



Development at West Kowloon Cultural District

Monthly Environmental Monitoring and Audit
(EM&A) Report for April 2020

8 May 2020

Mott MacDonald
3/F International Trade
Tower
348 Kwun Tong Road
Kwun Tong
Kowloon
Hong Kong

T +852 2828 5757
mottmac.hk

Development at West Kowloon Cultural District

Monthly Environmental Monitoring and Audit
(EM&A) Report for April 2020

8 May 2020

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

Certified by:



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

Date

13 May 2020

Verified by:



Helen Cochrane
Independent Environmental Checker (IEC)
Meinhardt Infrastructure & Environment Ltd

Date

14 May 2020

Contents

Executive summary	1
1 Introduction	4
1.1 Background	4
1.2 Project Organisation	4
1.3 Environmental Status in the Reporting Period	5
1.4 Summary of EM&A Requirements	6
2 Impact Monitoring Methodology	8
2.1 Introduction	8
2.2 Air Quality	8
2.2.1 Monitoring Parameters, Frequency and Duration	8
2.2.2 Monitoring Locations	8
2.2.3 Monitoring Equipment	8
2.2.4 Monitoring Methodology	9
2.3 Noise	11
2.3.1 Monitoring Parameters, Frequency and Duration	11
2.3.2 Monitoring Location	11
2.3.3 Monitoring Equipment	11
2.3.4 Monitoring Methodology	12
2.4 Landscape and Visual	12
2.4.1 Monitoring Program	12
3 Monitoring Results	13
3.1 Impact Monitoring	13
3.2 Air Quality Monitoring	13
3.2.1 1-hour TSP	13
3.2.2 24-hour TSP	13
3.3 Noise Monitoring	14
3.4 Landscape and Visual Impact	14
4 Environmental Site Inspection	15
4.1 Site Inspection	15
4.1.1 M+ Museum	15
4.1.2 Lyric Theatre Complex	16
4.2 Advice on the Solid and Liquid Waste Management Status	17
4.2.1 M+ Museum	17
4.2.2 Lyric Theatre Complex	17
4.3 Status of Environmental Licenses and Permits	18
4.3.1 M+ Museum	18

4.3.2	Lyric Theatre Complex	18
4.4	Recommended Mitigation Measures	19
4.4.1	M+ Museum	19
4.4.2	Lyric Theatre Complex	19
5	Compliance with Environmental Permit	21
6	Report in Non-compliance, Complaints, Notification of Summons and Successful Prosecutions	22
6.1	Record on Non-compliance of Action and Limit Levels	22
6.2	Record on Environmental Complaints Received	22
6.3	Record on Notifications of Summons and Successful Prosecution	22
7	Future Key Issues	23
7.1	Construction Works for the Coming Month(s)	23
7.1.1	M+ Museum	23
7.1.2	Lyric Theatre Complex	23
7.2	Key Issues for the Coming Month	24
7.2.1	M+ Museum	24
7.2.2	Lyric Theatre Complex	24
7.3	Monitoring Schedule for the Coming Month	24
8	Conclusions and Recommendations	25
8.1	Conclusions	25
8.2	Recommendations	25
Figure 1	Site Layout Plan and Monitoring Stations	26
Appendices		27
A.	Project Organisation	28
B.	Tentative Construction Programme	29
C.	Action and Limit Levels for Construction Phase	30
D.	Event and Action Plan for Air Quality, Noise, Landscape and Visual Impact	31
E.	Monitoring Schedule	32
F.	Calibration Certifications	33

G.	Graphical Plots of the Monitoring Results	34
H.	Meteorological Data Extracted from Hong Kong Observatory	35
I.	Waste Flow table	36
J.	Environmental Mitigation Measures – Implementation Status	37
K.	Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions	38

Executive summary

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

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 3 of Schedule 3) and “an underpass more than 100m in length under the built areas” (Item A.9, Part I, Schedule 2). An Environmental Permit No. EP-453/2013/B (EP) was issued with respect to the “Underpass Road and Austin Road Flyover Serving the West Kowloon Cultural District” which specifically includes the abovementioned category of DP under Item A.9, Part I, Schedule 2 of the EIAO.

This Monthly EM&A Report presents the monitoring works at M+ Museum and Lyric Theatre Complex (L1 and L2 Contract) from 1 April to 30 April 2020.

Exceedance of Action and Limit Levels

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

Implementation of Mitigation Measures

Construction phase weekly site inspections were carried out on 7, 14, 21 and 28 April 2020 for M+ Museum and 1, 8, 15, 22 and 29 April 2020 for Lyric Theatre Complex (L1 and L2 Contract) to confirm the implementation measures undertaken by the Contractors in the reporting month. The outcomes are presented in Section 4 and the status of implementation of mitigation measures in the site is shown in **Appendix J**.

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

FEHD site inspections with the contractor were conducted on 3 and 24 April 2020 at M+ Museum.

FEHD site inspections with contractor was conducted on 9 April 2020 at Lyric Theatre Complex (L1 and L2 Contract).

Record of Complaints

One environmental complaint was recorded in the reporting month.

Record of Notifications of Summons and Successful Prosecutions

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

Future Key Issues

The major site works for M+ Museum scheduled to be commissioned in the coming month include:

- Structure
 - M+ Podium: Structural works completed
 - CSF RF: Structural works completed
 - RDE RF: Structural works completed
- MEP
 - BEL, BLT, ELV, BFS, BPD, BME works from B2 to 16/F of M+
 - BEL, BLT, ELV, BFS, BPD, BME works from G/F to 15/F of RDE
 - MEP works at CSF building majority finished
 - T&C for M+ / CSF
- ABWF
 - M+ B2F – 3/F Basement & Podium, Screeding, wall plastering, finishing & Paving works, installation of fire shutter, toilets / sanitary fitment installation, make good & finishes works
 - M+ Tower - paint/sealer, plaster, toilets / sanitary fitment installation, make good & finishes works
 - CSF – majority ABWF works at CSF accomplished, make good & defect rectification
 - RDE up to 15/F – blockwall, plastering, Artwall/drywall stud erection, False ceiling sub-frame installation, paving & flooring works
- Other
 - M+ G/F – Paving works
 - M+ 3/F Podium Roof – landscaping works (soil mix), drainage mat / cable installation
 - Paving works at M+ 1/F, G/F

The major site works for L1 scheduled to be commissioned in the coming month include:

- Excavation work at Main Cofferdam
- Drainage work (PIW works)
- Extended basement structure construction of Area 06 and Main Cofferdam

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

- Visual Mock Up
 - VMU interior work
- LTC construction
 - B2, B2U/F, B1L/F, B1, B1M and L00 construction
 - Falsework and Formwork Erection
 - Reinforcement work
 - Concrete work
- Extended Basement
 - BS installation (south B2)

- DSC Cofferdam A
 - DCS Cofferdam A – Section 2
- Remaining Works for M+ Promenade
- Modification to Existing Pump Cell
 - Re-provision of Sea Water Pump Cell
 - Modification of Existing Pump Cell, & Connection to New Pump Cell

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

1 Introduction

1.1 Background

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 and Lyric Theatre Complex commenced on 31 October 2015 and 1 March 2016 respectively.

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 3 of Schedule 3) and “an underpass more than 100m in length under the built areas” (Item A.9, Part I, Schedule 2). An Environmental Permit No. EP-453/2013/B (EP) was issued with respect to the “Underpass Road and Austin Road Flyover Serving the West Kowloon Cultural District” which specifically includes the abovementioned category of DP under Item A.9, Part I, Schedule 2 of the EIAO. The captioned projects include part of the abovementioned underpass road located within the site boundary also falls under this same category.

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

The 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 Monthly EM&A Report is prepared in accordance with the Condition 3.4 of the Environmental Permit No. EP-453/2013/B. This Monthly EM&A Report presents the monitoring works at M+ Museum and Lyric Theatre Complex (L1 and L2 Contract) from 1 April to 30 April 2020. 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 M+ Museum undertaken include:

- Structure
 - M+ Podium: Structural works completed
 - CSF RF: Structural works completed
 - RDE RF: Structural works completed
- MEP
 - BEL, BLT, ELV, BFS, BPD, BME works from B2 to 16/F of M+
 - BEL, BLT, ELV, BFS, BPD, BME works from G/F to 15/F of RDE
 - MEP works at CSF building majority finished
 - T&C for M+ / CSF
- ABWF
 - M+ B2F – 3/F Basement & Podium, Screeding, wall plastering, finishing & Paving works, installation of fire shutter, toilets / sanitary fitment installation
 - M+ Tower - paint/sealer, plaster, toilets / sanitary fitment installation, make good & finishes works
 - CSF – majority ABWF works at CSF accomplished, make good & defect rectification
 - RDE up to 15F – blockwall, plastering, Artwall/drywall stud erection, False ceiling sub-frame installation, paving & flooring works
- Other
 - M+ G/F - Paving works;
 - M+ 3F Podium Roof - landscaping works (soil mix), drainage mat / cable installation, Gallery Roof Panel installation
 - Paving works at M+ 1/F, G/F & B1/F

During the reporting period, construction works at L1 undertaken include:

- Excavation work at Main Cofferdam
- Drainage work (PIW works)
- Extended basement structure construction of Area 06 and Main Cofferdam

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

- Visual Mock Up
 - VMU interior work
- LTC construction
 - B2 construction
 - B2U/F and B1L/F construction
 - B1 construction
 - Formwork
 - Reinforcement work
 - Concrete work

- Extended Basement
 - BS installation (south B2)
- DSC Cofferdam A
 - DCS Cofferdam A - Section 2
- Remaining Works for M+ Promenade
- Modification to Existing Pump Cell
 - Re-provision of Sea Water Pump Cell
 - Modification of Extg Pump Cell, & Connection to New Pump Cell

The Construction Works Programme of M+ Museum and Lyric Theatre Complex (L1 and L2 Contract) is provided in **Appendix B**. A layout plan of the Project is provided in **Figure 1**. Please refer to **Table 4.4**, **Table 4.5** and **Table 4.6** on the status of the environmental licenses.

1.4 Summary of EM&A Requirements

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

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

Table 1.1: Summary of Impact EM&A Requirements

Parameters	Descriptions	Locations	Frequencies
Air Quality	24-Hour TSP	AM1 - International Commerce Centre	At least once every 6 days
	1-Hour TSP	AM1 - International Commerce Centre	At least 3 times every 6 days
	24-Hour TSP	AM2B - 1st Floor of Gammon's Site Office	At least once every 6 days
	1-Hour TSP	AM2B - 1st Floor of Gammon's Site Office	At least 3 times every 6 days
Noise	Leq, 30 minutes	NM1A - International Commerce Centre	Weekly
Landscape & Visual	Monitor implementation of proposed mitigation measures during the construction stage	As described in Table 9.1 and 9.2 of the EM&A Manual	Bi-weekly

Given that the Project covers only a small part of the whole WKCD area (i.e. M+ Museum, Lyric Theatre Complex and respective portions of underpass road), it was proposed that the EM&A programme for the Project should only require 1 noise monitoring station and 2 air quality monitoring stations located closest to the Project area. Currently, the works under the captioned project are confined in the western part of the WKCD site. Therefore, only the monitoring stations AM1, AM2 and NM1 were set up. Other monitoring locations are too far away (i.e. AM3 to AM5 and NM2 to NM5) are not included in this EM&A programme until the construction of the corresponding area commences.

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. 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. Nevertheless, 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 at the ground floor for conducting the air monitoring. However, the electricity supply at AM2 was suspended from 31 August 2016 and was no longer available. 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 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. Meanwhile, the opportunity of setting up the air monitoring location at The Harbourside is being explored. Noise monitoring at G/F of Harbourside will not be representative. 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. Therefore, 2 air quality monitoring stations and 1 noise impact monitoring station were confirmed for the impact monitoring.

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

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

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

2 Impact Monitoring Methodology

2.1 Introduction

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

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

2.2 Air Quality

2.2.1 Monitoring Parameters, Frequency and Duration

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

Table 2.1: Air Quality Monitoring Parameters, Frequency and Duration

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

2.2.2 Monitoring Locations

Currently, the works under the captioned project are confined in the western part of the WKCD site. Therefore, only the monitoring stations AM1 and AM2B were set up at the proposed locations in accordance with updated EM&A Manual. Location of the monitoring station is given in **Table 2.2** and shown in **Figure 1**.

Table 2.2: Air Quality Monitoring Station

Monitoring Station	Location
AM1	International Commerce Centre (ICC)
AM2B	1st Floor of Gammon's Site Office

2.2.3 Monitoring Equipment

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

Table 2.3: TSP Monitoring Equipment

Equipment	Model
24-hour TSP monitoring	
High Volume Sampler	TE-5170 (Serial No.: 0767 and 8919)
Calibrator	TE-5025A (Orifice I.D.: 2454)
1-hour TSP monitoring	
Portable direct reading dust meter	Sibata LD-3B (Serial No.: 235780 and 6Z7784)

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

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

2.2.4 Monitoring Methodology

24-hour TSP Monitoring

Installation

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

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

Preparation of Filter Papers

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

Field Monitoring Procedures

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

Maintenance and Calibration

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

1-hour TSP Monitoring

Field Monitoring

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

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

- Regular checking of the time period setting to ensure monitoring time of 1 hour.

Maintenance and Calibration

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

Weather Condition

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

2.3 Noise

2.3.1 Monitoring Parameters, Frequency and Duration

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

Table 2.4: Noise Monitoring Parameters, Period and Frequency

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

2.3.2 Monitoring Location

Currently, the works under the captioned project are confined in the western part of the WKCD site. Therefore, only the monitoring station NM1A was set up at the proposed location in accordance with updated EM&A Manual. Location of the monitoring station is given in **Table 2.5** and shown in **Figure 1**.

Table 2.5: Noise Monitoring Station

Monitoring Station	Location
NM1A	International Commerce Centre (ICC)

2.3.3 Monitoring Equipment

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

Table 2.6: Noise Monitoring Equipment

Monitoring Station	Equipment Model	
	Integrating Sound Level Meter	Calibrator
NM1A	Rion NL-52 (Serial No. 00175561)	LARSON DAVIS CAL200 (Serial No. 11333)

2.3.4 Monitoring Methodology

Field Monitoring

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

Maintenance and Calibration

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

Weather Condition

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

2.4 Landscape and Visual

2.4.1 Monitoring Program

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

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

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

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

3 Monitoring Results

3.1 Impact Monitoring

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

3.2 Air Quality Monitoring

3.2.1 1-hour TSP

Results of 1-hour TSP at the monitoring location AM1 and AM2B are summarised in **Table 3.1**. Graphical plots of the monitoring results are shown in **Appendix G**.

Table 3.1: Summary of 1-hour TSP monitoring results

Monitoring Station	Monitoring Date	Start Time	1-hour TSP ($\mu\text{g}/\text{m}^3$)			Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
			1st Result	2nd Result	3rd Result			
AM1	02-Apr-20	13:12	32	29	26	26-56	273.7	500
	08-Apr-20	13:14	29	36	40			
	14-Apr-20	08:21	32	29	35			
	18-Apr-20	13:12	43	52	56			
	24-Apr-20	09:10	31	29	35			
	28-Apr-20	08:30	37	42	45			
AM2B	02-Apr-20	13:26	41	35	49	35-80	274.2	500
	08-Apr-20	13:28	44	41	50			
	14-Apr-20	08:35	66	59	62			
	18-Apr-20	13:26	69	74	77			
	24-Apr-20	08:40	54	66	60			
	28-Apr-20	09:15	80	66	69			

3.2.2 24-hour TSP

Results of 24-hour TSP at the monitoring location AM1 and AM2B are summarised in **Table 3.2**. Graphical plots of the monitoring results are shown in **Appendix G**.

Table 3.2: Summary of 24-hour TSP monitoring results

Monitoring Station	Monitoring Date	Start Time	Monitoring Results ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AM1	02-Apr-20	08:10	19	19-29	143.6	260
	08-Apr-20	08:12	24			
	14-Apr-20	08:23	25			
	18-Apr-20	08:10	21			
	24-Apr-20	07:50	29			
	28-Apr-20	08:32	29			
AM2B	02-Apr-20	08:24	56	44-82	151.1	260
	08-Apr-20	08:26	44			

Monitoring Station	Monitoring Date	Start Time	Monitoring Results ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
	14-Apr-20	08:37	82			
	18-Apr-20	08:24	54			
	24-Apr-20	08:42	77			
	28-Apr-20	09:13	62			

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

3.3 Noise Monitoring

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

Table 3.3: Summary of noise monitoring results during normal weekdays

Monitoring Date	Start Time	End Time	L_{eq} (30 mins)*, dB(A)	Limit Level for L_{eq} (dB(A))
02-Apr-20	10:32	11:02	68	
08-Apr-20	10:37	11:07	69	
14-Apr-20	10:42	11:12	68	75
24-Apr-20	10:19	10:49	70	
28-Apr-20	08:27	08:57	70	

Remarks:

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

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

3.4 Landscape and Visual Impact

Landscape and visual impact inspections were conducted as part of the weekly site inspections on 14 and 28 April 2020 for M+ Museum, and 8 and 22 April 2020 for Lyric Theatre Complex (L1 and L2 Contract) during the reporting month. As reviewed by the registered Landscape Architect, no adverse comment on landscape and visual aspects was made during these inspections.

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

4 Environmental Site Inspection

4.1 Site Inspection

4.1.1 M+ Museum

Construction phase weekly site inspections were carried out on 7, 14, 21 and 28 April 2020. The joint site inspection with IEC, ET, ER and Contractor was held on 21 April 2020. All observations have been recorded in the site inspection checklist and passed to the Contractor together with the appropriate recommended mitigation measures where necessary.

FEHD site inspections with contractor were conducted on 3 and 24 April 2020. FEHD reminded stagnant water trapped under the material storage should be removed regularly or applied with larvicide if necessary on 3 April 2020 site inspection. No adverse comment was made on 24 April 2020 site inspection.

