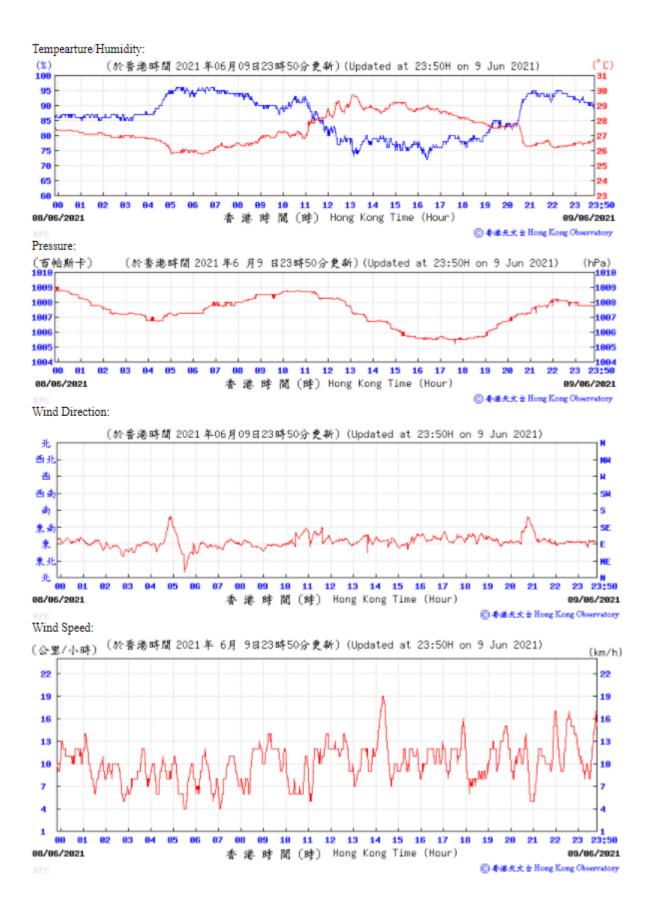


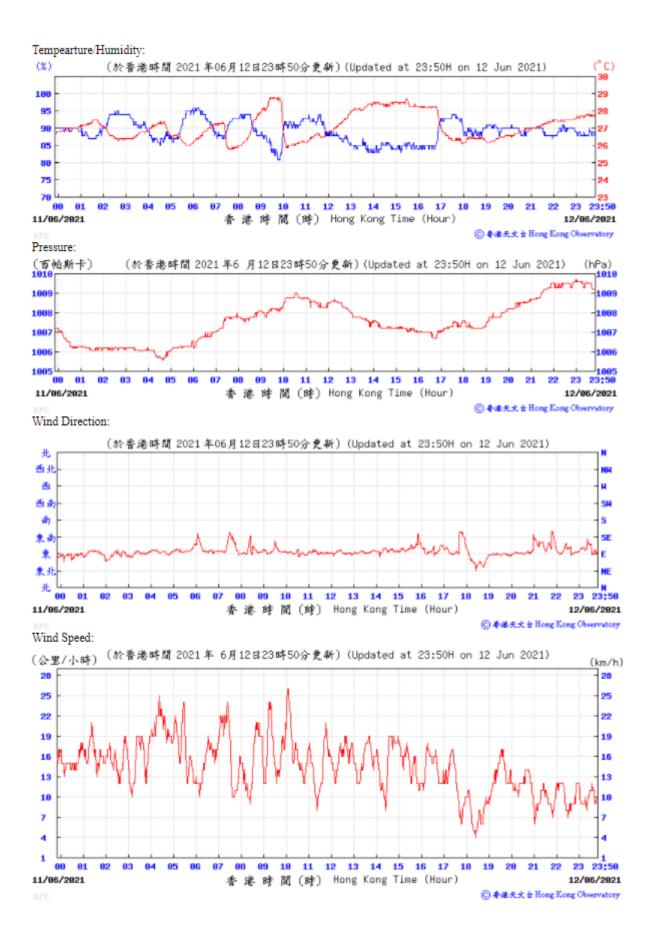


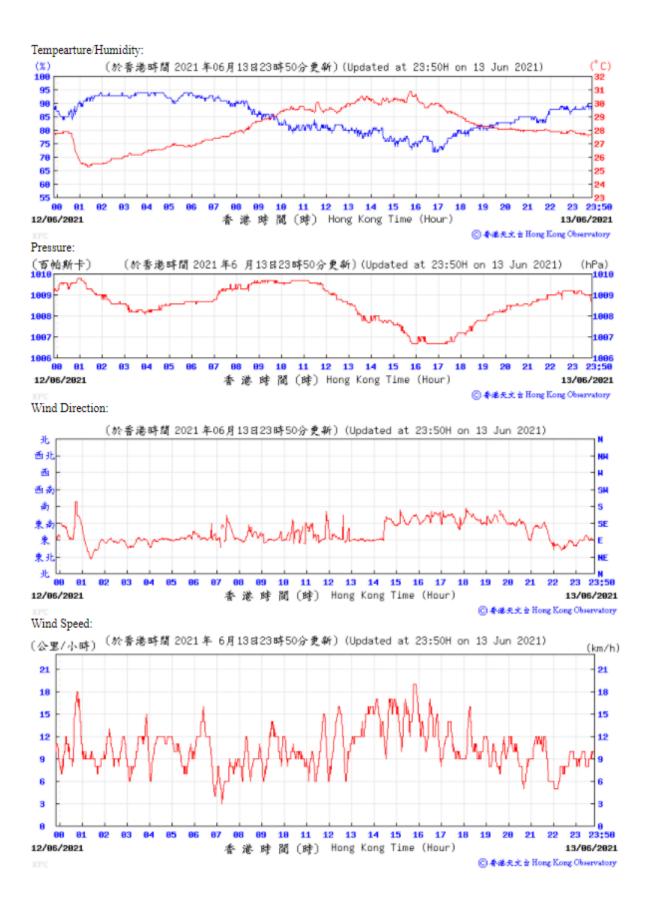


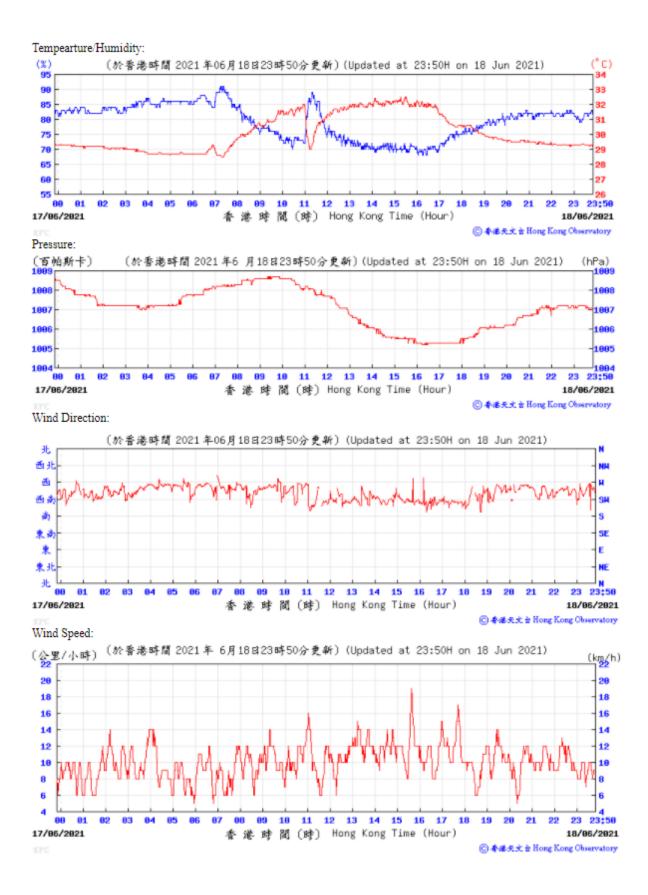


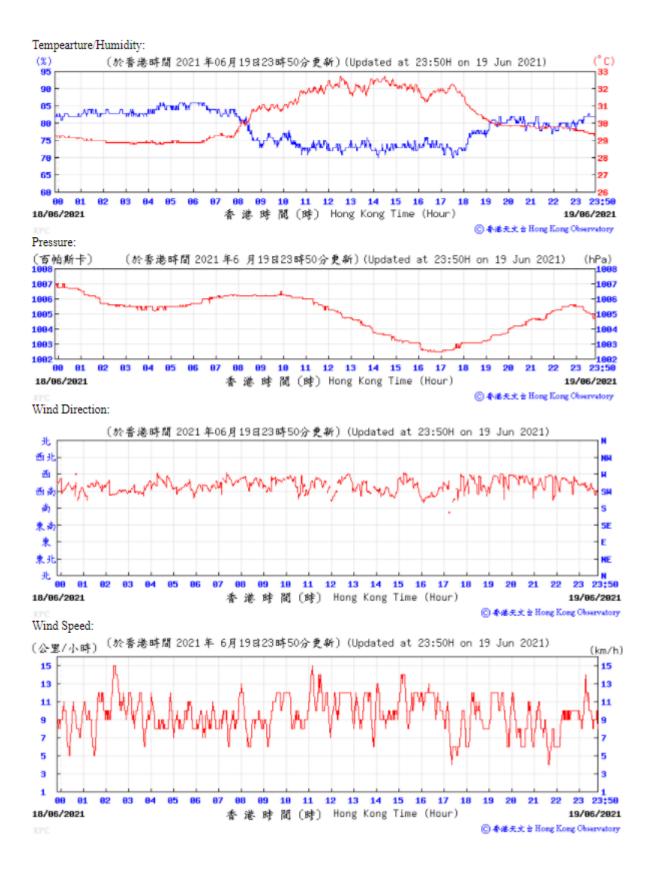


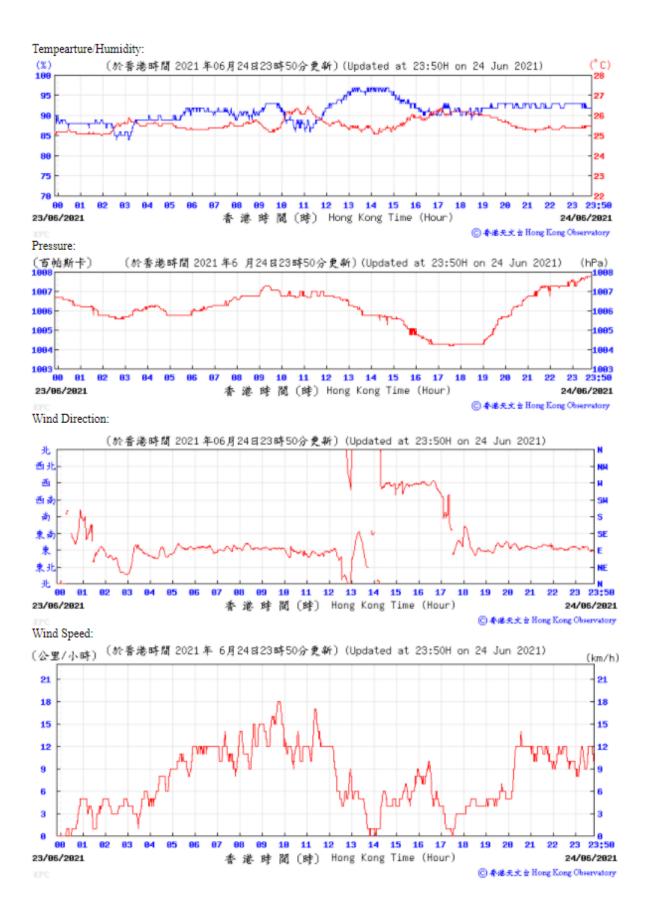


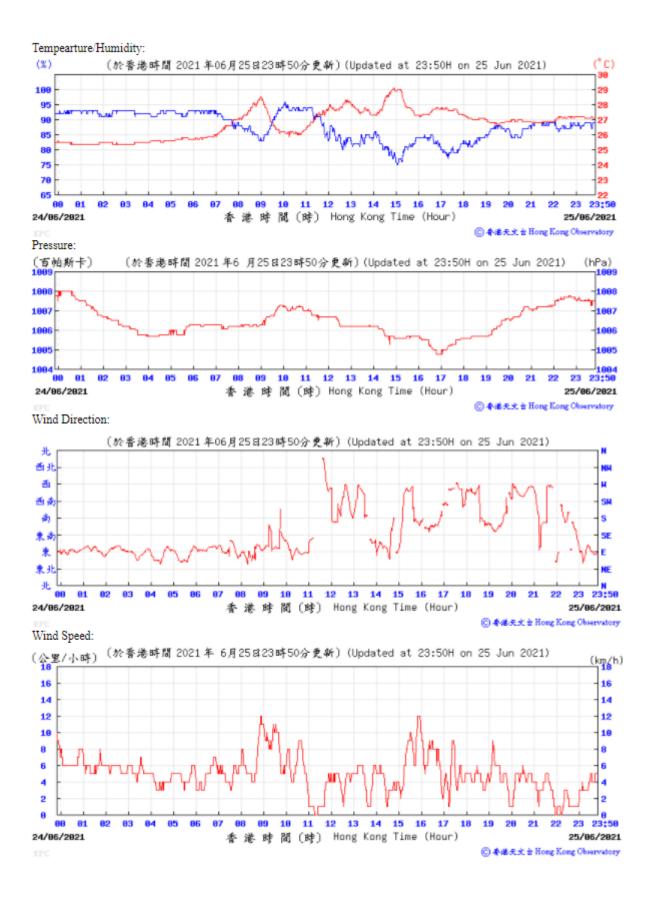


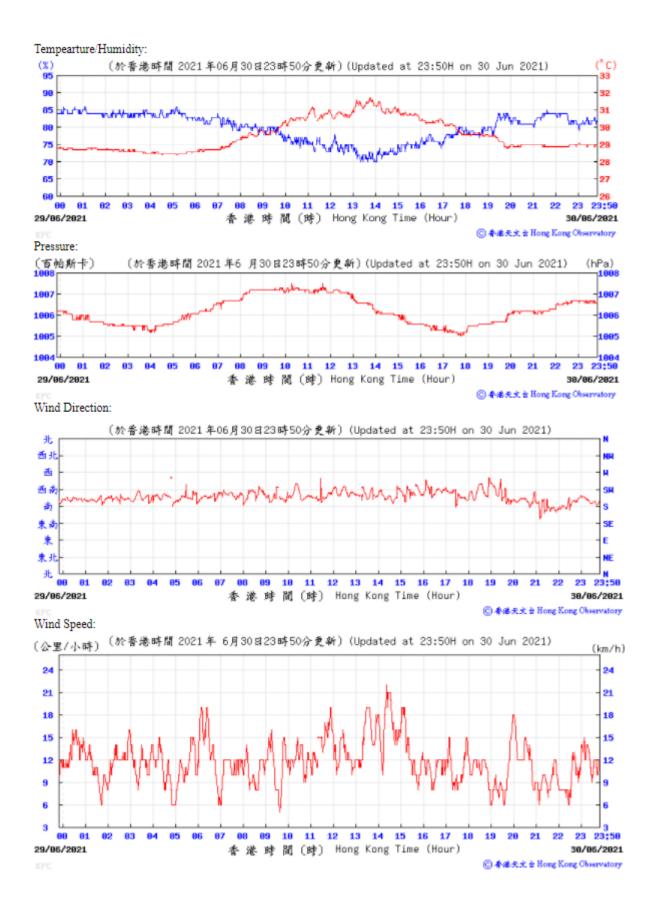


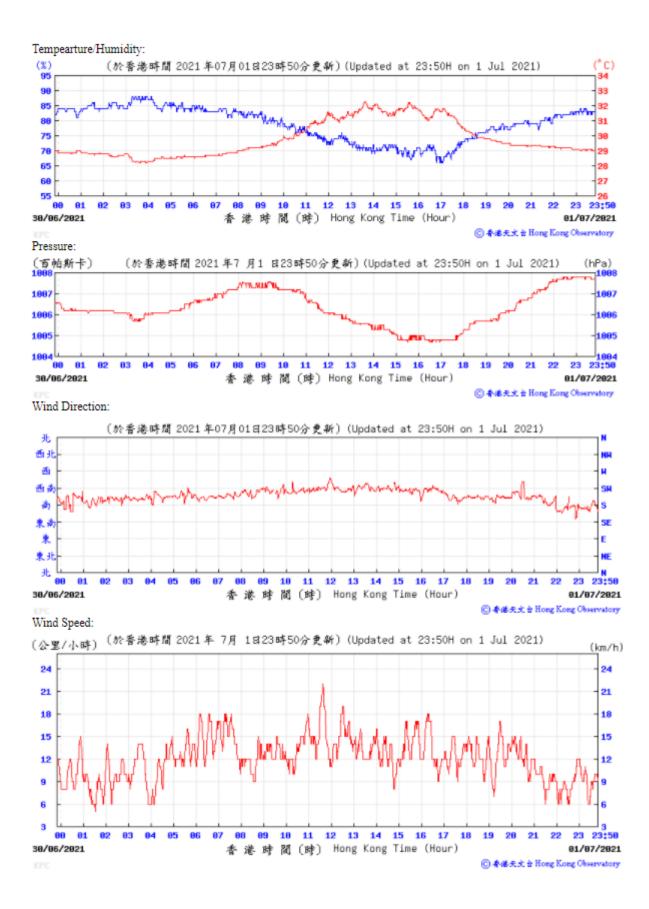


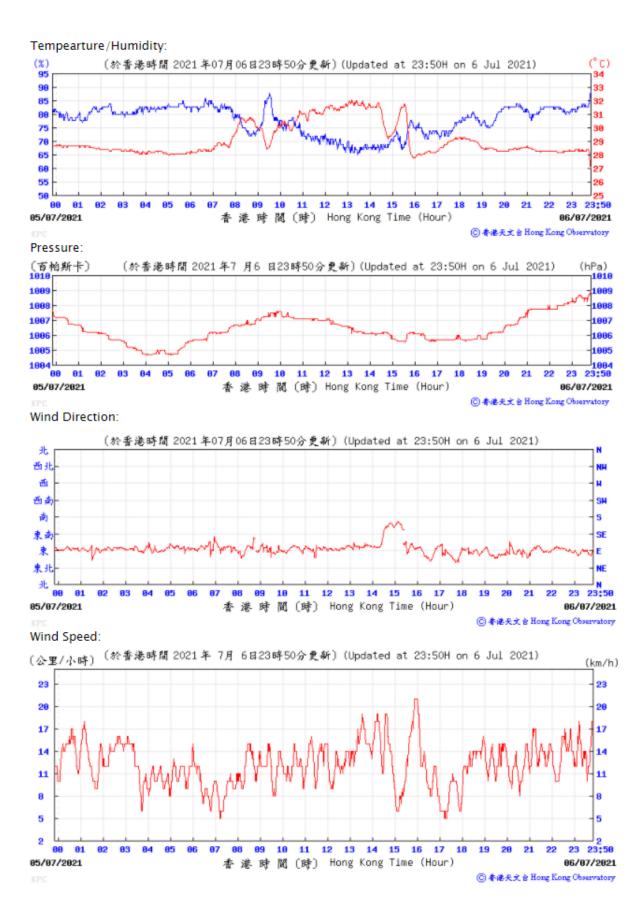


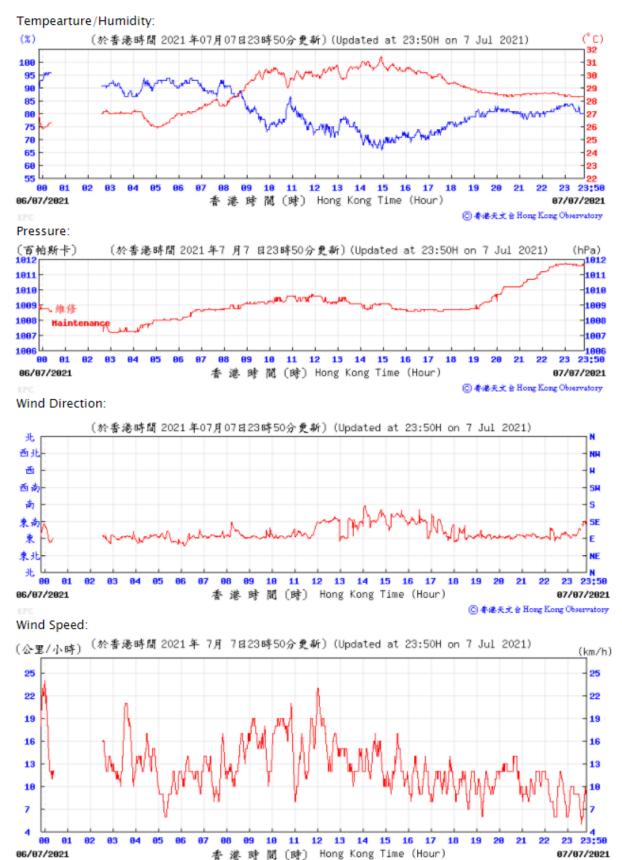




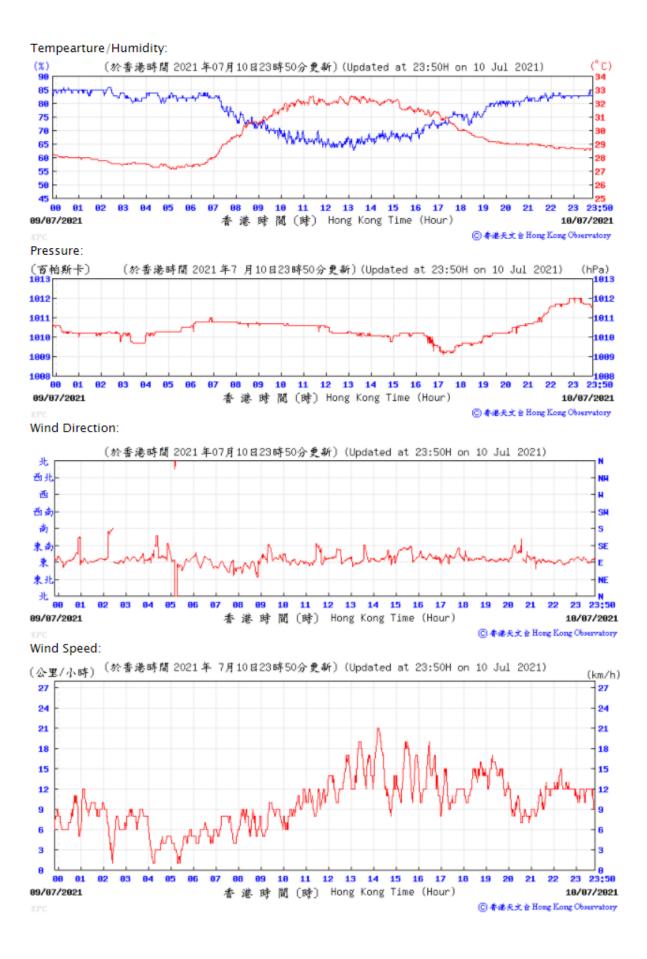


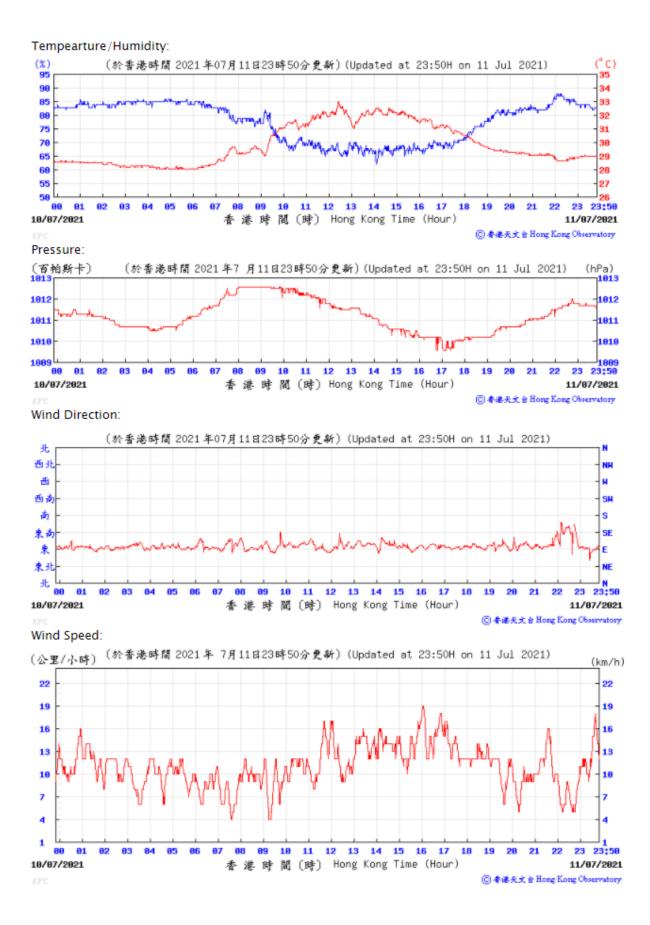


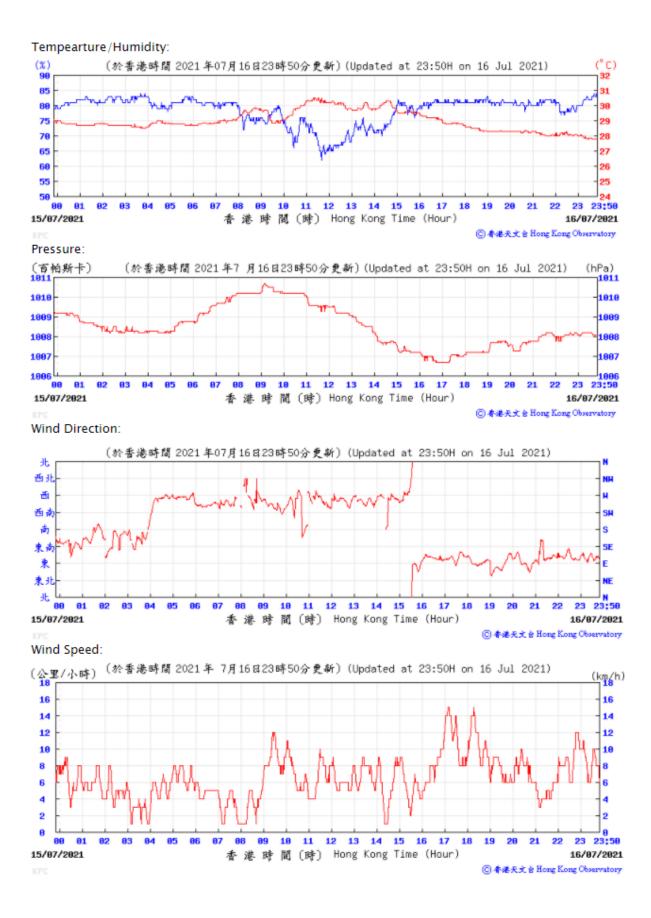


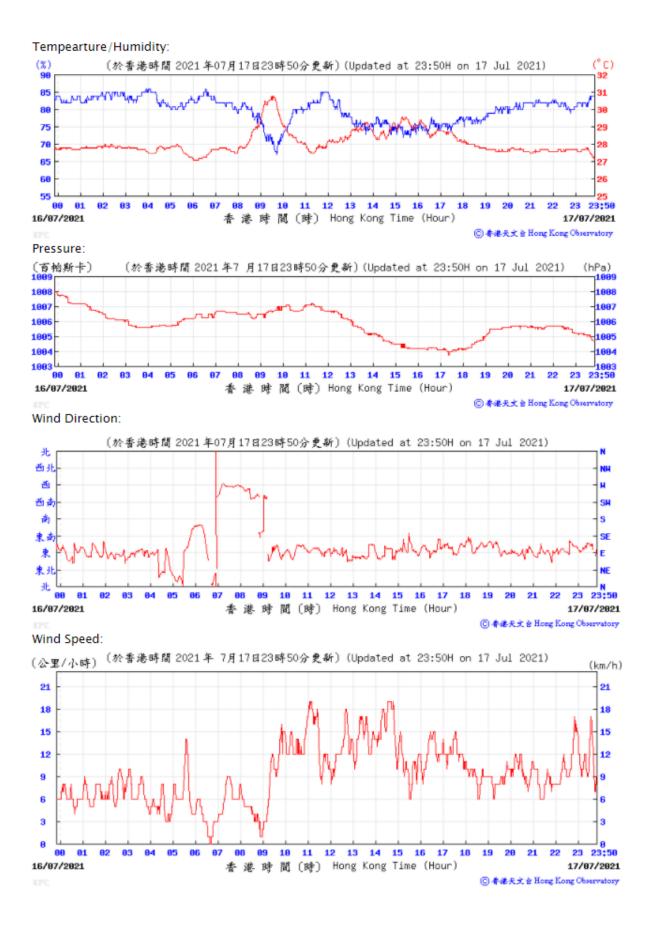


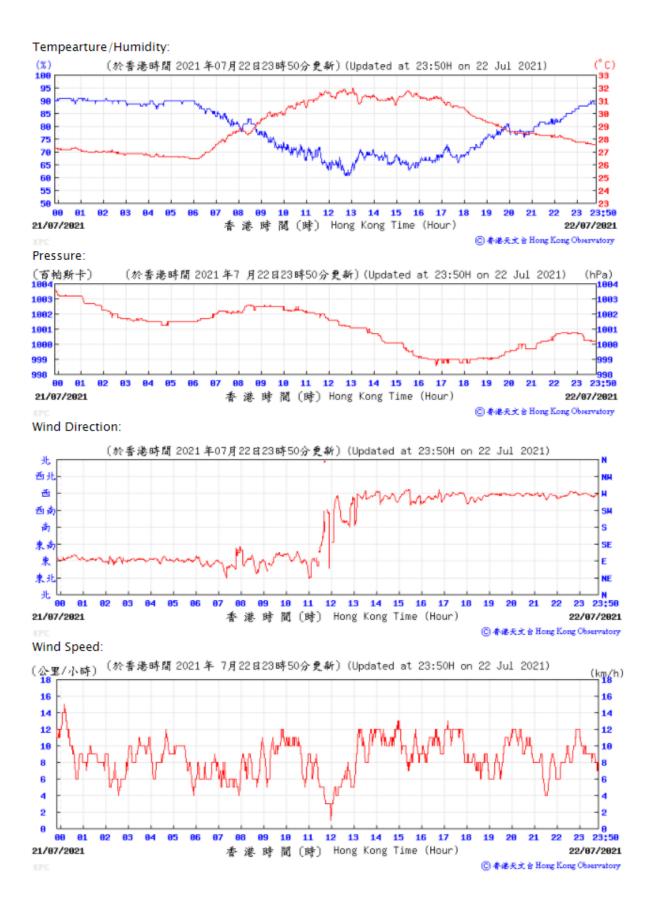
⑥ 春递失文 台 Hong Kong Observatory

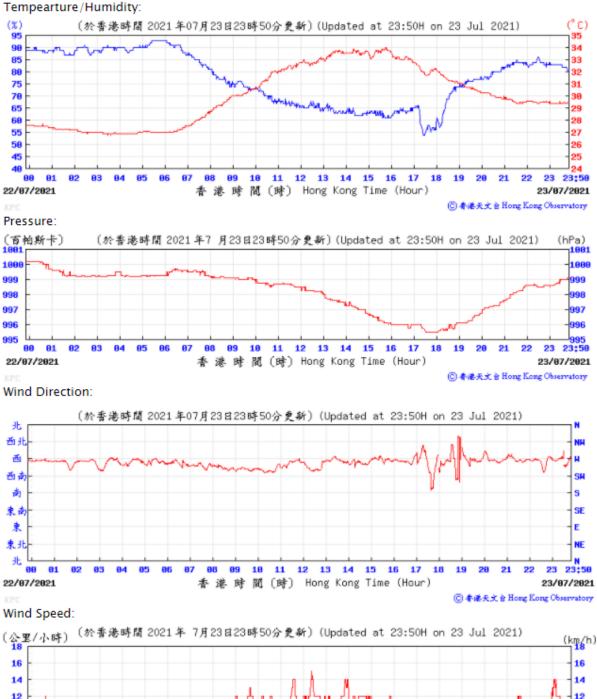


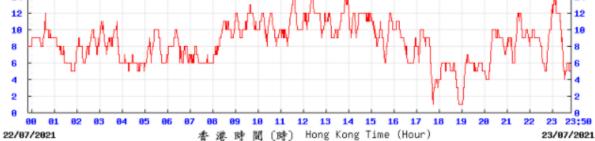








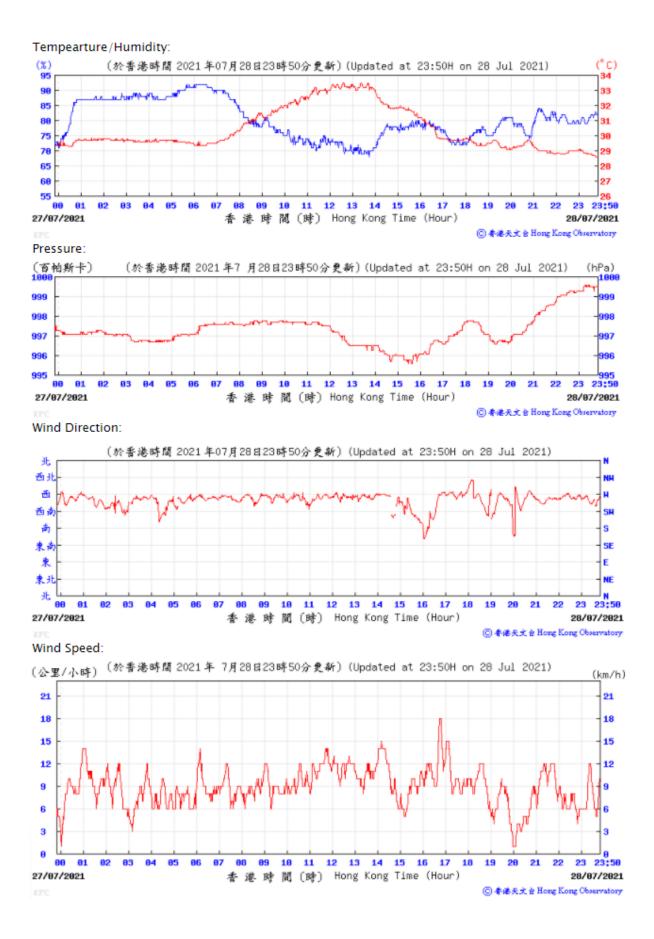


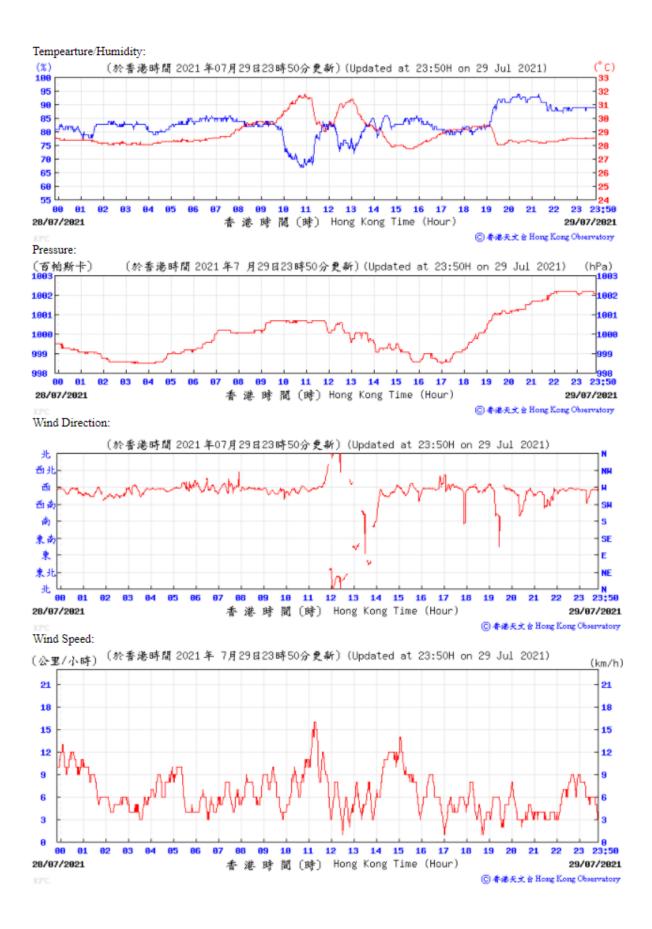


ⓒ 春递天文 含 Hong Kong Observatory

Development at West Kowloon Cultural District

Quarterly Environmental Monitoring and Audit (EM&A) Report (May-July 2021)