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

Table 4.1: Summary of Site Inspections and Recommendations for M+ Museum

Inspection Date	Parameter	Observation / Recommendation	Contractor's Responses / Action(s) Undertaken	Close-out (Date)
07-Apr-20	Water Quality	Effluent quality of wetsep was checked. It was found visually clear when compared with standard solution and within proper pH range.	N/A	N/A
14-Apr-20	Noise Impact	Breaker was observed without noise-insulating fabric at Gate 7. The contractor was reminded to provide noise-insulating fabric to avoid noise impact.	The contractor has provided noise-insulating fabric for the breaker.	14-Apr-20
14-Apr-20	Water Quality	Effluent quality of wetsep was checked. It was found visually clear when compared with standard solution and within proper pH range.	N/A	N/A
21-Apr-20	Water Quality	Effluent quality of wetsep was checked. It was found visually clear when compared with standard solution and within proper pH range.	N/A	N/A
28-Apr-20	Air Quality	Dusty road was observed at the soil storage area. The contractor was reminded to increase water spraying frequency to avoid dust impact.	The contractor has increased water spraying frequency to the road to avoid dust impact.	05-May-20
28-Apr-20	Water Quality	Effluent quality of wetsep was checked. It was found visually clear when compared with standard solution and within proper pH range.	N/A	N/A

Inspection Date	Parameter	Observation / Recommendation	Contractor's Responses / Action(s) Undertaken	Close-out (Date)
28-Apr-20	Air Quality	The contractor was reminded to cover the stockpile with impervious sheeting by the end of the working day and enhance the wheel washing at the soil storage area.	The contractor has covered the stockpile with impervious sheeting and enhanced the wheel washing at the soil storage area.	05-May-20

4.1.2 Lyric Theatre Complex

Construction phase weekly site inspections were carried out on 1, 8, 15, 22 and 29 April 2020 (L1 and L2 Contract). The joint site inspection with IEC, ET, ER and Contractor was held on 22 April 2020. All observations have been recorded in the site inspection checklist and passed to the Contractor together with the appropriate recommended mitigation measures where necessary.

FEHD site inspection with contractor was conducted on 9 April 2020. No adverse comment was made for both L1 and L2 Contract. FEHD only reminded L2 to remove the stagnant water on the tarpaulin sheet for springs or provide mosquito mitigation measures for the stagnant water on the tarpaulin sheet.

The key observations from the site inspections and associated recommendations are summarized in **Table 4.2** and **Table 4.3**.

Table 4.2: Summary of Site Inspections and Recommendations for L1

Inspection Date	Parameter	Observation / Recommendation	Contractor's Responses / Action(s) Undertaken	Close-out (Date)
01-Apr-20	Water Quality	Algae was observed at wetsep #1. The contractor was reminded to clear the algae to keep good quality of discharge water.	The contractor has cleared the algae at wetsep.	07-Apr-20
01-Apr-20	Waste Management	Oil leakage was observed at drip tray. The contractor was reminded to clean up the oil spill as soon as possible and treat the contaminated soil as chemical waste.	The contractor has cleaned up the oil spill and treated the contaminated soil as chemical waste.	07-Apr-20
08-Apr-20	Air Quality	The contractor was reminded to enhance the dust mitigation measures at Area 6 (e.g. increase water spraying frequency or clear the stockpile as soon as possible).	The contractor has removed the stockpile and increased water spraying frequency to prevent dust impact.	09-Apr-20
15-Apr-20	Waste Management	Oil leakage was observed at drip tray. The contractor was reminded to provide a proper drip tray and clean up the oil spill as chemical waste.	The machine and oil stain have been removed.	22-Apr-20
15-Apr-20	Air Quality	The contractor was reminded to cover the stockpile near wetsep #1 with impervious sheeting to avoid dust impact.	The contractor has covered the stockpile with impervious sheeting.	16-Apr-20

Inspection Date	Parameter	Observation / Recommendation	Contractor's Responses / Action(s) Undertaken	Close-out (Date)
22-Apr-20	Waste Management	Chemical containers were observed without cover and labelling. The contractor was reminded to ensure the container was securely closed and display a suitable chemical waste label.	Lid and proper label have been provided for the chemical waste and containers.	27-Apr-20
29-Apr-20	Air Quality	The contractor was reminded to increase water spraying frequency to the main cofferdam and the stockpile near wetsep #1 to avoid dust impact.	The contractor has increased water spraying frequency to the main cofferdam and the stockpile near wetsep #1 to avoid dust impact.	04-May-20

Table 4.3: Summary of Site Inspections and Recommendations for L2

Inspection Date	Parameter	Observation / Recommendation	Contractor's Responses / Action(s) Undertaken	Close-out (Date)
-	-	-	-	-

4.2 Advice on the Solid and Liquid Waste Management Status

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

4.2.1 M+ Museum

As advised by the Contractor, 0.0 tonne and 333.58 tonnes of inert C&D material were disposed of at Tuen Mun Area 38 and Tseung Kwan O Area 137 Public Fill respectively. 31.94 tonnes of inert C&D material were disposed of at Sorting Facility at Tseung Kwan O Area 137. 389.4 tonnes of general refuse were disposed of at SENT landfill. 406.5 tonnes of metal, 0.9 tonnes of paper/cardboard packaging, 0.0 tonne of plastic and 0.0 tonne of timber were collected by recycling contractors in the reporting month. 0.0 tonne of inert C&D material was reused on site. 0.0 tonne of inert C&D material was reused in other projects. 0.0 tonne of chemical waste was collected by licensed contractors in the reporting period.

The cumulative waste generation records for M+ Museum are shown in **Appendix I**.

4.2.2 Lyric Theatre Complex

As advised by the L1 Contractor, 1,256.33 tonnes and 2,125.86 tonnes of inert C&D material were disposed of at Tseung Kwan O Area 137 and Tuen Mun Area 38 Public Fill respectively, while 113.2 tonnes of general refuse were disposed of at SENT and WENT landfill. 1,123.9 tonnes of metal, 0.0 tonne of paper/cardboard packaging, 0.0 tonne of plastic and 0.0 tonne of timber were collected by recycling contractors in the reporting month. 0.0 tonne of inert C&D material was reused on site. 1,615.7 tonnes of inert C&D materials were reused in other projects and 159.2 tonnes of inert C&D material were imported for reuse at site. 0.0 tonne of inert C&D material was disposed to sorting facility and 0.0 tonne of chemical waste was collected by licensed contractors in the reporting period.

As advised by the L2 Contractor, 0.0 tonne of inert C&D material was disposed of as public fill, and 0.0 tonne of general refuse was disposed to landfill. 0.0 tonne of metal, 0.0 tonne of paper/cardboard packaging, 0.0 tonne of plastic and 0.0 tonne of timber were collected by

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

The actual amounts of different types of waste generated by the activities of construction works at Lyric Theatre Complex (L1 and L2 Contract) in the reporting month are shown in **Appendix I**.

4.3 Status of Environmental Licenses and Permits

The environmental permits, licenses, and/or notifications on environmental protection for this Project which were valid during the period are summarised in **Table 4.4** and **Table 4.5** and **Table 4.6**.

4.3.1 M+ Museum

Table 4.4: Status of Environmental Submissions, Licenses and Permits for M+ Museum

Permit / License No. / Notification / Reference No.	Valid Period		Status	Remarks
	From	To		
Chemical Waste Producer Registration				
WPN5213-217-G2347-53	04-Oct-18	--	Valid	--
Billing Account Construction Waste Disposal				
7031993	03-Oct-18	--	Account Active	--
Construction Noise Permit				
GW-RE0973-19	10-Dec-19	26-May-20	Valid	
Wastewater Discharge License				
WT-00033363-2019	21-Mar-19	31-Mar-24	Valid	--
WT-00035338-2019	20-Jan-20	31-Jan-25	Valid	--
Notification under Air Pollution Control (Construction Dust) Regulation				
437339	12-Sep-18	--	Notified	--

4.3.2 Lyric Theatre Complex

Table 4.5: Status of Environmental Submissions, Licenses and Permits for L1

Permit / License No. / Notification / Reference No.	Valid Period		Status	Remarks
	From	To		
Chemical Waste Producer Registration				
WPN5213-217-G2347-39	17-Feb-16	--	Valid	--
Billing Account Construction Waste Disposal				
7029925	22-Jan-18	--	Account Active	--
Construction Noise Permit				
GW-RE0109-20	4-Mar-20	3-May-20	Valid	--
Wastewater Discharge License				

Permit / License No. / Notification / Reference No.	Valid Period		Status	Remarks
	From	To		
WT-00030694-2018	11-Apr-18	30-Apr-23	Valid	--
Notification under Air Pollution Control (Construction Dust) Regulation				
429708	16-Jan-18	--	Notified	--

Table 4.6: Status of Environmental Submissions, Licenses and Permits for L2

Permit / License No. / Notification / Reference No.	Valid Period		Status	Remarks
	From	To		
Chemical Waste Producer Registration				
WPN5213-217-G2347-39	17-Feb-16	--	Valid	This license/permit is share with L1
Billing Account Construction Waste Disposal				
7032787	02-Jan-19	--	Account Active	--
Construction Noise Permit				
GW-RE0109-20	4-Mar-20	3-May-20	Valid	This license/permit is share with L1
Wastewater Discharge License				
WT-00030694-2018	11-Apr-18	30-Apr-23	Valid	This license/permit is share with L1
Notification under Air Pollution Control (Construction Dust) Regulation				
448474	27-Aug-19	--	Notified	--

4.4 Recommended Mitigation Measures

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

4.4.1 M+ Museum

Air Quality

- Increase water spraying frequency to dusty road to avoid dust impact.
- Any stockpiles/debris should be covered by impervious sheeting.

Noise

- Noise insulating fabric should be adopted for certain PME to reduce noise emission.

4.4.2 Lyric Theatre Complex

L1

Water Quality

- All drainage facilities should be properly maintained to adequately control site discharges.

Air Quality

- Increase water spraying frequency to dusty road to avoid dust impact.
- Any stockpiles/debris should be covered by impervious sheeting.

Waste Management

- Drip trays should be provided for chemical containers.
- Oil leakage should be cleared and handled as chemical waste.
- Container used for storage chemicals should be maintained in good condition and properly labelled.

L2

- No observations

5 Compliance with Environmental Permit

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

Table 5.1: Status of Submissions under the Environmental Permit

EP Condition	Submission	Submission Date
Condition 3.4	Monthly EM&A Report for March 2020	14 April 2020

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

6.1 Record on Non-compliance of Action and Limit Levels

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

6.2 Record on Environmental Complaints Received

One environmental complaint was received in the reporting month.

A letter from EPD dated 23 April 2020 regarded delivered trucks at L1 construction site at West Kowloon Cultural District were washed for wheels only not for whole truck body with concrete/ soil residue remaining on truck surface after leaving the site, which might drip onto the road surface outside the site.

After the investigation, it was considered that proper mitigation measures for the vehicle wheel washing had been provided by the contractor and the potential sources of air and water nuisances from the site were minimized by proper mitigation measures. In conclusion, the air and water nuisances in this case were considered to be not project related. However, the mitigation measures should be reviewed daily during construction.

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

6.3 Record on Notifications of Summons and Successful Prosecution

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

7 Future Key Issues

7.1 Construction Works for the Coming Month(s)

7.1.1 M+ Museum

The major site works for M+ Museum scheduled to be commissioned in the coming month include:

- Structure
 - M+ Podium: Structural works completed
 - CSF RF: Structural works completed
 - RDE RF: Structural works completed
- MEP
 - BEL, BLT, ELV, BFS, BPD, BME works from B2 to 16/F of M+
 - BEL, BLT, ELV, BFS, BPD, BME works from G/F to 15/F of RDE
 - MEP works at CSF building majority finished
 - T&C for M+ / CSF
- ABWF
 - M+ B2F – 3/F Basement & Podium, Screeding, wall plastering, finishing & Paving works, installation of fire shutter, toilets / sanitary fitment installation, make good & finishes works
 - M+ Tower - paint/sealer, plaster, toilets / sanitary fitment installation, make good & finishes works
 - CSF – majority ABWF works at CSF accomplished, make good & defect rectification
 - RDE up to 15/F – blockwall, plastering, Artwall/drywall stud erection, False ceiling sub-frame installation, paving & flooring works
- Other
 - M+ G/F – Paving works
 - M+ 3F Podium Roof – landscaping works (soil mix), drainage mat / cable installation
 - Paving works at M+ 1/F, G/F

7.1.2 Lyric Theatre Complex

The major site works for L1 scheduled to be commissioned in the coming month include:

- Excavation work at Main Cofferdam
- Drainage work (PIW works)
- Extended basement structure construction of Area 06 and Main Cofferdam

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

- Visual Mock Up
 - VMU interior work
- LTC construction

- B2, B2U/F, B1L/F, B1, B1M and L00 construction
 - Falsework and Formwork Erection
 - Reinforcement work
 - Concrete work
- Extended Basement
 - BS installation (south B2)
- DSC Cofferdam A
 - DCS Cofferdam A – Section 2
- Remaining Works for M+ Promenade
- Modification to Existing Pump Cell
 - Re-provision of Sea Water Pump Cell
 - Modification of Existing Pump Cell, & Connection to New Pump Cell

7.2 Key Issues for the Coming Month

7.2.1 M+ Museum

Key issues to be considered in the coming month include:

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

7.2.2 Lyric Theatre Complex

Key issues to be considered in the coming month include:

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

7.3 Monitoring Schedule for the Coming Month

The environmental site inspection and environmental monitoring will be continued in the coming month. Impact monitoring for air quality and noise in accordance with the approved EM&A Manual has commenced since 31 October 2015 and 5 March 2016 respectively. The tentative monitoring schedule for the coming month is shown in the **Appendix E**.

8 Conclusions and Recommendations

8.1 Conclusions

The EM&A programme as recommended in the EM&A Manual has been undertaken since the construction of M+ Museum main works commenced on 31 October 2015, and the construction of Lyric Theatre Complex commenced on 1 March 2016.

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

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

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

8.2 Recommendations

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

Figure 1 Site Layout Plan and Monitoring Stations

Appendices

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

A. Project Organisation

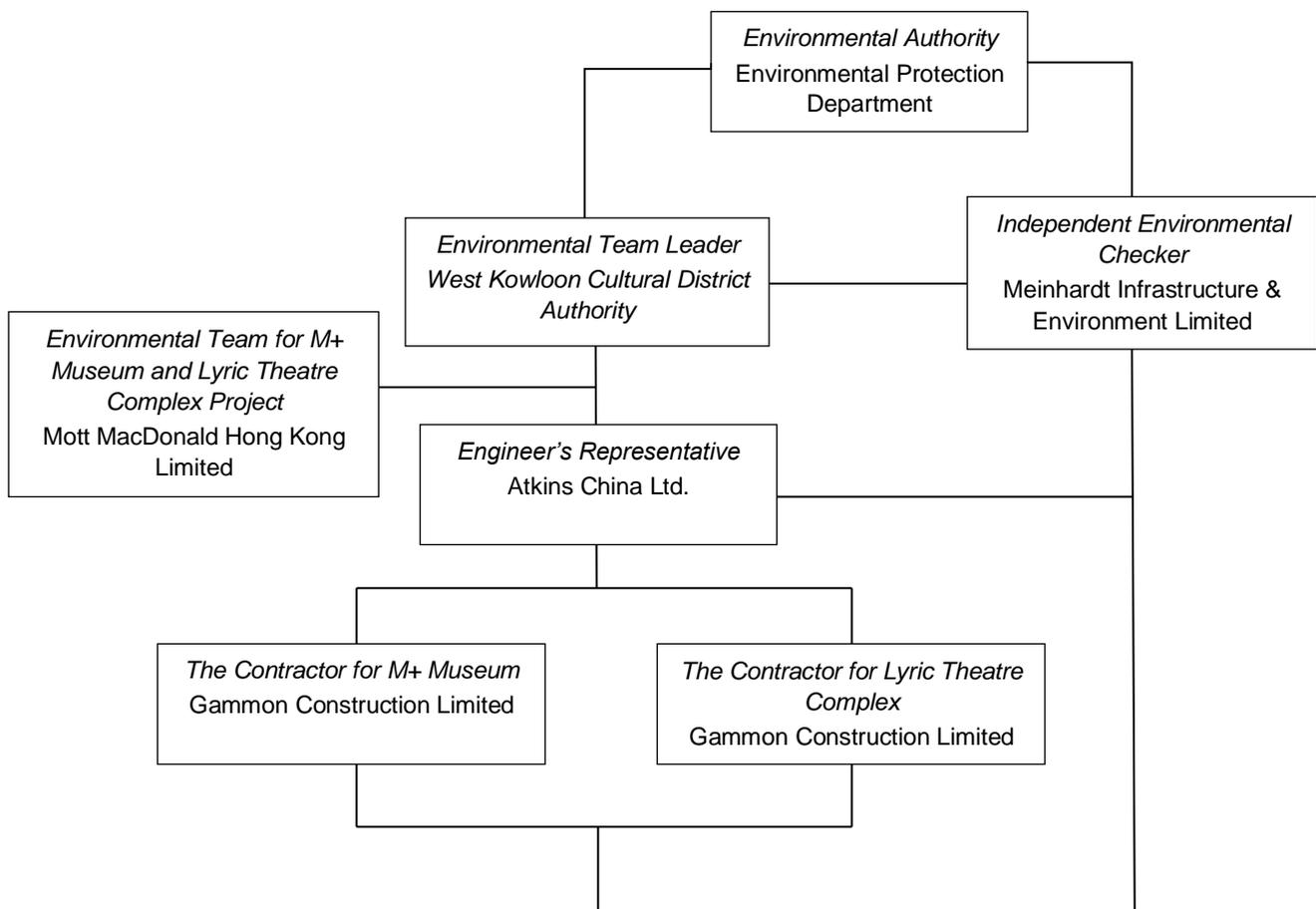


Table A-1: Contact information

Company Name	Role	Name	Telephone
Atkins China Ltd.	Resident Engineer	Ms. Gloria Lui	5506 6361
Meinhardt Infrastructure & Environment Limited	Independent Environmental Checker	Ms. Helen Cochrane	2859 1734
Gammon Construction Limited (M+ Museum)	Environmental Manager	Mr. Andy Leung	9489 0035
Gammon Construction Limited (L1)	Environmental Manager	Ms. Sammie Chan	9864 4296
Gammon Construction Limited (L2)	Environmental Manager	Mr. Ivan Chiu	9416 1664
Mott MacDonald Hong Kong Ltd.	Contractor's Environmental Team Leader	Mr. Thomas Chan	2828 5757
West Kowloon Cultural District Authority	Senior Project Manager (Safety, Health and Environment)	Mr. C.K. Wu	5506 9178

westKowloon

西九文化區

By Fax and Post

Our Ref: PRD-C005-01-W04523

Mott MacDonald Hong Kong Limited
3/F International Trade Tower,
348 Kwun Tong Road,
Kwun Tong, Kowloon

17 January 2020

Attn: Mr. Thomas CHAN

Dear Sir,

WEST KOWLOON CULTURAL DISTRICT AUTHORITY

Environmental Permit No. EP-453/2013/B
Environmental Team Leader (ETL)

Please be advised the ETL on this project has been changed from Mr. Brian Tam to Mr. C. K. Wu (Senior Project Manager – SHE) with effective from 7 January 2020. Both EPD and IEC has been notified the change.

Mr. C. K. Wu can be contacted at telephone no. 22048247 and email at ck.wu@wkcda.hk.

Yours sincerely,



(Jeremy STOWE)
Chief Projects Officer
West Kowloon Cultural District Authority

C.C.