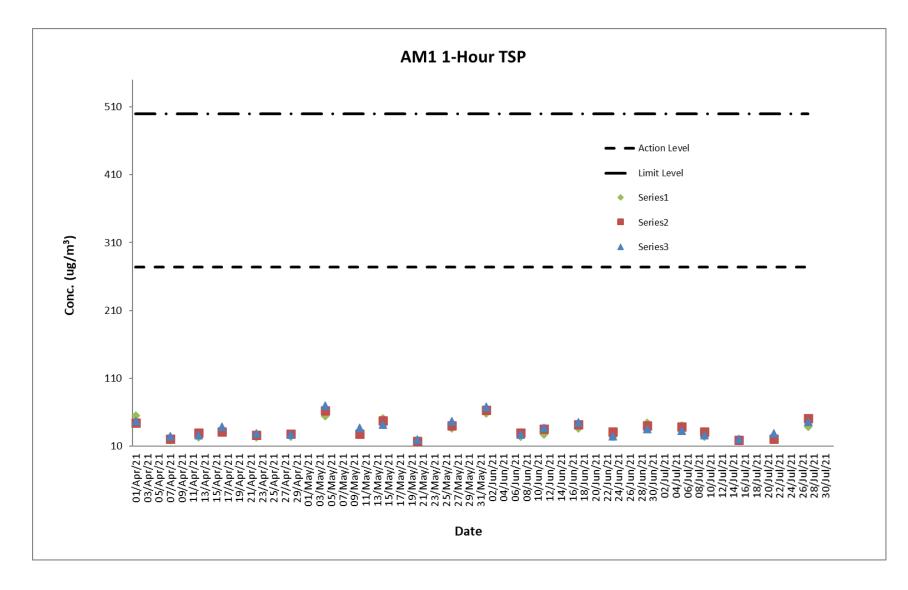




E. Graphical Plots of the Monitoring Results

| | Weather | | Conc. (µg/m ³) | | | Action Level | Limit Level |
|-----------|-----------|--------------|----------------------------|----------------------|----------------------|--------------|-------------|
| Date | Condition | Time | 1 st Hour | 2 nd Hour | 3 rd Hour | (µg/m3) | (µg/m³) |
| 04-May-21 | Cloudy | 8:32 - 11:32 | 54 | 62 | 70 | 273.7 | 500 |
| 10-May-21 | Fine | 8:22 - 11:22 | 31 | 28 | 37 | 273.7 | 500 |
| 14-May-21 | Cloudy | 8:32 - 11:32 | 51 | 48 | 42 | 273.7 | 500 |
| 20-May-21 | Cloudy | 8:20 - 11:20 | 19 | 17 | 20 | 273.7 | 500 |
| 26-May-21 | Fine | 8:32 - 11:32 | 36 | 40 | 47 | 273.7 | 500 |
| 01-Jun-21 | Cloudy | 8:32 - 11:32 | 58 | 63 | 68 | 273.7 | 500 |
| 07-Jun-21 | Cloudy | 8:34 - 11:34 | 24 | 30 | 27 | 273.7 | 500 |
| 11-Jun-21 | Fine | 8:22 - 11:22 | 27 | 35 | 37 | 273.7 | 500 |
| 17-Jun-21 | Fine | 8:32 - 11:32 | 36 | 42 | 45 | 273.7 | 500 |
| 23-Jun-21 | Cloudy | 8:22 - 11:22 | 24 | 31 | 25 | 273.7 | 500 |
| 29-Jun-21 | Cloudy | 8:32 - 11:32 | 44 | 40 | 35 | 273.7 | 500 |
| 05-Jul-21 | Cloudy | 8:32 - 11:32 | 40 | 39 | 33 | 273.7 | 500 |
| 09-Jul-21 | Sunny | 8:32 - 11:32 | 24 | 31 | 26 | 273.7 | 500 |
| 15-Jul-21 | Sunny | 8:23 - 11:23 | 17 | 19 | 21 | 273.7 | 500 |
| 21-Jul-21 | Cloudy | 8:32 - 11:32 | 24 | 21 | 29 | 273.7 | 500 |
| 27-Jul-21 | Sunny | 8:27 - 11:27 | 39 | 51 | 46 | 273.7 | 500 |

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

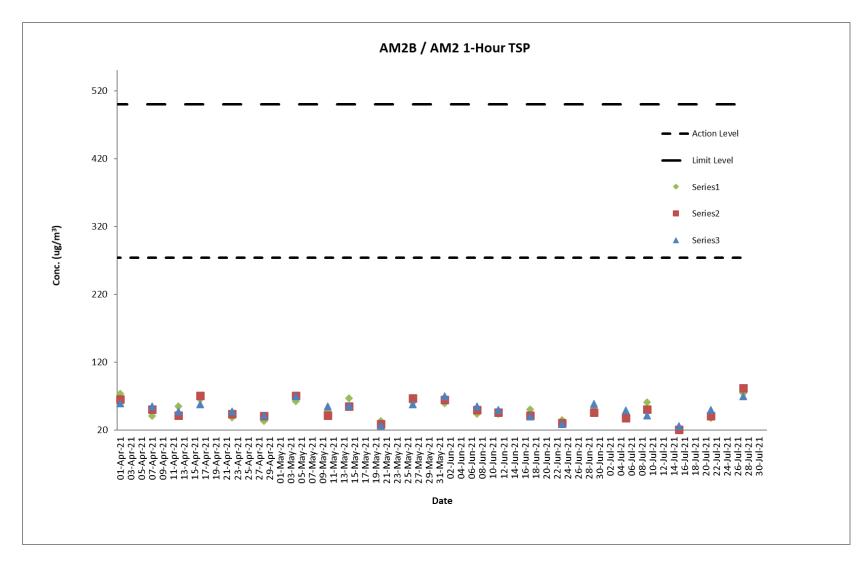


Graphical Presentation of Air Quality Monitoring Result at Station AM1 (1-hour TSP)

| | Weather | | Conc. (µg/m ³) | | | Action Level | Limit Level |
|-----------|-----------|--------------|----------------------------|----------------------|----------------------|--------------|-------------|
| Date | Condition | Time | 1 st Hour | 2 nd Hour | 3 rd Hour | (µg/m3) | (µg/m³) |
| 04-May-21 | Cloudy | 8:52 - 11:52 | 63 | 71 | 70 | 274.2 | 500 |
| 10-May-21 | Fine | 8:43 - 11:43 | 48 | 42 | 55 | 274.2 | 500 |
| 14-May-21 | Cloudy | 8:52 - 11:52 | 67 | 55 | 56 | 274.2 | 500 |
| 20-May-21 | Cloudy | 8:42 - 11:42 | 34 | 29 | 27 | 274.2 | 500 |
| 26-May-21 | Fine | 8:48 - 11:48 | 61 | 67 | 58 | 274.2 | 500 |
| 01-Jun-21 | Cloudy | 9:00 - 12:00 | 60 | 65 | 70 | 274.2 | 500 |
| 07-Jun-21 | Cloudy | 8:55 - 11:55 | 44 | 50 | 55 | 274.2 | 500 |
| 11-Jun-21 | Fine | 8:33 - 11:33 | 44 | 46 | 50 | 274.2 | 500 |
| 17-Jun-21 | Fine | 8:33 - 11:33 | 51 | 42 | 40 | 274.2 | 500 |
| 23-Jun-21 | Cloudy | 9:15 - 12:15 | 35 | 31 | 29 | 274.2 | 500 |
| 29-Jun-21 | Cloudy | 8:43 - 11:43 | 51 | 46 | 59 | 274.2 | 500 |
| 05-Jul-21 | Cloudy | 8:43 - 11:43 | 41 | 38 | 49 | 274.2 | 500 |
| 09-Jul-21 | Sunny | 8:43 - 11:43 | 61 | 51 | 42 | 274.2 | 500 |
| 15-Jul-21 | Sunny | 8:33 - 11:33 | 24 | 21 | 26 | 274.2 | 500 |
| 21-Jul-21 | Cloudy | 8:47 - 11:47 | 38 | 41 | 50 | 274.2 | 500 |
| 27-Jul-21 | Sunny | 8:37 - 11:37 | 75 | 82 | 70 | 274.2 | 500 |

Air Quality Monitoring Result at Station AM2B / AM2 (1-hour TSP)

*The air monitoring station AM2B has been relocated to the alternative monitoring station AM2 on 1 June 2021

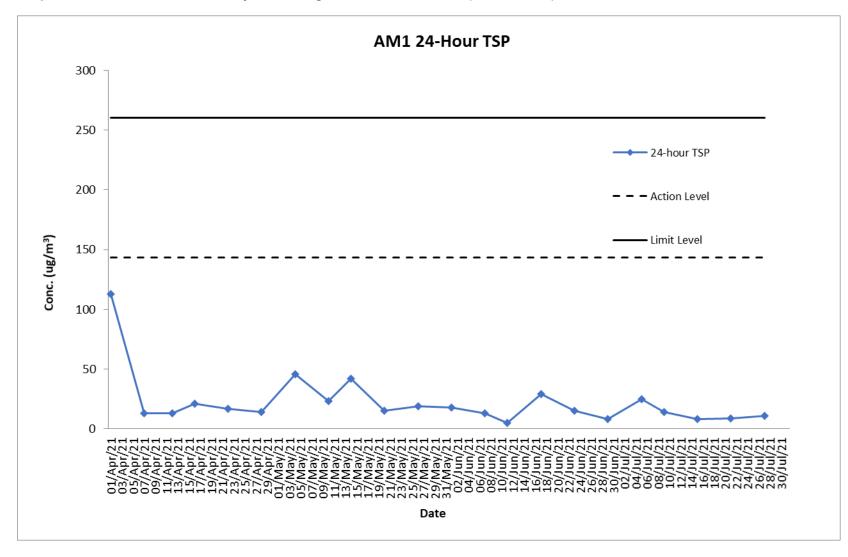


Graphical Presentation of Air Quality Monitoring Result at Station AM2B / AM2 (1-hour TSP)

*The air monitoring station AM2B has been relocated to the alternative monitoring station AM2 on 1 June 2021

| Star | rt | Finis | sh | Filter W | eight (g) | Rea | ding | Sampling | Flov | w Rate (m ³ / | min) | Conc. | Weather | Action | Limit |
|-----------|-------|-----------|-------|----------|-----------|----------|----------|------------|---------|--------------------------|---------|---------|-----------|--------|-------|
| Date | Time | Date | Time | Initial | Final | Initial | Final | Time (hrs) | Initial | Final | Average | (µg/m³) | Condition | Level | Level |
| 04-May-21 | 08:30 | 05-May-21 | 08:30 | 2.6531 | 2.7337 | 23312.38 | 23336.38 | 24 | 1.23 | 1.23 | 1.23 | 46 | Cloudy | 143.6 | 260 |
| 10-May-21 | 08:20 | 11-May-21 | 08:20 | 2.661 | 2.7025 | 23336.38 | 23360.38 | 24 | 1.23 | 1.23 | 1.23 | 23 | Fine | 143.6 | 260 |
| 14-May-21 | 08:30 | 15-May-21 | 08:30 | 2.6544 | 2.7293 | 23360.38 | 23384.38 | 24 | 1.23 | 1.23 | 1.23 | 42 | Cloudy | 143.6 | 260 |
| 20-May-21 | 08:18 | 21-May-21 | 08:18 | 2.6654 | 2.6906 | 23384.38 | 23408.38 | 24 | 1.17 | 1.17 | 1.17 | 15 | Cloudy | 143.6 | 260 |
| 26-May-21 | 08:30 | 27-May-21 | 08:30 | 2.6688 | 2.7006 | 23408.38 | 23432.38 | 24 | 1.17 | 1.17 | 1.17 | 19 | Fine | 143.6 | 260 |
| 01-Jun-21 | 08:30 | 02-Jun-21 | 08:30 | 2.6643 | 2.6944 | 23432.38 | 23456.38 | 24 | 1.17 | 1.17 | 1.17 | 18 | Rainy | 143.6 | 260 |
| 07-Jun-21 | 08:32 | 08-Jun-21 | 08:32 | 2.7363 | 2.7578 | 23456.38 | 23480.38 | 24 | 1.17 | 1.17 | 1.17 | 13 | Cloudy | 143.6 | 260 |
| 11-Jun-21 | 08:20 | 12-Jun-21 | 08:20 | 2.7484 | 2.7566 | 23480.38 | 23504.38 | 24 | 1.17 | 1.17 | 1.17 | 5 | Fine | 143.6 | 260 |
| 17-Jun-21 | 08:30 | 18-Jun-21 | 08:30 | 2.7487 | 2.7983 | 23504.38 | 23528.38 | 24 | 1.17 | 1.17 | 1.17 | 29 | Fine | 143.6 | 260 |
| 23-Jun-21 | 08:20 | 24-Jun-21 | 08:20 | 2.7345 | 2.7605 | 23528.38 | 23552.38 | 24 | 1.17 | 1.17 | 1.17 | 15 | Cloudy | 143.6 | 260 |
| 29-Jun-21 | 08:30 | 30-Jun-21 | 08:30 | 2.7297 | 2.7426 | 23552.38 | 23576.38 | 24 | 1.17 | 1.17 | 1.17 | 8 | Cloudy | 143.6 | 260 |
| 05-Jul-21 | 08:30 | 06-Jul-21 | 08:30 | 2.7443 | 2.786 | 23576.38 | 23600.38 | 24 | 1.17 | 1.17 | 1.17 | 25 | Cloudy | 143.6 | 260 |
| 09-Jul-21 | 08:30 | 10-Jul-21 | 08:30 | 2.75 | 2.7744 | 23600.38 | 23624.38 | 24 | 1.17 | 1.17 | 1.17 | 14 | Sunny | 143.6 | 260 |
| 15-Jul-21 | 08:21 | 16-Jul-21 | 08:21 | 2.7348 | 2.7483 | 23624.38 | 23648.38 | 24 | 1.17 | 1.17 | 1.17 | 8 | Sunny | 143.6 | 260 |
| 21-Jul-21 | 08:30 | 22-Jul-21 | 08:30 | 2.7469 | 2.7635 | 23648.38 | 23672.38 | 24 | 1.27 | 1.27 | 1.27 | 9 | Cloudy | 143.6 | 260 |
| 27-Jul-21 | 08:25 | 28-Jul-21 | 08:25 | 2.7526 | 2.7728 | 23672.38 | 23696.38 | 24 | 1.27 | 1.27 | 1.27 | 11 | Sunny | 143.6 | 260 |

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

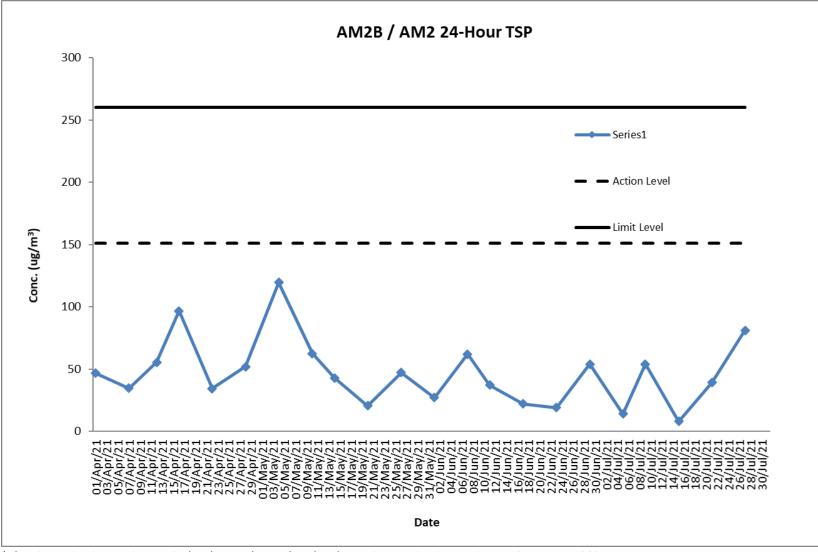


Graphical Presentation of Air Quality Monitoring Result at Station AM1 (24-hour TSP)

| Sta | rt | Finis | sh | Filter W | eight (g) | Rea | ding | Sampling | Flov | v Rate (m ³ / | min) | Conc. | Weather | Action | Limit |
|-----------|-------|-----------|-------|----------|-----------|----------|----------|------------|---------|--------------------------|---------|---------|-----------|--------|-------|
| Date | Time | Date | Time | Initial | Final | Initial | Final | Time (hrs) | Initial | Final | Average | (µg/m³) | Condition | Level | Level |
| 04-May-21 | 08:46 | 05-May-21 | 08:46 | 2.6528 | 2.8560 | 22867.05 | 22891.05 | 24 | 1.18 | 1.18 | 1.18 | 120 | Cloudy | 151.1 | 260 |
| 10-May-21 | 08:36 | 11-May-21 | 08:36 | 2.6531 | 2.7594 | 22891.05 | 22915.05 | 24 | 1.18 | 1.18 | 1.18 | 63 | Fine | 151.1 | 260 |
| 14-May-21 | 08:46 | 15-May-21 | 08:46 | 2.6662 | 2.7390 | 22915.05 | 22939.05 | 24 | 1.18 | 1.18 | 1.18 | 43 | Cloudy | 151.1 | 260 |
| 20-May-21 | 08:36 | 21-May-21 | 08:36 | 2.6648 | 2.7008 | 22939.05 | 22963.05 | 24 | 1.22 | 1.22 | 1.22 | 20 | Cloudy | 151.1 | 260 |
| 26-May-21 | 08:46 | 27-May-21 | 08:46 | 2.6637 | 2.7466 | 22963.05 | 22987.05 | 24 | 1.22 | 1.22 | 1.22 | 47 | Fine | 151.1 | 260 |
| 01-Jun-21 | 08:47 | 02-Jun-21 | 08:47 | N/A | N/A | N/A | N/A | 24 | N/A | N/A | N/A | 27 | Rainy | 151.1 | 260 |
| 07-Jun-21 | 08:56 | 08-Jun-21 | 08:56 | N/A | N/A | N/A | N/A | 24 | N/A | N/A | N/A | 62 | Cloudy | 151.1 | 260 |
| 11-Jun-21 | 08:40 | 12-Jun-21 | 08:40 | N/A | N/A | N/A | N/A | 24 | N/A | N/A | N/A | 37 | Fine | 151.1 | 260 |
| 17-Jun-21 | 08:40 | 18-Jun-21 | 08:40 | N/A | N/A | N/A | N/A | 24 | N/A | N/A | N/A | 22 | Fine | 151.1 | 260 |
| 23-Jun-21 | 09:53 | 24-Jun-21 | 09:53 | N/A | N/A | N/A | N/A | 24 | N/A | N/A | N/A | 19 | Cloudy | 151.1 | 260 |
| 29-Jun-21 | 08:36 | 30-Jun-21 | 08:36 | N/A | N/A | N/A | N/A | 24 | N/A | N/A | N/A | 54 | Cloudy | 151.1 | 260 |
| 05-Jul-21 | 08:52 | 06-Jul-21 | 08:52 | N/A | N/A | N/A | N/A | 24 | N/A | N/A | N/A | 14 | Cloudy | 151.1 | 260 |
| 09-Jul-21 | 08:47 | 10-Jul-21 | 08:47 | N/A | N/A | N/A | N/A | 24 | N/A | N/A | N/A | 54 | Sunny | 151.1 | 260 |
| 15-Jul-21 | 08:38 | 16-Jul-21 | 08:38 | N/A | N/A | N/A | N/A | 24 | N/A | N/A | N/A | 8 | Sunny | 151.1 | 260 |
| 21-Jul-21 | 08:44 | 22-Jul-21 | 08:44 | N/A | N/A | N/A | N/A | 24 | N/A | N/A | N/A | 39 | Cloudy | 151.1 | 260 |
| 27-Jul-21 | 08:44 | 28-Jul-21 | 08:44 | N/A | N/A | N/A | N/A | 24 | N/A | N/A | N/A | 81 | Sunny | 151.1 | 260 |

Air Quality Monitoring Result at Station AM2B / AM2 (24-hour TSP)

* The air monitoring station AM2B has been relocated to the alternative monitoring station AM2 on 1 June 2021, and portable direct reading dust meter was being used at AM2 for 24 hour TSP monitoring.



Graphical Presentation of Air Quality Monitoring Result at Station AM2B / AM2 (24-hour TSP)

*The air monitoring station AM2B has been relocated to the alternative monitoring station AM2 on 1 June 2021

Noise Monitoring Result at Station NM1A

| | | at Station NM1A | | |
|------------------------|-------|--------------------|--------------------|---------------------|
| Date | Time | Measured L10 dB(A) | Measured L90 dB(A) | Leq (30 min.) dB(A) |
| 04-May-21 | 09:35 | 65.4 | 61.5 | |
| 04-May-21 | 09:40 | 66.2 | 62.6 | |
| 04-May-21 | 09:45 | 66.0 | 62.1 | 68 |
| 04-May-21 | 09:50 | 67.7 | 63.5 | |
| 04-May-21 | 09:55 | 67.8 | 63.6 | |
| 04-May-21 | 10:00 | 68.7 | 64.6 | |
| 10-May-21 | 09:26 | 65.5 | 61.3 | |
| 10-May-21 | 09:31 | 66.0 | 62.4 | |
| 10-May-21 | 09:36 | 66.7 | 62.7 | 67 |
| 10-May-21 | 09:41 | 67.2 | 63.8 | 07 |
| 10-May-21 | 09:46 | 65.9 | 61.1 | |
| 10-May-21 | 09:51 | 65.2 | 61.4 | |
| 20-May-21 | 09:25 | 65.0 | 61.4 | |
| 20-May-21 | 09:30 | 66.6 | 62.8 | |
| 20-May-21 | 09:35 | 66.2 | 62.1 | 67 |
| 20-May-21 | 09:40 | 65.4 | 61.2 | 67 |
| 20-May-21 | 09:45 | 65.7 | 61.6 | |
| 20-May-21 | 09:50 | 64.3 | 60.9 | |
| 26-May-21 | 09:35 | 65.1 | 61.9 | |
| 26-May-21 | 09:40 | 66.0 | 62.2 | |
| 26-May-21 | 09:45 | 67.2 | 63.8 | <u> </u> |
| 26-May-21 | 09:50 | 65.1 | 61.5 | 68 |
| 26-May-21 | 09:55 | 66.5 | 62.7 | |
| 26-May-21 | 10:00 | 67.3 | 63.9 | |
| , 01-Jun-21 | 10:30 | 65.2 | 61.9 | |
| 01-Jun-21 | 10:35 | 66.0 | 62.1 | |
| 01-Jun-21 | 10:40 | 66.5 | 62.3 | |
| 01-Jun-21 | 10:45 | 65.4 | 61.6 | 67 |
| 01-Jun-21 | 10:50 | 65.6 | 61.7 | |
| 01-Jun-21 | 10:55 | 66.6 | 62.7 | |
| 07-Jun-21 | 09:39 | 66.6 | 62.9 | |
| 07-Jun-21 | 09:44 | 65.1 | 61.8 | |
| 07-Jun-21 | 09:49 | 65.5 | 61.7 | |
| 07-Jun-21 | 09:54 | 66.3 | 62.5 | 67 |
| 07-Jun-21 | 09:59 | 65.6 | 61.5 | |
| 07-Jun-21 | 10:04 | 65.6 | 61.7 | |
| 17-Jun-21 | 09:27 | 65.4 | 61.5 | |
| 17-Jun-21 | 09:32 | 66.3 | 62.2 | |
| 17-Jun-21 | 09:32 | 65.1 | 61.2 | 1 |
| 17-Jun-21 | 09:42 | 65.5 | 61.8 | 67 |
| 17-Jun-21 | 09:42 | 66.0 | 62.9 | 1 |
| 17-Jun-21 | 09:52 | 65.6 | 61.8 | 1 |
| 23-Jun-21 | 03:32 | 70.6 | 67.3 | |
| 23-Jun-21 | 08:35 | 70.9 | 67.6 | • |
| 23-Jun-21 | 08:40 | 70.2 | 66.4 | 1 |
| 23-Jun-21 | 08:45 | 71.7 | 67.1 | 72 |
| 23-Jun-21 | 08:50 | 69.4 | 65.9 | |
| 23-Jun-21 | 08:55 | 70.6 | 66.3 | |
| 29-Jun-21 | 08.55 | 70.8 | 66.4 | |
| 29-Jun-21 29-Jun-21 | 09:28 | 70.2 | 67.4 | 1 |
| 29-Jun-21 29-Jun-21 | 09:31 | 69.2 | 65.9 | |
| | | | | 72 |
| 29-Jun-21 | 09:41 | 71.2 | 67.3 | • |
| 29-Jun-21 | 09:46 | 71.7 | 67.0 | • |
| 29-Jun-21 | 09:51 | 71.5 | 67.4 | <u> </u> |

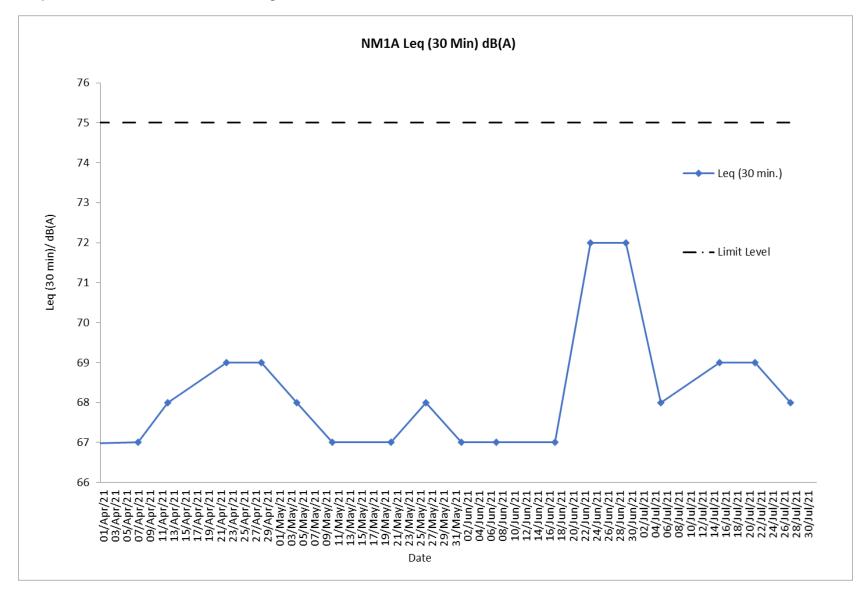
| | 61.9 | 65.7 | 09:35 | 05-Jul-21 |
|------|------|------|-------|-----------|
| | 62.8 | 66.1 | 09:40 | 05-Jul-21 |
| 69 | 62.4 | 66.3 | 09:45 | 05-Jul-21 |
| - 68 | 63.5 | 67.4 | 09:50 | 05-Jul-21 |
| | 63.4 | 67.6 | 09:55 | 05-Jul-21 |
| | 64.4 | 68.2 | 10:00 | 05-Jul-21 |
| | 62.8 | 66.0 | 09:16 | 15-Jul-21 |
| | 63.3 | 67.2 | 09:21 | 15-Jul-21 |
| 60 | 64.1 | 68.3 | 09:26 | 15-Jul-21 |
| - 69 | 62.7 | 66.6 | 09:31 | 15-Jul-21 |
| | 63.8 | 67.5 | 09:36 | 15-Jul-21 |
| | 64.6 | 68.7 | 09:41 | 15-Jul-21 |
| | 64.6 | 68.0 | 09:30 | 21-Jul-21 |
| | 62.3 | 66.2 | 09:35 | 21-Jul-21 |
| 69 | 63.2 | 67.3 | 09:40 | 21-Jul-21 |
| 05 | 63.4 | 67.5 | 09:45 | 21-Jul-21 |
| | 64.8 | 68.9 | 09:50 | 21-Jul-21 |
| | 64.9 | 68.7 | 09:55 | 21-Jul-21 |
| | 62.3 | 66.3 | 09:20 | 27-Jul-21 |
| | 63.4 | 67.2 | 09:25 | 27-Jul-21 |
| - 68 | 62.5 | 66.0 | 09:30 | 27-Jul-21 |
| 00 | 61.0 | 65.6 | 09:35 | 27-Jul-21 |
| | 62.6 | 66.8 | 09:40 | 27-Jul-21 |
| | 62.4 | 66.9 | 09:45 | 27-Jul-21 |

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

F. Waste Flow table

| | Actual Quantities of Inert C&D Materials Generated Monthly Actual Quantities of C&D Wastes Generated | | | | | | | | | rated Month | nly | | |
|------------------|--|---|------------------------------|--------------------------------|-------------------------------|-----------------------------------|------------------|----------|----------------------------------|-------------|-----------------|-------------------|--------------------------------------|
| Month | Total Quantity Generated | Hard Rocks and Large Broken Concrete | Reused in the Contract | Reused in other Projects | Disposed as Public Fill | Disposed to Sorting Facilty | Imported Fill | Metals | Paper/ Cardboard Packaging | Plastics | Wood/ Timber | Chemical Waste | Others, e.g. General Refuse |
| | (in ton) | (in ton) | (in ton) | (in ton) | (in ton) | (in ton) | (in ton) | (in ton) | (in ton) | (in ton) | (in ton) | (in ton) | (in ton) |
| 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 F-1: Monthly Waste Flow Table for Lyric Theatre Complex

| 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 |

| 2020 | | | | | | | | | | | | | |
|------------------|----------|-----|-----|----------|----------|-------|--------|--------|-----|------|-----|------|--------|
| Jan | 7089.9 | 0.0 | 0.0 | 0.0 | 7089.9 | 0.0 | 0.0 | 10.6 | 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 | 232.2 | 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 | 1123.9 | 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 | 406.5 | 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 | 262.6 | 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 | 458.5 | 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 | 340.8 | 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 | 750.7 | 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 | 717.9 | 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 | 473.6 | 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 | 478.3 | 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 | 5318.7 | 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 | 835.1 | 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 | 100.5 | 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 | 455.8 | 0.3 | 0.0 | 0.0 | 0.0 | 881.8 |
| Apr | 633.0 | 0.0 | 0.0 | 0.0 | 633.0 | 0.0 | 0.0 | 429.9 | 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 | 355.1 | 0.2 | 0.1 | 0.0 | 0.0 | 355.3 |
| Jun | 877.3 | 0.0 | 0.0 | 0.0 | 877.3 | 0.0 | 0.0 | 98.4 | 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 | 18.1 | 0.0 | 0.0 | 0.0 | 0.0 | 287.1 |
| Aug | 0.0 | | | | | | | | | | | | |
| Sep | 0.0 | | | | | | | | | | | | |
| Oct | 0.0 | | | | | | | | | | | | |
| Nov | 0.0 | | | | | | | | | | | | |
| Dec | 0.0 | | | | | | | | | | | | |
| Sub-total (2021) | 4477.1 | 0.0 | 0.0 | 0.0 | 4468.2 | 8.9 | 0.0 | 2292.8 | 2.0 | 0.1 | 0.0 | 0.4 | 3559.1 |
| Total | 991173.7 | 0.0 | 0.0 | 543635.2 | 447095.3 | 443.2 | 2301.1 | 9588.4 | 7.9 | 10.5 | 0.0 | 12.9 | 8537.4 |

Note:

- 1033.29, 550.44 and 0.00 tonnes of inert C&D material were disposed of as public fill to Tseung Kwan O Area 137, Tuen Mun Area 38, and Chai Wan Public Fill Barging Point respectively in the reporting quarter.

G. 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 quarter are summarized in **Table G-1** below.

Table G-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 quarter (May 21 – Jul 21) | 5 | 0 | 0 | | | | | |
| From 1 March 2016 to end of the reporting quarter | 24 | 0 | 0 | | | | | |

END OF PART-1

Development at West Kowloon Cultural District Quarterly Environmental Monitoring and Audit (EM&A) Report (May-July 2021) Part-2: EM&A for Foundation, Excavation and Lateral Works for Integrated Basement and Underground Road in Zone 2A

Foundation, Excavation and Lateral Works for Integrated Basement and Underground Road in Zone 2A

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

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Executive summary

This Quarterly EM&A Report presents the monitoring works at Zone 2A conducted from 1 May 2021 to 31 July 2021.

The impact stage EM&A programme for the Project includes air quality, noise, water quality, waste, landscape and visual monitoring. The recommended environmental mitigation measures were implemented on site and regular inspections were carried out to ensure that the environmental conditions are acceptable.

The EM&A programme was carried out by the ET in accordance with the EM&A Manual requirements. It is concluded from the environmental monitoring and audit works that adequate environmental mitigation measures have been implemented by the contractors where appropriate in the reporting quarter.

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 monitoring in the reporting quarter.

Implementation of Mitigation Measures

Construction phase weekly site inspections were carried out to confirm the implementation measures undertaken by the Contractors in the reporting quarter. The status of implementation of mitigation measures during the reporting quarter is shown in **Appendix C**.

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

Record of Complaints

Five environmental complaints were received during the reporting quarter.

Record of Notifications of Summons and Successful Prosecutions

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

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 at WKCD, consisting of Foundation, Excavation and Lateral Support Works for Integrated Basement and Underground Road (Contract No.: GW/2020/05/073). The construction works and EM&A programme for Zone 2A commenced on 3 October 2020.

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 falls under this same category.

The purpose of the development in Zone 2A 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 Quarterly EM&A Report is prepared in accordance with the Clause 3.4 of the Environmental Permit No. EP-453/2013/B. This Quarterly EM&A Report presents the monitoring works at Zone 2A from 1 May 2021 to 31 July 2021. 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 Environmental Status in the Reporting Period

During the reporting period, construction works at Zone 2A undertaken include:

Zone 2A-1

- Grouting Works (Trial 1)
 - Post Drilling
 - Install Pump Wells
 - Pumping Test
- Grouting Works (Trial 2)
 - Pumping Test
- ELS (Stage 1) Grouting / Pipe Pile Works

- King Post & Erection of Steel Column for Working Platform
- Socketed H-Pile Works
 - Remaining Socketed H-Pile Works
- Bored Pile Works
 - Bored Pile Construction

Zone 2A-2

- Bored Pile Works
 - Additional Bored Pile Construction
- ELS (Stage 1) Grouting / Pipe Pile Works
 - Stage 1a & 1b Grouting
 - Pipe Pile Construction

The Construction Works Programme of the Project is provided in **Appendix B**. A layout plan of the Project is provided in **Figure 1**.

2 Summary of EM&A Requirements and Mitigation Measures

2.1 Monitoring Requirements

In accordance with the EM&A Manual, environmental parameters including air quality, noise, landscape and visual have been monitored. The specific parameters, monitoring frequency and the respective Action and Limit levels are given in **Table 2.1**. Locations of the monitoring stations are provided in **Figure 1**.

| Parameters | Descriptions | Locations | Frequencies | Action level | Limit level |
|-----------------------|---|---|----------------------------------|---|--------------------------|
| Air Quality | 24-Hour TSP | AM3 - The Victoria Towers Tower 1 | At least once every 6 days | 152.4 μg/m³ | 260 µg/m ³ |
| | 1-Hour TSP | AM3 - The Victoria Towers Tower 1 | At least 3 times every 6 days | 280.4 µg/m³ | 500 µg/m ³ |
| | 24-Hour TSP | AM4 - Canton Road Government Primary School | At least once every 6 days | 152.6 μg/m³ | 260 µg/m³ |
| | 1-Hour TSP | AM4 - Canton Road Government Primary School | At least 3 times every 6 days | 278.5 µg/m³ | 500 µg/m³ |
| | 24-Hour TSP | AM5 - Topside Developments at West Kowloon Terminus Site | At least once every 6 days | 141.1 μg/m³ | 260 µg/m³ |
| | 1-Hour TSP | AM5 - Topside Developments at West Kowloon Terminus Site | At least 3 times every 6 days | 275.4 μg/m³ | 500 µg/m³ |
| Noise | Leq, 30 minutes | NM2 - The Arch, Sun Tower | Weekly | When one documented complaint is received from any one of the sensitive receivers | 75 dB(A) |
| | Leq, 30 minutes | NM3 - The Victoria Towers Tower 1 | Weekly | When one documented complaint is received from any one of the sensitive receivers | 75 dB(A) |
| | Leq, 30 minutes | NM4 - Canton Road Government Primary School | Weekly | When one documented complaint is received from any one of the sensitive receivers | 70/65 dB(A)^ |
| | Leq, 30 minutes | NM5 -Development next to Austin Station | Weekly | When one documented complaint is received from any one of the sensitive receivers | 75 dB(A) |
| 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 | N/A | N/A |

Table 2.1: Summary of Impact EM&A Requirements

Note:

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

The EM&A programme for the Project require 5 air monitoring stations and 5 noise 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, AM2 for air monitoring, and NM1 for noise monitoring. In the context of the construction activities in Zone 2A, all other monitoring locations including AM3, AM4, and AM5 for air monitoring; and NM2, NM3, NM4 and NM5 for noise monitoring, have been taken into account. However, access to all these originally designated monitoring stations was declined. Therefore, alternative monitoring stations was identified and proposed.

With regard to air monitoring, alternative monitoring locations (AM3A, AM4A, and AM5A) were identified at ground floor at the Northeast corner of West Kowloon Station's station box, at ground floor at the Southeast corner of West Kowloon Station's station box, and at ground floor at the North of West Kowloon Station's station box respectively. AM3A, AM4A, and AM5A were set in same direction to the area of major construction site activities in Zone 2A. These alternative air monitoring locations (AM3A, AM4A, and AM5A) were approved by EPD on 29 September 2020.

For noise monitoring, alternative noise monitoring location (NM2A) was identified at the ground floor in front of The Arch - Sun Tower, which is at the same location as stated in the EM&A Manual for consistency. This alternative noise monitoring location was approved by EPD on 29 September 2020. Other alternative noise monitoring locations (NM3A, NM4A, and NM5A) were identified at the ground floor in front of the Xiqu Centre, at the ground floor next to Tsim Sha Tsui Fire Station, and at the Pedestrian road (ground floor) outside West Kowloon Station respectively. NM3A, NM4A and NM5A were 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. These alternative noise monitoring locations (NM3A, NM4A, and NM5A) were approved by EPD on 29 September 2020.

Therefore, 3 air quality monitoring stations and 4 noise impact monitoring station were confirmed for the impact monitoring for construction activities in Zone 2A.

2.2 Environmental Mitigation Measures

Environmental mitigation measures have been recommended in the EM&A Manual. Summary of implementation status of the environmental mitigation measures is provided in **Appendix C**.

3 Summary of EM&A Results

3.1 Monitoring Data

In accordance with the EM&A Manual, impact monitoring has been conducted in the reporting quarter. Meteorological data for the reporting quarter have been extracted from Hong Kong Observatory and presented in **Appendix D**. Monitoring data with graphical presentation for the reporting quarter are shown in **Appendix E**. A summary on the monitoring results are presented in **Table 3.1**.

| Parameter | Monitoring Location | Minimum | Maximum | Average |
|---------------------------|----------------------------|---------|---------|---------|
| Air Quality | | | | |
| 1 hour TSP | АМЗА | 31 | 57 | 41 |
| 1 hour TSP | AM4A | 31 | 59 | 42 |
| 1 hour TSP | AM5A | 31 | 58 | 42 |
| 24 hour TSP | АМЗА | 30 | 53 | 38 |
| 24 hour TSP | AM4A | 29 | 58 | 39 |
| 24 hour TSP | AM5A | 31 | 52 | 39 |
| Construction Noise | | | | |
| Leq(30min) | NM2A | 58 | 60 | 59 |
| Leq(30min) | NM3A | 69 | 70 | 70 |
| Leq(30min) | NM4A | 63 | 69 | 68 |
| Leq(30min) | NM5A | 65 | 67 | 66 |

 Table 3.1:
 Summary of Monitoring Data

3.2 Monitoring Exceedances

Summary of the exceedances in the reporting quarter is tabulated in Table 3.2.

Table 3.2: Summary of Exceedances

| Monitoring Station | Parameter | No. of Ex | Action Taken | | |
|--------------------|-------------|--------------|--------------|-----|--|
| | | Action Level | Limit Level | - | |
| Air Quality | | | | | |
| АМЗА | 1 hour TSP | 0 | 0 | N/A | |
| | 24 hour TSP | 0 | 0 | N/A | |
| AM4A | 1 hour TSP | 0 | 0 | N/A | |
| | 24 hour TSP | 0 | 0 | N/A | |
| AM5A | 1 hour TSP | 0 | 0 | N/A | |
| | 24 hour TSP | 0 | 0 | N/A | |
| Construction Noise | | | | | |
| NM2A | Leq(30min) | 0 | 0 | N/A | |
| NM3A | Leq(30min) | 0 | 0 | N/A | |
| NM4A | Leq(30min) | 0 | 0 | N/A | |
| NM5A | Leq(30min) | 0 | 0 | N/A | |

3.2.1 1-hour TSP Monitoring

All 1-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/ Limit Level exceedance of 1-hour TSP for Air Quality was recorded.

3.2.2 24-hour TSP Monitoring

All 24-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/ Limit Level exceedance of 24-hour TSP for Air Quality was recorded.

3.2.3 Construction Noise Monitoring

All construction noise monitoring was conducted as scheduled in the reporting quarter. No Action/ Limit Level exceedance of Construction Noise was recorded.

3.2.4 Landscape and Visual Monitoring

All landscape and visual impact inspections were conducted as scheduled in the reporting quarter. No adverse comment on landscape and visual aspects were recorded.

4 Waste Management

As advised by the Contractor, 240.72 tonnes, 1767.24 tonnes, 16644.89 tonnes of inert C&D material were disposed of as public fill to Chai Wan Public Fill Barging Point, Tseung Kwan O Area 137 Public Fill, and Tuen Mun Area 38 respectively in the reporting quarter, while 185.03 tonnes of general refuse were disposed of at NENT and SENT landfill. 134.13 tonnes of metals, 0.00 tonne of paper/cardboard packaging, 0.00 tonne of plastic and 0.00 tonne of timber were collected by recycling contractors in the reporting quarter. 0.00 tonne of inert C&D materials were reused on site. 0.00 tonne of fill materials were imported for use at site and 5132.00 tonnes of inert C&D materials was reused in other projects. 0.00 tonne of inert C&D materials was disposed to sorting facility and 0.40 tonnes of chemical wastes was collected by licensed contractors in the reporting quarter.

The actual amounts of different types of waste generated by the activities of construction works at Zone 2A in the reporting quarter are shown in **Appendix F**.

5 Environmental Non-conformance

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

Five complaints (not related to Zone 2A) were received in the reporting quarter. No notifications of summons and successful prosecutions were received in the reporting quarter.

The first complaint was received on 11 May 2021. WKCDA has received a complaint from the office of Mr. Derek Hung (YTMDC member) about the noise from WKCD site. The resident of Harbourside found that noise was generated from nearby construction site on Sunday 9 May 2021. After carrying out the investigation with the contractors, no construction works were undertaken on 9 May 2021 (Sunday) on WKCD Zone 2A site. Thereby, the complaint might not be attributable to the Zone 2A site. However, the contractor is recommended to strictly maintain the noise mitigation measures on site to reduce impacts to nearby residents.

The second complaint was referred by EPD on 11 May 2021. Referring to the pictures provided by the complainant (a nearby resident), pollutant was spotted at the waterbody of Victoria Harbour near WKCD construction site between 7 May 2021 and 9 May 2021. After carrying out the investigation with the contractors, no abnormalities were found at the seafront of Victoria Harbour on 7 and 8 May 2021, and no construction works were undertaken by WKCD Zone 2A site on 9 May 2021. Thereby, the complaint could not be attributable to Zone 2A site. However, the contractor is recommended to strictly maintain good site practices to avoid muddy water flowing into to the waterbody of Victoria Harbour.

The third complaint was referred by EPD on 12 May 2021. Referring to the picture provided by the complainant (a resident of Harbourside), pollutant was spotted at the waterbody of Victoria Harbour near WKCD construction site on 9 May 2021. After carrying out the investigation with the contractors, no construction works were undertaken by WKCD Zone 2A site on 9 May 2021. Thereby, the complaint might not be attributable to the Zone 2A site. However, the contractor is recommended to strictly maintain good site practices to avoid muddy water flowing into to the waterbody of Victoria Harbour.

The fourth complaint was referred by EPD on 7 June 2021. Referring to the email sent by EPD and the picture provided by the nearby complainant, pollutant was spotted in the water body of Victoria Harbour near WKCD construction site on 5 June 2021. After carrying out the investigation with the contractors, no abnormalities were found at the Zone 2A site seafront of Victoria Harbour on 5 June 2021. Moreover, the white splash/plume observed by the complainant was not generated from WKCD Zone 2A site boundary. Thereby, the complaint could not be attributable to Zone 2A site. However, the contractor is recommended to strictly maintain good site practices to avoid muddy water flowing into to the water body of Victoria Harbour.

The fifth complaint was referred by EPD on 7 July 2021. EPD has received a complaint from a staff of Standard Chartered Elements Priority Banking Centre regarding construction noise from WKCD construction site (Artist Square Bridge (ASB) construction site). On 5 July 2021, WKCD staff has informed the complainant that the construction works of ASB project were scheduled to be carried out until noon every day. However, noise nuisance caused by ASB works usually lasts till 14:00 to 15:00 for consecutive 3 days. As the work place of the complainant is in close proximity

of ASB project, daily noise exposure has become excessive, affecting daily duty performance and well-being of the complainant. Based on the description provided by the complainant, the noise source was not from WKCD Zone 2A site. Also, noise mitigation measures for construction works have been implemented and maintained on site. In addition, noise measurement and monitoring were carried out with no exceedance. Thereby, the complaint might not be attributable to the Zone 2A site. However, the Contractor is recommended to maintain good practice on site, and strengthen the implementation of noise mitigation measures to reduce impacts to the nearby neighbours.

The cumulative statistics on complaints, notifications of summons and successful prosecutions were provided in **Appendix G**.

6 Comments, Recommendations and Conclusion

6.1 Comments

Based on the observations made during site audits and landscape inspections, and construction dust and noise monitoring results, no non-compliances and exceedances of air quality and construction were recorded in the reporting quarter.

6.2 Recommendations

Reviewing the implementation of the recommended mitigation measures in the EM&A Manual, it was observed that they were effective and efficient in controlling the potential impacts due to construction of the project during the reporting period. Review of the effectiveness and efficiency of the EM&A programme will continue, and recommendations will be provided to remediate any potential impacts due to the project and to improve the EM&A programme if deficiencies of the existing EM&A programme are identified.

6.3 Conclusion

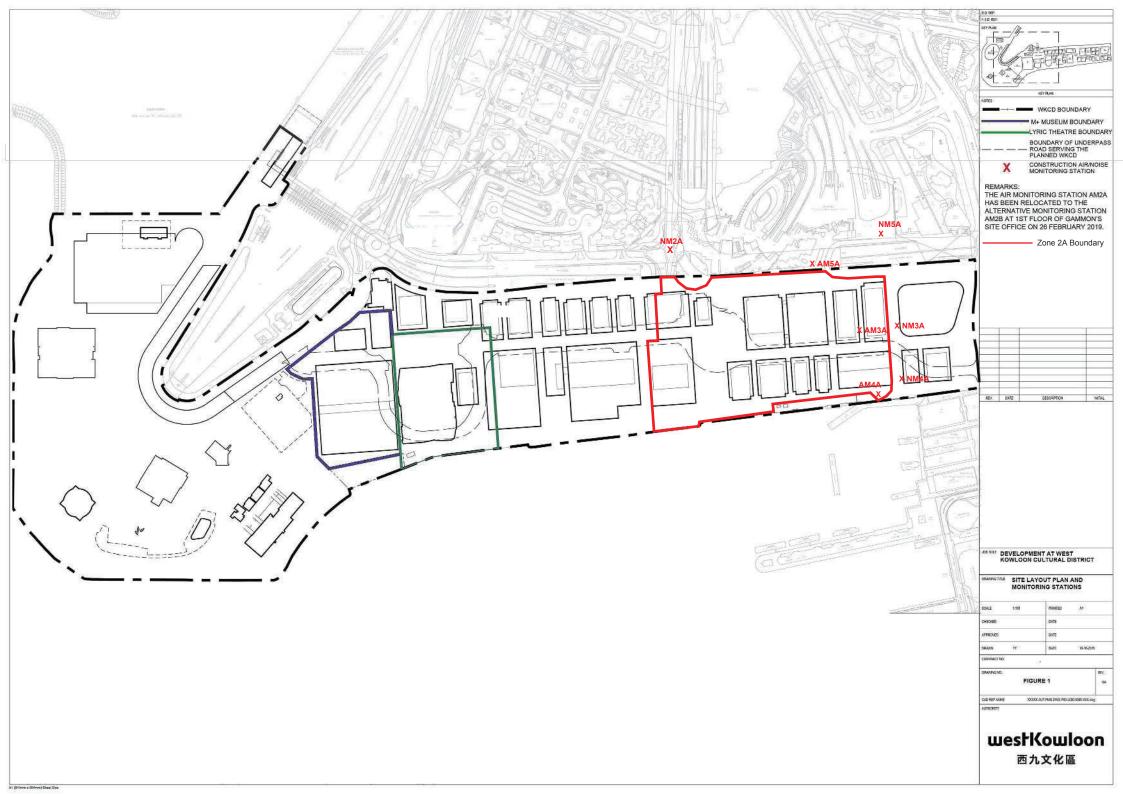
The EM&A programme as recommended in the EM&A Manual has been undertaken since the construction works of Zone 2A commenced on 3 October 2020.

Monitoring of air quality and noise with respect to the Project is underway. In particular, the 1hour TSP, 24-hour TSP, noise level (as Leq, 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 quarter.

Five complaints were received in the reporting quarter. No notifications of summons and successful prosecutions were received during the reporting quarter.

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

Figure 1 Site Layout Plan and Monitoring Stations



Appendices

- A. Project Organisation
- B. Construction Programme
- C. Environmental Mitigation Measures Implementation Status
- D. Meteorological Data Extracted from Hong Kong Observatory
- E. Graphical Plots of the Monitoring Results
- F. Waste Flow table
- G. Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

A. Project Organisation

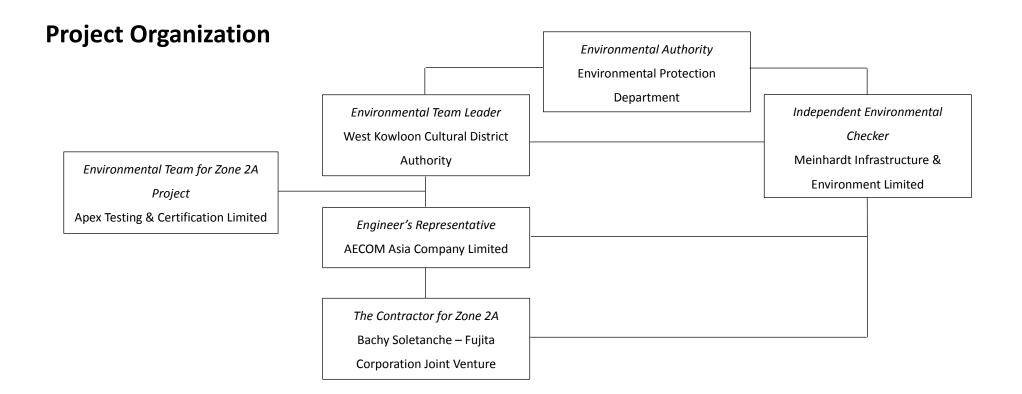


Table A-1: Contract Information

| Company Name | Role | Name | Telephone | Email |
|--|---|-------------------|-----------|------------------------------|
| West Kowloon Cultural District Authority | WKCDA Representative & Project ETL | Mr. C.K. WU | 5506 9178 | ck.wu@wkcda.hk |
| Meinhardt Infrastructure & Environment Limited | Independent Environmental Checker | Ms. Claudine LEE | 2859 5409 | caludinelee@meinhardt.com.hk |
| AECOM Asia Company Limited | Resident Engineer | Mr. Alex GBAGUIDI | 3619 6287 | alex.gbaguidi@aecom.com |
| Bachy Soletanche – Fujita Corporation Joint | Quality, Safety, Health & | Mr. Vincent CHAN | 9733 7310 | Chuen.Kwok.CHAN@soletanche- |
| Venture | Environmental Manager | | | bachy.com |
| Bachy Soletanche – Fujita Corporation Joint | Environmental Engineer | Mr. William CHAN | 54083045 | william-hou.chan@soletanche- |
| Venture | | | | bachy.com |
| Apex Testing & Certification Limited | Contractor's Environmental Team Leader | Mr. Calvin LUI | 9629 9718 | calvinlui@apextestcert.com |

B. Construction Programme

Project Name: Foundation and ELS Works for Integrated Basement and Underground Road in Zone 2A of the West Kowloon Cultural District

3-Month Rolling Programme

| | | | | | | | | | 2 | 021 | | | | | |
|--|------------|------------|-------------|----------|-----------|-----------|-----------|----------|-------------|-----------|-----------|----------|----------|------|---------------|
| Activity Description | Duration | Start Date | Finish Date | | | lay | | | June | | | | | July | |
| | (Cal. Day) | | | 7 W52 | 14 W53 | 21 W54 | 28 W55 | 4 W56 | 11 W57 \ | 18 V58 | 25 W59 | 2 W60 | 9 W61 | | 23 3 W63 W |
| Zone 2A-1 Foundation, ELS Works and Blinding to Formation (KD01) | | | 1 | | | | | | | | | | | | |
| Grouting Works (Trial 1) | | | | | | | | | | | | | | | |
| Post Drilling | 55 | 22-Apr-21 | 15-Jun-21 | | | | | | | | | | | | |
| Install Pump Wells | 8 | 16-Jun-21 | 23-Jun-21 | | | | | | | | | | | | |
| Pumping Test | 7 | 24-Jun-21 | 30-Jun-21 | | | | | | | | | | | | |
| Grouting Works (Trial 2) | | | | | | | | | | | | | | | |
| Pumping Test | 8 | 14-May-21 | 21-May-21 | | | | | | | | | | | | |
| ELS (Stage 1) - Grouting / Pipe Pile Works | | | | | | | | | | | | | | | |
| King Post (3/65 Nos Completed) & Erection of Steel Column for Working Platform (0/41 Nos completed) | 145 | 15-May-21 | 6-Oct-21 | | | | | | | | | | | | |
| Socketed H-Pile Works | | | | | | | | | | | | | | | |
| Remaining Socketed H-Pile Works (0/53 Nos completed) | 111 | 5-Jun-21 | 23-Sep-21 | | | | | | | | I | | | | |
| Bored Pile Works | | | | | | | | | | | | | | | |
| Bored Pile Construction (Total 32 Nos. 2~4 Workfront) | | | | | | | | | | | | | | | |
| BP31L, BP33L, BP34I1, BP34G, BP31P, BP36F1, BP31R, BP33G, BP31M, BP36E1, BP31Q, BP33J, BP33M, BP32P, BP34F, BP35F1, BP33P, BP34K, BP34P, BP33F, BP35I1, BP34D, BP32D, BP36J1) (20 Nos. Cast; 1 Nos. completed RCD; 2 Nos. RCD in progress) | 260 | 9-Nov-20 | 26-Jul-21 | | | | | | | | | | | | |
| Zone 2A-2 Foundation, ELS Works and Blinding to Formation (KD02) | | | • | | • | • | | | | • | | | | • | i |
| Bored Pile Works | | | | | | | | | | | | | | | |
| Additional Bored Pile Construction (Total 16 Nos.) BP15Y, BP16TA, BP13U, BP14Y, BP12M, BP12T, BP20XA, BP12Y, BP13Y, BP16WA (3 Nos. Cast; 1 Nos. completed RCD; 5 Nos. RCD in progress) | 182 | 23-Mar-21 | 20-Sep-21 | | | | | | | | | | | | |
| ELS (Stage 1) - Grouting / Pipe Pile Works | | | | | | | | | | | | | | | |
| King Post (0/86 Nos Completed) | 104 | 20-Oct-21 | 31-Jan-22 | | | | | | | | | | | | |
| Stage 1a & 1b grouting (715/1058 Nos Completed) | 385 | 22-Oct-20 | 10-Nov-21 | | | | | | | | | | | 1 | |
| Pipe Pile Construction (155/523 Nos Completed) | 385 | 17-Nov-20 | 6-Dec-21 | | | | | | | | | | | | |

- Actual

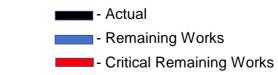
- Remaining Works

- Critical Remaining Works

Project Name: Foundation and ELS Works for Integrated Basement and Underground Road in Zone 2A of the West Kowloon Cultural District

3-Month Rolling Programme

| | | | | | | | | | 20 | | | | | | |
|---|------------------------|------------|-------------|----------|----------|---|----|----------|-----------|---|-------|---|-----|-----------|----|
| Activity Description | Duration (Cal. Day) | Start Date | Finish Date | 4 | Ju 11 | | 25 | 2 | Ju 9 1 | - | 30 | 6 | Aug | | 27 |
| | (Cal. Day) | | | 4 W56 | | | | 2 W60 | | | 3 W64 | - | | 20 W67 | |
| Zone 2A-1 Foundation, ELS Works and Blinding to Formation (KD01) | | | | | · · · | | | | | | | | | | |
| Grouting Works (Trial 1) | | | | | | | | | | | | | | | |
| Post Drilling | 61 | 22-Apr-21 | 21-Jun-21 | | | | | | | | | | | | |
| Install Pump Wells | 8 | 22-Jun-21 | 29-Jun-21 | | | | | | | | | | | | |
| Pumping Test | 7 | 30-Jun-21 | 6-Jul-21 | | | | | | | | | | | | |
| Grouting Works (Trial 2) | | | | | | | | | | | | | | | |
| Pumping Test | 8 | 14-May-21 | 21-May-21 | | | | | | | | | | | | |
| ELS (Stage 1) - Grouting / Pipe Pile Works | | | | | | | | | | | | | | | |
| King Post (7/65 Nos Completed) & Erection of Steel Column for Working Platform (6/41 Nos completed) | 146 | 15-May-21 | 7-Oct-21 | | | | | | | | | | [| | |
| Socketed H-Pile Works | | | | | | | | | | | | | | | |
| Remaining Socketed H-Pile Works (0/53 Nos completed, 1/53 Nos in progress) | 114 | 16-Jun-21 | 7-Oct-21 | | | | | | | | | | | | |
| Bored Pile Works | | | | | | | | | | | | | | | |
| Bored Pile Construction (Total 32 Nos. 2~4 Workfront) | | | | | | | | | | | | | | | |
| BP31L, BP33L, BP34I1, BP34G, BP31P, BP36F1, BP31R, BP33G, BP31M, BP36E1, BP31Q, BP33J, BP33M, BP32P, BP34F, BP35F1, BP33P, BP34K, BP34P, BP33F, BP35I1, BP34D, BP32D, BP36J1, BP35E1 (22 Nos. Cast; 0 Nos. completed RCD; 2 Nos. RCD in progress) | 272 | 9-Nov-20 | 7-Aug-21 | | | | | | | | | | | | |
| Zone 2A-2 Foundation, ELS Works and Blinding to Formation (KD02) | | | | | | · | | ľ | | • | 1 | | | |] |
| Bored Pile Works | | | | | | | | | | | | | | | |
| Additional Bored Pile Construction (Total 16 Nos.) BP15Y, BP16TA, BP13U, BP14Y, BP12M, BP12T, BP20XA, BP12Y, BP13Y, BP16WA. BP12K (7 Nos. Cast; 1 Nos. completed RCD; 2 Nos. RCD in progress) | 178 | 23-Mar-21 | 16-Sep-21 | | | | | | | | | | | | |
| ELS (Stage 1) - Grouting / Pipe Pile Works | | | | | | | | | | | | | | | |
| King Post (0/86 Nos Completed) & Erection of Steel Column for Working Platform (0/65 Nos Completed) | 183 | 2-Aug-21 | 31-Jan-22 | | | | | | | | | | [| | |
| Stage 1a & 1b grouting (810/1058 Nos Completed) | 398 | 22-Oct-20 | 23-Nov-21 | | | | | | | | | | | | |
| Pipe Pile Construction (175/523 Nos Completed) | 392 | 17-Nov-20 | 13-Dec-21 | | | | | | | | | | | | |



Project Name: Foundation and ELS Works for Integrated Basement and Underground Road in Zone 2A of the West Kowloon Cultural District

3-Month Rolling Programme

| | | | | | | | | | 202 | 21 | | | | | |
|---|------------|------------|-------------|----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|---|--------|-----------|-----------|
| Activity Description | Duration | Start Date | Finish Date | | - | ily | | | Aug | | | | Septer | | |
| | (Cal. Day) | | | 9 W61 | 16 W62 | 23 W63 | 30 W64 | 6 W65 | 13 W66 | 20 W67 | 27 W68 | | | 17 W71 | 24 W72 |
| Zone 2A-1 Foundation, ELS Works and Blinding to Formation (KD01) | | • | | | 1 | | • | | | ľ | 1 | ľ | | | |
| Grouting Works (Trial 1) | | | | | | | | | | | | | | | |
| Install Pump Wells | 8 | 26-Jun-21 | 2-Aug-21 | | | | | | | | | | | | |
| Pumping Test | 7 | 14-Aug-21 | 20-Aug-21 | | | | | | | | | | | | |
| ELS (Stage 1) - Grouting / Pipe Pile Works | | | | | | | | | | | | | | | |
| King Post (7/64 Nos Completed) & Erection of Steel Column for Working Platform (8/41 Nos completed) | 186 | 15-May-21 | 16-Nov-21 | | | | | | | | | | | | |
| Socketed H-Pile Works | | | | | | | | | | | | | | | |
| Remaining Socketed H-Pile Works (0/53 Nos completed, 1/53 Nos in progress) | 150 | 16-Jun-21 | 12-Nov-21 | | | | | | | | 1 | | | | |
| Bored Pile Works | | | | | | | | | | | | | | | |
| Bored Pile Construction (Total 32 Nos. 2~4 Workfront) | | | | | | | | | | | | | | | |
| BP31L, BP33L, BP34I1, BP34G, BP31P, BP36F1, BP31R, BP33G, BP31M, BP36E1, BP31Q, BP33J, BP33M, BP32P, BP34F, BP35F1, BP33P, BP34K, BP34P, BP33F, BP35I1, BP34D, BP32D, BP36J1, BP35E1, BP35J1, BP35K1, BP33D, BP32E, BP34E (25 Nos. Cast; 1 Nos. completed RCD; 2 Nos. RCD in progress) | 313 | 9-Nov-20 | 17-Sep-21 | | | | | | | | | | | | |
| Zone 2A-2 Foundation, ELS Works and Blinding to Formation (KD02) | | | · | | • | | | | • | | | | | | |
| Bored Pile Works | | | | | | | | | | | | | | | |
| Additional Bored Pile Construction (Total 16 Nos.) BP15Y, BP16TA, BP13U, BP14Y, BP12M, BP12T, BP20XA, BP12Y, BP13Y, BP16WA. BP12K, BP13W, BP12P (11 Nos. Cast; 0 Nos. completed RCD; 1 Nos. RCD in progress) | 208 | 23-Mar-21 | 16-Oct-21 | | | | | | | | | | | | |
| ELS (Stage 1) - Grouting / Pipe Pile Works | | | | | | | | | | | | | | | |
| King Post (0/86 Nos Completed) & Erection of Steel Column for Working Platform (0/65 Nos Completed) | 183 | 2-Aug-21 | 31-Jan-22 | | | | | | | | | | | | |
| Stage 1a & 1b grouting (812/1058 Nos Completed) | 442 | 22-Oct-20 | 6-Jan-22 | | | | | | | | | | | | |
| Pipe Pile Construction (239/523 Nos Completed) | 427 | 17-Nov-20 | 17-Jan-22 | | | | | | | | | | | | |

- Actual

- Remaining Works

- Critical Remaining Works

C. Environmental Mitigation Measures – Implementation Status

Table C-1: Environmental Mitigation Measures Implementation Status

| | | Impl | ementation St | age |
|------------|--|----------|---------------|------|
| EM& | Recommendation Measures | Мау | Jun | Jul |
| A Ref. | | 2021 | 2021 | 2021 |
| Air Qualit | y Impact (Construction) | | | |
| 2.1 | General Dust Control Measures | 1 | 1 | 1 |
| | 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: | | | |
| | Good Site Management | Obs, Rem | Obs | 1 |
| | 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. | | | |
| | Disturbed Parts of the Roads | | 1 | 1 |
| | • 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 | Obs | 1 | 1 |
| | keep the entire road surface wet. | | | |

| | | Imp | plementation St | age |
|--------|--|--------------|-----------------|--------------|
| EM& | Recommendation Measures | Мау | Jun | Jul |
| A Ref. | | 2021 | 2021 | 2021 |
| | Exposed Earth | N/A | N/A | N/A |
| | Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seating 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. | | | |
| | Loading, Unloading or Transfer of Dusty Materials | 1 | 1 | 1 |
| | • All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet. | | | |
| | Debris Handling | \checkmark | \checkmark | Obs |
| | 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 | N/A | N/A |
| | Transport of Dusty Materials | \checkmark | \checkmark | 1 |
| | 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. | | | |
| | Wheel washing | \checkmark | 1 | \checkmark |
| | 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. | | | |
| | Use of vehicles | \checkmark | \checkmark | \checkmark |
| | • The speed of the trucks within the site should be controlled to about 10km/hour in order to reduce adverse dust impacts and secure the safe movement around the site. | | | |
| | • Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels. | 1 | 1 | 1 |
| | 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. | 1 | 1 | 1 |

| | | Imp | plementation St | age |
|-----------|--|------|-----------------|------|
| EM& | Recommendation Measures | Мау | Jun | Jul |
| A Ref. | | 2021 | 2021 | 2021 |
| | Site hoarding | 1 | 1 | 1 |
| | • 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 | Best Practicable Means for Cement Works (Concrete Batching Plant) | | | |
| | The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable | | | |
| | Means for Cement Works (Concrete Batching Plant) BPM 3/2(93) should be followed and | | | |
| | implemented to further reduce the construction dust impacts of the Project. These best practices | | | |
| | include: | | | |
| | Exhaust from Dust Arrestment Plant | N/A | N/A | N/A |
| | 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 | | | |
| | Emission Limits | N/A | N/A | N/A |
| | • All emissions to air, other than steam or water vapour, shall be colourless and free from | | | |
| | persistent mist or smoke | | | |
| | Engineering Design/Technical Requirements | N/A | N/A | N/A |
| | • 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 | | | |
| | Non-Road Mobile Machinery (NRMM): | 1 | 1 | 1 |
| | All NRMMs operating on-site which are subject to emission control of Air Pollution Control (Non-road | | | |
| | Mobile Machinery) (Emission) Regulation are approved/exempted (as the case may be) and affixed | | | |
| | with the requisite approval/exemption labels. | | | |
| Noise Imp | act (Construction) | | | |

| | | Im | plementation Sta | ige |
|--------|---|--------------|------------------|--------------|
| EM& | Recommendation Measures | Мау | Jun | Jul |
| A Ref. | | 2021 | 2021 | 2021 |
| 3.1 | Good Site Practice | | | |
| | Good site practice and noise management can significantly reduce the impact of construction site | | | |
| | activities on nearby NSRs. The following package of measures should be followed during each phase of construction: | | | |
| | only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works; | \checkmark | \checkmark | 1 |
| | machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum | \checkmark | 1 | 1 |
| | plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs; | \checkmark | 1 | 1 |
| | mobile plant should be sited as far away from NSRs as possible; and | 1 | 1 | 1 |
| | material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities. | \checkmark | \checkmark | 1 |
| 3.1 | Adoption of Quieter PME | 1 | 1 | 1 |
| | The recommended quieter PME adopted in the assessment were taken from the EPD's QPME | | | |
| | Inventory and "Sound Power Levels of Other Commonly Used PME" are presented in Table 4.26 in the | | | |
| | EIA report. It should be noted that the silenced PME selected for assessment can be found in Hong Kong. | | | |
| 3.1 | Use of Movable Noise Barriers | Rem | Rem, Obs | Rem |
| | Movable noise barriers can be very effective in screening noise from particular items of plant when | | | |
| | constructing the Project. Noise barriers located along the active works area close to the noise | | | |
| | generating component of a PME could produce at least 10 dB(A) screening for stationary plant and 5 | | | |
| | dB(A) for mobile plant provided the direct line of sight between the PME and the NSRs is blocked. | | | |
| 3.1 | Use of Noise Enclosure/ Acoustic Shed | 1 | ✓ | \checkmark |
| | 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. | | | |

| | | Imp | plementation St | age |
|----------|--|------|-----------------|--------------|
| EM& | Recommendation Measures | Мау | Jun | Jul |
| A Ref. | | 2021 | 2021 | 202 1 |
| 3.1 | Use of Noise Insulating Fabric | 1 | 1 | 1 |
| | Noise insulating fabric can also be adopted for certain PME (e.g. drill rig, pilling machine etc). The | | | |
| | fabric should be lapped such that there are no openings or gaps on the joints. According to the | | | |
| | approved Tsim Sha Tsui Station Northern Subway EIA report (AEIAR-127/2008), a noise reduction of | | | |
| | 10 dB(A) can be achieved for the PME lapped with the noise insulating fabric. | | | |
| 3.1 | Scheduling of Construction Works outside School Examination Periods | 1 | 1 | \checkmark |
| | During construction phase, the contractor should liaise with the educational institutions (including | | | |
| | NSRs LCS and CRGPS) to obtain the examination schedule and avoid the noisy construction activities | | | |
| | during school examination periods. | | | |
| Water Qu | ality Impact (Construction) | | | |
| 4.1 | Construction site runoff and drainage | | | |
| | The site practices outlined in ProPECC Note PN 1/94 should be followed as far as practicable in order | | | |
| | to minimise surface runoff and the chance of erosion. The following measures are recommended to | | | |
| | protect water quality and sensitive uses of the coastal area, and when properly implemented should | | | |
| | be sufficient to adequately control site discharges so as to avoid water quality impacts: | | | |
| | • At the start of site establishment, perimeter cut-off drains to direct off-site water around the site | 1 | 1 | \checkmark |
| | 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 | 1 | 1 | Obs |
| | 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. | | | |

| | | Implementation Stage | | | | | | | |
|--------|---|----------------------|----------|-------------|--|--|--|--|--|
| EM& | Recommendation Measures | May | Jun | Jul | | | | | |
| A Ref. | | 2021 | 2021 | 2021 | | | | | |
| | • All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit should be regularly removed, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times. | Obs | Obs | Obs | | | | | |
| | Measures should be taken to minimize the ingress of site drainage into excavations. If excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from foundation excavations should be discharged into storm drains via silt removal facilities. | 1 | 1 | 1 | | | | | |
| | 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. | 1 | ✓ | 1 | | | | | |
| | • 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. | Rem | 1 | 1 | | | | | |
| | 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. | 1 | 1 | 1 | | | | | |
| | • 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 | Obs | Obs, Rem | Obs | | | | | |

located near steep slopes.

| | | Impl | ementation St | age |
|--------|--|----------|---------------|------|
| EM& | Recommendation Measures | May | Jun | Jul |
| A Ref. | | 2021 | 2021 | 2021 |
| | 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 | N/A | N/A | N/A |
| | and disposal of bentonite slurries. | | | |
| 4.1 | Barging facilities and activities Recommendations for good site practices during operation of the proposed barging point include: All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; | N/A | N/A | N/A |
| | 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; | N/A | N/A | N/A |
| | All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; and | N/A | N/A | N/A |
| | 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 | N/A | N/A |
| 4.1 | Sewage effluent from construction workforce | 1 | 1 | 1 |
| | Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance. | | | |
| 4.1 | General construction activities Construction solid waste, debris and refuse generated on-site should be collected, handled and disposed of properly to avoid entering any nearby storm water drain. Stockpiles of cement and other construction materials should be kept covered when not being used. | Obs, Rem | Obs | 1 |

| | | Imp | plementation St | age |
|----------|--|--------------|-----------------|--------------|
| EM& | Recommendation Measures | Мау | Jun | Jul |
| A Ref. | | 2021 | 2021 | 2021 |
| | Oils and fuels should only be stored in designated areas which have pollution prevention | 1 | 1 | 1 |
| | 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. | | | |
| Waste Ma | anagement 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 | 1 | 1 | 1 |
| | 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 | 1 | 1 | 1 |
| | Provision of sufficient waste disposal points and regular collection of waste | 1 | 1 | \checkmark |
| | Appropriate measures to minimise windblown litter and dust/odour during transportation of | 1 | 1 | \checkmark |
| | 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 | 1 | ✓ | 1 |
| | dust introduction to public roads | | | |
| | • Well planned delivery programme for offsite disposal such that adverse environmental impact | \checkmark | 1 | \checkmark |
| | from transporting the inert or non-inert C&D materials is not anticipated | | | |
| 6.1 | Waste Reduction Measures | | | |
| | Recommendations to achieve waste reduction include: | | | |
| | Sort inert C&D material to recover any recyclable portions such as metals | \checkmark | 1 | \checkmark |
| | Segregation and storage of different types of waste in different containers or skips to enhance | \checkmark | 1 | \checkmark |
| | reuse or recycling of materials and their proper disposal | | | |
| | Encourage collection of recyclable waste such as waste paper and aluminium cans by providing | 1 | 1 | \checkmark |
| | separate labelled bins to enable such waste to be segregated from other general refuse | | | |
| | generated by the work force | | | |

| | | Imj | plementation St | tage |
|--------|--|--------------|-----------------|--------------|
| EM& | Recommendation Measures | May | Jun | Jul |
| A Ref. | | 2021 | 2021 | 2021 |
| | Proper site practices to minimise the potential for damage or contamination of inert C&D materials | 1 | 1 | 1 |
| | Plan the use of construction materials carefully to minimise amount of waste generated and | \checkmark | 1 | 1 |
| | avoid unnecessary generation of wastes | | | |
| 6.1 | Inert and Non-inert C&D Materials | | | |
| | In order to minimise impacts resulting from collection and transportation of inert C&D material for | | | |
| | off-site disposal, the excavated materials should be reused on-site as fill material as far as practicable. | | | |
| | In addition, inert C&D material generated from excavation works could be reused as fill materials in | | | |
| | local projects that require public fill for reclamation. | | | |
| | • The surplus inert C&D material will be disposed of at the Government's PFRFs for beneficial use | \checkmark | 1 | \checkmark |
| | by other projects in Hong Kong. | | | |
| | Liaison with the CEDD Public Fill Committee (PFC) on the allocation of space for disposal of the | 1 | 1 | 1 |
| | 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 | \checkmark | \checkmark | ✓ |
| | 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 | 1 | 1 | \checkmark |
| | 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 | | | |

6.1 Chemical Waste

| | | Imj | Implementation Stage | | |
|----------|--|------|----------------------|------|--|
| EM& | Recommendation Measures | Мау | Jun | Jul | |
| A Ref. | | 2021 | 2021 | 2021 | |
| | 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. | 1 | 1 | 1 | |
| | 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. | 1 | 1 | 1 | |
| 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. | 1 | J | 1 | |
| Land Con | tamination (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: | | | | |

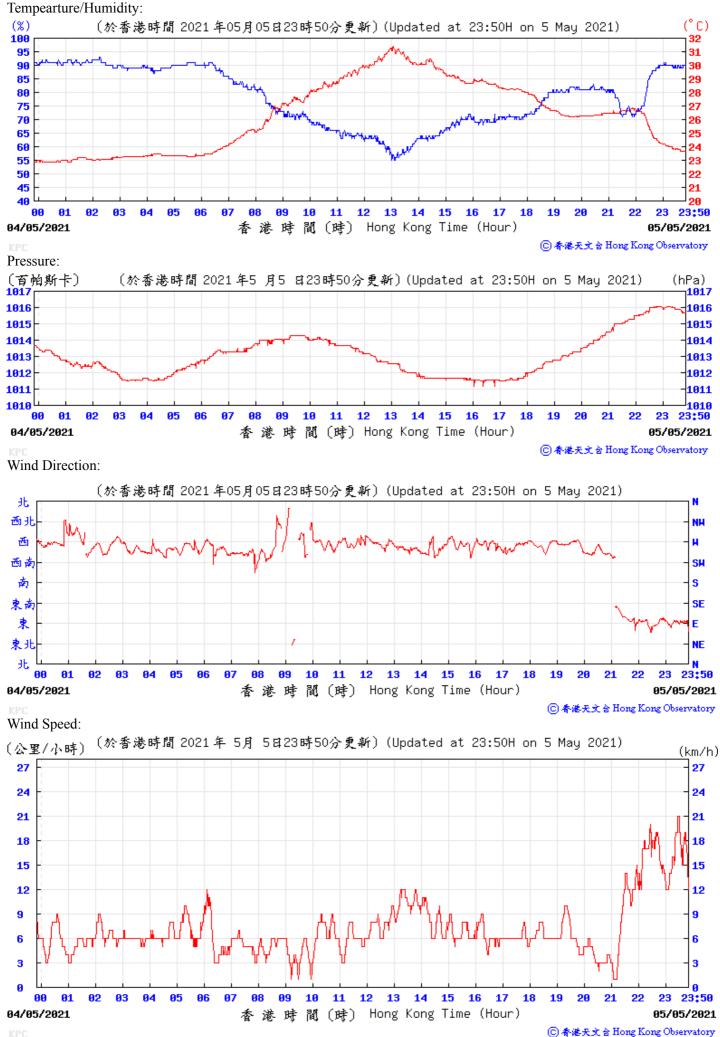
| | | Imp | plementation St | age |
|--------------------|--|------|-----------------|------|
| EM& | Recommendation Measures | May | Jun | Jul |
| A Ref. | | 2021 | 2021 | 2021 |
| | • To minimize the chance for construction workers to come into contact with any contaminated materials, bulk earth-moving excavation equipment should be employed; | N/A | N/A | N/A |
| | Contact with contaminated materials can be minimised by wearing appropriate clothing and personal protective equipment such as gloves and masks (especially when interacting directly with contaminated material), provision of washing facilities and prohibition of smoking and eating on site; | N/A | N/A | N/A |
| | • Stockpiling of contaminated excavated materials on site should be avoided as far as possible; | N/A | N/A | N/A |
| | • The use of contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out; | N/A | N/A | N/A |
| | Vehicles containing any contaminated excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater; | N/A | N/A | N/A |
| | Truck bodies and tailgates should be sealed to stop any discharge; | N/A | N/A | N/A |
| | • Only licensed waste haulers should be used to collect and transport contaminated material to treatment/disposal site and should be equipped with tracking system to avoid fly tipping; | | N/A | N/A |
| | • Speed control for trucks carrying contaminated materials should be exercised; | N/A | N/A | N/A |
| | • Observe all relevant regulations in relation to waste handling, such as Waste Disposal Ordinance (Cap. 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap. 354) and obtain all necessary permits where required; and | N/A | N/A | N/A |
| | Maintain records of waste generation and disposal quantities and disposal arrangements. | N/A | N/A | N/A |
| Ecological | mpact (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. | 1 | 1 | 1 |

| | | Implementation Stage | | |
|---------------------|---|----------------------|------|------|
| EM& | Recommendation Measures | Мау | Jun | Jul |
| A Ref. | | 2021 | 2021 | 2021 |
| 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 | N/A | N/A |
| Table 9.1 (CM3) | Buffer trees for screening purposes to soften the hard architectural and engineering structures and facilities. | N/A | N/A | N/A |
| 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 | N/A | N/A |
| 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 | N/A | N/A |
| Table 9.1 (CM6) | Sensitive streetscape design should be incorporated along all new roads and streets. | N/A | N/A | N/A |
| Table 9.1 (CM7) | Structure, ornamental planting shall be provided along amenity strips to enhance the landscape quality. | N/A | N/A | N/A |
| Table 9.1 (CM8) | Landscape design shall be incorporated to architectural and engineering structures in order to provide aesthetically pleasing designs. | N/A | N/A | N/A |
| 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 | N/A | N/A |
| Table 9.2 (MCP1) | Use of decorative screen hoarding/boards | \checkmark | 1 | 1 |
| Table 9.2 (MCP2) | Early introduction of landscape treatments | N/A | N/A | N/A |
| Table 9.2 (MCP3) | Adoption of light colour for the temporary ventilation shafts for the basement during the transition period. | N/A | N/A | N/A |
| Table 9.2 (MCP4) | Control of night time lighting | \checkmark | 1 | 1 |

| | | Implementation Stage | | |
|-----------|---|----------------------|------|------|
| EM& | Recommendation Measures | Мау | Jun | Jul |
| A Ref. | | 2021 | 2021 | 2021 |
| Table 9.2 | Use of greenery such as grass cover for the temporary open areas will help achieve the visual balance | N/A | N/A | N/A |
| (MCP5) | and soften the hard edges of the structures. | | | |

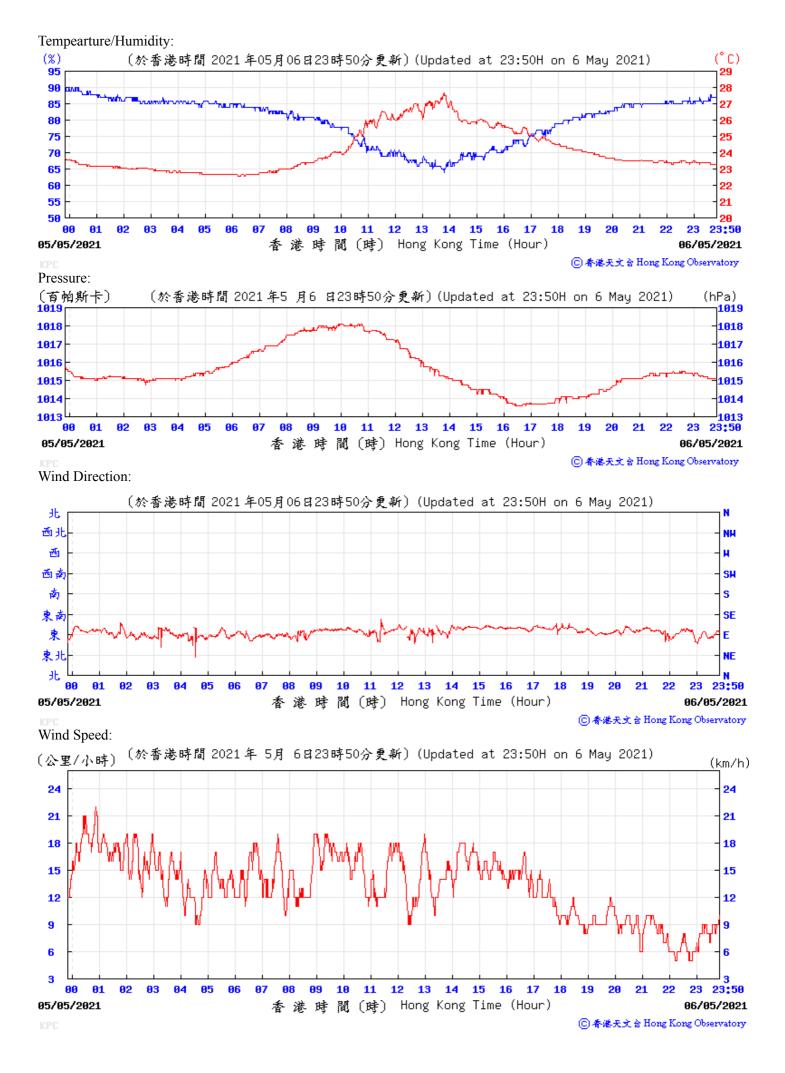
- N/A Not Applicable
- \checkmark Implemented
- Obs Observed
- Rem Reminder

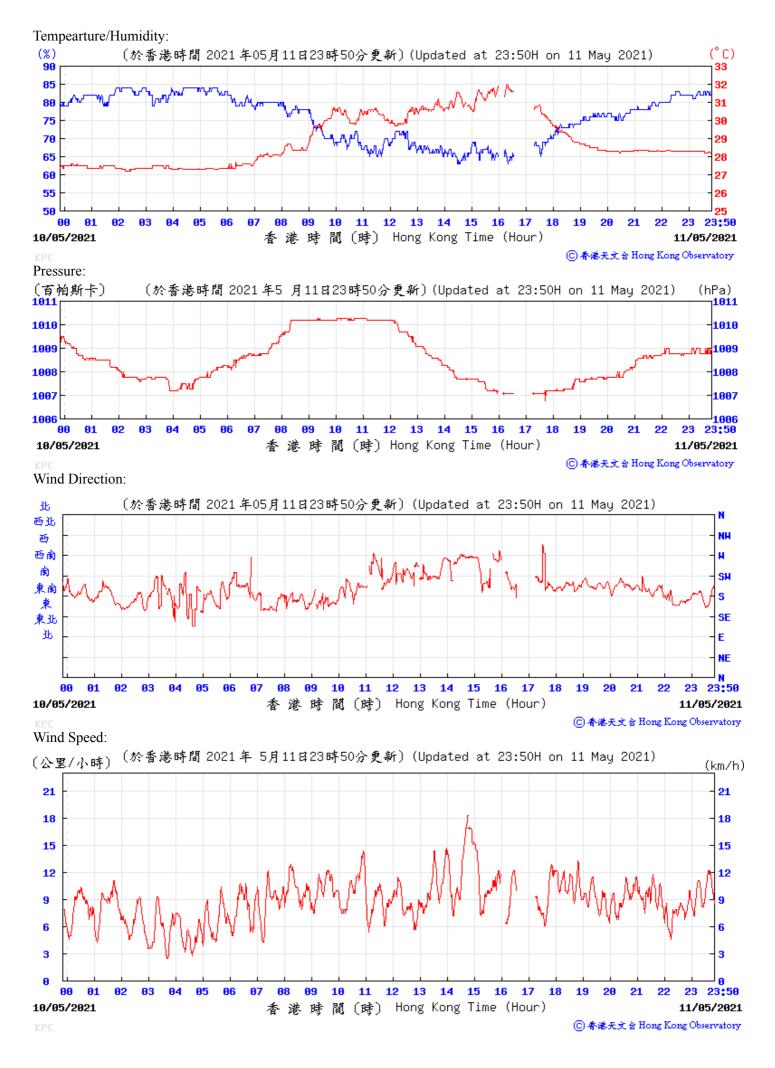
D. Meteorological Data Extracted from Hong Kong Observatory

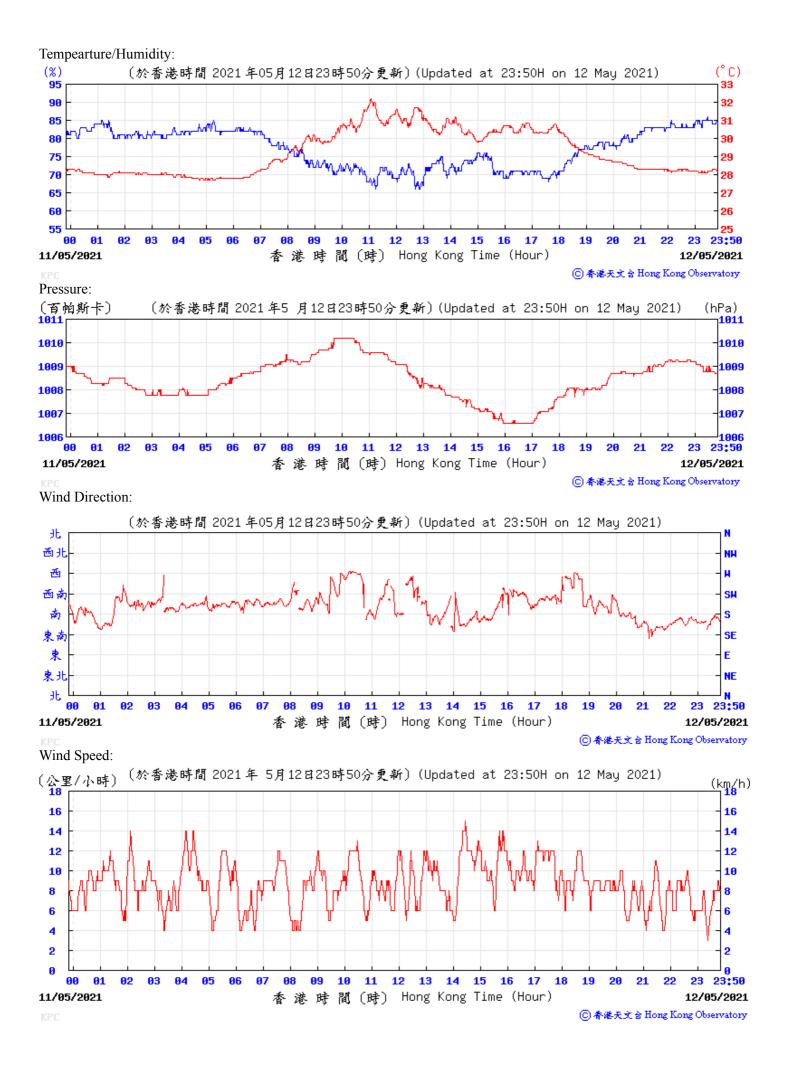


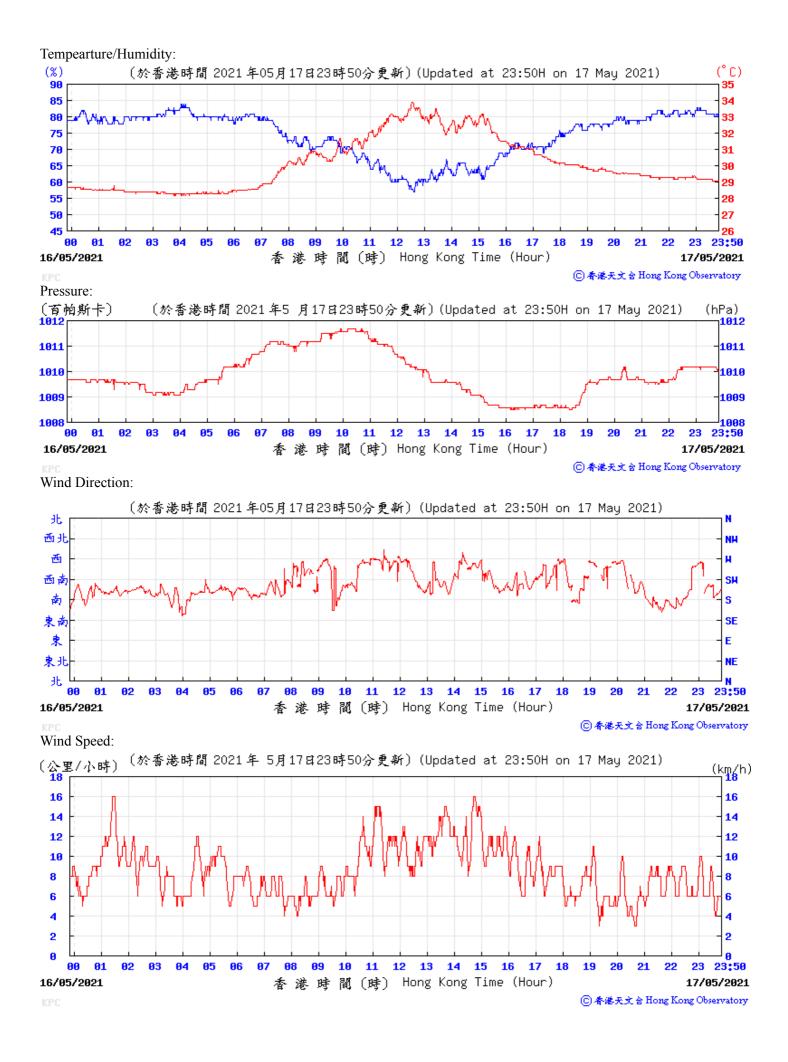
Development at West Kowloon Cultural District

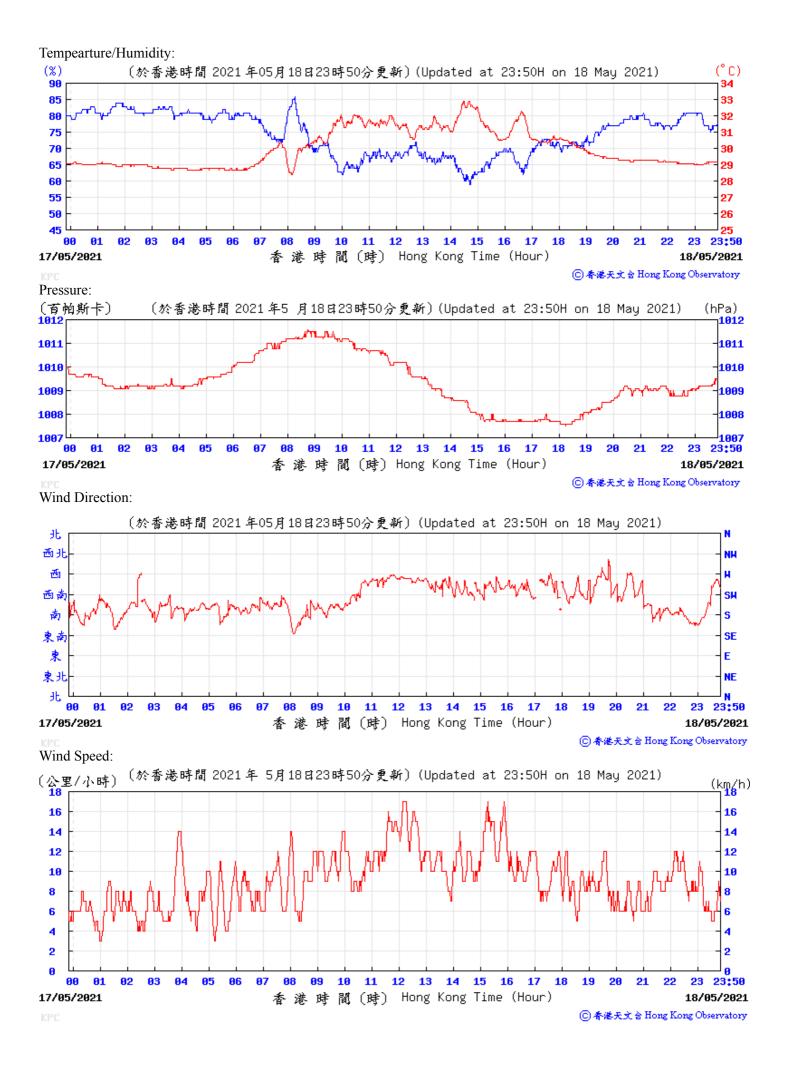
Quarterly Environmental Monitoring and Audit (EM&A) Report (May-July 2021)

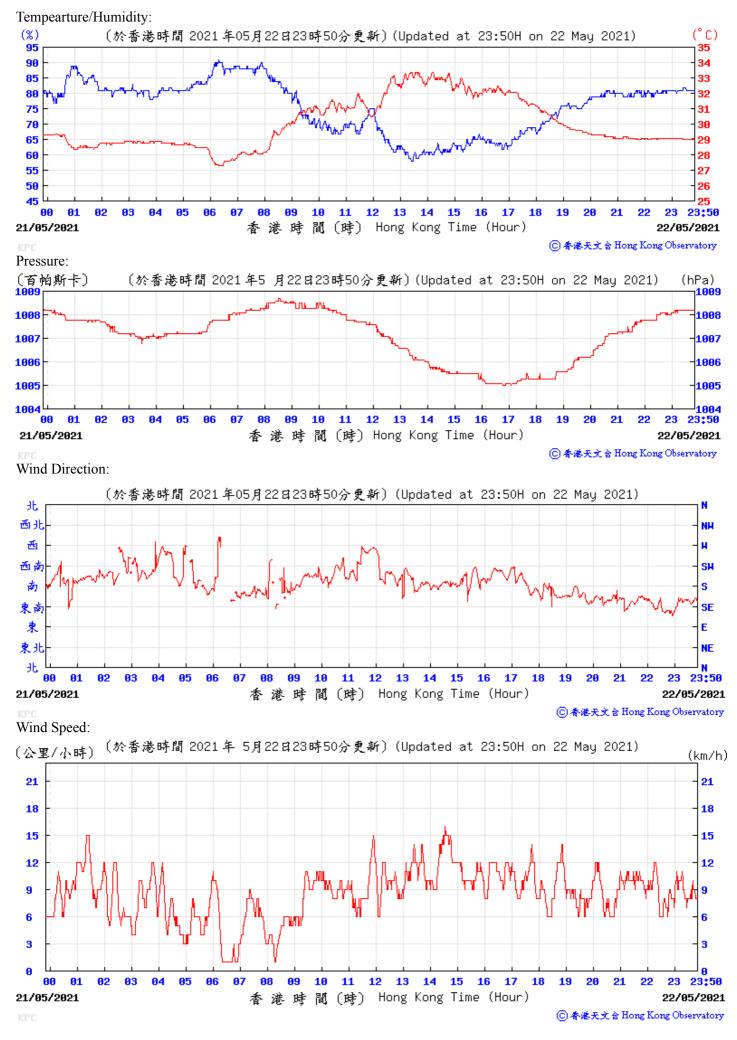


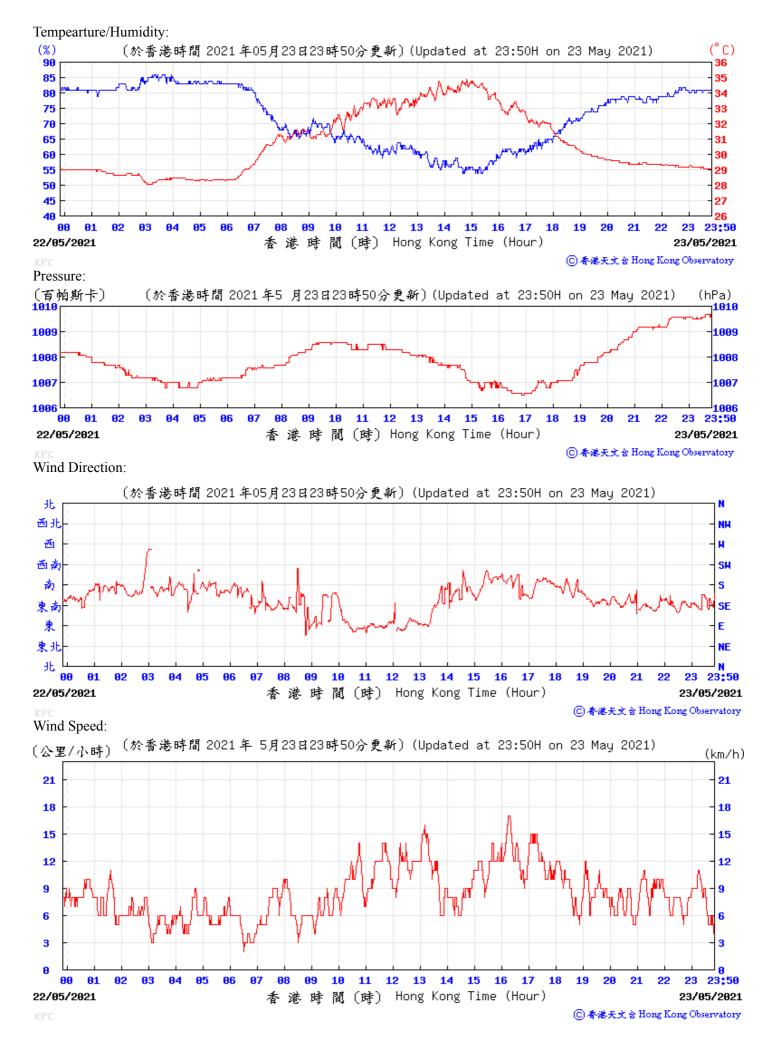


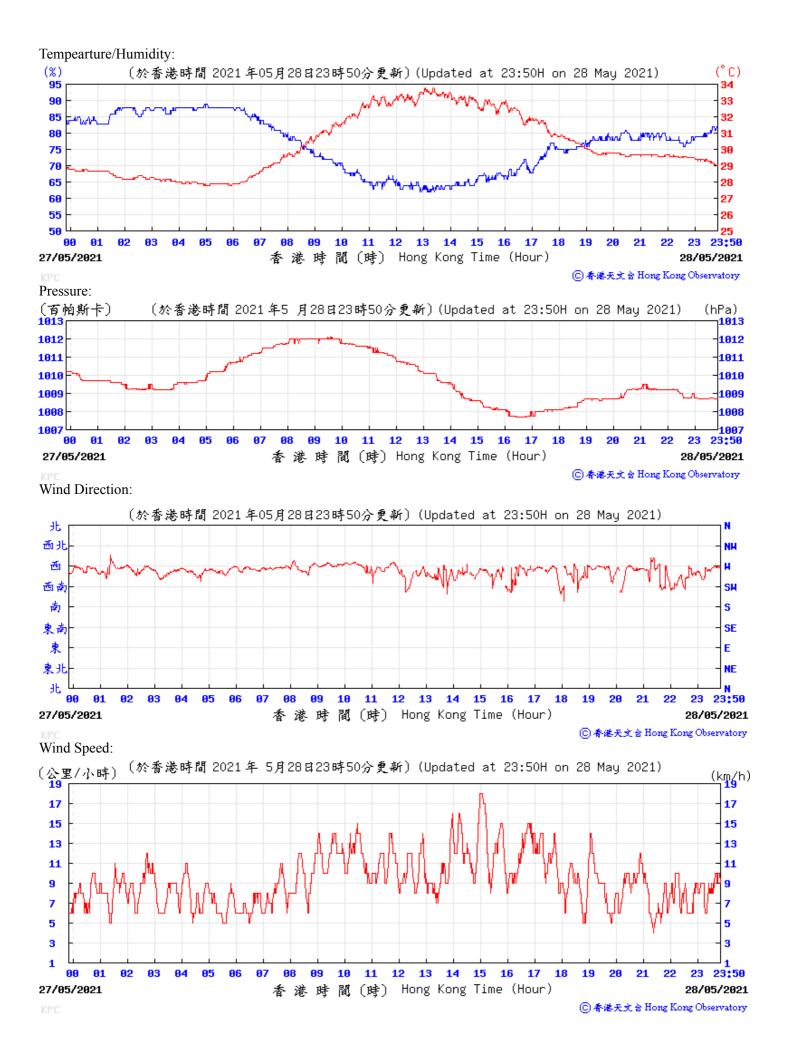


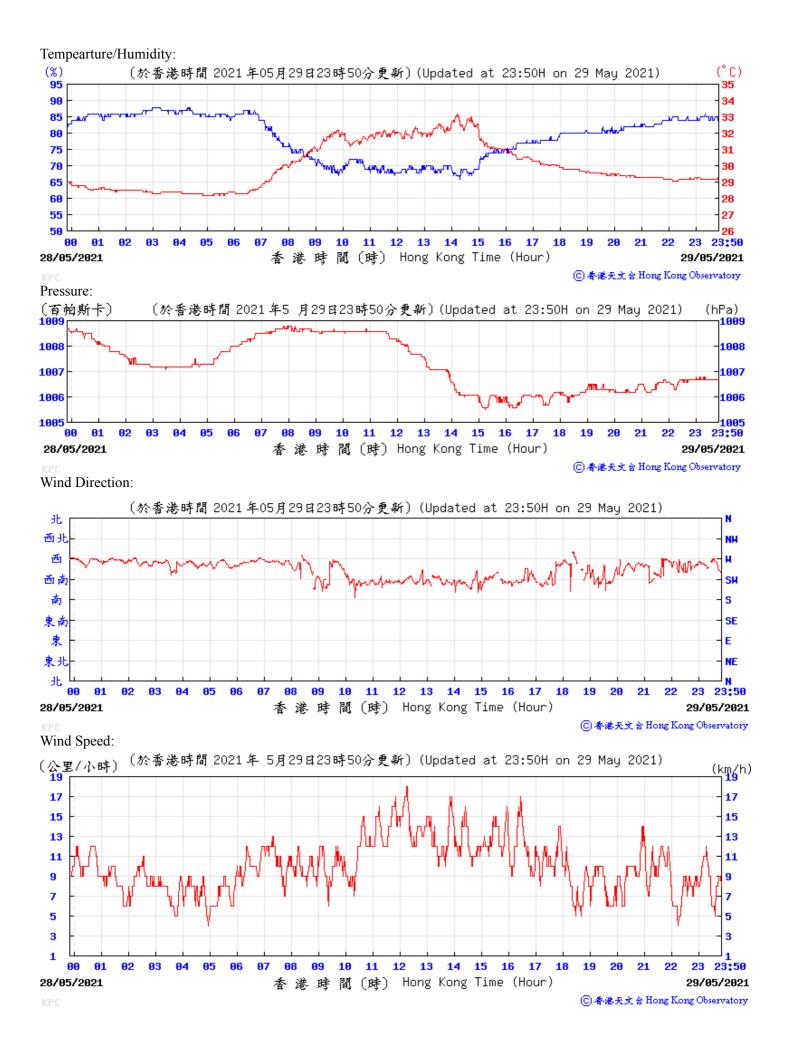


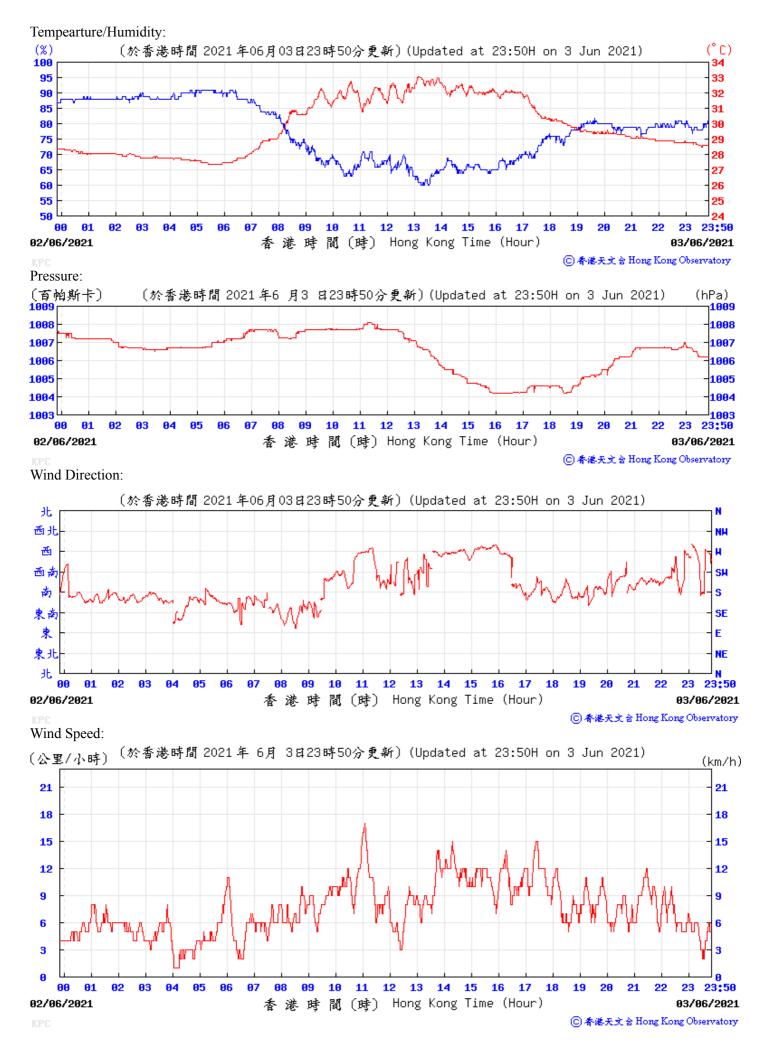


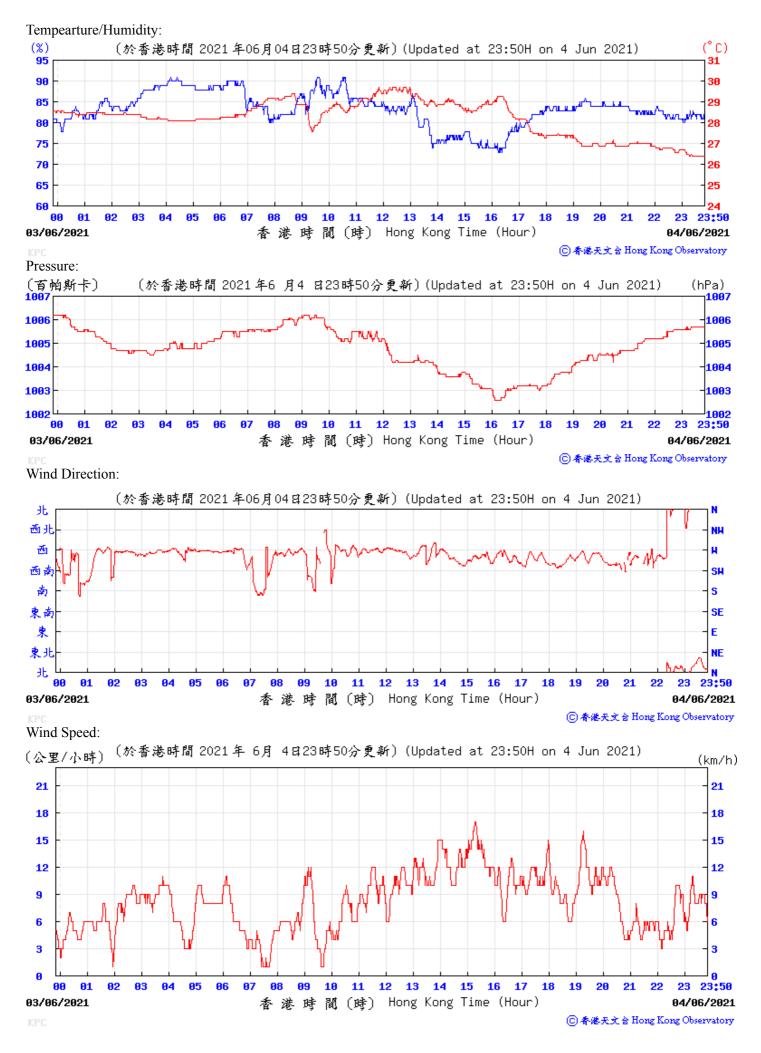


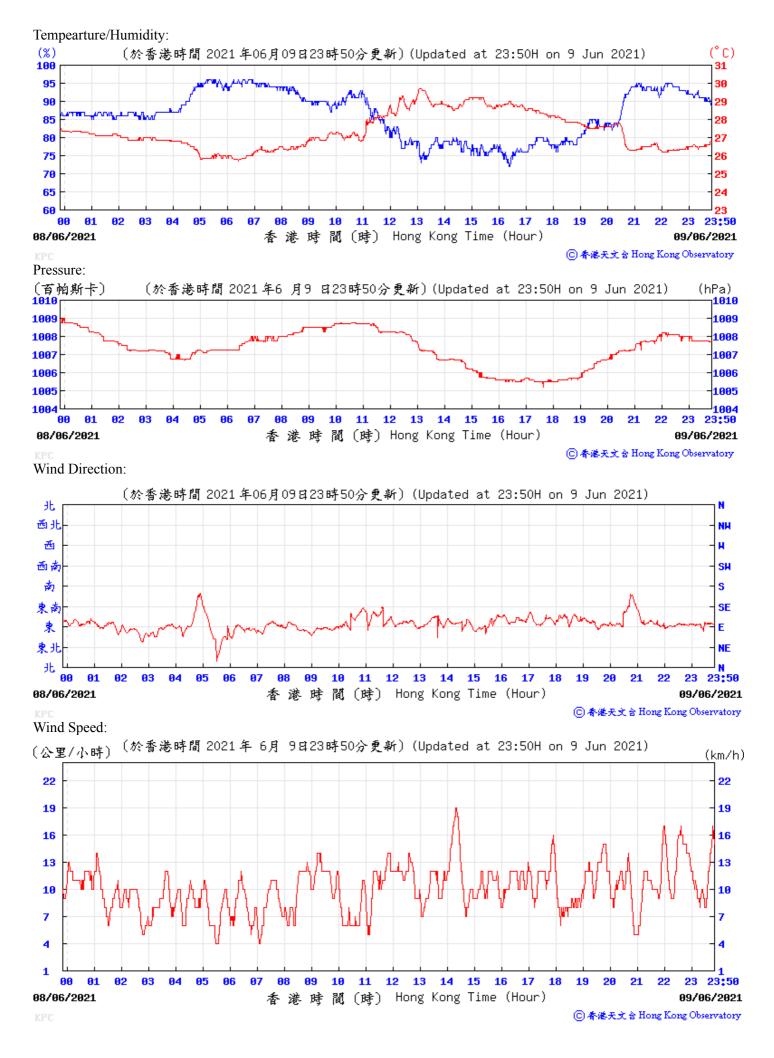


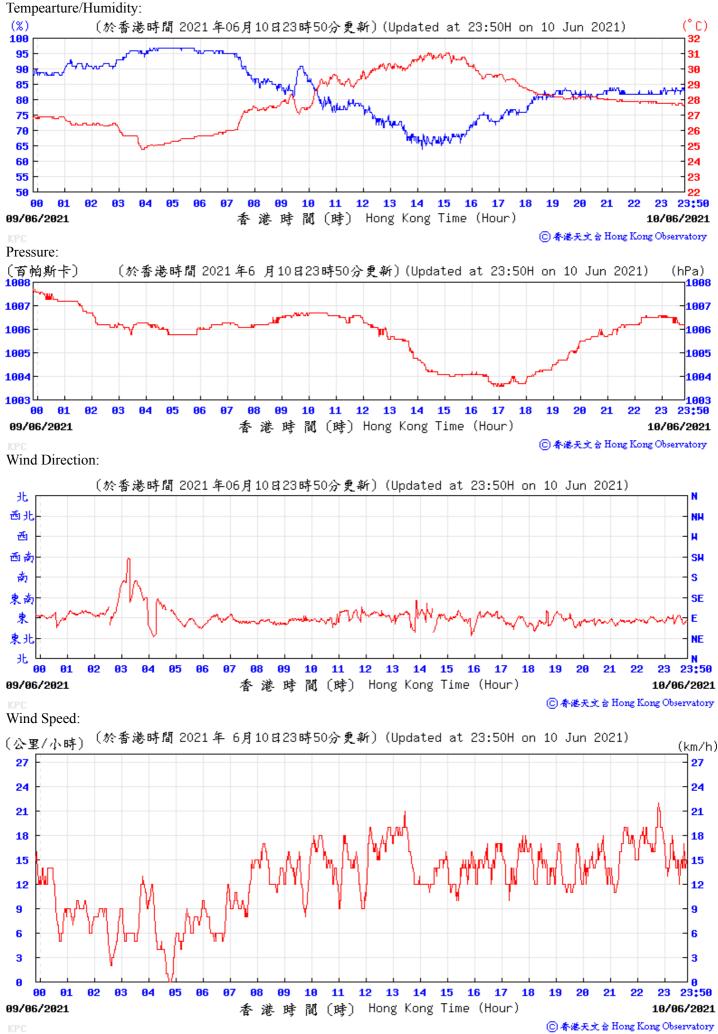






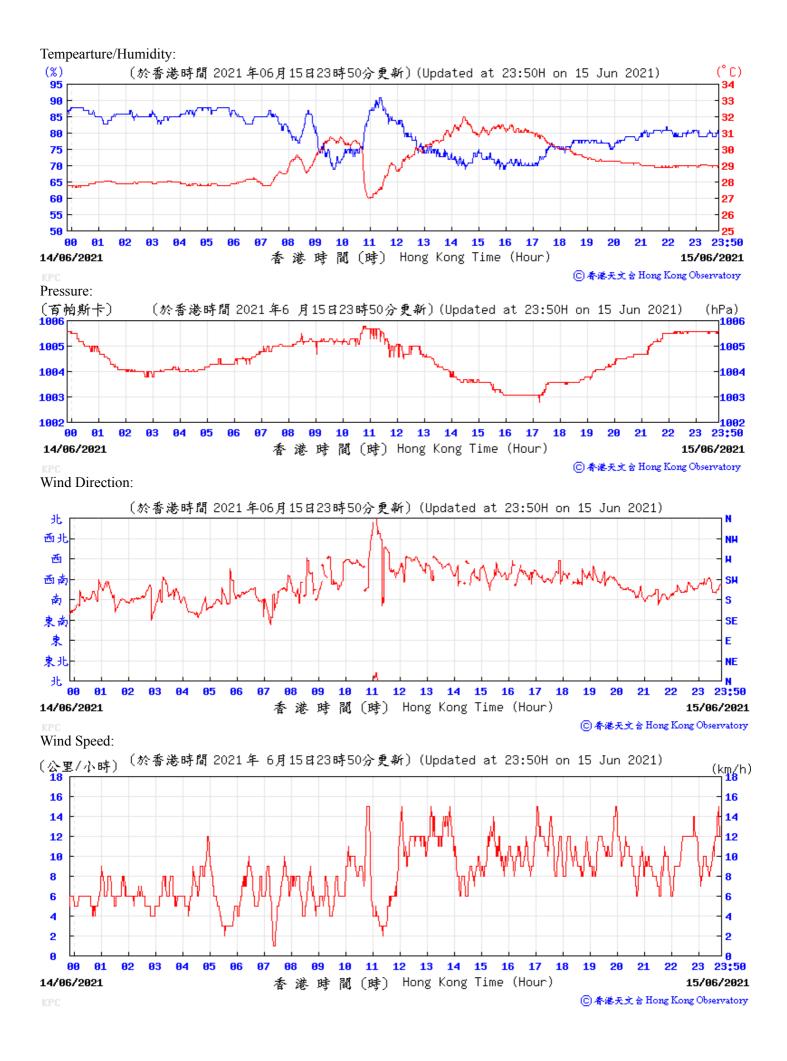


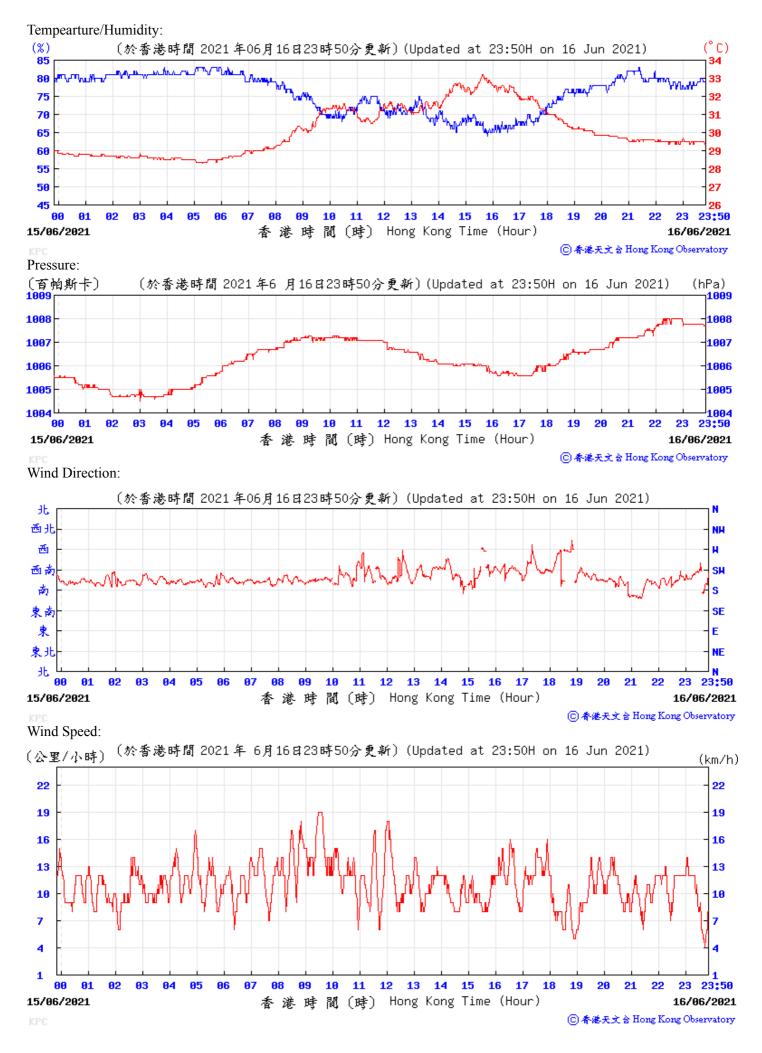


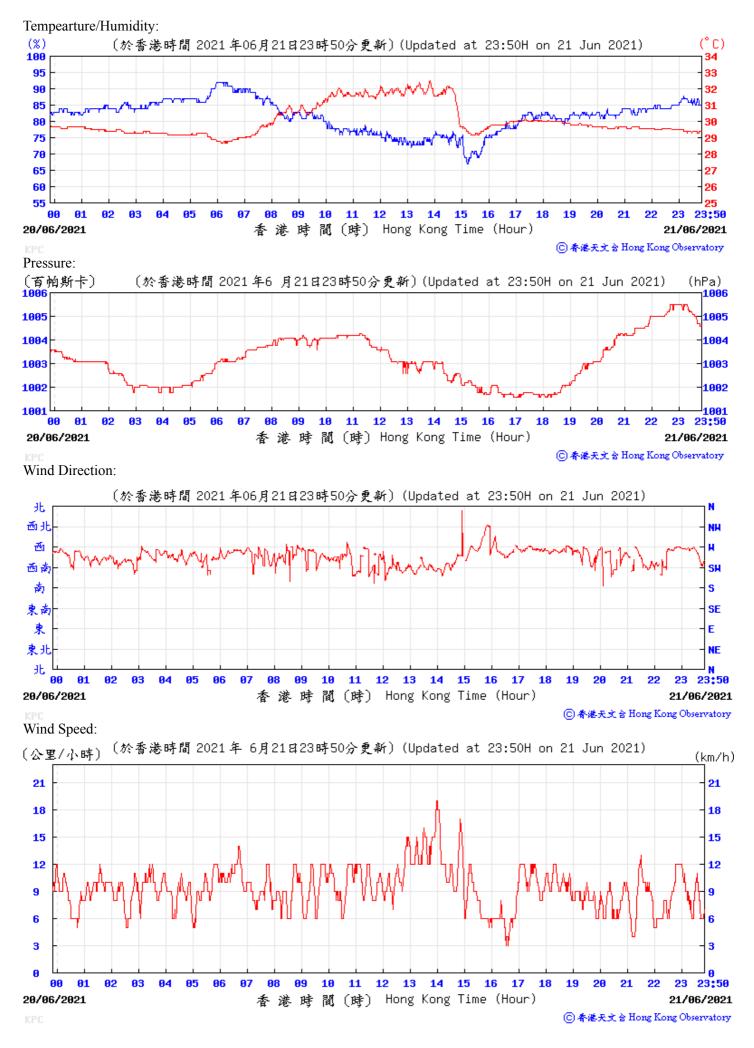


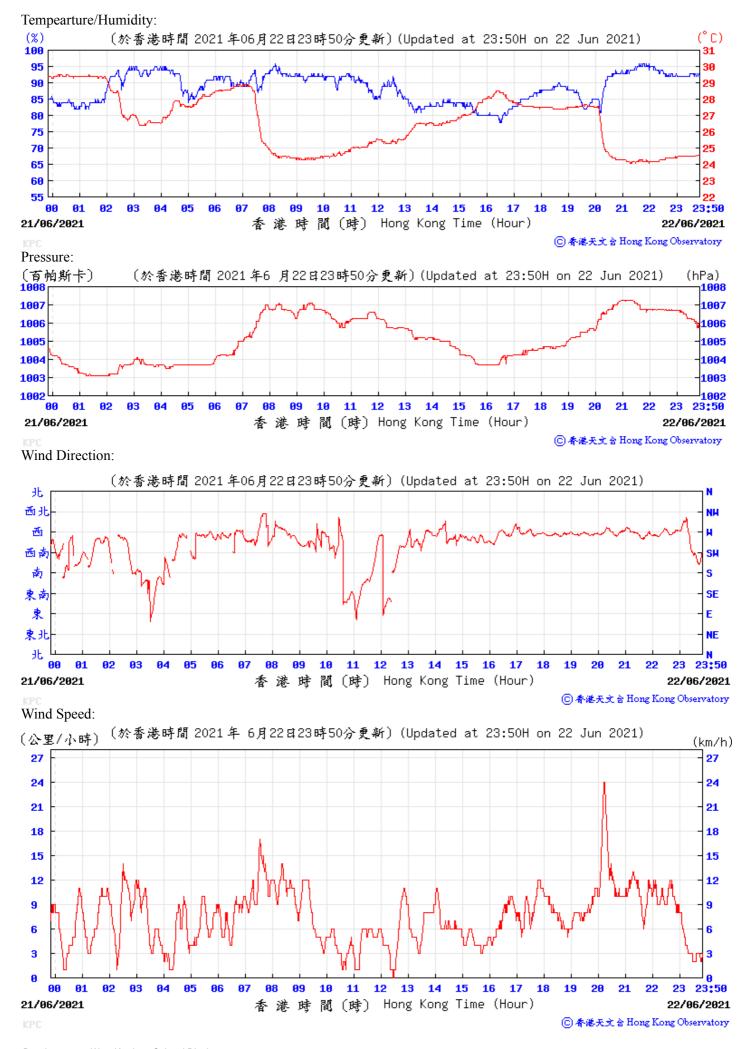
Development at West Kowloon Cultural District

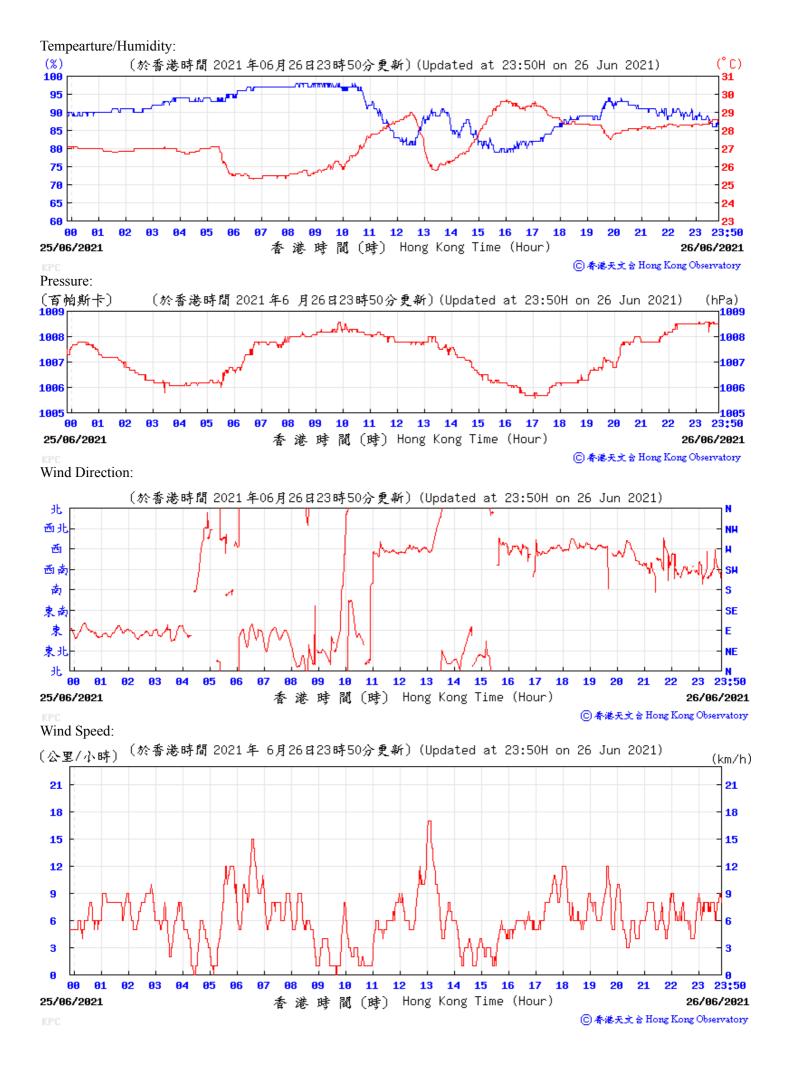
Quarterly Environmental Monitoring and Audit (EM&A) Report (May-July 2021)

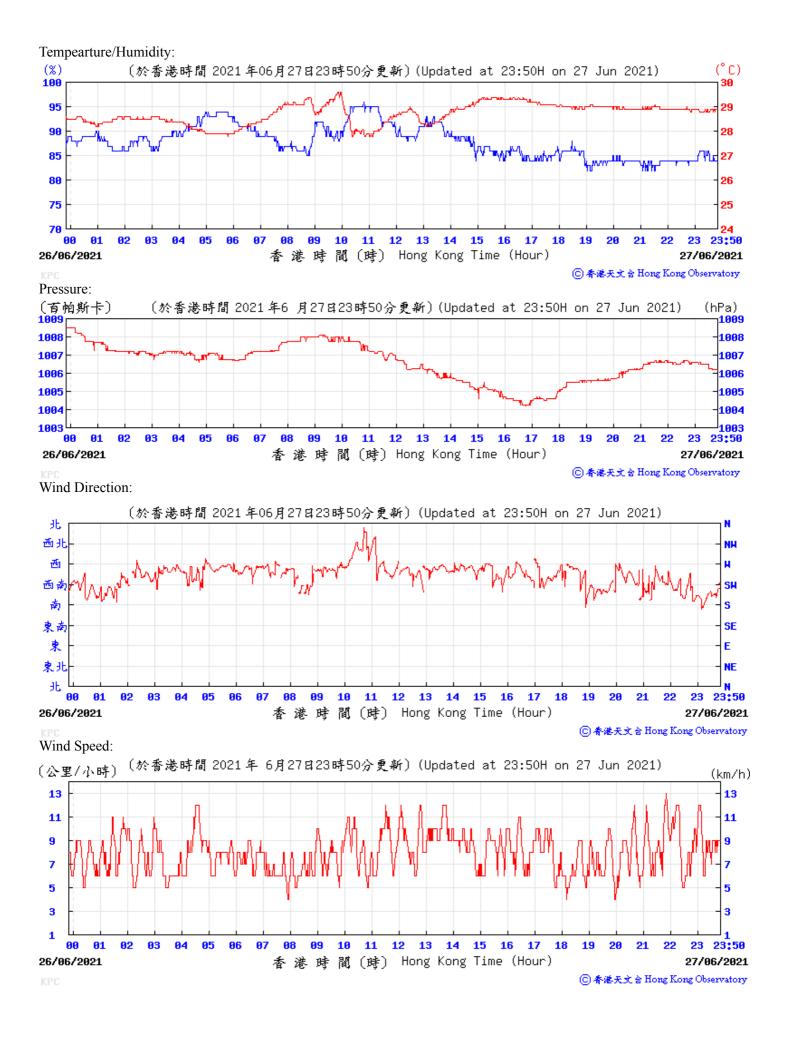


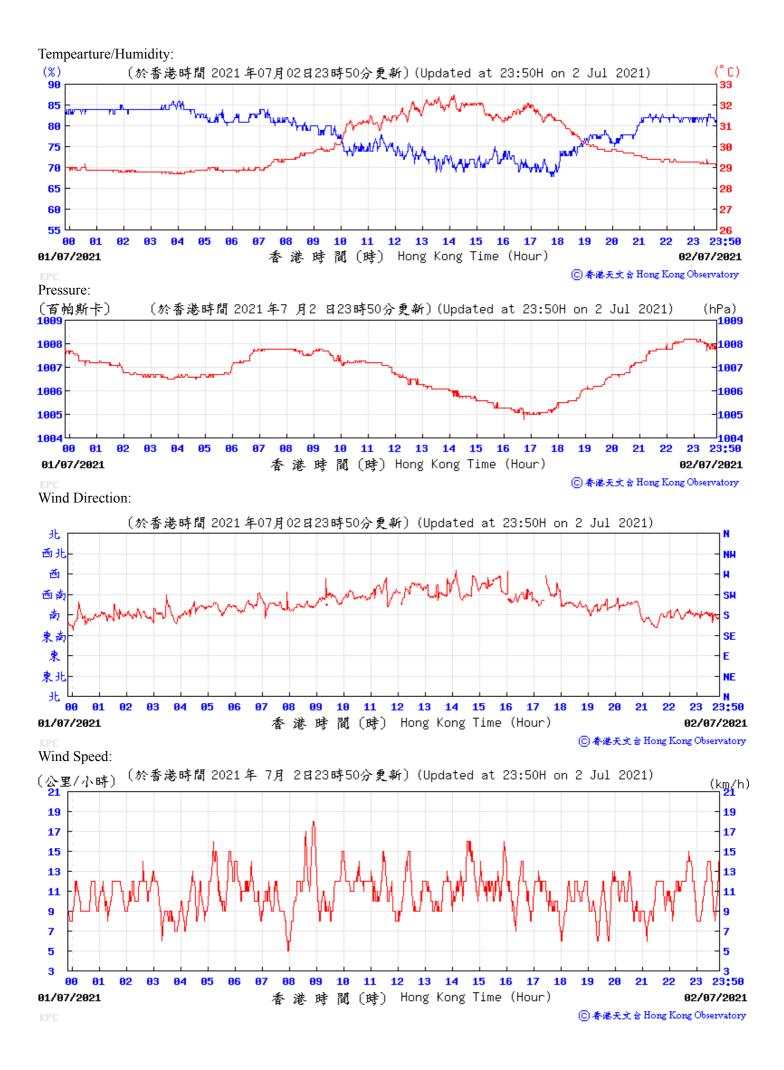


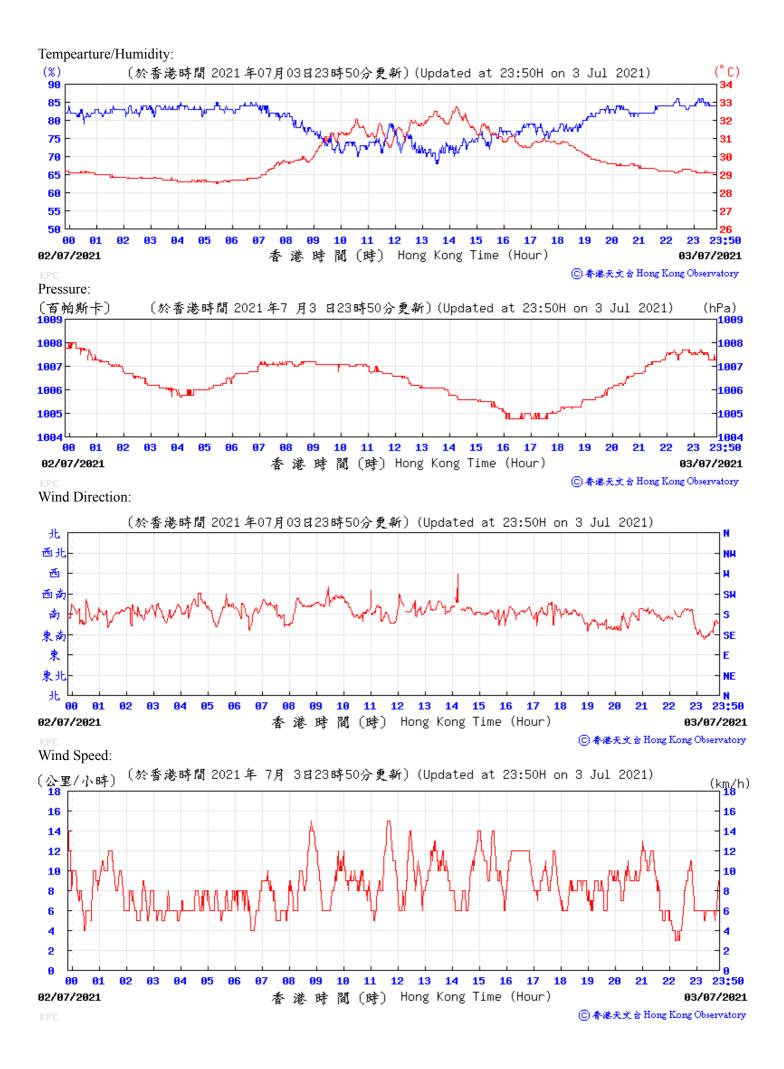


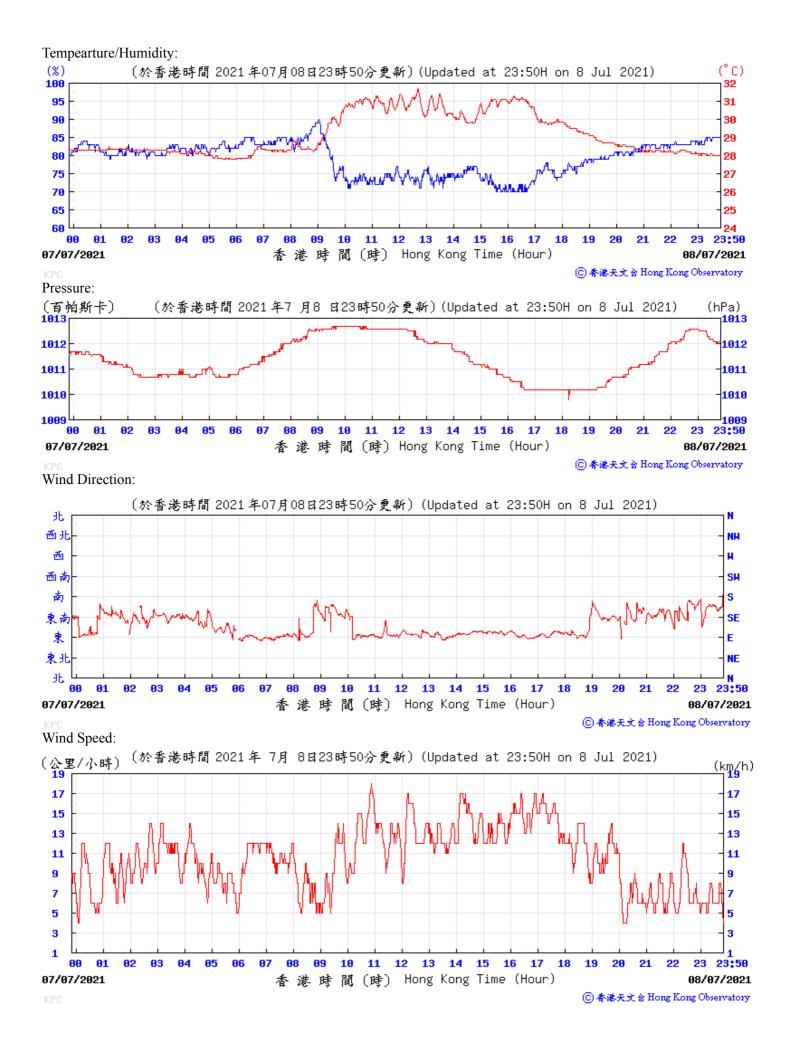


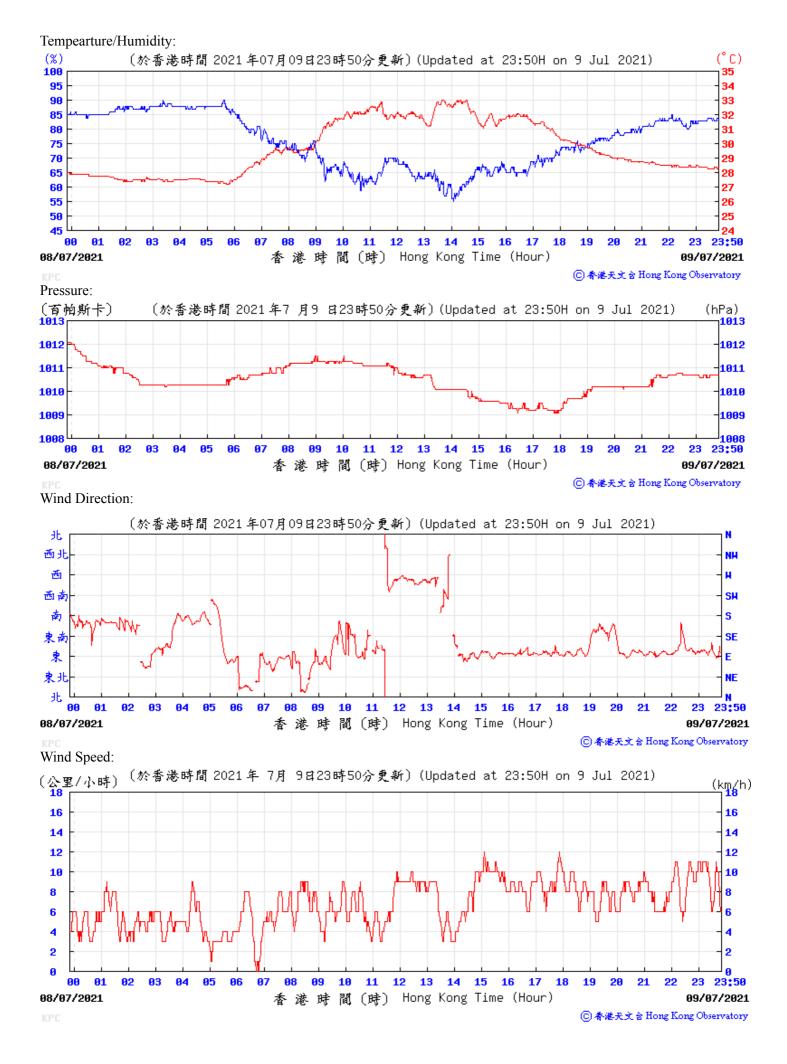


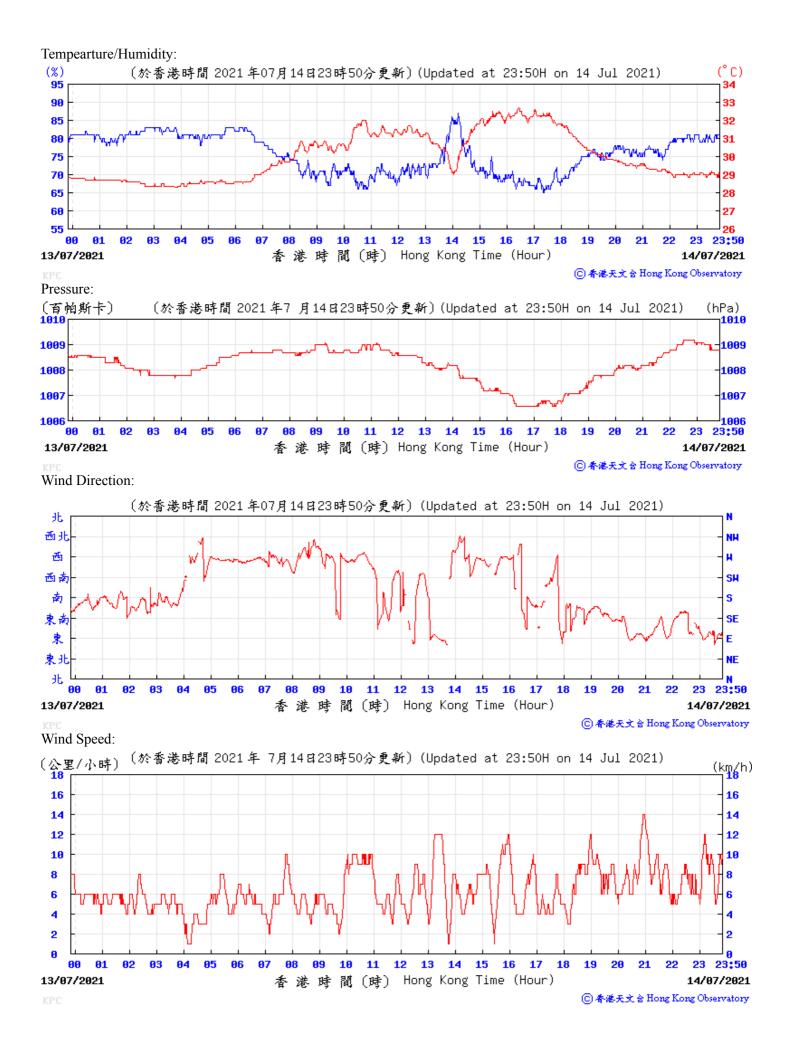


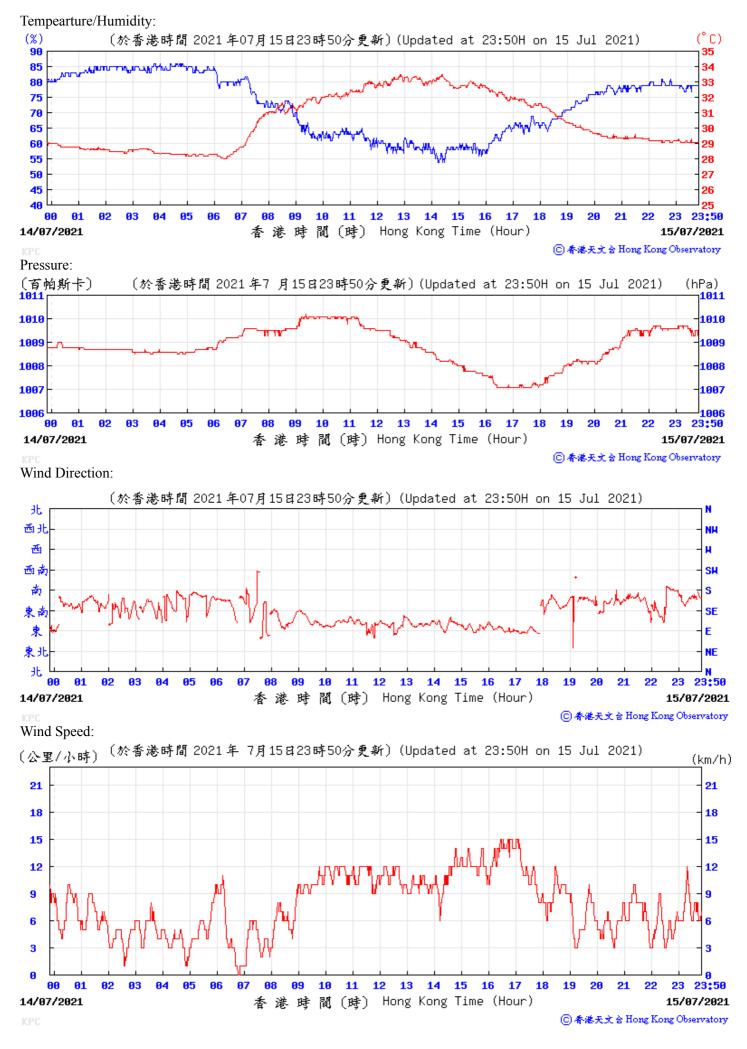


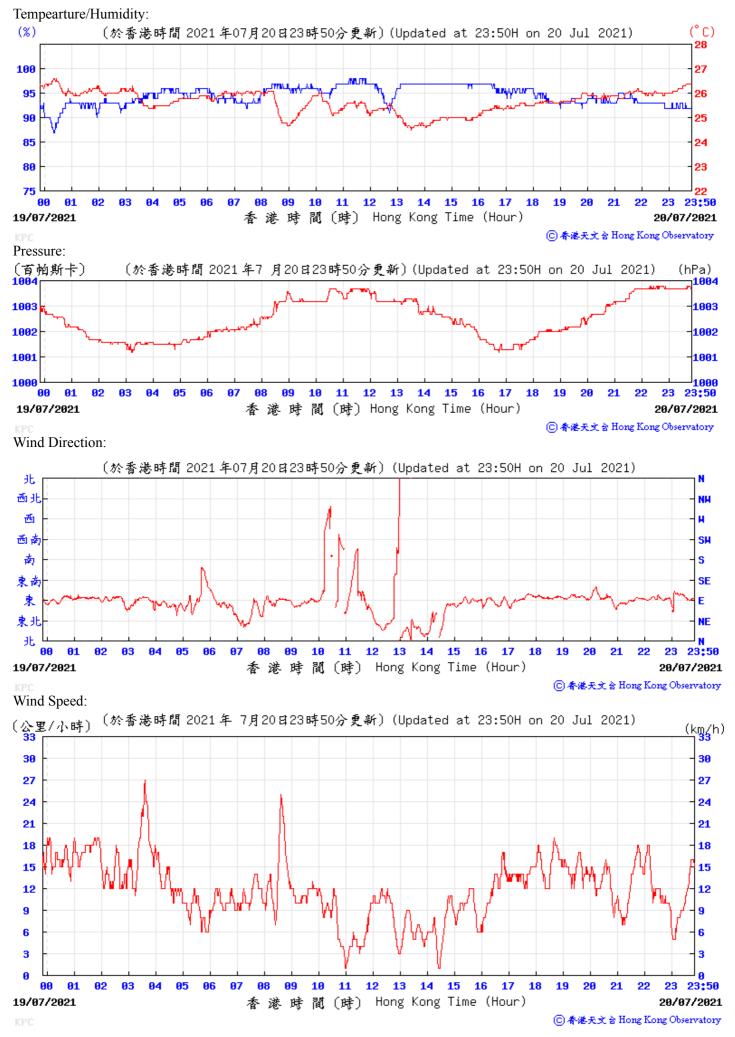


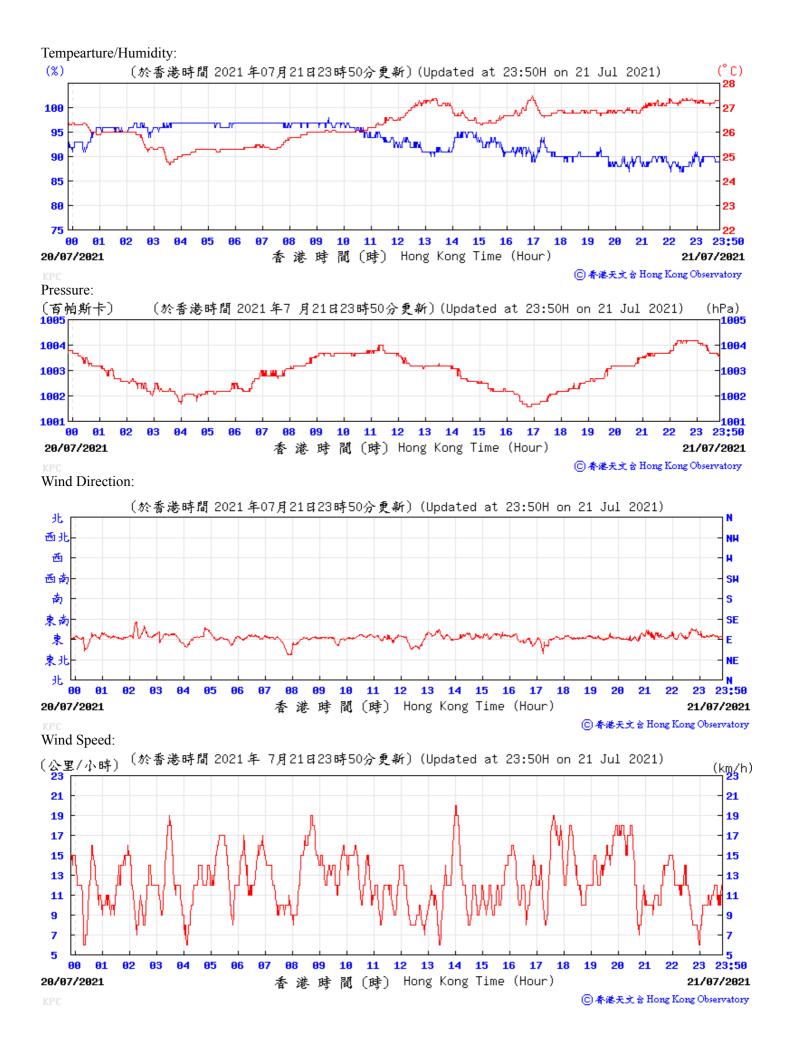


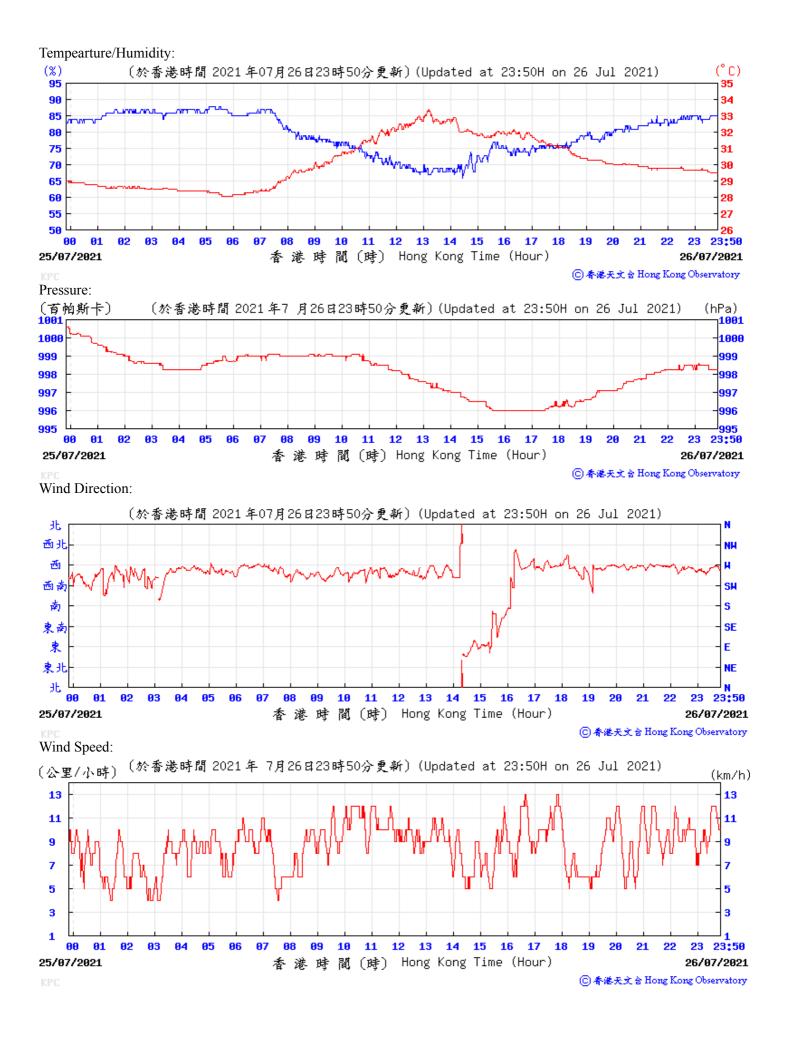


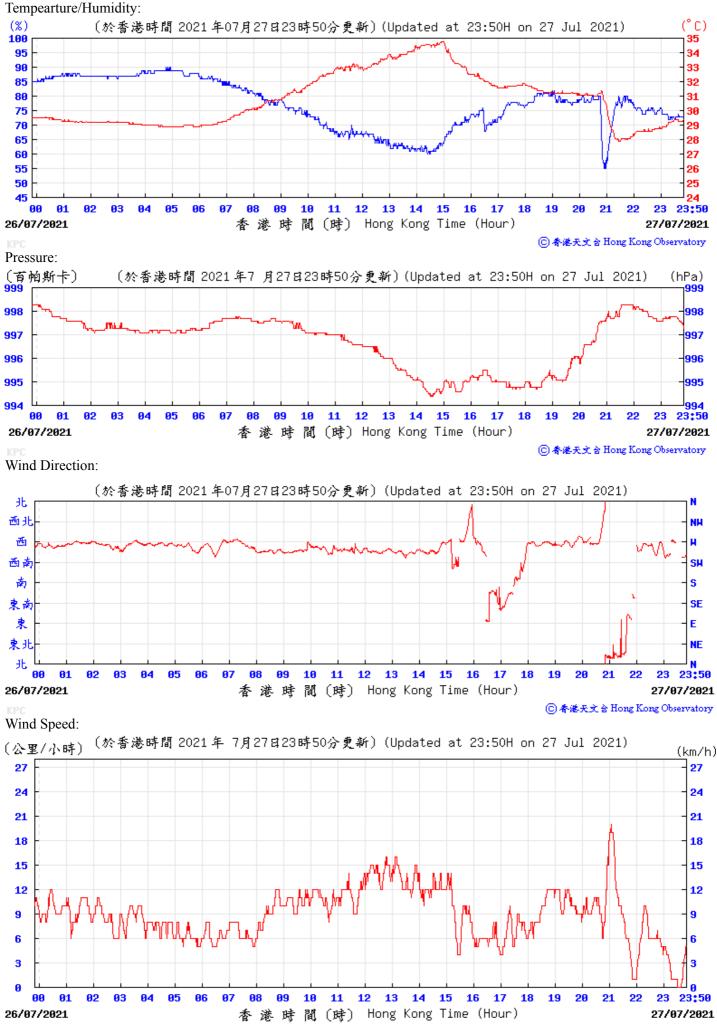




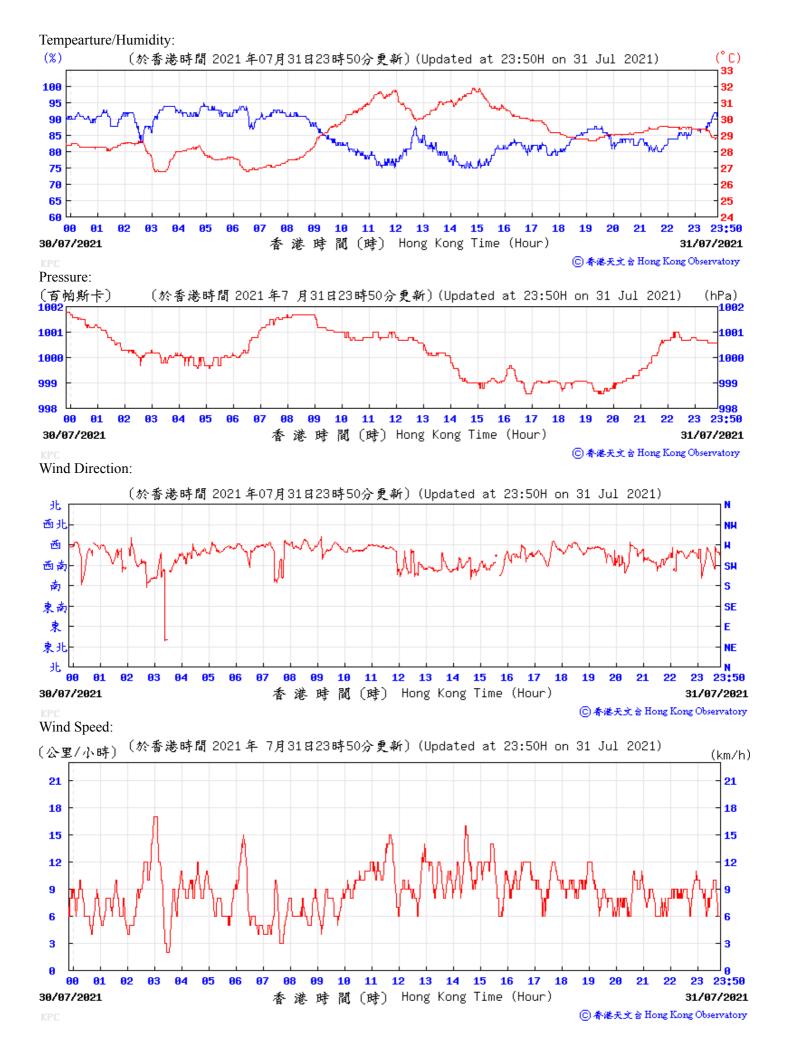


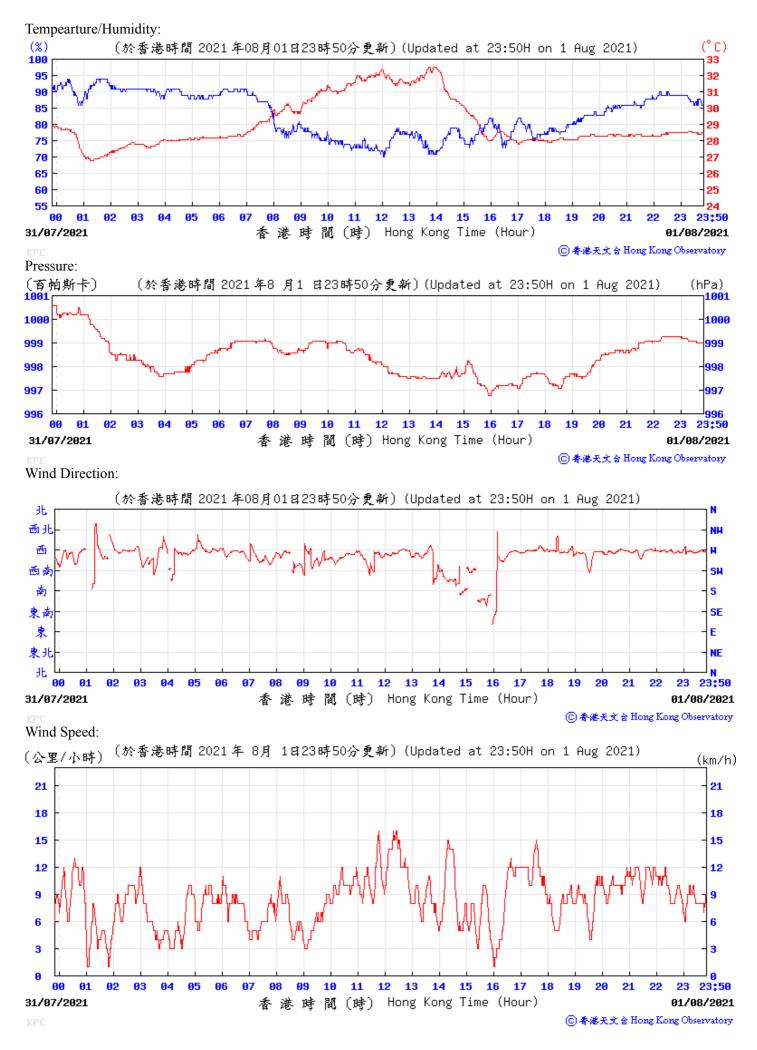






[◎] 香港天文 含 Hong Kong Observatory

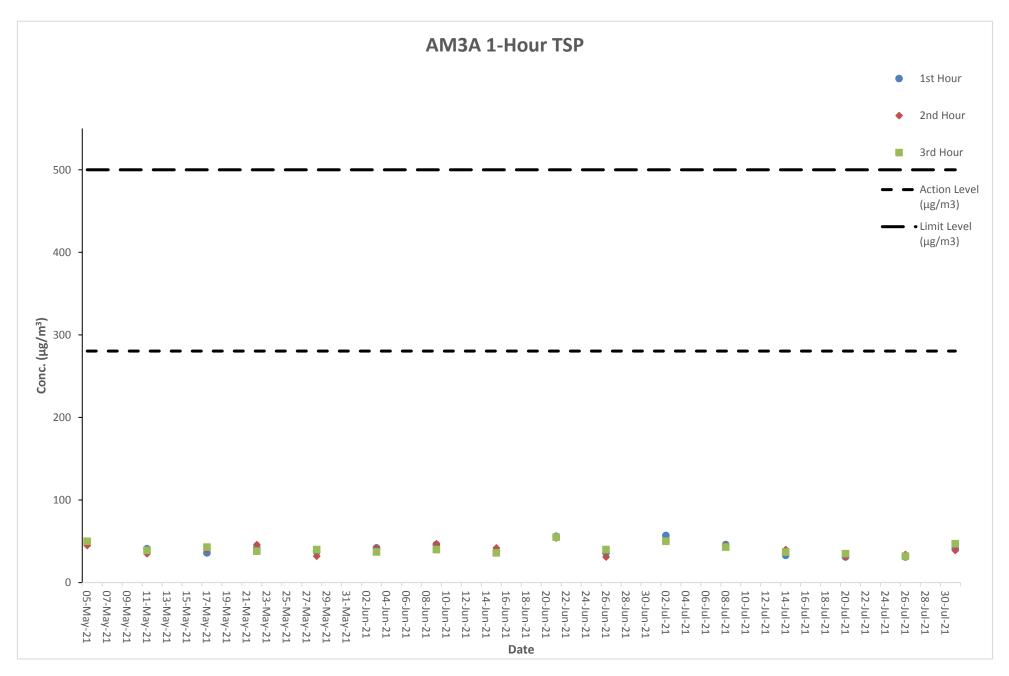




E. Graphical Plots of the Monitoring Results

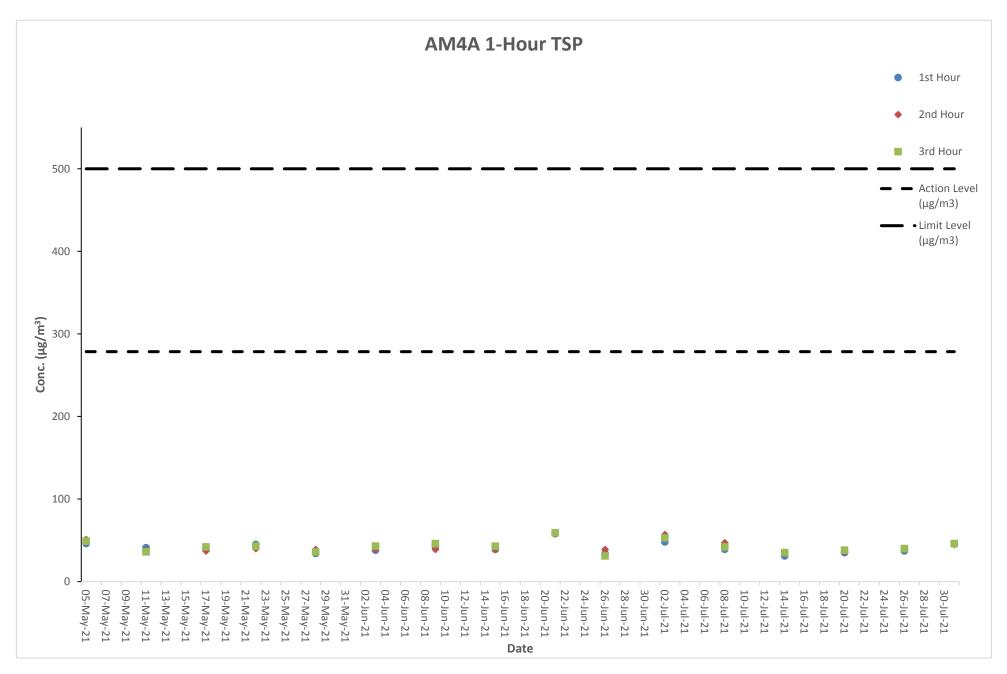
| | Weather | | C | conc. (µg/m` | 3) | Action Level | Limit Level |
|-----------|-----------|---------------|----------------------|----------------------|----------------------|--------------|-------------|
| Date | Condition | Time | 1 st Hour | 2 nd Hour | 3 rd Hour | (µg/m³) | (µg/m³) |
| 05-May-21 | Cloudy | 8:01 - 11:01 | 48 | 45 | 50 | 280.4 | 500 |
| 11-May-21 | Cloudy | 14:03 - 17:03 | 41 | 35 | 39 | 280.4 | 500 |
| 17-May-21 | Fine | 8:02 - 11:02 | 36 | 40 | 43 | 280.4 | 500 |
| 22-May-21 | Cloudy | 14:05 - 17:05 | 42 | 46 | 38 | 280.4 | 500 |
| 28-May-21 | Fine | 8:10 - 11:10 | 37 | 32 | 40 | 280.4 | 500 |
| 03-Jun-21 | Fine | 14:02 - 17:02 | 42 | 42 | 37 | 280.4 | 500 |
| 09-Jun-21 | Cloudy | 8:01 - 11:01 | 46 | 47 | 40 | 280.4 | 500 |
| 15-Jun-21 | Cloudy | 14:01 - 17:01 | 38 | 42 | 36 | 280.4 | 500 |
| 21-Jun-21 | Cloudy | 8:03 - 11:03 | 56 | 54 | 55 | 280.4 | 500 |
| 26-Jun-21 | Cloudy | 14:00 - 17:00 | 36 | 31 | 40 | 280.4 | 500 |
| 02-Jul-21 | Fine | 8:02 - 11:02 | 57 | 50 | 50 | 280.4 | 500 |
| 08-Jul-21 | Cloudy | 14:07 - 17:07 | 46 | 45 | 43 | 280.4 | 500 |
| 14-Jul-21 | Cloudy | 8:10 - 11:10 | 33 | 40 | 37 | 280.4 | 500 |
| 20-Jul-21 | Cloudy | 14:15 - 17:15 | 31 | 31 | 35 | 280.4 | 500 |
| 26-Jul-21 | Fine | 8:12 - 11:12 | 31 | 34 | 32 | 280.4 | 500 |
| 31-Jul-21 | Cloudy | 14:09 - 17:09 | 41 | 39 | 47 | 280.4 | 500 |

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



| | Weather | | C | conc. (µg/m` | 3) | Action Level | Limit Level |
|-----------|-----------|---------------|----------------------|----------------------|----------------------|--------------|-------------|
| Date | Condition | Time | 1 st Hour | 2 nd Hour | 3 rd Hour | (µg/m³) | (µg/m³) |
| 05-May-21 | Cloudy | 8:09 - 11:09 | 46 | 51 | 49 | 278.5 | 500 |
| 11-May-21 | Cloudy | 14:11 - 17:11 | 41 | 38 | 36 | 278.5 | 500 |
| 17-May-21 | Fine | 8:10 - 11:10 | 40 | 37 | 42 | 278.5 | 500 |
| 22-May-21 | Cloudy | 14:13 - 17:13 | 45 | 40 | 43 | 278.5 | 500 |
| 28-May-21 | Fine | 8:18 - 11:18 | 34 | 39 | 36 | 278.5 | 500 |
| 03-Jun-21 | Fine | 14:10 - 17:10 | 38 | 39 | 43 | 278.5 | 500 |
| 09-Jun-21 | Cloudy | 8:09 - 11:09 | 42 | 39 | 46 | 278.5 | 500 |
| 15-Jun-21 | Cloudy | 14:09 - 17:09 | 39 | 39 | 43 | 278.5 | 500 |
| 21-Jun-21 | Cloudy | 8:11 - 11:11 | 58 | 58 | 59 | 278.5 | 500 |
| 26-Jun-21 | Cloudy | 14:08 - 17:08 | 34 | 39 | 31 | 278.5 | 500 |
| 02-Jul-21 | Fine | 8:10 - 11:10 | 48 | 57 | 53 | 278.5 | 500 |
| 08-Jul-21 | Cloudy | 14:15 - 17:15 | 39 | 47 | 42 | 278.5 | 500 |
| 14-Jul-21 | Cloudy | 8:18 - 11:18 | 31 | 34 | 35 | 278.5 | 500 |
| 20-Jul-21 | Cloudy | 14:23 - 17:23 | 35 | 36 | 38 | 278.5 | 500 |
| 26-Jul-21 | Fine | 8:20 - 11:20 | 37 | 40 | 40 | 278.5 | 500 |
| 31-Jul-21 | Cloudy | 14:17 - 17:17 | 46 | 45 | 46 | 278.5 | 500 |

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

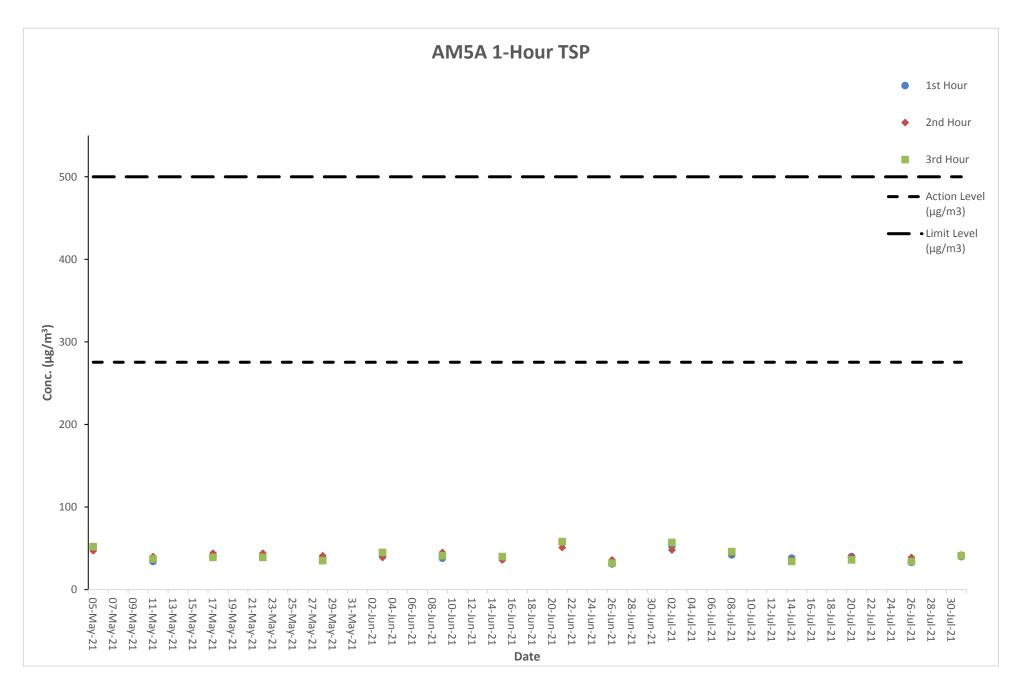


Development at West Kowloon Cultural District

Quarterly Environmental Monitoring and Audit (EM&A) Report (May-July 2021)

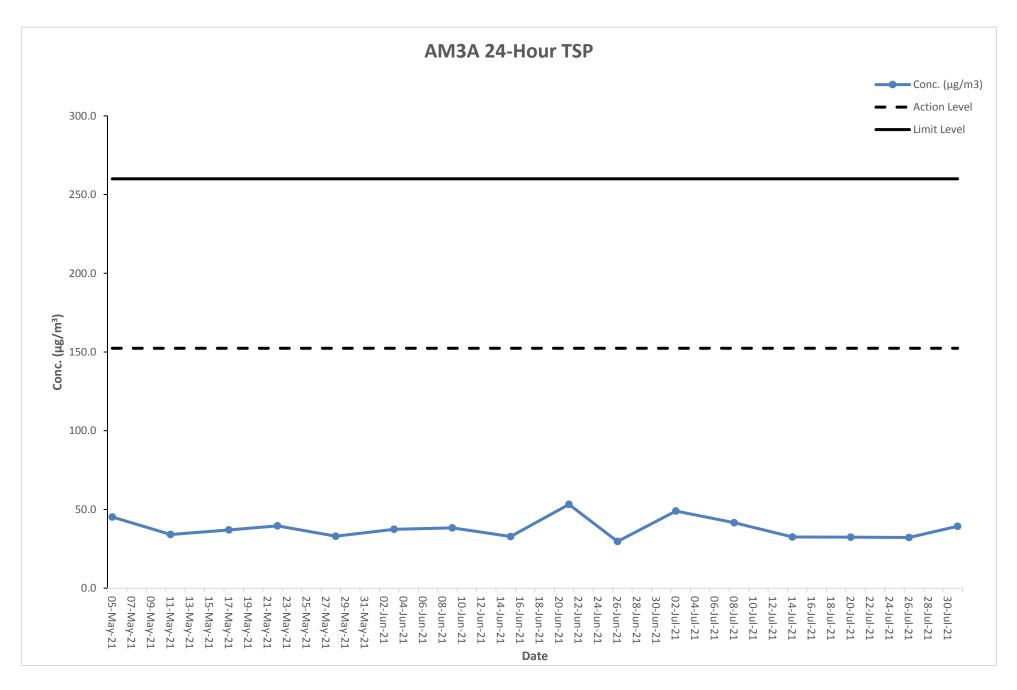
| | Weather | | C | Conc. (µg/m` | 3) | Action Level | Limit Level |
|-----------|-----------|---------------|----------------------|----------------------|----------------------|--------------|-------------|
| Date | Condition | Time | 1 st Hour | 2 nd Hour | 3 rd Hour | (µg/m³) | (µg/m³) |
| 05-May-21 | Cloudy | 8:24 - 11:24 | 50 | 47 | 52 | 275.4 | 500 |
| 11-May-21 | Cloudy | 14:28 - 17:28 | 34 | 40 | 37 | 275.4 | 500 |
| 17-May-21 | Fine | 8:25 - 11:25 | 41 | 44 | 39 | 275.4 | 500 |
| 22-May-21 | Cloudy | 14:30 - 17:30 | 41 | 44 | 39 | 275.4 | 500 |
| 28-May-21 | Fine | 8:33 - 11:33 | 38 | 41 | 35 | 275.4 | 500 |
| 03-Jun-21 | Fine | 14:25 - 17:25 | 41 | 39 | 45 | 275.4 | 500 |
| 09-Jun-21 | Cloudy | 8:26 - 11:26 | 38 | 45 | 41 | 275.4 | 500 |
| 15-Jun-21 | Cloudy | 14:24 - 17:24 | 37 | 36 | 40 | 275.4 | 500 |
| 21-Jun-21 | Cloudy | 8:28 - 11:28 | 58 | 51 | 58 | 275.4 | 500 |
| 26-Jun-21 | Cloudy | 14:23 - 17:23 | 31 | 36 | 32 | 275.4 | 500 |
| 02-Jul-21 | Fine | 8:25 - 11:25 | 53 | 48 | 57 | 275.4 | 500 |
| 08-Jul-21 | Cloudy | 14:32 - 17:32 | 42 | 44 | 46 | 275.4 | 500 |
| 14-Jul-21 | Cloudy | 8:33 - 11:33 | 38 | 36 | 34 | 275.4 | 500 |
| 20-Jul-21 | Cloudy | 14:40 - 17:40 | 40 | 40 | 36 | 275.4 | 500 |
| 26-Jul-21 | Fine | 8:35 - 11:35 | 33 | 39 | 34 | 275.4 | 500 |
| 31-Jul-21 | Cloudy | 14:25 - 17:25 | 40 | 42 | 41 | 275.4 | 500 |

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



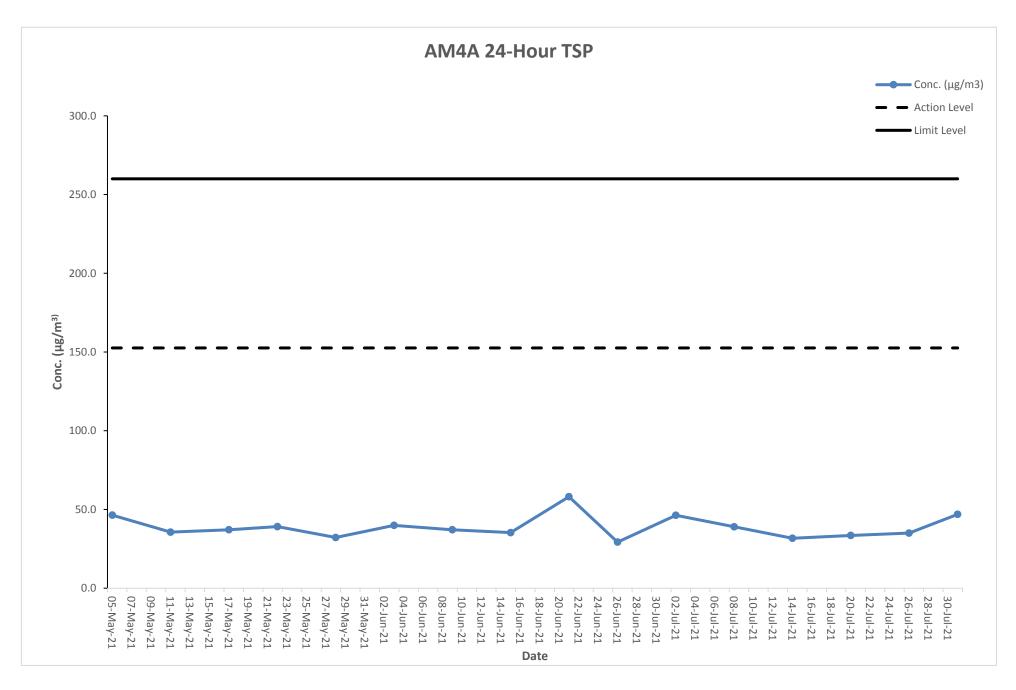
| Sta | rt | Finis | sh | Filter W | eight (g) | Elapsed Tir | me Reading | Sampling | pling Flow Rate | | n ³ /min) | Conc. | Weather | Action | Limit |
|-----------|-------|-----------|-------|----------|-----------|-------------|------------|------------|-----------------|-------|----------------------|---------|-----------|--------|-------|
| Date | Time | Date | Time | Initial | Final | Initial | Final | Time (hrs) | Initial | Final | Average | (µg/m³) | Condition | Level | Level |
| 05-May-21 | 10:00 | 06-May-21 | 10:00 | 2.8061 | 2.8789 | 1940.8 | 1964.8 | 24 | 1.12 | 1.12 | 1.12 | 45.2 | Cloudy | 152.4 | 260 |
| 11-May-21 | 10:00 | 12-May-21 | 10:00 | 2.8019 | 2.8567 | 1964.8 | 1988.8 | 24 | 1.12 | 1.12 | 1.12 | 34.1 | Fine | 152.4 | 260 |
| 17-May-21 | 10:00 | 18-May-21 | 10:00 | 2.8041 | 2.8636 | 1988.8 | 2012.8 | 24 | 1.12 | 1.12 | 1.12 | 37.0 | Sunny | 152.4 | 260 |
| 22-May-21 | 10:00 | 23-May-21 | 10:00 | 2.8029 | 2.8667 | 2012.8 | 2036.8 | 24 | 1.12 | 1.12 | 1.12 | 39.6 | Cloudy | 152.4 | 260 |
| 28-May-21 | 10:00 | 29-May-21 | 10:00 | 2.8077 | 2.8608 | 2036.8 | 2060.8 | 24 | 1.12 | 1.12 | 1.12 | 33.0 | Sunny | 152.4 | 260 |
| 03-Jun-21 | 10:00 | 04-Jun-21 | 10:00 | 2.8077 | 2.8679 | 2060.8 | 2084.8 | 24 | 1.12 | 1.12 | 1.12 | 37.4 | Sunny | 152.4 | 260 |
| 09-Jun-21 | 10:00 | 10-Jun-21 | 10:00 | 2.8075 | 2.8691 | 2084.8 | 2108.8 | 24 | 1.12 | 1.12 | 1.12 | 38.3 | Rainy | 152.4 | 260 |
| 15-Jun-21 | 10:00 | 16-Jun-21 | 10:00 | 2.8090 | 2.8617 | 2108.8 | 2132.8 | 24 | 1.12 | 1.12 | 1.12 | 32.8 | Rainy | 152.4 | 260 |
| 21-Jun-21 | 10:00 | 22-Jun-21 | 10:00 | 2.8069 | 2.8926 | 2132.8 | 2156.8 | 24 | 1.12 | 1.12 | 1.12 | 53.2 | Cloudy | 152.4 | 260 |
| 26-Jun-21 | 10:00 | 27-Jun-21 | 10:00 | 2.8051 | 2.8528 | 2156.8 | 2180.8 | 24 | 1.12 | 1.12 | 1.12 | 29.7 | Rainy | 152.4 | 260 |
| 02-Jul-21 | 10:00 | 03-Jul-21 | 10:00 | 2.8056 | 2.8845 | 2180.8 | 2204.8 | 24 | 1.12 | 1.12 | 1.12 | 49.0 | Sunny | 152.4 | 260 |
| 08-Jul-21 | 10:00 | 09-Jul-21 | 10:00 | 2.8042 | 2.8712 | 2204.8 | 2228.8 | 24 | 1.12 | 1.12 | 1.12 | 41.6 | Cloudy | 152.4 | 260 |
| 14-Jul-21 | 10:00 | 15-Jul-21 | 10:00 | 2.8023 | 2.8546 | 2228.8 | 2252.8 | 24 | 1.12 | 1.12 | 1.12 | 32.5 | Cloudy | 152.4 | 260 |
| 20-Jul-21 | 10:00 | 21-Jul-21 | 10:00 | 2.8061 | 2.8583 | 2252.8 | 2276.8 | 24 | 1.12 | 1.12 | 1.12 | 32.4 | Rainy | 152.4 | 260 |
| 26-Jul-21 | 10:00 | 27-Jul-21 | 10:00 | 2.8048 | 2.8566 | 2276.8 | 2300.8 | 24 | 1.12 | 1.12 | 1.12 | 32.2 | Fine | 152.4 | 260 |
| 31-Jul-21 | 10:00 | 01-Aug-21 | 10:00 | 2.8065 | 2.8698 | 2300.8 | 2324.8 | 24 | 1.12 | 1.12 | 1.12 | 39.3 | Rainy | 152.4 | 260 |

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



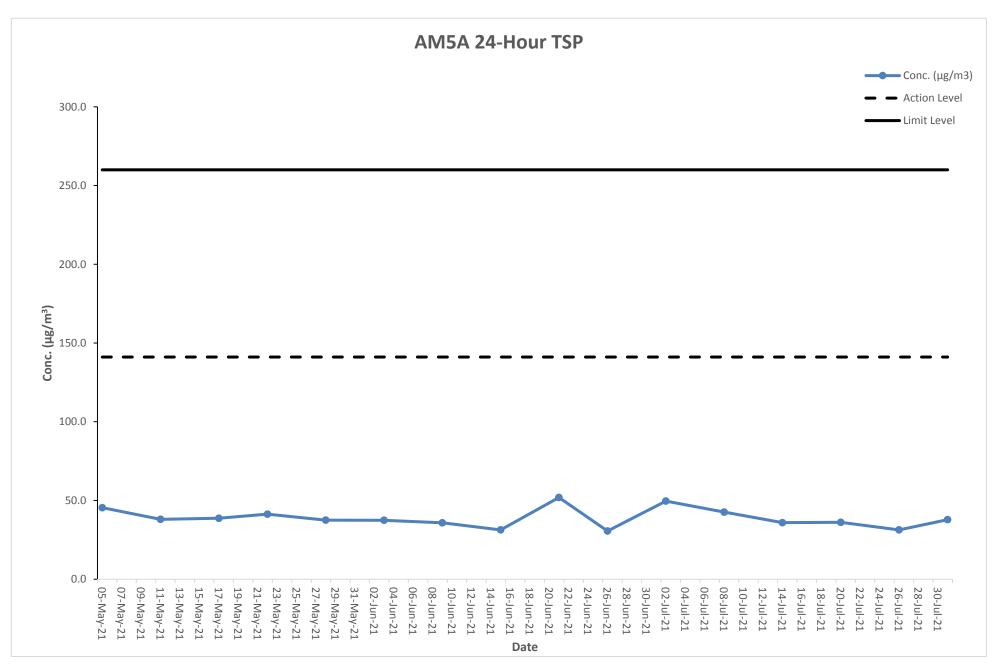
| Sta | rt | Finis | sh | Filter W | eight (g) | Elapsed Ti | me Reading | Sampling | Flow Rate (m ³ /min) | | Conc. Weather | | Action | Limit | |
|-----------|-------|-----------|-------|----------|-----------|------------|------------|------------|---------------------------------|-------|---------------|---------|-----------|-------|-------|
| Date | Time | Date | Time | Initial | Final | Initial | Final | Time (hrs) | Initial | Final | Average | (µg/m³) | Condition | Level | Level |
| 05-May-21 | 10:00 | 06-May-21 | 10:00 | 2.8065 | 2.8813 | 2360.4 | 2384.4 | 24 | 1.12 | 1.12 | 1.12 | 46.4 | Cloudy | 152.6 | 260 |
| 11-May-21 | 10:00 | 12-May-21 | 10:00 | 2.8040 | 2.8613 | 2384.4 | 2408.4 | 24 | 1.12 | 1.12 | 1.12 | 35.6 | Fine | 152.6 | 260 |
| 17-May-21 | 10:00 | 18-May-21 | 10:00 | 2.8082 | 2.8680 | 2408.4 | 2432.4 | 24 | 1.12 | 1.12 | 1.12 | 37.1 | Sunny | 152.6 | 260 |
| 22-May-21 | 10:00 | 23-May-21 | 10:00 | 2.8038 | 2.8667 | 2432.4 | 2456.4 | 24 | 1.12 | 1.12 | 1.12 | 39.1 | Cloudy | 152.6 | 260 |
| 28-May-21 | 10:00 | 29-May-21 | 10:00 | 2.8060 | 2.8578 | 2456.4 | 2480.4 | 24 | 1.12 | 1.12 | 1.12 | 32.2 | Sunny | 152.6 | 260 |
| 03-Jun-21 | 10:00 | 04-Jun-21 | 10:00 | 2.8054 | 2.8696 | 2480.4 | 2504.4 | 24 | 1.12 | 1.12 | 1.12 | 39.9 | Sunny | 152.6 | 260 |
| 09-Jun-21 | 10:00 | 10-Jun-21 | 10:00 | 2.8038 | 2.8636 | 2504.4 | 2528.4 | 24 | 1.12 | 1.12 | 1.12 | 37.1 | Rainy | 152.6 | 260 |
| 15-Jun-21 | 10:00 | 16-Jun-21 | 10:00 | 2.8016 | 2.8584 | 2528.4 | 2552.4 | 24 | 1.12 | 1.12 | 1.12 | 35.3 | Rainy | 152.6 | 260 |
| 21-Jun-21 | 10:00 | 22-Jun-21 | 10:00 | 2.8040 | 2.8975 | 2552.4 | 2576.4 | 24 | 1.12 | 1.12 | 1.12 | 58.1 | Cloudy | 152.6 | 260 |
| 26-Jun-21 | 10:00 | 27-Jun-21 | 10:00 | 2.8037 | 2.8508 | 2576.4 | 2600.4 | 24 | 1.12 | 1.12 | 1.12 | 29.3 | Rainy | 152.6 | 260 |
| 02-Jul-21 | 10:00 | 03-Jul-21 | 10:00 | 2.8050 | 2.8794 | 2600.4 | 2624.4 | 24 | 1.12 | 1.12 | 1.12 | 46.3 | Sunny | 152.6 | 260 |
| 08-Jul-21 | 10:00 | 09-Jul-21 | 10:00 | 2.8071 | 2.8699 | 2624.4 | 2648.4 | 24 | 1.12 | 1.12 | 1.12 | 39.0 | Cloudy | 152.6 | 260 |
| 14-Jul-21 | 10:00 | 15-Jul-21 | 10:00 | 2.8058 | 2.8568 | 2648.4 | 2672.4 | 24 | 1.12 | 1.12 | 1.12 | 31.7 | Cloudy | 152.6 | 260 |
| 20-Jul-21 | 10:00 | 21-Jul-21 | 10:00 | 2.8065 | 2.8605 | 2672.4 | 2696.4 | 24 | 1.12 | 1.12 | 1.12 | 33.5 | Rainy | 152.6 | 260 |
| 26-Jul-21 | 10:00 | 27-Jul-21 | 10:00 | 2.8040 | 2.8603 | 2696.4 | 2720.4 | 24 | 1.12 | 1.12 | 1.12 | 35.0 | Fine | 152.6 | 260 |
| 31-Jul-21 | 10:00 | 01-Aug-21 | 10:00 | 2.8068 | 2.8823 | 2720.4 | 2744.4 | 24 | 1.12 | 1.12 | 1.12 | 46.9 | Rainy | 152.6 | 260 |

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



| Sta | rt | Finis | sh | Filter We | eight (g) | Elapsed Tir | me Reading | Sampling | Flow Rate (m ³ /min) | | Conc. | Weather | Action | Limit | |
|-----------|-------|-----------|-------|-----------|-----------|-------------|------------|------------|---------------------------------|-------|---------|---------|-----------|-------|-------|
| Date | Time | Date | Time | Initial | Final | Initial | Final | Time (hrs) | Initial | Final | Average | (µg/m³) | Condition | Level | Level |
| 05-May-21 | 10:00 | 06-May-21 | 10:00 | 2.8014 | 2.8745 | 2500.6 | 2524.6 | 24 | 1.12 | 1.12 | 1.12 | 45.4 | Cloudy | 141.1 | 260 |
| 11-May-21 | 10:00 | 12-May-21 | 10:00 | 2.8071 | 2.8683 | 2524.6 | 2548.6 | 24 | 1.12 | 1.12 | 1.12 | 38.0 | Fine | 141.1 | 260 |
| 17-May-21 | 10:00 | 18-May-21 | 10:00 | 2.8031 | 2.8654 | 2548.6 | 2572.6 | 24 | 1.12 | 1.12 | 1.12 | 38.7 | Sunny | 141.1 | 260 |
| 22-May-21 | 10:00 | 23-May-21 | 10:00 | 2.8085 | 2.8749 | 2572.6 | 2596.6 | 24 | 1.12 | 1.12 | 1.12 | 41.3 | Cloudy | 141.1 | 260 |
| 28-May-21 | 10:00 | 29-May-21 | 10:00 | 2.8031 | 2.8635 | 2596.6 | 2620.6 | 24 | 1.12 | 1.12 | 1.12 | 37.5 | Sunny | 141.1 | 260 |
| 03-Jun-21 | 10:00 | 04-Jun-21 | 10:00 | 2.8074 | 2.8676 | 2620.6 | 2644.6 | 24 | 1.12 | 1.12 | 1.12 | 37.4 | Sunny | 141.1 | 260 |
| 09-Jun-21 | 10:00 | 10-Jun-21 | 10:00 | 2.8052 | 2.8628 | 2644.6 | 2668.6 | 24 | 1.12 | 1.12 | 1.12 | 35.8 | Rainy | 141.1 | 260 |
| 15-Jun-21 | 10:00 | 16-Jun-21 | 10:00 | 2.8042 | 2.8545 | 2668.6 | 2692.6 | 24 | 1.12 | 1.12 | 1.12 | 31.3 | Rainy | 141.1 | 260 |
| 21-Jun-21 | 10:00 | 22-Jun-21 | 10:00 | 2.8028 | 2.8863 | 2692.6 | 2716.6 | 24 | 1.12 | 1.12 | 1.12 | 51.9 | Cloudy | 141.1 | 260 |
| 26-Jun-21 | 10:00 | 27-Jun-21 | 10:00 | 2.8013 | 2.8506 | 2716.6 | 2740.6 | 24 | 1.12 | 1.12 | 1.12 | 30.6 | Rainy | 141.1 | 260 |
| 02-Jul-21 | 10:00 | 03-Jul-21 | 10:00 | 2.8049 | 2.8847 | 2740.6 | 2764.6 | 24 | 1.12 | 1.12 | 1.12 | 49.6 | Sunny | 141.1 | 260 |
| 08-Jul-21 | 10:00 | 09-Jul-21 | 10:00 | 2.8014 | 2.8699 | 2764.6 | 2788.6 | 24 | 1.12 | 1.12 | 1.12 | 42.6 | Cloudy | 141.1 | 260 |
| 14-Jul-21 | 10:00 | 15-Jul-21 | 10:00 | 2.8041 | 2.8619 | 2788.6 | 2812.6 | 24 | 1.12 | 1.12 | 1.12 | 35.9 | Cloudy | 141.1 | 260 |
| 20-Jul-21 | 10:00 | 21-Jul-21 | 10:00 | 2.8040 | 2.8621 | 2812.6 | 2836.6 | 24 | 1.12 | 1.12 | 1.12 | 36.1 | Rainy | 141.1 | 260 |
| 26-Jul-21 | 10:00 | 27-Jul-21 | 10:00 | 2.8013 | 2.8516 | 2836.6 | 2860.6 | 24 | 1.12 | 1.12 | 1.12 | 31.3 | Fine | 141.1 | 260 |
| 31-Jul-21 | 10:00 | 01-Aug-21 | 10:00 | 2.8021 | 2.8630 | 2860.6 | 2884.6 | 24 | 1.12 | 1.12 | 1.12 | 37.8 | Rainy | 141.1 | 260 |

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



Noise Monitoring Result at Station NM2A

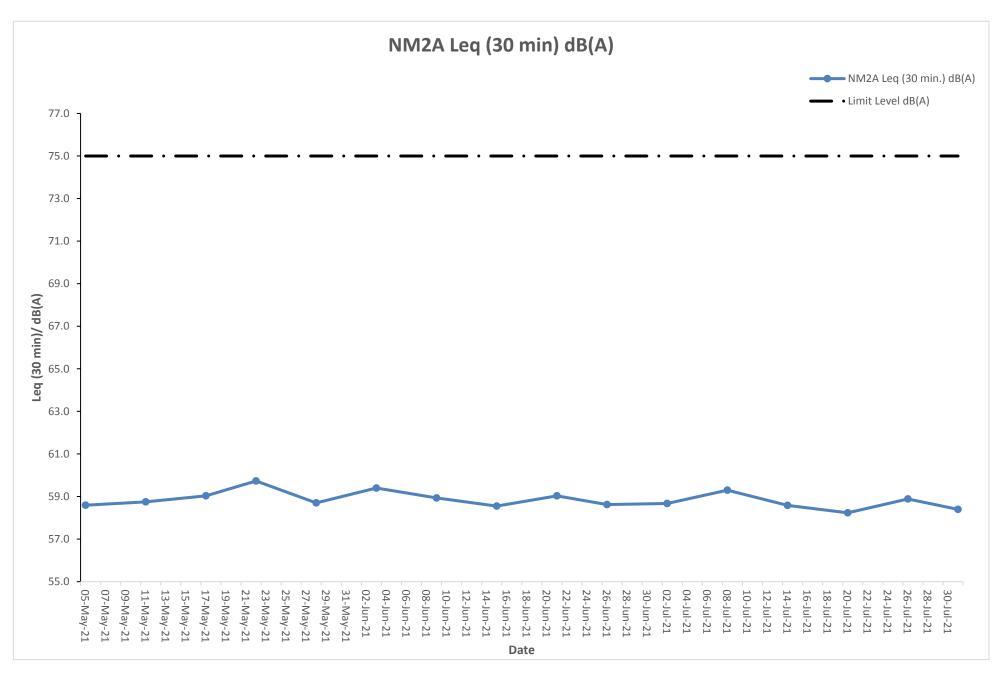
| Date | Time | Measured L10 dB(A) | Measured L90 dB(A) | Leq (30 min.) dB(A) |
|------------------------|---------------|--------------------|--------------------|---------------------|
| 05-May-21 | 8:31 | 64.1 | 55.9 | |
| 05-May-21 | 8:36 | 62.4 | 57.5 | |
| 05-May-21 | 8:41 | 65.2 | 57.1 | |
| 05-May-21 | 8:46 | 63.8 | 57.0 | 58.6 |
| 05-May-21 | 8:51 | 63.2 | 56.6 | |
| 05-May-21 | 8:56 | 63.1 | 57.6 | |
| 11-May-21 | 14:33 | 63.6 | 55.5 | |
| 11-May-21 | 14:38 | 63.7 | 55.6 | |
| 11-May-21 | 14:43 | 63.1 | 55.5 | |
| 11-May-21 | 14:48 | 63.3 | 56.5 | 58.8 |
| 11-May-21 | 14:53 | 64.7 | 57.3 | |
| 11-May-21 | 14:58 | 64.0 | 55.1 | |
| 17-May-21 | 8:32 | 62.4 | 58.0 | |
| 17-May-21 | 8:37 | 63.2 | 55.5 | |
| 17-May-21 | 8:42 | 63.7 | 56.9 | |
| 17-May-21 | 8:47 | 62.5 | 55.8 | 59.0 |
| 17-May-21 | 8:52 | 62.9 | 55.6 | |
| 17-May-21 | 8:57 | 64.2 | 55.7 | |
| 22-May-21 | 14:35 | 65.1 | 56.3 | |
| 22-May-21 | 14:40 | 64.8 | 56.9 | |
| 22-May-21 | 14:45 | 62.9 | 55.1 | E0 7 |
| 22-May-21 | 14:50 | 62.6 | 57.1 | 59.7 |
| 22-May-21 | 14:55 | 63.6 | 58.0 | |
| 22-May-21 | 15:00 | 62.6 | 57.7 | |
| 28-May-21 | 8:40 | 62.6 | 57.8 | |
| 28-May-21 | 8:45 | 63.7 | 55.5 | |
| 28-May-21 | 8:50 | 62.5 | 55.7 | 58.7 |
| 28-May-21 | 8:55 | 63.3 | 57.0 | 30.7 |
| 28-May-21 | 9:00 | 62.4 | 56.1 | |
| 28-May-21 | 9:05 | 62.7 | 55.5 | |
| 03-Jun-21 | 14:32 | 62.3 | 56.5 | |
| 03-Jun-21 | 14:37 | 64.4 | 55.9 | |
| 03-Jun-21 | 14:42 | 64.0 | 55.3 | 59.4 |
| 03-Jun-21 | 14:47 | 64.1 | 55.0 | 00.1 |
| 03-Jun-21 | 14:52 | 62.6 | 54.1 | |
| 03-Jun-21 | 14:57 | 64.2 | 54.6 | |
| 09-Jun-21 | 8:31 | 63.4 | 54.2 | |
| 09-Jun-21 | 8:36 | 64.3 | 55.4 | |
| 09-Jun-21 | 8:41 | 62.4 | 56.1 | 58.9 |
| 09-Jun-21 | 8:46 | 64.5 | 56.3 | |
| 09-Jun-21 | 8:51 | 62.5 | 55.9 | |
| 09-Jun-21 | 8:56 | 62.9 | 54.5 | |
| 15-Jun-21 | 14:31 | 63.7 | 55.7 | |
| 15-Jun-21 | 14:36 | 64.4 | 56.0 | |
| 15-Jun-21 | 14:41 | 64.0 | 56.8 | 58.6 |
| 15-Jun-21 | 14:46 | 64.0 64.3 | 56.8 54.5 | |
| 15-Jun-21 | 14:51 | | 54.5 55.3 | |
| 15-Jun-21 21-Jun-21 | 14:56 8:33 | 62.6 62.1 | 55.3 54.1 | |
| 21-Jun-21 21-Jun-21 | 8:38 | 62.6 | 54.6 | |
| 21-Jun-21 21-Jun-21 | 8:43 | 62.7 | 55.4 | |
| 21-Jun-21 21-Jun-21 | 8:43 | 64.1 | 54.8 | 59.0 |
| 21-Jun-21 21-Jun-21 | 8:53 | 63.4 | 56.0 | |
| 21-Jun-21 | 8:58 | 63.0 | 54.7 | |
| 26-Jun-21 | 14:30 | 63.1 | 55.3 | |
| 26-Jun-21 | 14:35 | 63.8 | 56.1 | |
| 26-Jun-21 | 14:40 | 63.9 | 55.9 | |
| 26-Jun-21 | 14:45 | 64.5 | 56.6 | 58.6 |
| 26-Jun-21 | 14:50 | 62.7 | 56.7 | |
| 26-Jun-21 | 14:55 | 64.0 | 54.3 | |
| 20 0011 21 | | 01.0 | 01.0 | |

Noise Monitoring Result at Station NM2A

| Date | Time | Measured L10 dB(A) | Measured L90 dB(A) | Leq (30 min.) dB(A) |
|-----------|-------|--------------------|--------------------|---------------------|
| 02-Jul-21 | 8:32 | 62.3 | 54.7 | |
| 02-Jul-21 | 8:37 | 64.8 | 55.0 | |
| 02-Jul-21 | 8:42 | 63.1 | 56.7 | 58.7 |
| 02-Jul-21 | 8:47 | 62.8 | 54.5 | 58.7 |
| 02-Jul-21 | 8:52 | 62.6 | 54.1 | |
| 02-Jul-21 | 8:57 | 63.4 | 56.7 | |
| 08-Jul-21 | 14:37 | 63.3 | 54.4 | |
| 08-Jul-21 | 14:42 | 63.8 | 55.6 | |
| 08-Jul-21 | 14:47 | 64.8 | 54.3 | 59.3 |
| 08-Jul-21 | 14:52 | 62.6 | 56.6 | 59.5 |
| 08-Jul-21 | 14:57 | 62.2 | 55.6 | |
| 08-Jul-21 | 15:02 | 62.1 | 54.8 | |
| 14-Jul-21 | 8:40 | 64.9 | 54.9 | |
| 14-Jul-21 | 8:45 | 62.9 | 54.7 | |
| 14-Jul-21 | 8:50 | 63.1 | 56.5 | 58.6 |
| 14-Jul-21 | 8:55 | 64.7 | 55.1 | 58.0 |
| 14-Jul-21 | 9:00 | 64.2 | 55.6 | |
| 14-Jul-21 | 9:05 | 63.6 | 55.8 | |
| 20-Jul-21 | 14:45 | 63.9 | 55.7 | |
| 20-Jul-21 | 14:50 | 64.6 | 55.6 | |
| 20-Jul-21 | 14:55 | 63.0 | 56.8 | 58.2 |
| 20-Jul-21 | 15:00 | 64.5 | 55.0 | 58.2 |
| 20-Jul-21 | 15:05 | 63.0 | 56.1 | |
| 20-Jul-21 | 15:10 | 62.5 | 54.4 | |
| 26-Jul-21 | 8:42 | 64.8 | 55.0 | |
| 26-Jul-21 | 8:47 | 62.1 | 54.1 | |
| 26-Jul-21 | 8:52 | 63.5 | 56.5 | 58.9 |
| 26-Jul-21 | 8:57 | 64.1 | 54.9 | 58.9 |
| 26-Jul-21 | 9:02 | 62.9 | 55.4 | |
| 26-Jul-21 | 9:07 | 64.3 | 55.4 | |
| 31-Jul-21 | 14:09 | 63.6 | 55.8 | |
| 31-Jul-21 | 14:14 | 62.2 | 56.6 | |
| 31-Jul-21 | 14:19 | 63.3 | 55.4 | 58.4 |
| 31-Jul-21 | 14:24 | 62.8 | 56.5 | 50.4 |
| 31-Jul-21 | 14:29 | 63.3 | 54.9 | |
| 31-Jul-21 | 14:34 | 64.9 | 54.3 | |



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



Noise Monitoring Result at Station NM3A

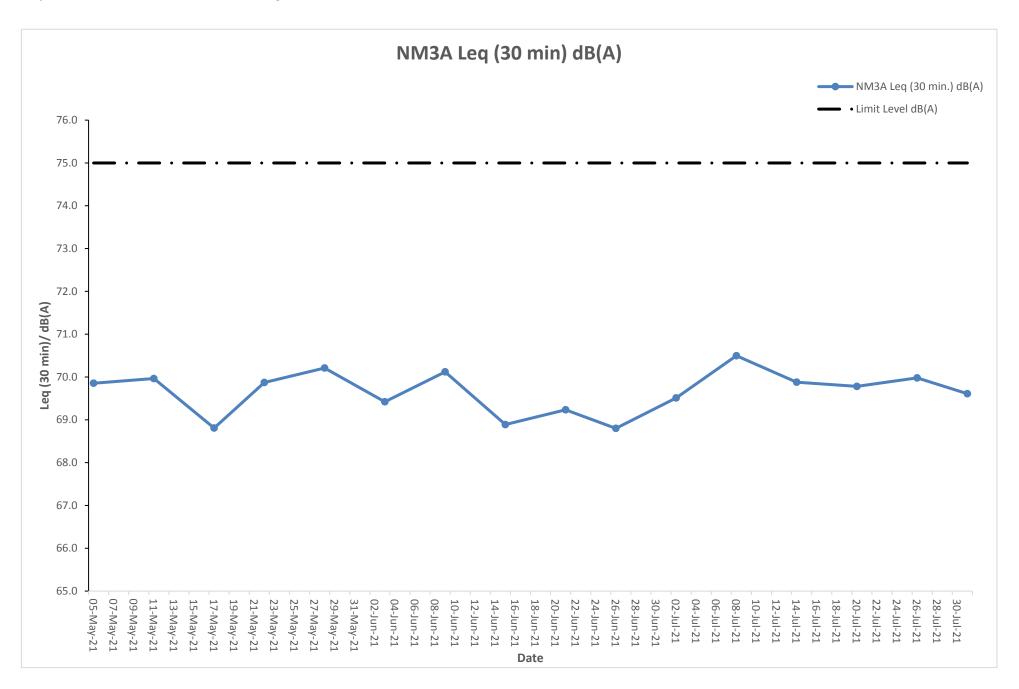
| Date | Time | Measured L10 dB(A) | Measured L90 dB(A) | Leq (30 min.) dB(A) |
|------------------------|-------|--------------------|--------------------|---------------------|
| 05-May-21 | 10:01 | 73.9 | 67.1 | |
| 05-May-21 | 10:06 | 73.7 | 69.3 | |
| 05-May-21 | 10:00 | 72.1 | 69.9 | |
| 05-May-21 | 10:11 | 74.4 | 68.3 | 69.9 |
| 05-May-21 | 10:10 | 72.5 | 67.3 | |
| 05-May-21 | 10:21 | 72.1 | 67.2 | |
| 11-May-21 | 16:06 | 74.3 | 69.2 | |
| 11-May-21 | 16:11 | 73.7 | 69.6 | |
| 11-May-21 | 16:16 | 72.3 | 68.0 | |
| | 16:21 | 74.7 | 68.7 | 70.0 |
| 11-May-21 | | | | |
| 11-May-21 | 16:26 | 72.4 | 67.4 | |
| 11-May-21 | 16:31 | 74.6 | 67.4 | |
| 17-May-21 | 10:02 | 74.7 | 67.5 | |
| 17-May-21 | 10:07 | 72.6 | 68.2 | |
| 17-May-21 | 10:12 | 72.2 | 67.5 | 68.8 |
| 17-May-21 | 10:17 | 72.1 | 67.5 | |
| 17-May-21 | 10:22 | 74.4 | 68.1 | |
| 17-May-21 | 10:27 | 73.4 | 68.9 | |
| 22-May-21 | 16:08 | 74.3 | 67.4 | |
| 22-May-21 | 16:13 | 73.6 | 68.4 | |
| 22-May-21 | 16:18 | 73.6 | 69.1 | 69.9 |
| 22-May-21 | 16:23 | 74.1 | 67.3 | 0010 |
| 22-May-21 | 16:28 | 74.4 | 68.2 | |
| 22-May-21 | 16:33 | 72.7 | 67.7 | |
| 28-May-21 | 10:10 | 74.0 | 70.0 | |
| 28-May-21 | 10:15 | 74.3 | 68.4 | |
| 28-May-21 | 10:20 | 74.7 | 67.2 | 70.2 |
| 28-May-21 | 10:25 | 72.1 | 69.2 | 70.2 |
| 28-May-21 | 10:30 | 73.9 | 69.1 | |
| 28-May-21 | 10:35 | 72.8 | 68.0 | |
| 03-Jun-21 | 16:02 | 73.0 | 66.7 | |
| 03-Jun-21 | 16:07 | 73.1 | 67.3 | |
| 03-Jun-21 | 16:12 | 74.1 | 66.6 | 69.4 |
| 03-Jun-21 | 16:17 | 73.2 | 67.4 | 03.4 |
| 03-Jun-21 | 16:22 | 73.5 | 66.5 | |
| 03-Jun-21 | 16:27 | 72.7 | 66.7 | |
| 09-Jun-21 | 10:04 | 72.2 | 65.2 | |
| 09-Jun-21 | 10:09 | 73.5 | 66.9 | |
| 09-Jun-21 | 10:14 | 72.0 | 66.6 | 70.4 |
| 09-Jun-21 | 10:19 | 72.4 | 66.6 | 70.1 |
| 09-Jun-21 | 10:24 | 72.0 | 67.9 | |
| 09-Jun-21 | 10:29 | 72.1 | 65.0 | |
| 15-Jun-21 | 16:01 | 72.6 | 65.5 | |
| 15-Jun-21 | 16:06 | 72.8 | 67.7 | |
| 15-Jun-21 | 16:11 | 71.7 | 65.1 | 00.0 |
| 15-Jun-21 | 16:16 | 71.4 | 65.5 | 68.9 |
| 15-Jun-21 | 16:21 | 73.1 | 66.3 | |
| 15-Jun-21 | 16:26 | 73.2 | 66.5 | |
| 21-Jun-21 | 10:06 | 71.6 | 65.0 | |
| 21-Jun-21 | 10:00 | 73.3 | 66.8 | |
| 21-Jun-21 | 10:16 | 74.0 | 65.0 | 00.0 |
| 21-Jun-21 | 10:10 | 73.6 | 65.0 | 69.2 |
| 21-Jun-21 | 10:21 | 72.2 | 66.4 | |
| 21-Jun-21 | 10:20 | 71.6 | 66.9 | |
| 26-Jun-21 | 16:00 | 72.8 | 66.5 | |
| 26-Jun-21 | 16:05 | 73.5 | 65.0 | |
| 26-Jun-21 | 16:10 | 73.4 | 65.9 | |
| 26-Jun-21 26-Jun-21 | 16:10 | 73.5 | 67.7 | 68.8 |
| 26-Jun-21 26-Jun-21 | 16:15 | 73.4 | 67.9 | |
| 26-Jun-21 26-Jun-21 | 16:20 | 72.0 | 65.3 | |
| 20-JUI1-21 | 10.20 | 12.0 | 00.0 | L |

Noise Monitoring Result at Station NM3A

| Date | Time | Measured L10 dB(A) | Measured L90 dB(A) | Leq (30 min.) dB(A) |
|-----------|-------|--------------------|--------------------|---------------------|
| 02-Jul-21 | 10:02 | 72.1 | 66.0 | |
| 02-Jul-21 | 10:07 | 72.2 | 66.9 | |
| 02-Jul-21 | 10:12 | 75.0 | 67.8 | 69.5 |
| 02-Jul-21 | 10:17 | 74.2 | 65.5 | 09.5 |
| 02-Jul-21 | 10:22 | 74.0 | 66.5 | |
| 02-Jul-21 | 10:27 | 73.7 | 66.1 | |
| 08-Jul-21 | 16:10 | 72.3 | 67.4 | |
| 08-Jul-21 | 16:15 | 74.7 | 66.3 | |
| 08-Jul-21 | 16:20 | 74.6 | 66.3 | 70.5 |
| 08-Jul-21 | 16:25 | 74.0 | 65.2 | 70.5 |
| 08-Jul-21 | 16:30 | 74.1 | 67.5 | |
| 08-Jul-21 | 16:35 | 72.5 | 67.9 | |
| 14-Jul-21 | 10:10 | 72.2 | 67.1 | |
| 14-Jul-21 | 10:15 | 72.9 | 65.8 | |
| 14-Jul-21 | 10:20 | 73.7 | 65.7 | 69.9 |
| 14-Jul-21 | 10:25 | 73.8 | 67.2 | 09.9 |
| 14-Jul-21 | 10:30 | 73.9 | 67.2 | |
| 14-Jul-21 | 10:35 | 74.0 | 67.1 | |
| 20-Jul-21 | 16:18 | 73.2 | 68.0 | |
| 20-Jul-21 | 16:23 | 74.7 | 67.3 | |
| 20-Jul-21 | 16:28 | 74.3 | 68.0 | 69.8 |
| 20-Jul-21 | 16:33 | 73.6 | 65.1 | 09.0 |
| 20-Jul-21 | 16:38 | 74.0 | 66.9 | |
| 20-Jul-21 | 16:43 | 73.9 | 67.9 | |
| 26-Jul-21 | 10:12 | 74.8 | 66.7 | |
| 26-Jul-21 | 10:17 | 74.5 | 65.6 | |
| 26-Jul-21 | 10:22 | 72.4 | 67.6 | 70.0 |
| 26-Jul-21 | 10:27 | 72.8 | 67.2 | 70.0 |
| 26-Jul-21 | 10:32 | 73.1 | 66.9 | |
| 26-Jul-21 | 10:37 | 73.0 | 66.1 | |
| 31-Jul-21 | 15:51 | 72.6 | 65.8 | |
| 31-Jul-21 | 15:56 | 73.4 | 65.5 | |
| 31-Jul-21 | 16:01 | 72.7 | 67.9 | 69.6 |
| 31-Jul-21 | 16:06 | 73.3 | 65.6 | 03.0 |
| 31-Jul-21 | 16:11 | 72.7 | 67.0 | |
| 31-Jul-21 | 16:16 | 74.7 | 67.5 | |



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



Development at West Kowloon Cultural District Quarterly Environmental Monitoring and Audit (EM&A) Report (May-July 2021)

Noise Monitoring Result at Station NM4A

| Date | Time | Measured L10 dB(A) | Measured L90 dB(A) | Leq (30 min.) dB(A) |
|-----------|----------------|--------------------|---------------------|---------------------|
| 05-May-21 | 10:36 | 69.6 | 66.5 | |
| 05-May-21 | 10:41 | 69.4 | 65.6 | |
| 05-May-21 | 10:46 | 68.5 | 66.4 | |
| 05-May-21 | 10:40 | 67.9 | 65.0 | 67.7 |
| 05-May-21 | 10:56 | 69.3 | 64.1 | |
| | | 67.2 | | |
| 05-May-21 | 11:01 | | 65.0 | |
| 11-May-21 | 16:41 | 69.9 | 65.1 | |
| 11-May-21 | 16:46 | 68.7 | 66.2 | |
| 11-May-21 | 16:51 | 68.3 | 65.3 | 68.4 |
| 11-May-21 | 16:56 | 69.0 | 65.7 | |
| 11-May-21 | 17:01 | 69.3 | 66.7 | |
| 11-May-21 | 17:06 | 69.8 | 64.6 | |
| 17-May-21 | 10:37 | 69.5 | 66.5 | |
| 17-May-21 | 10:42 | 69.7 | 66.5 | |
| 17-May-21 | 10:47 | 67.5 | 64.6 | 68.5 |
| 17-May-21 | 10:52 | 69.6 | 64.9 | 00.0 |
| 17-May-21 | 10:57 | 69.5 | 66.2 | |
| 17-May-21 | 11:02 | 68.1 | 66.7 | |
| 22-May-21 | 16:43 | 69.0 | 66.0 | |
| 22-May-21 | 16:48 | 69.2 | 64.3 | |
| 22-May-21 | 16:53 | 69.8 | 65.9 | 68.0 |
| 22-May-21 | 16:58 | 67.1 | 64.2 | 00.0 |
| 22-May-21 | 17:03 | 68.4 | 65.7 | |
| 22-May-21 | 17:08 | 69.3 | 66.5 | |
| 28-May-21 | 10:45 | 69.4 | 66.7 | |
| 28-May-21 | 10:50 | 67.8 | 66.2 | |
| 28-May-21 | 10:55 | 68.5 | 64.6 | 07.0 |
| 28-May-21 | 11:00 | 69.4 | 65.3 | 67.8 |
| 28-May-21 | 11:05 | 69.5 | 65.5 | |
| 28-May-21 | 11:10 | 68.4 | 64.7 | |
| 03-Jun-21 | 16:37 | 70.3 | 61.5 | |
| 03-Jun-21 | 16:42 | 69.8 | 62.7 | |
| 03-Jun-21 | 16:47 | 70.5 | 61.2 | |
| 03-Jun-21 | 16:52 | 69.3 | 61.4 | 64.0 |
| 03-Jun-21 | 16:57 | 71.8 | 62.4 | |
| 03-Jun-21 | 17:02 | 71.1 | 63.9 | |
| 09-Jun-21 | 10:39 | 69.9 | 63.0 | |
| 09-Jun-21 | 10:33 | 69.9 | 61.9 | |
| 09-Jun-21 | 10:49 | 70.1 | 60.4 | |
| 09-Jun-21 | 10:43 | 69.4 | 62.5 | 63.2 |
| | 10:54 | | | |
| 09-Jun-21 | | 69.5 | 63.2 | |
| 09-Jun-21 | 11:04 16:36 | 70.9 69.9 | <u>63.7</u> 64.1 | |
| 15-Jun-21 | | 71.3 | | |
| 15-Jun-21 | 16:41 | | 66.3 | |
| 15-Jun-21 | 16:46 | 70.5 | 65.8 | 68.8 |
| 15-Jun-21 | 16:51 | 70.2 | 64.7 | |
| 15-Jun-21 | 16:56 | 70.5 | 65.0 | |
| 15-Jun-21 | 17:01 | 71.2 | 66.6 | |
| 21-Jun-21 | 10:41 | 70.0 | 66.1 | |
| 21-Jun-21 | 10:46 | 69.8 | 64.4 | |
| 21-Jun-21 | 10:51 | 71.5 | 65.8 | 68.8 |
| 21-Jun-21 | 10:56 | 71.2 | 64.6 | |
| 21-Jun-21 | 11:01 | 69.3 | 64.2 | |
| 21-Jun-21 | 11:06 | 71.6 | 64.5 | |
| 26-Jun-21 | 16:35 | 71.0 | 66.4 | |
| 26-Jun-21 | 16:40 | 71.7 | 64.4 | |
| 26-Jun-21 | 16:45 | 70.3 | 65.0 | 68.5 |
| | | | 05.5 | 00.0 |
| 26-Jun-21 | 16:50 | 69.2 | 65.5 | |
| | 16:50 16:55 | 69.2 69.6 | 66.5 66.5 | |

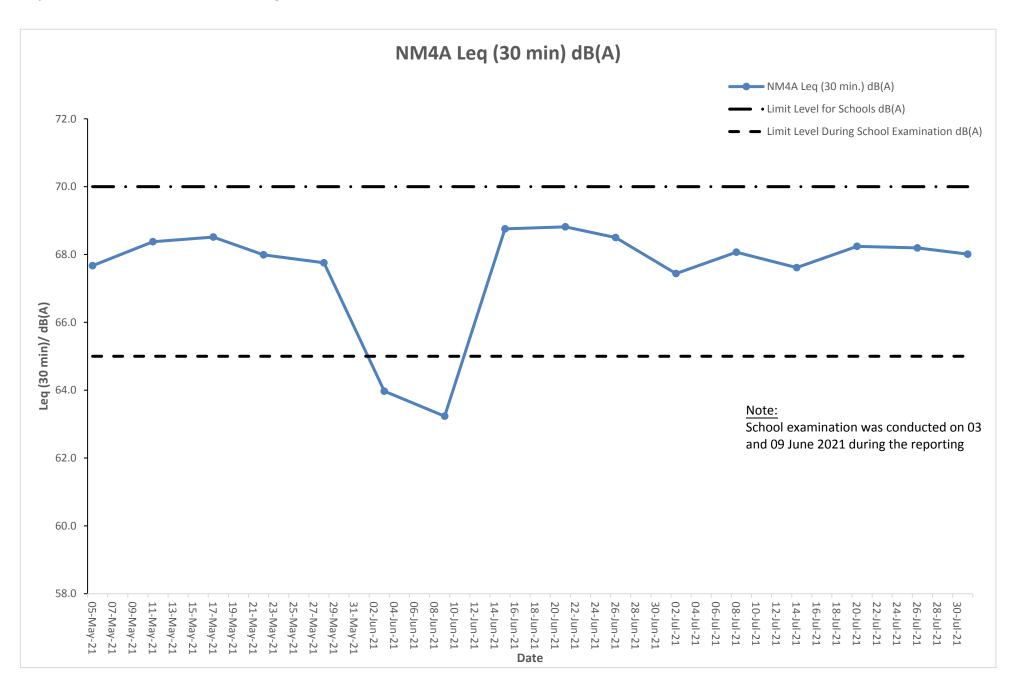
Noise Monitoring Result at Station NM4A

| Date | Time | Measured L10 dB(A) | Measured L90 dB(A) | Leq (30 min.) dB(A) |
|-----------|-------|--------------------|--------------------|---------------------|
| 02-Jul-21 | 10:37 | 71.4 | 65.8 | |
| 02-Jul-21 | 10:42 | 69.4 | 65.4 | |
| 02-Jul-21 | 10:47 | 70.2 | 66.4 | 67.4 |
| 02-Jul-21 | 10:52 | 70.8 | 65.2 | 07.4 |
| 02-Jul-21 | 10:57 | 71.8 | 64.8 | |
| 02-Jul-21 | 11:02 | 70.9 | 66.2 | |
| 08-Jul-21 | 16:45 | 71.8 | 66.1 | |
| 08-Jul-21 | 16:50 | 70.3 | 66.8 | |
| 08-Jul-21 | 16:55 | 69.2 | 65.9 | 68.1 |
| 08-Jul-21 | 17:00 | 71.1 | 64.5 | 00.1 |
| 08-Jul-21 | 17:05 | 70.3 | 66.8 | |
| 08-Jul-21 | 17:10 | 70.4 | 64.9 | |
| 14-Jul-21 | 10:45 | 70.2 | 64.8 | |
| 14-Jul-21 | 10:50 | 72.0 | 65.9 | |
| 14-Jul-21 | 10:55 | 69.6 | 64.5 | 67.6 |
| 14-Jul-21 | 11:00 | 71.9 | 65.1 | 07.0 |
| 14-Jul-21 | 11:05 | 70.7 | 63.4 | |
| 14-Jul-21 | 11:10 | 70.6 | 65.2 | |
| 20-Jul-21 | 16:53 | 71.8 | 63.7 | |
| 20-Jul-21 | 16:58 | 69.9 | 63.7 | |
| 20-Jul-21 | 17:03 | 70.6 | 65.3 | 68.2 |
| 20-Jul-21 | 17:08 | 70.5 | 64.6 | 00.2 |
| 20-Jul-21 | 17:13 | 72.0 | 64.4 | |
| 20-Jul-21 | 17:18 | 70.5 | 64.9 | |
| 26-Jul-21 | 10:47 | 69.4 | 64.8 | |
| 26-Jul-21 | 10:52 | 70.0 | 65.9 | |
| 26-Jul-21 | 10:57 | 69.5 | 63.5 | 68.2 |
| 26-Jul-21 | 11:02 | 72.1 | 65.4 | 00.2 |
| 26-Jul-21 | 11:07 | 71.5 | 65.1 | |
| 26-Jul-21 | 11:12 | 70.3 | 65.5 | |
| 31-Jul-21 | 16:26 | 70.3 | 65.4 | |
| 31-Jul-21 | 16:31 | 71.2 | 65.4 | |
| 31-Jul-21 | 16:36 | 69.9 | 65.0 | 68.0 |
| 31-Jul-21 | 16:41 | 69.5 | 65.0 | 00.0 |
| 31-Jul-21 | 16:46 | 69.6 | 63.4 | |
| 31-Jul-21 | 16:51 | 70.6 | 65.1 | |





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



Development at West Kowloon Cultural District Quarterly Environmental Monitoring and Audit (EM&A) Report (May-July 2021)

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) |
|------------------------|----------------|--------------------|--------------------|---------------------|------------------------|
| 05-May-21 | 9:21 | 66.9 | 61.1 | | |
| 05-May-21 | 9:26 | 64.8 | 59.9 | | |
| 05-May-21 | 9:31 | 64.6 | 61.2 | 62.0 | 66.0 |
| 05-May-21 | 9:36 | 65.2 | 60.8 | 63.2 | 66.2 |
| 05-May-21 | 9:41 | 65.7 | 59.5 | | |
| 05-May-21 | 9:46 | 64.1 | 59.9 | | |
| 11-May-21 | 15:25 | 64.1 | 60.1 | | |
| 11-May-21 | 15:30 | 66.4 | 59.4 | | |
| 11-May-21 | 15:35 | 64.6 | 59.1 | 62.7 | 65.7 |
| 11-May-21 | 15:40 | 66.1 | 60.2 | 02.7 | 03.7 |
| 11-May-21 | 15:45 | 64.7 | 61.1 | | |
| 11-May-21 | 15:50 | 64.3 | 60.0 | | |
| 17-May-21 | 9:22 | 64.9 | 59.5 | | |
| 17-May-21 | 9:27 | 65.5 | 60.6 | | |
| 17-May-21 | 9:32 | 65.5 | 62.0 | 62.6 | 65.6 |
| 17-May-21 | 9:37 | 64.2 | 61.0 | 02.0 | 00.0 |
| 17-May-21 | 9:42 | 65.5 | 61.5 | | |
| 17-May-21 | 9:47 | 66.2 | 60.9 | | |
| 22-May-21 | 15:27 | 65.1 | 61.9 | | |
| 22-May-21 | 15:32 | 65.6 | 60.1 | | |
| 22-May-21 | 15:37 | 66.3 | 59.1 | 64.0 | 67.0 |
| 22-May-21 | 15:42 | 65.9 | 59.2 | | |
| 22-May-21 | 15:47 | 66.2 | 59.6 | | |
| 22-May-21 | 15:52 | 64.8 | 61.9 | | |
| 28-May-21 | 9:30 | 65.8 | 61.6 | | |
| 28-May-21 | 9:35 | 65.0 | 60.8 | | |
| 28-May-21 | 9:40 | 66.8 | 59.3 | 63.1 | 66.1 |
| 28-May-21 | 9:45 | 64.7 | 61.7 | | |
| 28-May-21 | 9:50 | 64.4 | 60.1 | | |
| 28-May-21 | 9:55 | 65.0 | 60.7 | | |
| 03-Jun-21 | 15:22 | 66.1 64.5 | 59.9 59.7 | | |
| 03-Jun-21 03-Jun-21 | 15:27 15:32 | 66.4 | 60.1 | | |
| 03-Jun-21 | 15:37 | 66.6 | 60.4 | 63.1 | 66.1 |
| 03-Jun-21 | 15:42 | 64.4 | 59.8 | | |
| 03-Jun-21 | 15:47 | 64.9 | 59.4 | | |
| 09-Jun-21 | 9:23 | 66.8 | 59.7 | | |
| 09-Jun-21 | 9:28 | 67.0 | 60.4 | | |
| 09-Jun-21 | 9:33 | 64.5 | 58.6 | | |
| 09-Jun-21 | 9:38 | 65.9 | 58.3 | 62.6 | 65.6 |
| 09-Jun-21 | 9:43 | 66.8 | 58.9 | | |
| 09-Jun-21 | 9:48 | 65.6 | 60.1 | | |
| 15-Jun-21 | 15:21 | 64.2 | 60.8 | | |
| 15-Jun-21 | 15:26 | 65.9 | 58.0 | | |
| 15-Jun-21 | 15:31 | 64.5 | 59.4 | 62.5 | 65.5 |
| 15-Jun-21 | 15:36 | 66.7 | 59.8 | 02.5 | 00.0 |
| 15-Jun-21 | 15:41 | 65.2 | 59.1 | | |
| 15-Jun-21 | 15:46 | 66.2 | 58.0 | | |
| 21-Jun-21 | 9:25 | 67.0 | 60.8 | | |
| 21-Jun-21 | 9:30 | 65.5 | 59.3 | | |
| 21-Jun-21 | 9:35 | 67.1 | 59.4 | 63.0 | 66.0 |
| 21-Jun-21 | 9:40 | 64.3 | 58.2 | | |
| 21-Jun-21 | 9:45 | 66.7 | 59.1 | | |
| 21-Jun-21 | 9:50 | 66.7 | 59.8 | | |
| 26-Jun-21 | 15:20 | 65.8 | 59.7 | | |
| 26-Jun-21 | 15:25 | 64.5 | 60.9 | | |
| 26-Jun-21 | 15:30 | 65.5 | 59.2 | 62.5 | 65.5 |
| 26-Jun-21 | 15:35 | 66.4 | 59.3 | | |
| 26-Jun-21 | 15:40 | 65.5 | 58.8 | | |
| 26-Jun-21 | 15:45 | 65.5 | 60.2 | | L |

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-Jul-21 | 9:22 | 64.5 | 60.8 | | | | |
| 02-Jul-21 | 9:27 | 65.8 | 59.1 | | | | |
| 02-Jul-21 | 9:32 | 65.7 | 59.1 | 62.6 | 65.6 | | |
| 02-Jul-21 | 9:37 | 64.1 | 60.8 | 02.0 | | | |
| 02-Jul-21 | 9:42 | 65.7 | 60.9 | | | | |
| 02-Jul-21 | 9:47 | 64.7 | 58.7 | | | | |
| 08-Jul-21 | 15:29 | 66.4 | 60.3 | | | | |
| 08-Jul-21 | 15:34 | 64.9 | 59.4 | | | | |
| 08-Jul-21 | 15:39 | 64.4 | 60.9 | 62.3 | 65.3 | | |
| 08-Jul-21 | 15:44 | 64.2 | 58.3 | 02.5 | 05.5 | | |
| 08-Jul-21 | 15:49 | 66.5 | 58.4 | | | | |
| 08-Jul-21 | 15:54 | 64.2 | 60.0 | | | | |
| 14-Jul-21 | 9:30 | 66.0 | 59.3 | | | | |
| 14-Jul-21 | 9:35 | 65.6 | 59.7 | | | | |
| 14-Jul-21 | 9:40 | 65.9 | 59.0 | 62.3 | 65.3 | | |
| 14-Jul-21 | 9:45 | 66.3 | 59.1 | 02.5 | | | |
| 14-Jul-21 | 9:50 | 64.5 | 58.8 | | | | |
| 14-Jul-21 | 9:55 | 66.5 | 60.5 | | | | |
| 20-Jul-21 | 15:37 | 65.7 | 60.6 | | | | |
| 20-Jul-21 | 15:42 | 66.8 | 58.3 | | | | |
| 20-Jul-21 | 15:47 | 66.8 | 59.7 | 62.3 | 65.3 | | |
| 20-Jul-21 | 15:52 | 65.9 | 60.3 | 02.5 | 03.5 | | |
| 20-Jul-21 | 15:57 | 66.2 | 59.0 | | | | |
| 20-Jul-21 | 16:02 | 67.1 | 58.3 | | | | |
| 26-Jul-21 | 9:32 | 66.7 | 60.1 | | | | |
| 26-Jul-21 | 9:37 | 66.8 | 58.1 | | | | |
| 26-Jul-21 | 9:42 | 67.1 | 58.5 | 62.9 | 65.9 | | |
| 26-Jul-21 | 9:47 | 66.5 | 60.7 | 02.9 | 03.9 | | |
| 26-Jul-21 | 9:52 | 65.3 | 58.2 | | | | |
| 26-Jul-21 | 9:57 | 66.5 | 58.5 | | | | |
| 31-Jul-21 | 15:10 | 65.2 | 59.9 | | | | |
| 31-Jul-21 | 15:15 | 65.5 | 60.0 | | | | |
| 31-Jul-21 | 15:20 | 65.0 | 58.5 | 62.9 | 65.9 | | |
| 31-Jul-21 | 15:25 | 64.8 | 59.7 | 02.3 | 00.9 | | |
| 31-Jul-21 | 15:30 | 66.9 | 59.6 | | | | |
| 31-Jul-21 | 15:35 | 66.7 | 59.1 | | | | |

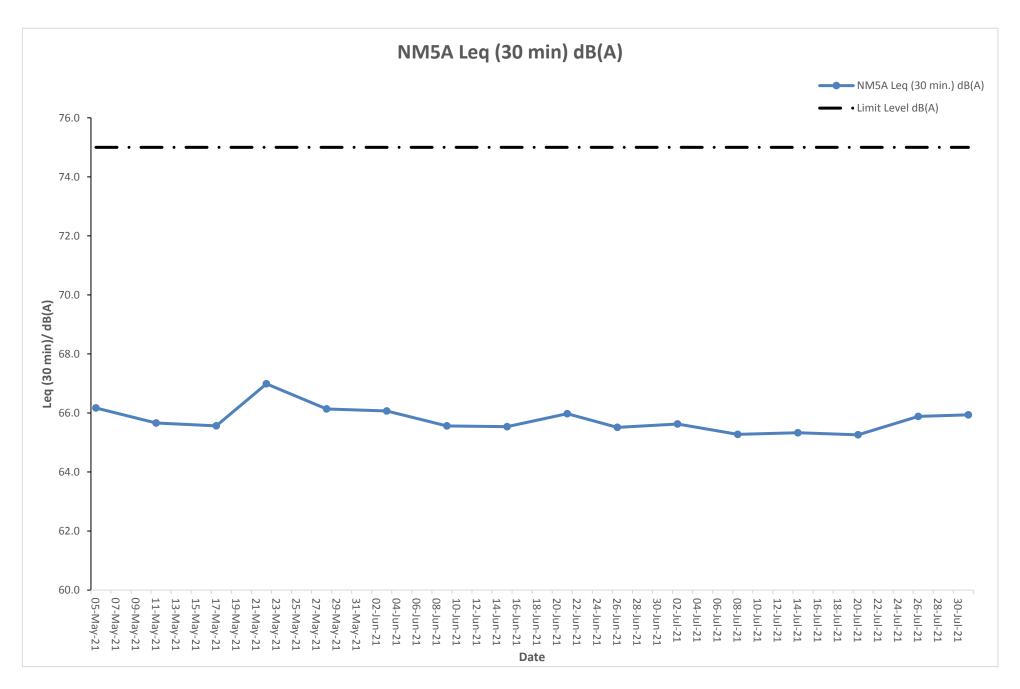
Remarks:

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





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



Development at West Kowloon Cultural District Quarterly Environmental Monitoring and Audit (EM&A) Report (May-July 2021)

F. Waste Flow table

Table F-1: Monthly Waste Flow Table for Zone 2A

| | Actual Quantities of Inert C&D Materials Generated Monthly | | | | | | | Actual Quantities of C&D Materials Generated Monthly | | | | | |
|------------------|--|--|-------------|--------------------------------|-------------------------------|------------------------------------|------------------|--|----------------------------------|---------------------------------------|-----------------|-------------------|---------------------------------------|
| Month | Total Quantity Generated | Hard Rocks and Large Broken Concrete | | Reused in other Projects | Disposed as Public Fill | Disposed to Sroting 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) |
| 2020 | | | | | | | | | | · · · · · · · · · · · · · · · · · · · | | | · · · · · · · · · · · · · · · · · · · |
| Oct | 2623.48 | 0.00 | 0.00 | 0.00 | 2623.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.94 |
| Nov | 8838.69 | 0.00 | 685.23 | 1198.56 | 6954.90 | 0.00 | 1194.93 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 17.49 |
| Dec | 8890.70 | 0.00 | 510.59 | 1675.21 | 6704.90 | 0.00 | 51.51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.75 |
| Sub-total (2020) | 20352.87 | 0.00 | 1195.82 | 2873.77 | 16283.28 | 0.00 | 1246.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 51.18 |
| 2021 | | | | | | | | | | | | | |
| Jan | 6849.66 | 0.00 | 52.90 | 0.00 | 6796.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.94 |
| Feb | 4591.95 | 0.00 | 0.00 | 0.00 | 4591.95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 16.11 |
| Mar | 7318.44 | 0.00 | 0.00 | 339.94 | 6978.50 | 0.00 | 0.00 | 75.57 | 0.00 | 0.00 | 0.00 | 0.20 | 15.79 |
| Apr | 7208.22 | 0.00 | 0.00 | 1109.51 | 6098.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.40 | 19.29 |
| May | 7976.23 | 0.00 | 0.00 | 1853.51 | 6122.72 | 0.00 | 0.00 | 125.49 | 0.00 | 0.00 | 0.00 | 0.20 | 18.43 |
| Jun | 7741.45 | 0.00 | 0.00 | 1989.41 | 5752.04 | 0.00 | 0.00 | 4.53 | 0.00 | 0.00 | 0.00 | 0.00 | 18.65 |
| Jul | 8067.17 | 0.00 | 0.00 | 1289.08 | 6778.09 | 0.00 | 0.00 | 4.11 | 0.00 | 0.00 | 0.00 | 0.20 | 147.95 |
| Aug | 0.00 | | | | | | | | | | | | |
| Sep | 0.00 | | | | | | | | | | | | |
| Oct | 0.00 | | | | | | | | | | | | |
| Nov | 0.00 | | | | | | | | | | | | |
| Dec | 0.00 | | | | | | | | | | | | |
| Sub-total (2021) | 49753.12 | 0.00 | 52.90 | 6581.45 | 43118.77 | 0.00 | 0.00 | 209.70 | 0.00 | 0.00 | 0.00 | 1.00 | 256.16 |
| Total | 71352.43 | 0.00 | 1248.72 | 9455.22 | 59402.05 | 0.00 | 1246.44 | 209.70 | 0.00 | 0.00 | 0.00 | 1.00 | 307.34 |

Note:

- 240.72 tonnes, 1767.24 tonnes, 16644.89 tonnes of inert C&D material were disposed of as public fill to Chai Wan Public Fill Barging Point, Tseung Kwan O Area 137 Public Fill, and Tuen Mun Area 38 respectively in the reporting quarter.

- For inert C&D materials reused in other projects, the projects refer to (1) EcoPark at Tuen Mun, (2) Green Valley and (3) DD41 at Sha Tau Kok.

G. 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. 3 October 2020 for Zone 2A Foundation, Excavation and Lateral Support Works) to the end of the reporting quarter and are summarized in the **Table G-1** below respectively.

Table G-1: Statistics for complaints, notifications of summons and successful prosecutions for Zone2A Foundation, Excavation and Lateral Support Works

| Reporting Period | Cumulative Statistics | | | | | |
|------------------------------|-----------------------|--------------------------|-------------------------|--|--|--|
| | Complaints | Notifications of summons | Successful prosecutions | | | |
| This reporting quarter | r. | 0 | 0 | | | |
| (May 21 – Jul 21) | 5 | 0 | 0 | | | |
| From 03 October 2020 to | 44 | 0 | 0 | | | |
| end of the reporting quarter | 11 | 0 | 0 | | | |

END OF THE REPORT