Meinhardt Infrastructure & Environment Ltd. – Mr. Frederick Leong (By post)

B. Tentative Construction Programme

M+ Museum

ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	Finish Var	TF	2020											
									Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
GENERAL & PRELIMINARIES (Remaining Works @ 10 SEP 2018) PROJECT KEY COMPLETION DATES Completion Obligations (*constrained dates for critical paths) OP1 Podium, M+ Tower & CSF - Obtain OP for the Whole of M+ 0 31-Mar-20 10-Jul-20* -101 -102 PC2 CSF - Obtain PC for Hover to Employer (incl. Zone B2_Z07 - Loading Bays) 0 31-Mar-20 10-Jul-20* -101 -101 OP2 RDE - Obtain OP for Hover to Employer 0 30-May-20 21-Aug-20* -83 -83 PC1a RDE - Obtain PC for Hover to Employer 0 21-Sep-20* -83 -83 PC1 Podium, M+ Tower - Obtain PC for Hover to Employer 0 30-Jun-20 10-Oct-20* -102 -102 Salient Achievement Milestones (*non-constrained dates - open ended) Others Client Specified DP2 CSF - Drying Period - Stage 1 (Air Cooled Chillers 1/F to 5/F) 30 02-Jan-20 A 30-Apr-20 -37 DP3 CSF - Drying Period - Stage 2 (w/ Air Cooled Chillers GF; 6/F to 8/F & North Roof) 60 03-Apr-20 01-Jun-20 -37 CWA2 CSF - Commence Circulating Wild Air - Stage 2 (w/ Air Cooled Chillers GF; 6/F to 8/F) 0 30-Nov-19 10-Apr-20 -132 -37 ICT Handover Main IT, Local ICT & Riser Rooms (wild air on, dust free etc.) 0 07-Feb-20 22-Apr-20 -76 171 C1 CEDD Funded Works - Completion of Cost Centre C1 Works (construction only) 0 11-Dec-19 30-Apr-20 -142 163 EWS External Wall System MS32 POD - Install M+ Shop Front Glazing 0 02-Sep-19 01-Apr-20 -170 160 MS33 POD - Complete 1st Glass Wall Section at GF (ID: 8946; DM2-6) 0 28-Jun-19 03-Apr-20 -227 157 MS26 POD - Podium Weater Tight (incl. B1/GF Glass Walls, L3 openings, TW GF) 0 17-Sep-19 17-Apr-20 -171 146 MS29 RDE - Structure Weather Tight to L15, 15MF, UF & Roof 0 18-Oct-19 17-Apr-20 -146 146 PISA PISA Substantial Completion of the Works - All areas (exc. minor remaining Works, 1) 0 22-Jun-20 91 ABWF Works MS41 TW - Complete Builders Works/Initial Wet Trades from 4/F to UR/F 0 31-Jul-19 07-Apr-20 -203 155 MS35 POD - Complete Builders Works/Initial Wet Trades at B1 Level BoH P'rooms & Corr 0 22-Aug-19 08-Apr-20 -184 154 MS66 RDE - Complete Builders Works/Initial Wet Trades from 1/F to 9/F BoH Rooms 0 30-Apr-19 11-Apr-20 -282 151 MS67 POD - Complete Builders Works/Initial Wet Trades at GF Level 0 24-Jul-19 11-Apr-20 -212 151 MS39 RDE - Complete Builders Works/Initial Wet Trades at 15MF to R/F 0 29-Nov-19 09-May-20 -128 128 MEP Works MS55 POD - L2 BoH Perimeter Corridor 2nd Fix High & Low Level 0 08-Oct-19 05-Mar-20 A -118 158 MS46 CSF - Complete Final Fix in AHU Rooms L1 to L5 (for Wild Air Stage 1) 0 15-Jul-19 02-Apr-20 -214 158 MS50 POD - Complete Heat Exchanger Room 1st Fix Zone B2_Z04e 0 09-Jul-19 02-Apr-20 -218 158 MS54 POD - Complete 1st Fix at Level 1MF 0 19-Jul-19 02-Apr-20 -209 158 MS56 TW - Complete MEP 1st Fix ALL Levels 0 05-Aug-19 02-Apr-20 -195 158 MS70 CSF - Complete 2nd Fix to Level 6 0 21-Aug-19 02-Apr-20 -181 158 MS51 POD - Complete Carriageway Electrical Rooms 1st Fix 0 27-Aug-19 03-Apr-20 -177 158 MS52 POD - Complete 1MF 2nd Fix (incl. cable pulling & EQP) 0 15-Oct-19 03-Apr-20 -139 157 MS53 POD - Complete 1MF Final Fix 0 26-Nov-19 06-Apr-20 -104 156 MS47 CSF - Complete Final Terminations at all Levels 0 20-Nov-19 10-Apr-20 -112 152 MS58 TW - Complete MEP 2nd & Final Fix ALL Levels 0 24-Sep-19 15-Apr-20 -162 149 MS65 RDE - Complete Riser Duct, D Cable Pulling 0 24-Oct-19 24-Apr-20 -147 140 MS59 RDE - Complete MEP 1st Fix to L15 0 26-Oct-19 11-May-20 -158 127 MS62 RDE - Complete Gen Sets/Fuel Tanks 1st Fix 0 31-Dec-19 02-Jun-20 -122 108 MS60 RDE - Complete MEP 2nd Fix to L15 0 04-Dec-19 06-Jun-20 -148 104 MS61 RDE - Complete MEP Final Fix to L15 0 26-Dec-19 22-Jun-20 -143 91 External Project Interface Milestones Phased Handover to WKCD ICT Contractor Phase 1 Ready for Handover - for Wiring Works 9902 POD_B2_Z04d_Other P. Rms - ICT Riser & Containment key date 0 30-Apr-19 02-Apr-20 -275 158 9942 POD_1M_Z02 - ICT Containment key date 0 13-Jul-19 02-Apr-20 -214 158 9943 POD_1M_Z03 - ICT Containment key date 0 19-Jul-19 02-Apr-20 -209 158 9944 POD_1M_Z04 - ICT Containment key date 0 19-Jul-19 02-Apr-20 -209 158 9966 POD_L3_ST04 - ICT Pillar Box key date 0 28-May-19 03-Apr-20 -253 157 9967 POD_L3_ST07 - ICT Pillar Box key date 0 02-Jul-19 03-Apr-20 -225 157 9969 POD_L3_ST17 - ICT Pillar Box key date 0 02-Jul-19 03-Apr-20 -225 157 9939 TW_L11_Z02_BoH - ICT Riser Rooms Key Date 0 18-Jul-19 05-Mar-20 A -185 158 9940 TW_L12 to RF_Z02_BoH - ICT Riser Rooms Key Date 0 16-Aug-19 02-Apr-20 -185 158 9960 RDE_L15M to RF_Z02_BoH ICT Rooms Key Date 0 04-Jan-20 06-Apr-20 -71 156 9958 RDE_L6 to L10_Z02_BoH ICT Rooms Key Date 0 15-Jul-19 21-Apr-20 -228 143 9959 RDE_L11 to L15_Z02_BoH ICT Rooms Key Date 0 26-Oct-19 23-Apr-20 -144 141 Phase 2 Ready for Handover - for Equipment Installation Works 9954 ICT Rooms at Podium 0 07-Feb-20 14-May-20 -82 124 9955 ICT Rooms at M+ Tower 0 09-Dec-19 15-Apr-20 -101 148 9956 ICT Rooms at CSF 0 02-Dec-19 08-Apr-20 -100 154 9957 ICT Rooms at RDE 0 12-Mar-20 06-Aug-20 -122 54 Project Wide Permanent Works Design & Engineering Buildings Department (BD) Submissions (RDE) 4683 RDE - Metal Balustrade w/ Picket Infill at 15/F - Submission_3rd Amendment to BD 0 05-Dec-18 03-Apr-20* -392 -40 4689 RDE - Metal Balustrade w/ Mesh Infill at 15/F - BD Review & Appr'l Period 60 05-Dec-18 02-Feb-19 03-Apr-20 01-Jun-20 -485 -47 5348 RDE - Metal Balustrade w/ Mesh Infill at 15/F - BD Consent 30 03-Feb-19 04-Mar-19 02-Jun-20 01-Jul-20 -485 -47 4690 RDE - Metal Railing at 15MF of RDE - Submission_3rd Amendment to BD 0 05-Dec-18 03-Apr-20* -392 -40 4695 RDE - Metal Railing at 15MF of RDE - BD Review & Appr'l Period 60 05-Dec-18 02-Feb-19 03-Apr-20 01-Jun-20 -485 -47 5349 RDE - Metal Railing at 15MF of RDE - BD Consent 30 03-Feb-19 04-Mar-19 02-Jun-20 01-Jul-20 -485 -47 4716 RDE - Glass Balustrade at G/F - 2/F of RDE - Submission_2nd Amendment to BD 0 15-Nov-18 29-Apr-20* -430 -61 4726 RDE - Glass Balustrade at G/F - 2/F of RDE - BD Review & Appr'l Period 60 15-Nov-18 13-Jan-19 29-Apr-20 27-Jun-20 -531 -73 5351 RDE - Glass Balustrade at G/F - 2/F of RDE - BD Consent 30 14-Jan-19 12-Feb-19 28-Jun-20 27-Jul-20 -531 -73 111121 RDE - Roof Logo - BD Review & Appr'l Period 0 10-Dec-19 A 02-Mar-20 A 111122 RDE - Roof Logo - BD Consent 1 03-Mar-20 A 01-Apr-20 18 111123 RDE - Roof Logo - Fabricate and Deliver 8 23-Mar-20 A 22-Apr-20 -3 Project Wide Procurement, Manufacture & Delivery ABWF (Long Lead Items Only) Doors / Shutters / Gates / Panels 9680 P - CSF - SR3 OS Security Door - Procurement & Delivery Last Site Delivery (for B2/B) 90 01-Apr-19 30-Aug-19 16-Sep-19 A 18-Jul-20 -261 -26 9680a P - OS Security Door Frame - Procurement & Delivery_1st Site Delivery (for L2 Plaza) 3 16-Sep-19 A 03-Apr-20 -65 9680b P - OS Security DOOR LEAF/IRON - Proc. & Delivery_1st Site Delivery (for L2 Plaza) 12 16-Mar-20 A 15-Apr-20 63 4214 P - T - CSF - Timber Sliding Door at Toilet, Access Door/Panel - Proc & Del_1st Site Del 12 05-Jan-19 20-Apr-19 17-May-19 A 15-Apr-20 -293 -51 7873 P - Metal Door/ FRR Doors (by PISA) Proc & Site Delivery (temp. for DGS installed in) 12 15-Jul-19 A 15-Apr-20 63 Furniture, Fixtures & Equipment (FF&E) 111130 CSF - Pantry PA2, White Goods (Ngai To)_Design, Manuf & Delivery (2 items) for L6. 21 20-Jan-20 A 25-Apr-20 -33 11576 CSF - Mobile Screen (Kingfisher)_Manuf & Delivery (Mobile Screen) for L1/2/4_Z01 4 24-Jan-20 A 06-Apr-20 24 11575 CSF - Museum Storage Systems (Dexion)_Manuf & Delivery (3 items) for CSF-GF-LT 10 11-Feb-20 A 24-Mar-20 A 111131 CSF - Resin Floor System (MAPEI)_Design, Manuf & Del. for L6&7_Z01 0 03-Mar-20 A 13-Apr-20 47 11577 CSF - Lab Furniture & Loose Furniture (Ngai To)_Manuf & Delivery (6 items) for L6&7 38 10-Mar-20 A 16-May-20 19 6341 P - T - CSF - Roller Blinds Proc/Fab/Del (1st Batch) (CR11/20/21/22/23/24/25) 12 15-Jan-19 29-May-19 02-Jan-20 A 15-Apr-20 -261 -49 4218 T - Fixed Furniture - Procurement & Delivery_1st Site Delivery (after OP1) 77 06-Apr-19 30-Sep-19 05-Aug-19 A 03-Jul-20 -223 -38 4220 T - Bamboo Benches - Procurement & Delivery_1st Site Delivery (after Op1) 91 05-Jan-19 06-Apr-19 05-Aug-19 A 20-Jul-20 -384 -22 4661 RDE - Signage - Production & Fabrication for 1st Site Delivery 15 08-Jan-19 30-Apr-19 03-Feb-20 A 18-Apr-20 -288 9 4662 RDE - Signage_1st Site Delivery 0 02-May-19 18-Apr-20 -288 9 6347 P - Cinema Seat Procurement & 1st Site Delivery (after OP1) 67 12-Apr-19 02-Oct-19 03-Jun-19 A 19-Jun-20 -212 -18 6350 P - Curtains (w/ Curtain Tracks delivered)_1st Site Delivery (CR09/07/08/28/29) 61 24-Dec-18 24-Apr-19 23-Dec-19 A 12-Jun-20 -339 -13 6353 P - Fabric Panel to Wall, Ceiling (Soft Cell), Onema Fabric_1st Site Delivery 0 09-Jan-19 17-Aug-19 31-Aug-19 A 18-Mar-20 A -170 6379 P - Learning Center 1/F Curtain_1st Site Delivery 72 14-Jan-19 28-May-19 29-Apr-20 24-Jul-20 -345 -50 Ceiling 5454 *T - Open Timber Slat - Procurement & Delivery_1st Site Delivery 36 24-Dec-18 20-Jul-19 08-Apr-20* 20-May-20 -247 11 4187a LTH - Bamboo Slat Ceiling_(2 Batch Delivery) 14 15-Apr-20* 30-Apr-20 0 6375 P - Acoustic Ceiling (Lahnau) - (CL03, CL12, CL14)_1st Site Delivery 0 25-Feb-19 21-May-19 17-Jul-19 A 21-Mar-20 A -248 Walls 8403 T - Bamboo Veneer to Cubicle Partition & Door_Final Shop Dwg 0 24-Jan-19 27-Mar-19 16-Oct-19 A 12-Mar-20 A -285 11 4216 T - Bamboo Veneer to Cubicle Partition & Door_Proc & Del_1st Site Del 41 21-Dec-18 23-Mar-19 16-Mar-20 A 20-May-20 -345 11 4187 P - T - Timber Wall, Ceiling/Capp. (incl Oak & Bamboo)_Proc READY for 1st Site Del 22 12-Jan-19 10-Jul-19 03-Feb-20 A 27-Apr-20 -237 -1 4202 P - T - CSF - Toilet Cubicle Partition - Procurement & Delivery_1st Site Delivery 12 28-Jan-19 29-Apr-19 26-Aug-19 A 15-Apr-20 -286 -47 4206 T - CSF - Movable Partition - Procurement & Delivery_1st Site Delivery 11 10-Jan-19 10-May-19 24-Jan-20 A 14-Apr-20 -276 -23 6377 P - Movable Partition (Inclined)_1st Site Delivery 65 10-Nov-18 11-Mar-19 30-Jan-20 A 17-Jun-20 -380 -44 Flooring 4174 P - T - CSF - SA Timber Floor - Procurement & Delivery_Ready for 1st Site Delivery 12 12-Jan-19 10-Jul-19 02-May-19 A 15-Apr-20 -227 -26 6345 P - End Grain Timber Floor DW04_Ready for 1st Site Delivery (pending temp. HVAC) 30 27-Dec-18 18-Oct-19 27-Dec-18 A 07-May-20 -162 9 Miscellaneous Finishes 6363 P - Façade Profiled Wood Cladding_Ready for 1st Site Delivery 52 31-Dec-18 27-Jun-19 22-Apr-19 A 03-Jun-20 -277 4 Miscellaneous Metal Work & Glazing 4612 RDE - Metal Cladding for Escalator - Mat'l Proc & Del to China for 1st Site Delivery 30 29-Nov-18 04-Jan-19 03-Apr-20* 09-May-20 -397 -25 4614 RDE - Metal Cladding for Escalator - Cladding_1st Site Delivery for 1st Site Delivery 0 15-Feb-19 09-May-20 -367 -25 4664 RDE - Stainless Steel Grating - Production & Fabrication for 1st Site Delivery 22 28-Nov-18 15-Jan-19 24-Feb-20 A 28-Apr-20 -378 3 4665 RDE - Stainless Steel Grating_1st Site Delivery 0 15-Jan-19 28-Apr-20 -378 3																				



	Base Line ACT		Current - MEP Works
	Base Line MS		Current - ABWF Works
	Milestone		Current - Façade Works
	Current - Other Works		Critical Works
	Current - Struct Works		

CMWP Rev 0_14 - Full Integrated Bar Chart_14th Progress Update (DD: 31.03.20)

Date	Revision	Checked	Approved
01-Feb-19	CMWP Rev. 0 - Approved Master Programme	NS	BG
09-Apr-20	CMWP Rev. 0_14 - 14th Progress Update	RJM	BG

ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	Finish Var	TF	2020											
									Mar	Apr	May	Jun	Jul	Aug	Sep	Oct				
MEP (Long Lead Items Only)																				
Project Wide (M+ Tower, RDE, CSF & Podium)																				
Electrical & Controls																				
4238	T - FOH Architectural Lightings (C84-Lightistic)_Proc & Del_1st Site Delivery	0	28-Feb-19	04-Jul-19	03-Jun-19 A	14-Mar-20 A	-206													
4238b	P - Architectural Lighting (C65-Lightistic)_Procurement and 1st Site Delivery	0			21-Aug-19 A	16-Mar-20 A														
4238m	P - Archi Lightings (C66-Regent)_Proc & 1st Site Delivery	0			14-Oct-19 A	13-Mar-20 A														
4238s	P - External Archi Lightings (EX5A/5B/6)_Fab & 1st Site Delivery	25			06-Nov-19 A	30-Apr-20	35													
4238r	P-T - Archi Lightings (C90-FLOS)_Fab & 1st Site Delivery	14			03-Dec-19 A	17-Apr-20	47													
4238d	P - Archi Lightings (C41-FLOS)_Proc & 1st Site Delivery	14			03-Dec-19 A	17-Apr-20	46													
4238e	P - Archi Lightings (C42-FLOS)_Proc & 1st Site Delivery	14			03-Dec-19 A	17-Apr-20	47													
4238n	P - Archi Lightings (C82-FLOS)_Proc & 1st Site Delivery	14			03-Dec-19 A	17-Apr-20	46													
4238p	P - Archi Lightings (C87-FLOS)_Proc & 1st Site Delivery	14			03-Dec-19 A	17-Apr-20	49													
4238t	P - FOH Arch Lightings Butcher Lamp (C86) Tripod System_1st Site Delivery	14			03-Dec-19 A	17-Apr-20	47													
4238l	T - Archi Lightings (C54A/B)_Proc & 1st Site Delivery	0			13-Dec-19 A	09-Mar-20 A														
4238k	T - Archi Lightings (C52-Zumtobel)_Proc & 1st Site Delivery	50			30-Mar-20 A	30-May-20	13													
4238f	P - Archi Lightings (C43-Maxgrand)_Proc & 1st Site Delivery	61			03-Apr-20*	15-Jun-20	-1													
4238o	P - Archi Lightings (C83-Maxgrand)_Proc & 1st Site Delivery	61			03-Apr-20*	15-Jun-20	-1													
EWS External Wall System & Internal Glazing																				
RDE EWS & Internal Glazing																				
111191	RDE_EWS - L2 - L14 Facade Doors Procurement & Fabrication	24			15-Nov-19 A	29-Apr-20	-11													
111192	RDE_EWS - L2 - L14 Facade Doors Site Delivery (1st batch mid-Feb)	26			05-Mar-20 A	16-May-20	-11													
Corrugated Aluminium Perforated Panels																				
8928	POD_GF_CORR_Panels - Fabricate Corrugated Alum. Perforated Panels	0	31-Dec-18	13-Jun-19	10-Jun-19 A	14-Mar-20 A	-222													
8927	POD_GF_CORR_Panels - Fab'n Sub-frames/Perforated Panels Carriageway Wall	0	16-May-19	27-Jun-19	28-Oct-19 A	18-Mar-20 A	-213													
Establishment																				
Tower Cranes Establishment & De-establishment																				
7410	TC_3.1 - Demob Tower Crane (crane base @ POD L3 GLE-L11-12)	0	12-Dec-19	27-Dec-19	27-Mar-20 A	31-Mar-20 A	-73													
7415	TC_1.B - Demobilise Tower Crane (crane base @ GL2'+J)	6	04-Jan-20	17-Jan-20	04-May-20	09-May-20	-88	-2												
BASEMENT & PODIUM																				
Construction																				
Initial Works, Establishment & Miscellaneous																				
14238a	POD - Architectural Lightings Installation (C41/42/86/90)	12	03-Feb-20	15-Feb-20	13-Jul-20	25-Jul-20	-134	-23												
14238b	POD - Architectural Lightings Installation (C41/42/43/82/83/86)	12	10-Feb-20	22-Feb-20	14-Jul-20	27-Jul-20	-129	-23												
14238c	POD - Architectural Lightings Installation (C50/65/88)	12	17-Feb-20	29-Feb-20	15-Jul-20	28-Jul-20	-124	-23												
11559	POD_L2_Manual Levelling MS - Post/DP/OP1 works_Sector B	0			20-Apr-20*		7													
11569	POD_ST_MS - Commence HANDOVER for Staircases 1st batch	0			06-May-20*		158													
11560	POD_L2_Manual Levelling MS - Post/DP/OP1 works_Sector D	0			11-May-20*		30													
11565	POD_LG_MS - Commence HANDOVER for LG Plant Rooms	0			15-May-20*		149													
11570	POD_ST_MS - Commence HANDOVER for Staircases 2nd batch	0			20-May-20*		144													
11558	POD_L2_Manual Levelling MS - Post/DP/OP1 works_Sector A	0			25-May-20*		16													
11561	POD_L2_Manual Levelling MS - Post/DP/OP1 works_Centre Core	0			01-Jun-20*		-42													
11571	POD_ST_MS - Commence HANDOVER for Staircases 3rd batch	0			04-Jun-20*		129													
11557	POD_L2_Manual Levelling MS - Post/DP/OP1 works_Sector C	0			08-Jun-20*		-34													
11572	POD_ST_MS - Commence HANDOVER for Staircases 4th batch	0			18-Jun-20*		115													
9970	POD_M+_CSF - Post OP Msellaneous Works (not specifically mentioned in CMWP)	92			11-Jul-20	10-Oct-20	-102													
*Auditorium > GF (SZ7)																				
ABWF Works & MEP Works																				
9328	POD_AUD - All Other Finishes/Remedial/Cleaning Works	30	17-Jan-20	28-Feb-20	13-Jun-20	20-Jul-20	-118	-16												
Inclined structure High Level Works																				
10054	POD_AUD - MEP works Final Fix in TWG panels	0			24-Feb-20 A	12-Mar-20 A														
1159	POD_AUD - Remove Susp. Work Platform for HL Ceiling Wrks above Inclined Struct	0	15-Nov-19	28-Nov-19	13-Mar-20 A	25-Mar-20 A	-91													
9062	POD_AUD - Install LED Screen Panels	12	03-Oct-19	17-Oct-19	11-Jul-20	24-Jul-20	-228	-20												
Inclined structure Low Level Works																				
6859	POD_AUD - Clean Concrete & Glazing Walls	0	10-Jan-20	16-Jan-20	23-Dec-19 A	14-Mar-20 A	-42													
6857	POD_AUD - Install Metal Balustrade (* 2 shifts)	8	21-Dec-19	02-Jan-20	06-Apr-20*	14-Apr-20	-80	-42												
6858	POD_AUD - Erect Metal Scaffold along the wall for curtain install	6	03-Jan-20	09-Jan-20	15-Apr-20	21-Apr-20	-80	31												
6856	POD_AUD - Install Plywood Base & Timber Flooing (* 2 shifts) and door iron	32	28-Nov-19	21-Dec-19	01-Jun-20	10-Jul-20	-160	-8												
6860	POD_AUD - Install Curtains	9	17-Jan-20	07-Feb-20	17-Jun-20	27-Jun-20	-118	-16												
6861	POD_AUD - Dismantle Scaffold (after curtains, conc./glazing remedial wrks)	6	24-Jan-20	14-Feb-20	29-Jun-20	06-Jul-20	-118	-16												
11542	POD_AUD_HO1 - Auditorium Works HANDOVER	0				24-Jul-20	65													
Cinemas (B1-GF)																				
ABWF Works & MEP Works																				
4037	POD_Cinema - All Other Finishes/Remedial/Cleaning Works	36	26-Nov-19	08-Jan-20	13-May-20	23-Jun-20	-134	5												
180 Seats Cinema - POD_LG_Z18a																				
4016	POD_LG_Z18a_C180 - Low level MEP final fix (temp lighting for FS inspection, perm	5	22-Nov-19	03-Dec-19	19-Oct-19 A	07-Apr-20	-98	-61												
4023	POD_LG_Z18a_C180 - Install Cinema Screen & MEP	6	12-Nov-19	25-Nov-19	19-Oct-19 A	08-Apr-20	-106	-62												
4011	POD_LG_Z18a_C180 - Ceiling MEP final fix (*2 shifts) (temp lighting for FS inspectic	5	04-Sep-19	11-Sep-19	20-Jan-20 A	07-Apr-20	-166	-61												
4019	POD_LG_Z18a_C180 - Door & Ironmong	3	19-Nov-19	21-Nov-19	24-Feb-20 A	03-Apr-20	-106	44												
4017	POD_LG_Z18a_C180 - Walls finishes (acoustic panels)	21	15-Oct-19	11-Nov-19	01-Apr-20	25-Apr-20	-133	21												
4014	POD_LG_Z18a_C180 - Steps Plywood (*2shifts)	6	27-Sep-19	05-Oct-19	08-Apr-20	14-Apr-20	-153	31												
4010a	POD_LG_Z18a_C180 - Close Ceilings (acoustic panels over with permanent lighting	12			17-Apr-20*	30-Apr-20	50													
4015	POD_LG_Z18a_C180 - Install Carpets (*2 shifts)	7	21-Nov-19	29-Nov-19	25-Apr-20	05-May-20	-124	22												
4036	POD_LG_Z18a_C180 - Install Curtain	3	26-Nov-19	28-Nov-19	13-Jun-20	16-Jun-20	-161	5												
4020	POD_LG_Z18a_C180 - Install Seating	12	30-Nov-19	13-Dec-19	11-Jul-20	24-Jul-20	-179	-34												
10121	POD_LG_Z18a_HO1 - 180 Seats Cinema HANDOVER	0		11-Jul-20		24-Jul-20*	-12	65												
60 Seats Cinema - POD_LG_Z18b																				
1115	POD_LG_Z18b_C60 - Install Cinema Screen & MEP	5	17-Oct-19	23-Oct-19	17-Oct-19 A	07-Apr-20	-133	-61												
1119	POD_LG_Z18b_C60 - Low level MEP final fix (temp lighting for FS inspection, perm:	4	30-Oct-19	07-Nov-19	18-Oct-19 A	06-Apr-20	-119	-60												
1109	POD_LG_Z18b_C60 - Ceiling MEP final fix	4	29-Aug-19	04-Sep-19	20-Jan-20 A	06-Apr-20	-171	-60												
1116	POD_LG_Z18b_C60 - Door & Ironmong	3	24-Oct-19	26-Oct-19	24-Feb-20 A	03-Apr-20	-128	56												
1108a	POD_LG_Z18b_C60 - Close Ceilings (acoustic panels incl permanent lighting)	8			23-Mar-20 A	10-Apr-20	67													
1112	POD_LG_Z18b_C60 - Steps Plywood	6	20-Sep-19	26-Sep-19	07-Apr-20	13-Apr-20	-159	35												
1113	POD_LG_Z18b_C60 - Walls finishes (acoustic panels)	12	02-Oct-19	16-Oct-19	14-Apr-20	27-Apr-20	-156	35												
1118	POD_LG_Z18b_C60 - Install Carpets	4	28-Oct-19	31-Oct-19	28-Apr-20	02-May-20	-147	35												
1117	POD_LG_Z18b_C60 - Install Curtain	2	24-Oct-19	25-Oct-19	13-Jun-20	15-Jun-20	-189	6												
1121	POD_LG_Z18b_C60 - Install Seating	7	01-Nov-19	08-Nov-19	25-Jul-20	01-Aug-20	-216	-34												
10122	POD_LG_Z18b_HO1 - 60 Seats Cinema HANDOVER	0		11-Jul-20		01-Aug-20*	-19	58												

ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	Finish Var	TF	2020															
									Mar	Apr	May	Jun	Jul	Aug	Sep	Oct								
Fire Rated Corridors & Lobbies (Major Routings) @ G.L. A-H/ 1-10+ - POD_B2_Z01a																								
4006	POD_B2_Z01a_Corr - MEP final fix	3	10-Aug-19	30-Aug-19	20-May-19 A	07-Apr-20	-176	-61																
4002	POD_B2_Z01a_Corr - Close ceiling (panels) incl. Cut-Outs	2	26-Jun-19	19-Jul-19	05-Jun-19 A	02-Apr-20	-209	-61																
4005	POD_B2_Z01a_Corr - Doors/4nos. SR3 Doors & Ironmong	3	11-Sep-19	18-Sep-19	16-Sep-19 A	03-Apr-20	-159	-59																
4007	POD_B2_Z01a_Corr - Floor sealer	9	31-Aug-19	10-Sep-19	08-Apr-20*	17-Apr-20	-176	55																
10194	POD_B2_Z01a_HO1 - Fire Rated Corridors & Lobbies @ G.L. A-H/ 1-10+ HANDOV	0		23-May-20		23-May-20*	0	117																
Fire Rated Corridors & Lobbies (Major Routings) @ North of G.L. 6' - POD_B2_Z01b																								
7521	POD_B2_Z01b_Corr - MEP final fix	2	19-Jul-19	29-Jul-19	21-May-19 A	06-Apr-20	-203	-60																
7524	POD_B2_Z01b_Corr - Doors/2nos SR3 Doors & Ironmong	2	31-Aug-19	06-Sep-19	16-Sep-19 A	02-Apr-20	-167	-58																
7519	POD_B2_Z01b_Corr - Close ceiling (panels) incl. Cut-Outs	2	24-May-19	04-Jun-19	14-Oct-19 A	02-Apr-20	-246	-60																
7520	POD_B2_Z01b_Corr - Wall sealer	0	11-Jun-19	19-Jun-19	09-Mar-20 A	13-Mar-20 A	-216																	
7523	POD_B2_Z01b_Corr - Floor sealer	4	30-Jul-19	02-Aug-19	07-Apr-20	10-Apr-20	-203	61																
10198	POD_B2_Z01b_HO1 - Fire Rated Corridors & Lobbies @ North of G.L. 6+ HANDOV	0		23-May-20		23-May-20*	0	117																
BoH - CSF Plant Rooms - POD_B2_Z02																								
4031	POD_B2_Z02b_CSF FS/ Water Pump Rms - All Other Finishes / Make Good & Clea	6	07-Aug-19	20-Aug-19	06-Jan-20 A	10-Apr-20	-188	67																
BoH - CSF Plant Rooms - Other Plantrooms - POD_B2_Z02b																								
4026	POD_B2_Z02b_CSF FS/ Water Pump Rms - MEP final fix	2	19-Jul-19	01-Aug-19	10-Jun-19 A	02-Apr-20	-198	-58																
10199	POD_B2_Z02b_HO1 - CSF FS/ Water Pump Rms HANDOVER	0				10-Apr-20*		152																
BoH - RDE Plant Rooms - POD_B2_Z03																								
6663	POD_B2_Z03 Plant Rms - All Other Finishes / Make Good & Clean	9	17-Aug-19	30-Aug-19	14-Jan-20 A	18-Apr-20	-186	60																
BoH - RDE Plant Rooms - Spr Wtr & FS Tanks @ G.L. H-J/ 1-3 - POD_B2_Z03a																								
10202	POD_B2_Z03a_HO1 - RDE Plant Rooms - Spr Wtr & FS Tanks @ G.L. H-J/ 1-3 H/H	0				18-Apr-20*		145																
BoH - RDE Plant Rooms - Other Plantrooms @ G.L. L-M/ 3'-1 - POD_B2_Z03b																								
6656	POD_B2_Z03b_Other Plant Rms - MEP 2nd fix (incl. EQP)	2	24-Apr-19	22-May-19	04-Mar-19 A	02-Apr-20	-257	-68																
6692	POD_B2_Z03b_Other Plant Rms - MEP final fix	3	19-Jul-19	01-Aug-19	08-Jul-19 A	03-Apr-20	-199	-59																
6662	POD_B2_Z03b_Other Plant Rms - Floor sealer	4	02-Aug-19	09-Aug-19	17-Feb-20 A	06-Apr-20	-193	68																
6666	POD_B2_Z03b_Other Plant Rms - Rubber Flr @ ELE Rm & RDE Security Eqp Rm	6	02-Aug-19	08-Aug-19	06-Apr-20	11-Apr-20	-199	60																
10206	POD_B2_Z03b_HO1 - RDE Other Plantrooms @ G.L. L-M 3'-1 HANDOVER	0				18-Apr-20*		145																
BoH - M+ and Podium Plant Rooms - POD_B2_Z04																								
6701	POD_B2_Z04_BOH Rms - All Other Finishes / Make Good & Clean	18	21-Oct-19	09-Nov-19	15-Apr-20	06-May-20	-142	46																
BoH - M+ and Podium Plant Rooms - DCS & MCC @ G.L. G-M/ 11-13 - POD_B2_Z04a																								
6719	POD_B2_Z04a_DCS & MCC - Floor Self Leveling screed	14	27-Apr-19	14-May-19	01-Apr-20*	17-Apr-20	-276	46																
6720	POD_B2_Z04a_DCS & MCC - Floor sealer	9	15-May-19	24-May-19	18-Apr-20	28-Apr-20	-276	46																
10209	POD_B2_Z04a_HO1 - DCS & MCC @ G.L. G-M/ 11-13 HANDOVER	0				06-May-20*		131																
BoH - M+ and Podium Plant Rooms - AHU Rm @ G.L. J-K/ 3-4+ - POD_B2_Z04b																								
8761	POD_B2_Z04b - AHU - MEP 1st fix	2	26-Feb-19	09-Apr-19	05-Aug-19 A	02-Apr-20	-293	-68																
6704	POD_B2_Z04b - AHU - MEP 2nd fix (incl. EQP)	3	11-May-19	31-May-19	19-Aug-19 A	03-Apr-20	-250	-68																
6708	POD_B2_Z04b - AHU - MEP final fix	4	19-Jul-19	29-Jul-19	16-Oct-19 A	06-Apr-20	-203	-68																
6710	POD_B2_Z04b - AHU - Floor sealer	2	30-Jul-19	31-Jul-19	07-Apr-20	08-Apr-20	-203	63																
10210	POD_B2_Z04b_HO1 - AHU Rm @ G.L. J-K/ 3-4+ HANDOVER	0				06-May-20*		131																
BoH - M+ and Podium Plant Rooms - Other Plantrooms @ G.L. A-H/ 1-11 - POD_B2_Z04d																								
9022	POD_B2_Z04d_Other P. Rms - MEP 1st fix (incl. EQP) - rem works	2	26-Feb-19	30-Apr-19	25-Feb-19 A	02-Apr-20	-275	-68																
6684	POD_B2_Z04d_Other P. Rms - MEP 2nd fix (incl. EQP) - rem works	3	02-May-19	29-May-19	08-Apr-19 A	03-Apr-20	-252	-68																
6688	POD_B2_Z04d_Other P. Rms - MEP final fix	4	19-Jul-19	08-Aug-19	15-Jul-19 A	06-Apr-20	-194	-60																
6687	POD_B2_Z04d_Other P. Rms - Door & Ironmong	3	19-Aug-19	28-Aug-19	16-Sep-19 A	03-Apr-20	-176	58																
6690	POD_B2_Z04d_Other P. Rms - Floor sealer	8	09-Aug-19	17-Aug-19	07-Apr-20	15-Apr-20	-194	57																
10212	POD_B2_Z04d_HO1 - Other Plantrooms @ G.L. A-H/ 1-11 HANDOVER	0				06-May-20*		131																
BoH - M+ and Podium Plant Rooms - Other Plantrooms @ G.L. B-L/ 1'-1 - POD_B2_Z04e																								
6767	POD_B2_Z04e_Other P. Rms - Install CWS/CWR Piping MEP 2nd fix	2	02-May-19	12-Jul-19	19-Feb-19 A	02-Apr-20	-215	-68																
8763	POD_B2_Z04e_Other P. Rms - MEP 1st fix (rem works)	2	27-May-19	09-Jul-19	18-Mar-19 A	02-Apr-20	-218	-68																
6694	POD_B2_Z04e_Other P. Rms - MEP 2nd fix (incl. EQP)	3	13-Jul-19	06-Sep-19	08-Apr-19 A	03-Apr-20	-168	-68																
6698	POD_B2_Z04e_Other P. Rms - MEP final fix	4	07-Sep-19	21-Sep-19	19-Aug-19 A	06-Apr-20	-157	-60																
6700	POD_B2_Z04e_Other P. Rms - Floor sealer	12	27-Sep-19	12-Oct-19	07-Apr-20	20-Apr-20	-153	53																
10214	POD_B2_Z04e_HO1 - Other Plantrooms @ G.L. B-L/ 1'-1 HANDOVER	0				06-May-20*		131																
FoH/BoH Toilets - POD_B2_Z05 & B2_Z06																								
7559	POD_B2_Z05/06_Toilets - All Other Finishes / Make Good & Clean	12	25-Nov-19	07-Dec-19	25-Jul-20	07-Aug-20	-196	-32																
Toilet Block																								
6739	POD_B2_Z05_FoH Toilet - MEP 1st fix Ceiling	2	06-May-19	29-May-19	23-Apr-19 A	02-Apr-20	-251	-67																
6729	POD_B2_Z05_FoH Toilet - MEP 2nd fix	3	12-Jun-19	25-Jun-19	07-Oct-19 A	07-Apr-20	-232	-67																
6731	POD_B2_Z05_FoH Toilet - MEP final fix	5	08-Jul-19	13-Jul-19	14-Oct-19 A	14-Apr-20	-223	-67																
6763	POD_B2_Z05_FoH Toilet - Conc flr curing, polishing & install protection	3	15-Jul-19	24-Aug-19	16-Dec-19 A	17-Apr-20	-190	53																
6726	POD_B2_Z05_FoH Toilet - Ceiling Pods & Grids	2	06-Jun-19	11-Jun-19	25-Dec-19 A	06-Apr-20	-243	-67																
6734	POD_B2_Z05_FoH Toilet - Wall tile finishes	2	26-Aug-19	04-Sep-19	24-Feb-20 A	02-Apr-20	-169	-33																
6727	POD_B2_Z05_FoH Toilet - Close ceiling (board) incl. Cut-Outs	4	26-Jun-19	03-Jul-19	16-Mar-20 A	09-Apr-20	-228	-67																
6730	POD_B2_Z05_FoH Toilet - Door Frame	0	30-May-19	31-May-19	17-Mar-20 A	21-Mar-20 A	-238																	
6735	POD_B2_Z05_FoH Toilet - Cubicle partitions & sanitary ware & fittings	6	05-Sep-19	11-Sep-19	23-Mar-20 A	18-Apr-20	-176	-46																
6738	POD_B2_Z05_FoH Toilet - Ceiling finishes final coat	3	04-Jul-19	06-Jul-19	09-Apr-20	11-Apr-20	-227	-67																
6724	POD_B2_Z05_FoH Toilet - Door / Ironmong	2	12-Sep-19	13-Sep-19	20-Apr-20	21-Apr-20	-176	52																
10217	POD_B2_Z05_HO1 - Toilet Block HANDOVER	0		27-Jun-20		07-Aug-20*		53																
Toilet Lobby/ Vestibule																								
7552	POD_B2_Z05_FoH Toilet Lob - MEP 1st fix	2	15-Apr-19	27-Apr-19	13-May-19 A	02-Apr-20	-277	-65																
7554	POD_B2_Z05_FoH Toilet Lob - MEP 2nd fix	4	02-May-19	08-May-19	07-Oct-19 A	08-Apr-20	-273	-65																
7557	POD_B2_Z05_FoH Toilet Lob - MEP final fix	6	22-Jul-19	27-Jul-19	14-Oct-19 A	11-Apr-20	-209	-65																
7556a	POD_B2_Z05_FoH Toilet Lob - Wall finishes (Plywood backing)	4			16-Jan-20 A	08-Apr-20	-64																	
7551	POD_B2_Z05_FoH Toilet Lob - Ceiling rods	2	11-Apr-19	13-Apr-19	01-Apr-20	02-Apr-20	-289	-65																
7553	POD_B2_Z05_FoH Toilet Lob - Ceiling grids	2	29-Apr-19	30-Apr-19	03-Apr-20	06-Apr-20	-277	-65																
7555a	POD_B2_Z05_FoH Toilet Lob - Ceiling finishes (Plywood backing for Timber fin)	3			08-Apr-20	10-Apr-20	-65																	
7558a	POD_B2_Z05_FoH Toilet Lob - Floor finishes (resilient layer, plywood base)	3			09-Apr-20	11-Apr-20	54																	

ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	Finish Var	TF	2020														
									Mar	Apr	Qtr 2			Jun	Jul	Qtr 3		Sep	Qtr 4				
											May			Aug	Oct								
BoH Rooms Associated with MIC Lobby & Museum Shop No.2 - POD_B1_Z09a																							
3935	POD_B1_Z09a_BoH - B'wall, Drywall, tie bolt hole, plaster, screed, C_Sealer @Stor	0	20-Jul-19	16-Aug-19	09-Sep-19 A	05-Mar-20 A	-160																
7460	POD_B1_Z09a_BoH - MEP 1st fix	2	21-Aug-19	03-Oct-19	16-Sep-19 A	02-Apr-20	-146	-68															
7065	POD_B1_Z09a_BoH - MEP 2nd fix	4	09-Oct-19	29-Oct-19	19-Sep-19 A	06-Apr-20	-127	-68															
7069	POD_B1_Z09a_BoH - Doors & Ironmong	6	02-Dec-19	09-Dec-19	23-Sep-19 A	08-Apr-20	-95	27															
7070	POD_B1_Z09a_BoH - MEP final fix	6	16-Nov-19	26-Nov-19	14-Jan-20 A	09-Apr-20	-106	-63															
7064	POD_B1_Z09a_BoH - Ceiling rods @ AV Workm Studio, MIC Offices & Dressing Rm	0	17-Aug-19	20-Aug-19	09-Mar-20 A	12-Mar-20 A	-163																
7066	POD_B1_Z09a_BoH - Close ceiling (panels) w/ Cut-Outs @AV Workm Studio, MIC	0	30-Oct-19	08-Nov-19	13-Mar-20 A	24-Mar-20 A	-107																
7072	POD_B1_Z09a_BoH - Final paint	6	16-Nov-19	22-Nov-19	01-Apr-20*	08-Apr-20	-108	23															
7461	POD_B1_Z09a_BoH - Ceiling grids @ AV Workm Studio, MIC Offices & Dressing Rm	3	04-Oct-19	08-Oct-19	01-Apr-20	03-Apr-20	-144	-68															
7071	POD_B1_Z09a_BoH - Floor sealer @ AV Storage 2 & Museum Shop Storage	2	27-Nov-19	28-Nov-19	10-Apr-20	11-Apr-20	-106	24															
7074	POD_B1_Z09a_BoH - Floor tiling & Install Protection @ Dressing Rms	4	27-Nov-19	02-Dec-19	10-Apr-20	15-Apr-20	-106	-42															
7075	POD_B1_Z09a_BoH - Floor carpet @ AV Workroom Studio	4	27-Nov-19	02-Dec-19	10-Apr-20	15-Apr-20	-106	22															
7066a	POD_B1_Z09a_BoH - Ceiling finishes (Timber @ B1-1-336 corr only)	3			17-Jun-20*	19-Jun-20	-40																
7073	POD_B1_Z09a_BoH - All Other Finishes / Make Good & Clean	12	02-Dec-19	16-Dec-19	20-Jun-20	06-Jul-20	-162	-40															
7072a	POD_B1_Z09a_BoH - Wall finishes (Timber @ B1-1-336 corr only)	3			20-Jun-20	23-Jun-20	-40																
7075a	POD_B1_Z09a_BoH - Floor finishes (Timber @ B1-1-336 corr only)	3			24-Jun-20	27-Jun-20	-40																
10278	POD_B1_Z09a_HO1 -BoH Rm Associated w/ MIC Lobby & Museum Shop 2 HAND	0		06-Jun-20		06-Jul-20*	-24	81															
FoH Lobby - POD_B1_Z10 (SZ3 & SZ4)																							
6916	POD_B1_Z10_FoH Lob - MEP 1st fix (*2 shifts)	2	21-Aug-19	19-Oct-19	21-Aug-19 A	02-Apr-20	-133	-68															
8792	POD_B1_Z10_FoH Lob - MEP 2nd fix (*2 shifts)	3	19-Oct-19	16-Nov-19	26-Aug-19 A	03-Apr-20	-110	-68															
6915	POD_B1_Z10_FoH Lob - Ceiling & wall sealer (*2 shifts)	2	09-Aug-19	20-Aug-19	09-Sep-19 A	02-Apr-20	-183	67															
6919	POD_B1_Z10_FoH Lob - MEP final fix (*2 shifts)	4	16-Nov-19	04-Dec-19	08-Jan-20 A	08-Apr-20	-98	-61															
6920a	POD_B1_Z10_FoH Lob - Install security shutters	3			16-Mar-20 A	08-Apr-20	-61																
6917	POD_B1_Z10_FoH Lob - Conc, curing, polishing & install protection - Part 1	6	05-Dec-19	17-Jan-20	11-Nov-19 A	11-Apr-20	-64	58															
9643	POD_B1_Z10_FoH Lob - Conc, curing, polishing & install protection - Part 2	6	18-Jan-20	07-Mar-20	18-Nov-19 A	14-Apr-20	-31	58															
6921	POD_B1_Z10_FoH Lob - All Other Finishes (DOOR) / Make Good & Clean	18	09-Mar-20	28-Mar-20	08-Apr-20	28-Apr-20	-25	52															
10280	POD_B1_Z10_HO1 -FoH Lobby HANDOVER	0		04-Jul-20		04-Jul-20*	0	83															
Fire Rated Corridors (Major Routings) - POD_B1_Z11																							
8849	POD_B1_Z11_Corr - All Other Finishes / Make Good & Clean	18	03-Dec-19	24-Dec-19	15-Apr-20	06-May-20	-105	46															
Fire Rated Corridors & Lobbies (Major Routings) - POD_B1_Z11b																							
7527	POD_B1_Z11b_Corr - MEP 1st fix (rem)	2	01-Apr-19	14-May-19	19-Jun-19 A	02-Apr-20	-264	-68															
7529	POD_B1_Z11b_Corr - MEP 2nd fix	4	04-Jun-19	25-Jun-19	24-Jun-19 A	06-Apr-20	-231	-68															
3947	POD_B1_Z11b_Corr - FS Access Panel	6	04-Mar-19	23-Mar-19	12-Aug-19 A	08-Apr-20	-310	-62															
7536	POD_B1_Z11b_Corr - Doors & Ironmong	2	01-Aug-19	07-Aug-19	23-Sep-19 A	02-Apr-20	-193	55															
7526	POD_B1_Z11b_Corr - Ceiling rods	2	25-Mar-19	30-Mar-19	13-Jan-20 A	02-Apr-20	-300	-68															
7528	POD_B1_Z11b_Corr - Ceiling grids	3	15-May-19	17-May-19	20-Jan-20 A	03-Apr-20	-262	-68															
7531	POD_B1_Z11b_Corr - Close ceiling (panels) incl. Cut-Outs	3	26-Jun-19	05-Jul-19	10-Feb-20 A	07-Apr-20	-224	-63															
7533	POD_B1_Z11b_Corr - MEP final fix	6	19-Jul-19	29-Jul-19	16-Mar-20 A	09-Apr-20	-206	-63															
7534	POD_B1_Z11b_Corr - Final paint	6	13-Jul-19	19-Jul-19	08-Apr-20	14-Apr-20	-218	46															
7535	POD_B1_Z11b_Corr - Floor sealer	2	30-Jul-19	31-Jul-19	10-Apr-20	11-Apr-20	-206	48															
10285	POD_B1_Z11b_HO1 - Fire Rated Corridors & Lobbies (Major Routings) HANDOVER	0				21-May-20*	0	118															
Fire Rated Corridors (Major Routings) - POD_B1_Z11a																							
8844	POD_B1_Z11a_Corr - Close ceiling (panels) incl. Cut-Outs	3	12-Aug-19	05-Sep-19	16-Sep-19 A	03-Apr-20	-169	-61															
8846	POD_B1_Z11a_Corr - Doors & Ironmong	2	12-Aug-19	17-Aug-19	21-Oct-19 A	02-Apr-20	-184	67															
8850	POD_B1_Z11a_Corr - MEP final fix	5	06-Sep-19	27-Sep-19	08-Jan-20 A	07-Apr-20	-153	-61															
8845	POD_B1_Z11a_Corr - Wall paint 1st coat	8	06-Sep-19	16-Sep-19	06-Apr-20	14-Apr-20	-169	54															
8848	POD_B1_Z11a_Corr - Final paint	4	17-Sep-19	20-Sep-19	15-Apr-20	18-Apr-20	-169	54															
10287	POD_B1_Z11a_HO1 - Fire Rated Corridors & Lobbies (Major Routings) HANDOVER	0		06-Jun-20		06-Jun-20*	0	105															
Fire Rated Corridors (Major Routings) - BOH Corr Adj. to Cinemas & Museum Shop 2 - POD_B1_Z11c																							
7541	POD_B1_Z11c_Corr - MEP 2nd fix	3	26-Jul-19	23-Aug-19	15-Jul-19 A	03-Apr-20	-181	-68															
7548	POD_B1_Z11c_Corr - Doors & Ironmong	4	26-Nov-19	03-Dec-19	18-Nov-19 A	08-Apr-20	-100	63															
7540	POD_B1_Z11c_Corr - Ceiling grids	0	18-Jul-19	26-Jul-19	10-Feb-20 A	06-Mar-20 A	-180																
7543	POD_B1_Z11c_Corr - Ceiling panels incl. cut-outs	2	23-Aug-19	21-Sep-19	09-Mar-20 A	07-Apr-20	-159	-63															
7545	POD_B1_Z11c_Corr - MEP final fix	4	21-Sep-19	15-Oct-19	16-Mar-20 A	09-Apr-20	-143	-63															
7544	POD_B1_Z11c_Corr - Wall paint 1st coat	8	26-Nov-19	05-Dec-19	08-Apr-20	16-Apr-20	-105	47															
7547	POD_B1_Z11c_Corr - Final paint	9	05-Dec-19	16-Dec-19	17-Apr-20	17-Apr-20	-105	47															
10288	POD_B1_Z11c_HO1 - BOH Corr Adj. to Cinemas & Museum Shop 2 HANDOVER	0		06-Jun-20		06-Jun-20*	0	105															
Fire Rated Corridors & Lobbies (Major Routings) - POD_B1_Z12																							
7815	POD_B1_Z12_Corr - MEP 2nd fix	2	22-Jul-19	31-Aug-19	10-Jun-19 A	02-Apr-20	-172	-68															
7819	POD_B1_Z12_Corr - Doors & Ironmong	3	22-Nov-19	28-Nov-19	17-Sep-19 A	03-Apr-20	-100	66															
7821	POD_B1_Z12_Corr - Final paint	6	22-Oct-19	28-Oct-19	17-Feb-20 A	08-Apr-20	-130	63															
7823	POD_B1_Z12_Corr - MEP final fix	6	22-Oct-19	11-Nov-19	12-Mar-20 A	08-Apr-20	-118	-62															
7820	POD_B1_Z12_Corr - Floor sealer	9	12-Nov-19	21-Nov-19	09-Apr-20	18-Apr-20	-118	54															
7822	POD_B1_Z12_Corr - All Other Finishes / Make Good & Clean	12	22-Nov-19	05-Dec-19	13-Apr-20	25-Apr-20	-112	54															
10293	POD_B1_Z12_HO1 - Fire Rated Corridors & Lobbies (Major Routings) HANDOVER	0		09-May-20		21-May-20*	-11	118															
BoH Plant Rooms, Lobby, Non-FR Corridor - North of GL_6' - POD_B1_Z14 & B1_Z16																							
10059	POD_B1_Z14 & B1_Z16_BoH - Gen/Fuel/Oil Pump, Tanks, Mtr Rms, Door/ Iron	6			14-Oct-19 A	08-Apr-20	57																
7120	POD_B1_Z14 & B1_Z16_BoH - Gen/Fuel/Oil Pump, Tanks, Mtr Rms, DG final finishes	12	26-Jul-19	15-Aug-19	16-Oct-19 A	15-Apr-20	-196	57															
7124	POD_B1_Z14 & B1_Z16_BoH - ICT, ELV & RDE ELE Rm & Lobby MEP 2nd (incl. E	3	25-Jun-19	25-Jul-19	24-Jun-19 A	03-Apr-20	-205	-68															
7122	POD_B1_Z14 & B1_Z16_BoH - ICT, ELV & RDE ELE Rm & Lobby final finishes (incl	6	26-Jul-19	15-Aug-19	17-Oct-19 A	08-Apr-20	-190	-62															
7127	POD_B1_Z14 & B1_Z16_BoH - Carriageway SEF/LGHT Centre Rm final finishes	9	03-Oct-19	24-Oct-19	16-Sep-19 A	11-Apr-20	-136	-40															
7128	POD_B1_Z14 & B1_Z16_BoH - Cway SEF/LGHT Centre Rm MEP 1st fix (*2 shifts)	2	16-Jul-19	27-Aug-19	17-Jun-19 A	02-Apr-20	-177	-68															
7129	POD_B1_Z14 & B1_Z16_BoH - Cway SEF/LGHT Centre Rm MEP 2nd (incl. EQP) &	3	27-Aug-19	03-Oct-19	24-Jun-19 A	03-Apr-20	-148	-68															
9654	POD_B1_Z14 & B1_Z16_BoH - Other Plant Rms & Corr Builder's Wrks. (Screed, C&I	2	02-May-19	15-May-19	15-Apr-19 A	02-Apr-20	-263	-68															
9656	POD_B1_Z14 & B1_Z16_BoH - Other Plant Rms & Corr MEP 1st fix	3	16-May-19	27-Jun-19	03-Jun-19 A	03-Apr-20	-228	-68															

ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	Finish Var	TF	2020														
									Mar	Apr	Qtr 2			Jul	Qtr 3		Sep	Qtr 4					
											May	Jun	Aug		Oct								
9685	POD_L2_Z02b_FoH - Install Roller Blinds	12	09-Jan-20	22-Jan-20	07-May-20	21-May-20	-94	21															
8521a	POD_L2_Z02b_FoH - Flr finishes (resilient layer, plywood base)	18			18-May-20	06-Jun-20		1															
8531	POD_L2_Z02b_FoH - Ceiling finishes (insulation, acoustic plaster/Timber @ Circ-pas)	24	18-Nov-19	08-Jan-20	16-Mar-20 A	22-Jun-20	-133	-12															
8522	POD_L2_Z02b_FoH - Wall finishes (Timber @ Circ-passage only)	30	25-Nov-19	17-Jan-20	19-Mar-20 A	30-Jun-20	-131	-12															
8521	POD_L2_Z02b_FoH - Flr finishes (Timber) + flr grilles	24	09-Jan-20	02-Mar-20	09-Jun-20	08-Jul-20	-106	-12															
10313	POD_L2_Z02b_FoH_HO1 - Gallery 1-6, Tall Gallery 1&2,etc HANDOVER	0		23-May-20		15-Jul-20	-44	73															
Focus Gallery & Gallery Circ. - POD_L2_Z02c																							
8544	POD_L2_Z02c_FoH - MEP final fix	4	19-Jul-19	29-Jul-19	21-Oct-19 A	08-Apr-20	-205	-62															
9749	POD_L2_Z02c_FoH - Dry Wall MEP Services/Conduits MEP 1st fix	2	10-Jul-19	16-Jul-19	26-Nov-19 A	02-Apr-20	-212	-68															
8550	POD_L2_Z02c_FoH - Conc flr curing, polishing & install protection, door/ iron	2	30-Jul-19	09-Sep-19	06-Jan-20 A	10-Apr-20	-171	-45															
8549	POD_L2_Z02c_FoH - Ceiling rods @ Gallery Circ.	0	19-Mar-19	22-Mar-19	24-Feb-20 A	04-Mar-20 A	-282																
8541	POD_L2_Z02c_FoH - Ceiling Grids @ Gallery Circ.	2	06-May-19	08-May-19	01-Apr-20	02-Apr-20	-270	-61															
8543	POD_L2_Z02c_FoH - Ceiling Metal Cladding @ Gallery Circ	5	24-Jun-19	29-Jun-19	01-Apr-20	07-Apr-20	-228	-62															
8545	POD_L2_Z02c_FoH - Walls Sub-Frame & Metal Cladding @ Gallery Circ.	12	10-Sep-19	24-Sep-19	03-Apr-20	17-Apr-20	-165	-45															
10311	POD_L2_Z02c_FoH_HO1 - Focus Gallery & Gallery Circ. HANDOVER	0		23-May-20		15-Jul-20	-44	73															
Gallery BoH Perimeter - POD_L2_Z02d																							
8492	POD_L2_Z02d_BoH - MEP 2nd fix	0	08-Aug-19	28-Aug-19	15-Apr-19 A	04-Mar-20 A	-149																
8488	POD_L2_Z02d_BoH - PISA louvres & duct interface work MEP 1st fix	0	11-Jun-19	24-Jun-19	13-May-19 A	05-Mar-20 A	-205																
8496	POD_L2_Z02d_BoH - MEP final fix	0	15-Oct-19	24-Oct-19	17-Dec-19 A	07-Mar-20 A	-106																
9640	POD_L2_Z02d_BoH - Underfloor MEP 2nd Fix	0	27-Sep-19	04-Oct-19	02-Jan-20 A	04-Mar-20 A	-119																
10310	POD_L2_Z02d_BoH_HO1 - Gallery BoH Perimeter HANDOVER	0		23-May-20		15-Jul-20	-44	73															
Gallery BoH Internal - POD_L2_Z02e																							
8506	POD_L2_Z02e_BoH - MEP 2nd fix	0	28-Jun-19	19-Jul-19	05-Jun-19 A	04-Mar-20 A	-183																
8503	POD_L2_Z02e_BoH - Door / Ironmong	2	04-Sep-19	18-Sep-19	18-Nov-19 A	02-Apr-20	-158	67															
8510	POD_L2_Z02e_BoH - MEP final fix	3	24-Aug-19	03-Sep-19	23-Dec-19 A	03-Apr-20	-171	-59															
10309	POD_L2_Z02e_BoH_HO1 - Gallery BoH Internal HANDOVER	0		23-May-20		15-Jul-20	-44	73															
BoH Rooms, Corridors & Lobbies, Non Raised Floor Areas - POD_L2_Z02f																							
8563	POD_L2_Z02f_BoH - MEP 2nd fix	0	01-Jun-19	22-Jun-19	10-Jun-19 A	05-Mar-20 A	-206																
8570	POD_L2_Z02f_BoH - MEP final fix	3	19-Jul-19	29-Jul-19	20-Dec-19 A	06-Apr-20	-203	-65															
8568	POD_L2_Z02f_BoH - Wall final paint	3	05-Jul-19	15-Jul-19	10-Feb-20 A	03-Apr-20	-214	-65															
8566	POD_L2_Z02f_BoH - Doors/ 11nos. SR3 Doors & Ironmong	3	02-Aug-19	15-Aug-19	17-Feb-20 A	11-Apr-20	-193	-65															
8567	POD_L2_Z02f_BoH - Floor sealer	3	30-Jul-19	01-Aug-19	07-Apr-20	09-Apr-20	-203	-65															
10306	POD_L2_Z02f_BoH_HO1 - BoH Rooms, Corridors & Lobbies HANDOVER	0		23-May-20		15-Jul-20	-44	73															
FoH Toilets - Public - POD_L2_Z02g																							
Toilet Block																							
8440	POD_L2_Z02g_FoH Toilet - MEP 2nd fix	2	22-Jul-19	03-Aug-19	10-Jun-19 A	02-Apr-20	-196	-68															
8450	POD_L2_Z02g_FoH Toilet - Ceiling finishes final coat	2	14-Aug-19	16-Aug-19	15-Nov-19 A	02-Apr-20	-185	-60															
8442	POD_L2_Z02g_FoH Toilet - MEP final fix	3	17-Aug-19	23-Aug-19	18-Nov-19 A	06-Apr-20	-181	-60															
8447	POD_L2_Z02g_FoH Toilet - Cubicle partitions & sanitary ware & fittings	4	19-Oct-19	25-Oct-19	20-Jan-20 A	18-Apr-20	-141	-46															
8441	POD_L2_Z02g_FoH Toilet - Door Frame	2	27-Apr-19	29-Apr-19	24-Feb-20 A	02-Apr-20	-276	65															
8435	POD_L2_Z02g_FoH Toilet - Door / Ironmong	2	26-Oct-19	28-Oct-19	20-Apr-20	21-Apr-20	-141	52															
10301	POD_L2_Z02g_FoH_HO1 - Toilet Block HANDOVER	0		30-May-20		08-Jul-20	-32	79															
Toilet Lobby/ Gallery Circ																							
8465a	POD_L2_Z02g_FoH Toilet Lob - Wall Finishes (Plywood backing)	3			12-Feb-20 A	03-Apr-20		58															
8459a	POD_L2_Z02g_FoH Toilet Lob - Ceiling finishes (Plywood backing for Timber fin)	3			17-Feb-20 A	03-Apr-20		-62															
8460	POD_L2_Z02g_FoH Toilet Lob - MEP final fix	5	21-Nov-19	27-Nov-19	23-Mar-20 A	08-Apr-20	-104	-62															
8461a	POD_L2_Z02g_FoH Toilet Lob - Floor finishes (resilient layer, ply base)	4			17-Jun-20	20-Jun-20		-3															
8459	POD_L2_Z02g_FoH Toilet Lob - Ceiling finishes (Timber)	3	18-Nov-19	20-Nov-19	17-Jun-20	19-Jun-20	-171	-6															
8465	POD_L2_Z02g_FoH Toilet Lob - Wall Finishes (Timber)	4	21-Nov-19	27-Nov-19	20-Jun-20	24-Jun-20	-169	-6															
8461	POD_L2_Z02g_FoH Toilet Lob - Floor finishes (timber)	4	28-Nov-19	04-Dec-19	26-Jun-20	30-Jun-20	-167	-6															
10300	POD_L2_Z02g_FoH_HO1 - Toilet Lobby/ Gallery Circ. HANDOVER	0		30-May-20		08-Jul-20	-32	79															
Galleries & Gallery Circ, Gallery BOH, BOH Rms, Lobbies & Corridors - POD_L2_Z03																							
8612	POD_L2_Z03b/c_BoH - All Other Finishes / Make Good & Clean	12	06-Aug-19	19-Aug-19	08-Apr-20	21-Apr-20	-198	58															
8573	POD_L2_Z03a_FoH - All Other Finishes / Make Good & Clean	30	19-Mar-20	15-May-20	15-Jun-20	21-Jul-20	-55	-17															
Gallery 12 & 13, Open Gallery Harbour View Gallery 2 and Gallery Circ. - POD_L2_Z03a (SZ6)																							
8574	POD_L2_Z03a_FoH - MEP 1st fix	0	27-Apr-19	24-Jun-19	25-Mar-19 A	05-Mar-20 A	-205																
8575	POD_L2_Z03a_FoH - MEP 2nd fix (partly)	2	15-Jul-19	10-Aug-19	08-Apr-19 A	02-Apr-20	-190	-70															
8579	POD_L2_Z03a_FoH - Dry Wall MEP Services/Conduits MEP 1st fix	0	18-Jun-19	16-Jul-19	19-Aug-19 A	04-Mar-20 A	-186																
8575a	POD_L2_Z03a_FoH - MEP 2nd fix	2			06-Nov-19 A	02-Apr-20		-71															
8588a	POD_L2_Z03a_FoH - Ceiling board	3			21-Oct-19 A	03-Apr-20		-71															
8575b	POD_L2_Z03a_FoH - MEP Final Fix	4			10-Feb-20 A	07-Apr-20		-67															
8583	POD_L2_Z03a_FoH - Raised floor pedestal	0	22-Jul-19	27-Aug-19	16-Dec-19 A	07-Mar-20 A	-153																
8584	POD_L2_Z03a_FoH - Underfloor MEP 1st fix	0	05-Aug-19	23-Sep-19	19-Dec-19 A	10-Mar-20 A	-133																
9641	POD_L2_Z03a_FoH - Underfloor MEP 2nd fix	0	24-Sep-19	23-Oct-19	21-Dec-19 A	11-Mar-20 A	-110																
8585	POD_L2_Z03a_FoH - Raised floor panels incl. cut-outs	0	24-Oct-19	09-Nov-19	24-Dec-19 A	14-Mar-20 A	-98																
8580	POD_L2_Z03a_FoH - MEP final fix (in Raised Floor)	3	28-Oct-19	23-Nov-19	27-Dec-19 A	06-Apr-20	-105	-66															
8572	POD_L2_Z03a_FoH - Door/ 2nos. SR3 O'S Doors / Ironmong	9	11-Nov-19	16-Nov-19	30-Dec-19 A	11-Apr-20	-116	-65															
9686	POD_L2_Z03a_FoH - Install Roller Blinds	12	11-Feb-20	24-Feb-20	11-May-20	25-May-20	-76	21															
8577a	POD_L2_Z03a_FoH - Flr finishes (resilient layer, ply base)	14			18-May-20	02-Jun-20		-13															
8587	POD_L2_Z03a_FoH - Ceiling finishes (insulation/acoustic plaster, Timber at Circ/Pas)	30	06-Dec-19	07-Feb-20	18-May-20	20-Jun-20	-113	-17															
8578	POD_L2_Z03a_FoH - Wall finishes (paint/Timber @ Circ-passage only)	30	20-Jan-20	25-Mar-20	25-May-20	29-Jun-20	-79	-17															
8577	POD_L2_Z03a_FoH - Flr finishes (timber) + flr grilles	30	29-Feb-20	09-Apr-20	08-Jun-20	14-Jul-20	-79	-17															
8590	POD_L2_Z03a_FoH - Facade timber mullion capping	12	10-Apr-20	23-Apr-20	30-Jun-20	14-Jul-20	-67	-17															
10298	POD_L2_Z03a_FoH_HO1 - Gallery 12 & 13, Open Gallery,etc HANDOVER	0		02-May-20		21-Jul-20	-67	68															
Gallery BoH Internal - POD_L2_Z03b																							
8619	POD_L2_Z03b_BoH - MEP 2nd fix	0	03-Jun-19	24-Jun-19	10-Jun-19 A	04-Mar-20 A	-204																
8627	POD_L2_Z03b_BoH - Install Safe grid metal deck	0	13-Jul-19	16-Jul-19	17-Dec-19 A	04-Mar-20 A	-186																
8623	POD_L2_Z03b_BoH - MEP final fix																						

ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	Finish Var	TF	2020														
									Mar	Apr	May	Jun	Jul	Aug	Sep	Oct							
8678	POD_L2_Z04e_FoH Toilet - Door / Ironmong	6	15-Oct-19	21-Oct-19	18-Apr-20	24-Apr-20	-150	49															
10273	POD_L2_Z04e_FoH Toilet_HO1 - Toilet Block HANDOVER	0		30-May-20		08-Jul-20	-32	79															
Toilet Lobby/ Corridor																							
8702	POD_L2_Z04e_FoH Toilet Lob - MEP final fix	4	21-Nov-19	27-Nov-19	18-Dec-19 A	06-Apr-20	-102	-60															
8701	POD_L2_Z04e_FoH Toilet Lob - Ceiling finishes (Timber)	3	18-Nov-19	20-Nov-19		17-Jun-20		-171	-6														
8703a	POD_L2_Z04e_FoH Toilet Lob - Floor finishes (resilient layer, plywood base)	4			17-Jun-20	20-Jun-20			-3														
8707	POD_L2_Z04e_FoH Toilet Lob - Wall Finishes (Timber)	4	21-Nov-19	27-Nov-19	20-Jun-20	24-Jun-20		-169	-6														
8703	POD_L2_Z04e_FoH Toilet Lob - Floor finishes (Timber)	4	28-Nov-19	04-Dec-19	26-Jun-20	30-Jun-20		-167	-6														
10270	POD_L2_Z04e_FoH Toilet Lob_HO1 - Plaza HANDOVER	0		30-May-20		08-Jul-20	-32	79															
Plaza																							
Plaza - POD_L2_Z05 (S25)																							
8715	POD_L2_Z05_Plaza - MEP 1st fix	2	08-Jul-19	17-Sep-19	08-Apr-19 A	02-Apr-20	-160	-68															
8794	POD_L2_Z05_Plaza - MEP 2nd fix	3	17-Sep-19	24-Oct-19	10-Jun-19 A	03-Apr-20	-131	-68															
8718	POD_L2_Z05_Plaza - MEP final fix	4	24-Oct-19	14-Nov-19	15-Jul-19 A	07-Apr-20	-115	-67															
8720	POD_L2_Z05_Plaza - Floor screeding	7	25-Jun-19	11-Jul-19	14-Oct-19 A	09-Apr-20	-221	-66															
9739	POD_L2_Z05_Plaza - Dry Wall Frame	2	04-Jul-19	22-Jul-19	21-Oct-19 A	02-Apr-20	-207	-67															
9741	POD_L2_Z05_Plaza - Close Dry Wall	2	13-Aug-19	26-Aug-19	20-Nov-19 A	03-Apr-20	-178	-67															
9542	POD_L2_Z05_Plaza - Install Metal Balustrade	0	24-Oct-19	14-Nov-19	20-Dec-19 A	14-Mar-20 A		-95															
9742	POD_L2_Z05_Plaza - Wall finishes (paint on dry wall)	4	27-Aug-19	12-Sep-19	23-Dec-19 A	06-Apr-20	-164	-67															
8716a	POD_L2_Z05_Plaza - Floor finishes (resilient layer, plywood backing)	24			18-May-20	13-Jun-20		-29															
8716	POD_L2_Z05_Plaza - Floor finishes (Timber)	48	18-Nov-19	09-Jan-20	17-Jun-20	13-Aug-20		-175	-49														
8717	POD_L2_Z05_Plaza - All Other Finishes / Make Good & Clean	18	30-Dec-19	20-Jan-20	07-Aug-20	27-Aug-20		-178	-49														
10269	POD_L2_Z05_Plaza_HO1 - Plaza HANDOVER	0		30-May-20		27-Aug-20	-75	36															
Plaza Mezzanine Level BoH Corridor - POD_L2M_Z05a																							
9650	POD_L2M_Z05a_BoH - LL MEP 1st, 2nd & Final Fix (Ducts, FS Pipe, Drainage) c	3	29-Jun-19	10-Aug-19	24-Jun-19 A	03-Apr-20	-191	-59															
10267	POD_L2M_Z05a_BoH_HO1 - Plaza Mezzanine Level BoH Corridor HANDOVER	0				27-Aug-20		36															
Level L3																							
ABWF Works & MEP Works																							
FoH & BoH Areas @ Tower Footprint - POD_L3_Z01a, L3_Z01b & L3_Z01c																							
8332	POD_L3_Z01a_d_FoH - All Other Finishes (floor mat) / Make Good & Clean	12	08-Nov-19	22-Nov-19	01-Jun-20	13-Jun-20	-165	13															
8363	POD_L3_Z01b & Z01c_BoH - All Other Finishes / Make Good & Clean	12	02-Aug-19	15-Aug-19	23-Apr-20	07-May-20	-214	45															
8280	POD_L3_Z01d_FoH Toilet Lob - All Other Finishes / Make Good & Clean	12	27-Sep-19	14-Oct-19	30-May-20	12-Jun-20	-198	14															
FoH - Museum Cafe 2 & Warming Kitchen and BOH @ Tower Footprint - POD_L3_Z01a																							
8321	POD_L3_Z01a_FoH - MEP 1st fix	3	08-Jun-19	05-Aug-19	02-May-19 A	03-Apr-20	-197	-68															
8795	POD_L3_Z01a_FoH - MEP 2nd fix	4	05-Aug-19	02-Sep-19	09-Dec-19 A	06-Apr-20	-174	-68															
8322	POD_L3_Z01a_FoH - MEP final fix	9	02-Sep-19	17-Sep-19	18-Jan-20 A	11-Apr-20	-167	-65															
8323	POD_L3_Z01a_FoH - Floor sealer @ Museum Cafe 2 & BOH	5	02-Oct-19	09-Oct-19	13-Apr-20	17-Apr-20	-155	47															
8319	POD_L3_Z01a_FoH - Door / Ironmong	2	09-Oct-19	11-Oct-19	18-Apr-20	20-Apr-20	-155	47															
8320	POD_L3_Z01a_FoH_HO1 - Museum Cafe 2 & Warming Kitchen and BOH @ Tower	0		11-Apr-20		13-Jun-20	-54	98															
BoH Plantrooms, Corridors & Lobbies @ Tower Footprint - POD_L3_Z01b & L3_Z01c																							
8355	POD_L3_Z01b & L3_Z01c_BoH - MEP 1st fix	3	19-Apr-19	31-May-19	01-Aug-19 A	03-Apr-20	-250	-68															
8357	POD_L3_Z01b & L3_Z01c_BoH - MEP 2nd fix	6	05-Jun-19	26-Jun-19	19-Aug-19 A	08-Apr-20	-232	-68															
8360	POD_L3_Z01b & L3_Z01c_BoH - MEP final fix	9	19-Jul-19	29-Jul-19	18-Jan-20 A	11-Apr-20	-208	-65															
8354	POD_L3_Z01b & L3_Z01c_BoH - Ceiling rods	3	16-Apr-19	18-Apr-19	01-Apr-20*	03-Apr-20	-286	-68															
8358	POD_L3_Z01b & L3_Z01c_BoH - Ceiling finishes (boards + paint)	6	27-Jun-19	04-Jul-19	06-Apr-20	11-Apr-20	-229	45															
8356	POD_L3_Z01b & L3_Z01c_BoH - Ceiling grids	3	01-Jun-19	04-Jun-19	06-Apr-20	08-Apr-20	-250	-68															
8359	POD_L3_Z01b & L3_Z01c_BoH - Wall finishes (paint)	6	05-Jul-19	11-Jul-19	13-Apr-20	18-Apr-20	-229	45															
8361	POD_L3_Z01b & L3_Z01c_BoH - Floor sealer	3	30-Jul-19	01-Aug-19	20-Apr-20	22-Apr-20	-214	45															
8362	POD_L3_Z01b & L3_Z01c_BoH - Doors & Ironmong	6	02-Aug-19	08-Aug-19	23-Apr-20	29-Apr-20	-214	45															
8396	POD_L3_Z01b & L3_Z01c_BoH_HO1 - BoH Plantrooms, Corr & Lab @ Tower Footprir	0		09-May-20		13-Jun-20	-31	98															
FoH - Corridor & Concourse @ Tower Footprint - POD_L3_Z01d																							
8796	POD_L3_Z01d_FoH - MEP 1st fix	2	17-Jun-19	12-Aug-19	17-Jul-19 A	02-Apr-20	-189	-68															
8328	POD_L3_Z01d_FoH - MEP 2nd fix	3	02-Sep-19	02-Oct-19	12-Aug-19 A	03-Apr-20	-149	-68															
8333	POD_L3_Z01d_FoH - MEP final fix	4	18-Oct-19	29-Oct-19	18-Jan-20 A	06-Apr-20	-128	-60															
8327	POD_L3_Z01d_FoH - Ceiling rods	2	16-Apr-19	19-Apr-19	30-Mar-20 A	02-Apr-20	-284	-68															
8330	POD_L3_Z01d_FoH - Doors & Ironmong	2	13-Nov-19	15-Nov-19	01-Apr-20	02-Apr-20	-111	67															
8329	POD_L3_Z01d_FoH - Ceiling finishes (bamboo slats)	15	02-Oct-19	18-Oct-19	04-May-20	20-May-20	-174	13															
8331	POD_L3_Z01d_FoH - Floor finishes (concrete pavers)	15	29-Oct-19	13-Nov-19	21-May-20	06-Jun-20	-167	13															
8336	POD_L3_Z01d_FoH_HO1 - Corridor & Concourse @ Tower Footprint HANDOVER	0		13-Jun-20		13-Jun-20*	-1	98															
FoH Toilets - Cafe Toilets @ Tower Footprint - POD_L3_Z01d																							
Toilet Block																							
8267	POD_L3_Z01d_FoH Toilet - MEP 1st fix Ceiling	2	13-May-19	05-Jun-19	08-Aug-19 A	02-Apr-20	-245	-72															
8265	POD_L3_Z01d_FoH Toilet - MEP 1st fix Block Wall	3	04-May-19	13-May-19	04-Nov-19 A	03-Apr-20	-266	-71															
8269	POD_L3_Z01d_FoH Toilet - Dry Wall MEP Services/Conduits (MEP 1st fix)	3	11-May-19	24-May-19	09-Dec-19 A	07-Apr-20	-258	-56															
8257	POD_L3_Z01d_FoH Toilet - MEP 2nd fix	6	21-Jun-19	05-Jul-19	16-Dec-19 A	08-Apr-20	-225	-71															
8268	POD_L3_Z01d_FoH Toilet - Dry Wall Frame & Board (one side)	3	08-May-19	13-May-19	01-Feb-20 A	03-Apr-20	-266	-56															
8259	POD_L3_Z01d_FoH Toilet - MEP final fix	12	19-Jul-19	25-Jul-19	17-Feb-20 A	20-Apr-20	-218	-72															
8256	POD_L3_Z01d_FoH Toilet - Seal Wall Opening	0	14-May-19	16-May-19	02-Mar-20 A	04-Mar-20 A	-236																
8251	POD_L3_Z01d_FoH Toilet - Wall Plastering (internal & external)	4	10-Jun-19	13-Jun-19	11-Mar-20 A	14-Apr-20	-248	-56															
8254	POD_L3_Z01d_FoH Toilet - Ceiling Rods & Grids	4	14-Jun-19	20-Jun-19	01-Apr-20	06-Apr-20	-235	-72															
8258	POD_L3_Z01d_FoH Toilet - Door Frame	2	06-Jun-19	08-Jun-19	03-Apr-20	06-Apr-20	-245	-50															
8255	POD_L3_Z01d_FoH Toilet - Close ceiling (board) incl. Cut-Outs	7	06-Jul-19	13-Jul-19	07-Apr-20	14-Apr-20	-223	-72															
8270	POD_L3_Z01d_FoH Toilet - Close Dry Wall	3	25-May-19	28-May-19	08-Apr-20	10-Apr-20	-258	-56															
8262	POD_L3_Z01d_FoH Toilet - Wall Tile Finishes	8	06-Sep-19	16-Sep-19	15-Apr-20	23-Apr-20	-177	-56															
8266	POD_L3_Z01d_FoH Toilet - Ceiling finishes final coat	3	15-Jul-19	17-Jul-19	15-Apr-20	17-Apr-20	-223	-72															
8263	POD_L3_Z01d_FoH Toilet - Cubicle partitions & sanitary ware & fittings	6	17-Sep-19	23-Sep-19	24-Apr-20	30-Apr-20	-177	-56															
8252	POD_L3_Z01d_FoH Toilet - Door / Ironmong	2	24-Sep-19	25-Sep-19	02-May-20	04-May-20	-177	36															
Toilet Lobby/ Vestibule																							
8279	POD_L3_Z01d_FoH Toilet Lob - MEP 1st fix	5	05-Aug-19	17-Aug-19	02-Dec-19 A	07-Apr-20	-187	-68															
8274	POD_L3_Z01d_FoH Toilet Lob - MEP 2nd fix	7	02-Sep-19	09-Sep-19	16-Dec-19 A	09-Apr-20	-171	-68															
8276	POD_L3_Z01d_FoH Toilet Lob - MEP final fix	12	27-Sep-19	05-Oct-19	17-Feb-20 A	15-Apr-20	-155	-68															

ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	Finish Var	TF	2020															
									Mar	Apr	May	Jun	Jul	Aug	Sep	Oct								
Level 3 Hard & Soft Landscaping																								
General																								
14238g	POD_LAN - Architectural Lightings Installation (EX5A/5B/6)	12	17-Feb-20	29-Feb-20	11-Jul-20	24-Jul-20	-121	-23																
9061	POD_LAN_ALL - Install balustrades along perimeter/Benches	6	19-Aug-19	31-Oct-19	02-Dec-19 A	09-Apr-20	-129	-38																
9063	POD_LAN_ALL - Hard landscape	45	12-Dec-19	13-Feb-20	15-Apr-20	06-Jun-20	-97	19																
11562	POD_LAN_ALL_HO1 - L3 Hard & Soft Landscape HANDOVER	0			24-Jun-20	24-Jun-20*	-34	65																
North Section AM/1-6.5																								
9048	POD_LAN_N - AM/1-6.5 Levelling screed/ W/proof & testing	4	03-May-19	03-Aug-19	18-Mar-19 A	06-Apr-20	-198	-60																
9049	POD_LAN_N - AM/1-6.5 Lay insulation & screed to fall	6	15-Jun-19	17-Aug-19	21-May-19 A	09-Apr-20	-189	-60																
9050	POD_LAN_N - AM/1-6.5 Construct RC screed	9	22-Jun-19	16-Sep-19	03-Jun-19 A	13-Apr-20	-168	-60																
9051	POD_LAN_N - AM/1-6.5 Construct sleeper wall + ducts & drawpits	7	22-Jul-19	30-Sep-19	10-Jul-19 A	09-Apr-20	-153	-57																
9053	POD_LAN_N - AM/1-6.5 Soft landscaping	12	28-Nov-19	06-Feb-20	11-Nov-19 A	20-Apr-20	-62	-5																
9052	POD_LAN_N - AM/1-6.5 Install precast concrete pavers	6	02-Sep-19	27-Nov-19	25-Nov-19 A	08-Apr-20	-104	-43																
9071	POD_LAN_N - AM/1-6.5 MEP 1st & 2nd fix	9	12-Sep-19	09-Oct-19	27-Nov-19 A	16-Apr-20	-153	-60																
9072	POD_LAN_N - AM/1-6.5 MEP final fix (FS hose reel system)	9	17-Sep-19	30-Sep-19	29-Nov-19 A	16-Apr-20	-159	-60																
9075	POD_LAN_N - AM/1-6.5 MEP final fix (rem)	12	28-Nov-19	11-Dec-19	10-Apr-20	23-Apr-20	-105	-50																
South Section AM/8.5-14																								
7041	POD_LAN_S - AM/8.5-14 Lay insulation & screed to fall	2	19-Jun-19	22-Aug-19	05-Jul-19 A	02-Apr-20	-181	-66																
7042	POD_LAN_S - AM/8.5-14 Construct RC screed	2	26-Jun-19	20-Sep-19	15-Jul-19 A	03-Apr-20	-158	-66																
7043	POD_LAN_S - AM/8.5-14 Construct sleeper wall + ducts & drawpits	6	25-Jul-19	05-Oct-19	04-Sep-19 A	09-Apr-20	-150	-66																
7125	POD_LAN_S - AM/8.5-14 MEP 1st & 2nd fix	9	05-Sep-19	14-Oct-19	25-Nov-19 A	13-Apr-20	-147	-66																
7130	POD_LAN_S - AM/8.5-14 MEP final fix (FS hose reel system)	9	20-Sep-19	05-Oct-19	27-Nov-19 A	13-Apr-20	-153	-66																
7111	POD_LAN_S - AM/8.5-14 Soft landscaping	12	02-Dec-19	11-Feb-20	23-Dec-19 A	17-Apr-20	-57	-3																
7057	POD_LAN_S - AM/8.5-14 Pp/cast pavers & Interface with Escalator localised area (w	9	05-Sep-19	02-Dec-19	02-Jan-20 A	14-Apr-20	-106	-3																
7187	POD_LAN_S - AM/8.5-14 MEP final fix (rem)	12	02-Dec-19	16-Dec-19	07-Apr-20	20-Apr-20	-99	-47																
Middle Section - AM/6.5-8.5																								
9056	POD_LAN_M - AM/6.5-8.5 Construct RC screed	0	17-Oct-19	14-Nov-19	09-Dec-19 A	07-Mar-20 A	-89																	
9057	POD_LAN_M - AM/6.5-8.5 Construct sleeper wall + ducts & drawpits	3	31-Oct-19	28-Nov-19	20-Dec-19 A	03-Apr-20	-101	-45																
9066	POD_LAN_M - AM/6.5-8.5 MEP 1st & 2nd fix (no FSD services)	6	12-Dec-19	27-Dec-19	06-Jan-20 A	11-Apr-20	-83	-45																
9058	POD_LAN_M - AM/6.5-8.5 Install precast concrete pavers	9	28-Nov-19	12-Dec-19	17-Jan-20 A	11-Apr-20	-95	-45																
9059	POD_LAN_M - AM/6.5-8.5 Soft landscaping	12	11-Jan-20	17-Feb-20	16-Mar-20 A	17-Apr-20	-52	-3																
9074	POD_LAN_M - AM/6.5-8.5 MEP final fix (no FSD)	12	27-Dec-19	11-Jan-20	03-Apr-20	17-Apr-20	-76	-45																
EWS (External Wall System)																								
Skylight, Glazing, Internal Glass Walls & Cladding																								
B1/F - Southern Perimeter Glass Wall																								
Installation																								
7189	POD_B1_GW - G+W/13+ Pisa Glass M_Shop 2/M_Image (B1_Z09b) (Pisa 08-04; 0;	2	27-Jun-19	25-Jul-19	14-Oct-19 A	02-Apr-20	-204	-58																
7191	POD_B1_GW - E+G/12+ Pisa Glass (South Entrance)	2	22-Aug-19	11-Sep-19	08-Jan-20 A	02-Apr-20	-163	-37																
6895	POD_B1_GW - Pisa Inner Glass Museum Caffè (B1_Z08) (Pisa 08-02) Oct_UPD: EF	2	04-May-19	15-Jun-19	13-Jan-20 A	02-Apr-20	-237	-37																
6895a	POD_B1_GW - Pisa Outer Glass Museum Caffè (B1_Z08) (Pisa 08-02) Oct_UPD: E	3			13-Jan-20 A	03-Apr-20	-38																	
7191a	POD_B1_GW - E+G/3+ Pisa Glass (North Entrance) (Pisa: 08-05) - Oct_UPD: EF 7C	3			21-Jan-20 A	03-Apr-20	-38																	
7191b	POD_GW - Door Actuator First Delivery (South Entrance - 15 Nos)	0			30-Mar-20 A																			
7191c	POD_B1_GW - E+G/12+ Glass Door Actuator Installation + test (South Entrance - 6	12			01-Apr-20	15-Apr-20	-68																	
GF to 1M/F Soffit - Glass Walls, Columns & Walls Ceramic Cladding																								
Priority 1 - Atrium/Circ_Box & Cer_Tubes (MEP Plenum Voids)																								
Installation																								
1001	POD_GF_Z07_P1 - G-M/8-13 Pisa Glass & Tube Walls (ACC 16Oct)	3	08-Jul-19	17-Aug-19	19-Aug-19 A	03-Apr-20	-185	-73																
8596	POD_GF_Z07_P1 - B-G/8-13 Pisa Balance Glass & Tube Walls (ACC 19Oct)	3	08-Jun-19	20-Jul-19	16-Sep-19 A	03-Apr-20	-209	-71																
8935	POD_GF_Z07_P1 - AE/9-11 Pisa Install Ceramic Tube Learning Centre (ACC 21 Sep)	3	29-Jul-19	07-Sep-19	07-Oct-19 A	03-Apr-20	-167	-71																
8946	POD_GF_Z07_P1 - AM/1-7 Pisa Glass & Tube Walls (ACC 19Oct)	3	17-May-19	28-Jun-19	26-Oct-19 A	03-Apr-20	-227	-75																
8335	POD_GF_Z07_P1 - B-G/8-13 Pisa Lecture Theatre/Wshops Install Glass (ACC 9Oc)	3	06-Aug-19	17-Sep-19	03-Dec-19 A	03-Apr-20	-160	-68																
1001a	POD_GW - Door Actuator 2nd Delivery (South Entrance - 27 Nos)	0			15-Apr-20*		-84																	
1001b	POD_GW - Glass Door Actuator Installation + 6d test (South Entrance - 27 Nos + 1 i	17			15-Apr-20	05-May-20	-84																	
Priority 2 - External Glass; Cer_Tubes (MEP Jet Nozzles)																								
Procurement																								
10108	POD_GF_P2 - Fab/Del GF Priority 2 Windows (AM/1-7) - [ACC 1st 12 Oct; last 29 Oc	0			09-Dec-19 A	05-Mar-20 A																		
Installation																								
9874	POD_GF_Z07_P2 - Pisa (all P2 areas) - Install 1st Fix (shared access with MEP)	0	08-May-19	06-Jun-19	15-Jun-19 A	06-Mar-20 A	-220																	
8558	POD_GF_Z07_P2 - Pisa (all P2 areas) - Install Ceramic Tube Wall (ACC 26Nov)	3	29-Jun-19	10-Aug-19	16-Sep-19 A	03-Apr-20	-191	-71																
8945	POD_GF_Z07_P2 - GM/8-13 Pisa - Install Glass Wall (ACC 26Nov) OctUPD: EF 6De	3	08-Jun-19	20-Jul-19	11-Nov-19 A	03-Apr-20	-209	-64																
10111	POD_GF_Z07_P2 - BG/8-13 Pisa - Install Glass Wall (LC area) (ACC 18Nov) OctUPI	3			06-Jan-20 A	03-Apr-20	-61																	
10109	POD_GF_Z07_P2 - AM/1-7 Pisa - Install Windows (3 off) (ACC 4Nov) OctUPD: EF 9	3			05-Mar-20 A	03-Apr-20	-40																	
Priority 3 - Decorative Walls & Dry Fix																								
Installation																								
9884	POD_GF_Z07_P3 - AM/1-7 Pisa - Ext. & Decorative Walls (ACC 5Dec) OctYPD: EF 2	3	30-Apr-19	13-Jun-19	01-Aug-19 A	03-Apr-20	-241	-57																
9885	POD_GF_Z07_P3 - GM/8-13 Pisa - Ext. & Decorative Walls (ACC 2Dec) OctUPD: EI	3	23-Apr-19	05-Jun-19	23-Sep-19 A	03-Apr-20	-247	-57																
9886	POD_GF_Z07_P3 - BG/8-13 Pisa - Ext. & Decorative Walls (ACC 30Nov) OctUPD: EF	3	18-May-19	29-Jun-19	04-Nov-19 A	03-Apr-20	-226	-57																
2/F - Glass With Pre-cast Concrete Mullions																								
8603	POD_L2_Z04a_GW - BF/11-13 Pisa Install East GW	3	03-Jul-19	30-Jul-19	01-Oct-19 A	03-Apr-20	-201	-38																
8953	POD_L2_Z04a_GW - BF/11-13 Pisa Install West GW	3	14-Aug-19	10-Sep-19	01-Oct-19 A	03-Apr-20	-165	-38																
Corrugated Aluminium Perf. Panels & Pre-Cast Concrete Tubes																								
1228	POD_GF - Set Out & Install Angle Supports/Panels/Louvers - Type A Angle 186-Enx	9	16-Aug-19	04-Nov-19	27-Jul-19 A	11-Apr-20	-127	-67																
1229	POD_GF - Set Out & Install Angle Supports/Panels/Louvers - Type B Cway GL_A-C	9	28-Jun-19	13-Sep-19	09-Sep-19 A	11-Apr-20	-168	-67																
1225	POD_GF - Set Out & Install Angle Supports/Panels/Louvers - Type C GL_1H'	9	10-Apr-19	22-May-19	21-Oct-19 A	11-Apr-20	-264	-67																
1226	POD_GF - Set Out & Install Angle Supports/Panels/Louvers - Type C G_LH-F"	9	23-May-19	27-Jun-19	21-Oct-19 A	11-Apr-20	-234	-67																
1230	POD_GF - Set Out & Install Angle Supports/Panels/Louvers - Type B Cway GL_HA	7	16-Sep-19	05-Nov-19	21-Oct-19 A	09-Apr-20	-124	-67																
1227	POD_GF - Set Out & Install Angle Supports/Panels/Louvers - Type A/C GL_F-angle	9	19-Jul-19	05-Sep-19	18-Nov-19 A	11-Apr-20	-175	-67																
1231	POD_GF - Set Out & Install Angle Supports/Panels/Louvers - Type A Cway GL_A-Er	9	06-Nov-19	24-Dec-19	08-Jan-20 A	11-Apr-20	-84	-67																
111168	POD_GF - Install Doors including FRP Doors	6			16-Jan-20 A	14-Apr-20	-67																	
9780	POD_GF - Install Pre-Cast Concrete Tube at West (A+/3-7)	18	23-Aug-19	20-Sep-19																				

ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	Finish Var	TF	2020													
									Mar	Apr	Qtr 2			Jun	Jul	Qtr 3		Sep	Qtr 4			
											May			Aug	Oct							
11380	POD_ST08B_HO1 - POD_ST08B_HANDOVER	0				04-Jun-20		107														
9017	POD_ST14B_FS - MEP 1st fix, 2nd fix	0	08-Aug-19	19-Sep-19	15-Apr-19 A	07-Mar-20 A	-134															
9019	POD_ST14B_FS - Permanent Hand Rail	0	26-Sep-19	12-Oct-19	14-Oct-19 A	21-Mar-20 A	-128															
9021	POD_ST14B_FS - All Other Finishes (DOOR) / Make Good & Clean	12	09-Oct-19	22-Oct-19	25-Nov-19 A	06-May-20	-158	46														
9015	POD_ST14B_FS - Ceiling Dust Sealer	21	06-May-19	04-Jun-19	01-Apr-20*	25-Apr-20	-265	46														
9018	POD_ST14B_FS - Wall Dust Sealer	21	03-Sep-19	04-Oct-19	09-Apr-20	04-May-20	-170	46														
11390	POD_ST14B_HO1 - POD_ST14B_HANDOVER	0				06-May-20		131														
9026	POD_ST18_FS - MEP 1st fix, 2nd fix	0	08-Aug-19	19-Sep-19	14-Oct-19 A	14-Mar-20 A	-140															
9028	POD_ST18_FS - Permanent Hand Rail	0	26-Sep-19	12-Oct-19	15-Oct-19 A	18-Mar-20 A	-125															
9024	POD_ST18_FS - Ceiling Dust Sealer	21	05-Jun-19	06-Jul-19	01-Apr-20*	25-Apr-20	-239	46														
9027	POD_ST18_FS - Wall Dust Sealer	21	03-Sep-19	04-Oct-19	09-Apr-20	04-May-20	-170	46														
9030	POD_ST18_FS - All Other Finishes (DOOR) / Make Good & Clean	12	09-Oct-19	22-Oct-19	22-Apr-20	06-May-20	-158	46														
11400	POD_ST18_HO1 - POD_ST18_HANDOVER	0				06-May-20		131														
9038	POD_ST20B_FS - All Other Finishes (DOOR) / Make Good & Clean	12	09-Oct-19	22-Oct-19	18-Nov-19 A	07-May-20	-159	45														
9036	POD_ST20B_FS - Permanent Hand Rail	0	26-Sep-19	12-Oct-19	25-Nov-19 A	21-Mar-20 A	-128															
9034	POD_ST20B_FS - MEP 1st fix, 2nd fix	5	08-Aug-19	19-Sep-19	16-Mar-20 A	07-Apr-20	-160	-68														
9032	POD_ST20B_FS - Ceiling Dust Sealer	21	05-Jun-19	06-Jul-19	01-Apr-20*	25-Apr-20	-239	45														
9035	POD_ST20B_FS - Wall Dust Sealer	21	03-Sep-19	04-Oct-19	09-Apr-20	04-May-20	-170	45														
11450	POD_ST20B_HO1 - POD_ST20B_HANDOVER	0				20-May-20		120														
9578	POD_ST51B_FS - All Other Finishes (DOOR) / Make Good & Clean	12	19-Jul-19	01-Aug-19	26-Nov-19 A	07-May-20	-226	45														
9572	POD_ST51B_FS - Ceiling Dust Sealer	21	06-May-19	04-Jun-19	01-Apr-20*	25-Apr-20	-265	45														
9575	POD_ST51B_FS - Wall Dust Sealer	21	15-Jun-19	16-Jul-19	09-Apr-20	04-May-20	-237	45														
11460	POD_ST51B_HO1 - POD_ST51B_HANDOVER	0				18-Jun-20		95														
9584	POD_ST53B_FS - Permanent Hand Rail	0	09-Jul-19	23-Jul-19	14-Oct-19 A	11-Mar-20 A	-186															
9586	POD_ST53B_FS - All Other Finishes (DOOR) / Make Good & Clean	12	19-Jul-19	01-Aug-19	25-Nov-19 A	07-May-20	-226	45														
9582	POD_ST53B_FS - MEP 1st fix, 2nd fix	5	20-May-19	02-Jul-19	16-Mar-20 A	07-Apr-20	-227	-68														
9580	POD_ST53B_FS - Ceiling Dust Sealer	21	06-May-19	04-Jun-19	01-Apr-20*	25-Apr-20	-265	45														
9583	POD_ST53B_FS - Wall Dust Sealer	21	15-Jun-19	16-Jul-19	06-Apr-20	29-Apr-20	-234	45														
11470	POD_ST53B_HO1 - POD_ST53B_HANDOVER	0				18-Jun-20		95														
9590	POD_ST54B_FS - MEP 1st fix, 2nd fix	4	15-Jun-19	27-Jul-19	23-Sep-19 A	06-Apr-20	-204	-68														
9592	POD_ST54B_FS - Permanent Hand Rail	0	03-Aug-19	17-Aug-19	18-Nov-19 A	13-Mar-20 A	-166															
9594	POD_ST54B_FS - All Other Finishes (DOOR) / Make Good & Clean	12	14-Aug-19	27-Aug-19	18-Nov-19 A	07-May-20	-204	45														
9588	POD_ST54B_FS - Ceiling Dust Sealer	21	31-May-19	02-Jul-19	01-Apr-20*	25-Apr-20	-243	45														
9591	POD_ST54B_FS - Wall Dust Sealer	21	12-Jul-19	10-Aug-19	09-Apr-20	04-May-20	-215	45														
11480	POD_ST54B_HO1 - POD_ST54B_HANDOVER	0				18-Jun-20		95														
Staircases Not Required for Pressurisation																						
9097	POD_ST81 - Permanent Hand Rail	3	16-Sep-19	30-Sep-19	10-Dec-19 A	03-Apr-20	-149	-59														
9093	POD_ST81 - Ceiling Dust Sealer	21	15-Jul-19	13-Aug-19	01-Apr-20*	25-Apr-20	-207	42														
9095	POD_ST81 - MEP 1st fix, 2nd fix	6	29-Jul-19	07-Sep-19	01-Apr-20*	08-Apr-20	-170	-62														
9096	POD_ST81 - Wall Dust Sealer	21	23-Aug-19	23-Sep-19	09-Apr-20	04-May-20	-179	45														
9099	POD_ST81 - All Other Finishes / Make Good & Clean	12	26-Sep-19	11-Oct-19	27-Apr-20	11-May-20	-171	42														
11000	POD_ST81_HO1 - POD_ST81_HANDOVER	0				21-May-20		118														
9103	POD_ST17B - MEP 1st fix, 2nd fix	9	08-Jul-19	17-Aug-19	01-Apr-19 A	11-Apr-20	-191	-65														
9105	POD_ST17B - Permanent Hand Rail	3	24-Aug-19	07-Sep-19	21-Oct-19 A	03-Apr-20	-167	-59														
9107	POD_ST17B - All Other Finishes (DOOR) / Make Good & Clean	12	04-Sep-19	18-Sep-19	18-Nov-19 A	07-May-20	-186	45														
9101	POD_ST17B - Ceiling Dust Sealer	21	22-Jun-19	23-Jul-19	01-Apr-20*	25-Apr-20	-225	45														
9104	POD_ST17B - Wall Dust Sealer	21	02-Aug-19	31-Aug-19	09-Apr-20	04-May-20	-197	45														
11010	POD_ST17B_HO1 - POD_ST17B_HANDOVER	0				21-May-20		118														
9111	POD_ST15B - MEP 1st fix, 2nd fix	3	15-Jul-19	24-Aug-19	19-Jun-19 A	03-Apr-20	-179	-68														
9113	POD_ST15B - Permanent Hand Rail	3	31-Aug-19	16-Sep-19	21-Nov-19 A	03-Apr-20	-161	-59														
9115	POD_ST15B - All Other Finishes (DOOR) / Make Good & Clean	12	11-Sep-19	25-Sep-19	25-Nov-19 A	11-May-20	-183	42														
9109	POD_ST15B - Ceiling Dust Sealer	21	29-Jun-19	30-Jul-19	06-Apr-20*	29-Apr-20	-222	42														
9112	POD_ST15B - Wall Dust Sealer	21	09-Aug-19	07-Sep-19	13-Apr-20	07-May-20	-194	42														
11020	POD_ST15B_HO1 - POD_ST15B_HANDOVER	0				21-May-20		118														
9248	POD_ST71 - MEP 1st fix, 2nd fix	3	24-Jun-19	05-Aug-19	16-Sep-19 A	03-Apr-20	-196	-68														
9250	POD_ST71 - Permanent Hand Rail	3	12-Aug-19	26-Aug-19	03-Feb-20 A	03-Apr-20	-178	-65														
9247	POD_ST71 - Floor Wproof Screenshot	26	17-Jun-19	17-Jul-19	01-Apr-20*	02-May-20	-235	37														
9246	POD_ST71 - Ceiling Dust Sealer	26	10-Jun-19	10-Jul-19	06-Apr-20*	06-May-20	-244	37														
9249	POD_ST71 - Wall Dust Sealer	26	20-Jul-19	19-Aug-19	13-Apr-20	13-May-20	-216	37														
9251	POD_ST71 - Stair Nosing Tile	13	14-Aug-19	28-Aug-19	17-Apr-20	02-May-20	-199	43														
9252	POD_ST71 - All Other Finishes / Make Good & Clean	12	22-Aug-19	04-Sep-19	04-May-20	16-May-20	-205	37														
11030	POD_ST71_HO1 - POD_ST71_HANDOVER	0				21-May-20		118														
9176	POD_ST30-31-32-33 - MEP 1st fix, 2nd fix	5	06-Aug-19	17-Sep-19	16-Sep-19 A	07-Apr-20	-162	-68														
9178	POD_ST30-31-32-33 - Permanent Hand Rail	4	24-Sep-19	10-Oct-19	21-Oct-19 A	06-Apr-20	-143	-60														
9174	POD_ST30-31-32-33 - Ceiling Dust Sealer	21	23-Jul-19	21-Aug-19	01-Apr-20*	25-Apr-20	-200	45														
9177	POD_ST30-31-32-33 - Wall Dust Sealer	21	31-Aug-19	02-Oct-19	09-Apr-20	04-May-20	-172	45														
9180	POD_ST30-31-32-33 - All Other Finishes (DOOR) / Make Good & Clean	12	05-Oct-19	19-Oct-19	23-Apr-20	07-May-20	-161	45														
11040	POD_ST30-31-32-33_HO1 - POD_ST30-31-32-33_HANDOVER	0				21-May-20		118														
9184	POD_ST73 - MEP 1st fix, 2nd fix	3	14-Aug-19	25-Sep-19	16-Sep-19 A	03																

ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	Finish Var	TF	2020													
									Mar	Apr	May	Jun	Jul	Aug	Sep	Oct						
3164	TW_L11_Z02_BoH - MEP 1st fix	0	11-Mar-19	15-Apr-19	01-Apr-19 A	05-Mar-20 A	-263															
3166	TW_L11_Z02_BoH - MEP 2nd fix	0	09-Aug-19	29-Aug-19	22-Jul-19 A	07-Mar-20 A	-151															
3163	TW_L11_Z02_BoH - Wall & Ceiling Sealer	3	04-Mar-19	08-Mar-19	05-Aug-19 A	03-Apr-20	-320	-64														
3165	TW_L11_Z02_BoH - Seal Wall Opening	0	16-Apr-19	22-Apr-19	10-Sep-19 A	04-Mar-20 A	-256															
3180	TW_L11_Z02_BoH - Wall Epoxy/Emulsion Paint	10	30-Aug-19	17-Sep-19	18-Sep-19 A	13-Apr-20	-167	-45														
3162	TW_L11_Z02_BoH - Misc Metal Works / Access Panels	6	30-Aug-19	05-Sep-19	07-Oct-19 A	08-Apr-20	-172	-40														
3182	TW_L11_Z02_BoH - MEP final fix	4	30-Aug-19	05-Sep-19	04-Nov-19 A	06-Apr-20	-170	-68														
3160	TW_L11_Z02_BoH - Door / Ironmong / Hose Reel Cabs	6	30-Aug-19	10-Sep-19	13-Feb-20 A	08-Apr-20	-168	-62														
3161	TW_L11_Z02_BoH - All Other Finishes / Make Good & Clean	14	11-Sep-19	25-Sep-19	18-Feb-20 A	17-Apr-20	-164	-45														
3178	TW_L11_Z02_BoH - Floor sealer	2	17-Sep-19	18-Sep-19	13-Apr-20	14-Apr-20	-167	-45														
10200	TW_L11_Z02_BoH_HO1 - Plant Rooms, Corridors & Lift Lobbies HANDOVER	0		06-Jun-20		06-Jun-20*	0	105														
Toilets - TW_L11_Z03																						
3175	TW_L11_Z03_Toilet - MEP 1st fix Ceiling	0	19-Jun-19	17-Jul-19	02-May-19 A	04-Mar-20 A	-185															
4520	TW_L11_Z03_Toilet - MEP 2nd fix	4	07-Aug-19	27-Aug-19	11-Nov-19 A	06-Apr-20	-178	-68														
4522	TW_L11_Z03_Toilet - MEP final fix	6	09-Sep-19	16-Sep-19	16-Dec-19 A	09-Apr-20	-165	-68														
3149	TW_L11_Z03_Toilet - Sanitary ware & fittings	15	16-Nov-19	26-Nov-19	20-Dec-19 A	18-Apr-20	-114	-46														
3171	TW_L11_Z03_Toilet - Dry Wall Frame & One Side Board	0	11-Jun-19	13-Jun-19	06-Jan-20 A	04-Mar-20 A	-213															
4516	TW_L11_Z03_Toilet - Ceiling Rods/ Grids	0	02-Aug-19	06-Aug-19	05-Feb-20 A	06-Mar-20 A	-170															
3173	TW_L11_Z03_Toilet - Dry Wall Closing Board	0	28-Jun-19	29-Jun-19	10-Feb-20 A	03-Mar-20 A	-198															
4513	TW_L11_Z03_Toilet - Dry Wall Frame & Board (external)	12	20-Jul-19	02-Aug-19	18-Feb-20 A	15-Apr-20	-207	-46														
4513a	TW_L11_Z03_Toilet - Wall Plastering (internal)	0			07-Mar-20 A	20-Mar-20 A																
4517	TW_L11_Z03_Toilet - Close ceiling (board) incl. Cut-Outs	5	28-Aug-19	03-Sep-19	01-Apr-20	07-Apr-20	-173	-68														
4521	TW_L11_Z03_Toilet - Door Frame	2	18-Jul-19	19-Jul-19	01-Apr-20	02-Apr-20	-209	64														
3174	TW_L11_Z03_Toilet - Ceiling Finishes (painting)	3	04-Sep-19	07-Sep-19	06-Apr-20	08-Apr-20	-170	-68														
3148	TW_L11_Z03_Toilet - Wall finishes (bamboo planks)	14	31-Oct-19	15-Nov-19	16-Jun-20	03-Jul-20	-185	-11														
3502	TW_L11_Z03_Toilet - Cubicle Partition (with bamboo veneer)	6	30-Apr-19	07-May-19	16-Jun-20	22-Jun-20	-337	0														
4515	TW_L11_Z03_Toilet - All Other Finishes / Make Good & Clean	12	23-Nov-19	06-Dec-19	30-Jun-20	14-Jul-20	-176	-11														
4514	TW_L11_Z03_Toilet - Door / Ironmong	3	27-Nov-19	29-Nov-19	04-Jul-20	07-Jul-20	-176	-11														
10221	TW_L11_Z03_Toilet_HO1 - Toilets HANDOVER	0		06-Jun-20		14-Jul-20*	-31	74														
Level 12																						
ABWF & MEP Works																						
FoH Areas (Offices, Concourse & Lobbies) - TW_L12_Z01																						
3543	TW_L12_Z01_FoH - MEP 2nd fix	0	24-Apr-19	15-May-19	15-Jul-19 A	07-Mar-20 A	-240															
3544	TW_L12_Z01_FoH - MEP final fix	3	05-Jul-19	18-Jul-19	16-Dec-19 A	03-Apr-20	-211	-68														
3549	TW_L12_Z01_FoH - Wall finishes (painting or sealer)	3	19-Jun-19	24-Jun-19	20-Feb-20 A	03-Apr-20	-231	66														
3550	TW_L12_Z01_FoH - All Other Finishes / Make Good & Clean	12	18-Jul-19	31-Jul-19	01-Apr-20	15-Apr-20	-209	63														
10181	TW_L12_Z01_RF.AREA_HO1 - FoH Areas HANDOVER	0		09-May-20		09-May-20*	0	129														
BoH Plant Rooms, Corridors & Lift Lobbies - TW_L12_Z02																						
3558	TW_L12_Z02_BoH - MEP 2nd fix	0	31-Jul-19	20-Aug-19	22-Jul-19 A	04-Mar-20 A	-156															
3555	TW_L12_Z02_BoH - Wall & Ceiling Sealer	2	04-Mar-19	08-Mar-19	05-Aug-19 A	02-Apr-20	-319	-65														
3554	TW_L12_Z02_BoH - Misc Metal Works / Access Panels	9	21-Aug-19	27-Aug-19	14-Oct-19 A	11-Apr-20	-183	-43														
3566	TW_L12_Z02_BoH - Wall Epoxy/Emulsion Paint	3	21-Aug-19	29-Aug-19	09-Dec-19 A	03-Apr-20	-175	-68														
3568	TW_L12_Z02_BoH - MEP final fix	5	30-Aug-19	05-Sep-19	16-Dec-19 A	07-Apr-20	-171	-68														
3552	TW_L12_Z02_BoH - Door / Ironmong / Hose Reel Cabs	5	21-Aug-19	31-Aug-19	10-Feb-20 A	07-Apr-20	-175	-61														
3553	TW_L12_Z02_BoH - All Other Finishes / Make Good & Clean	9	02-Sep-19	16-Sep-19	14-Feb-20 A	15-Apr-20	-170	-43														
3564	TW_L12_Z02_BoH - Floor sealer	2	06-Sep-19	07-Sep-19	12-Mar-20 A	08-Apr-20	-170	-40														
10201	TW_L12_Z02_BoH_HO1 - Plant Rooms, Corridors & Lift Lobbies HANDOVER	0		09-May-20		09-May-20*	0	129														
Toilets - TW_L12_Z03																						
3651	TW_L12_Z03_Toilet - MEP 1st fix Ceiling	2	07-May-19	03-Jun-19	02-May-19 A	02-Apr-20	-247	-68														
3647	TW_L12_Z03_Toilet - Dry Wall Frame & One Side Board	0	23-Apr-19	30-Apr-19	01-Oct-19 A	04-Mar-20 A	-249															
3637	TW_L12_Z03_Toilet - MEP 1st fix Dry Wall	0	02-May-19	15-May-19	04-Nov-19 A	06-Mar-20 A	-239															
3639	TW_L12_Z03_Toilet - MEP 2nd fix	3	25-Jun-19	16-Jul-19	11-Nov-19 A	03-Apr-20	-213	-68														
3649	TW_L12_Z03_Toilet - Dry Wall Closing Board	9	16-May-19	21-May-19	02-Dec-19 A	11-Apr-20	-265	-48														
3641	TW_L12_Z03_Toilet - MEP final fix	4	29-Jul-19	03-Aug-19	16-Dec-19 A	06-Apr-20	-198	-68														
3645	TW_L12_Z03_Toilet - Sanitary ware & fittings	14	27-Nov-19	03-Dec-19	20-Dec-19 A	17-Apr-20	-107	-48														
3632	TW_L12_Z03_Toilet - Dry Wall Frame & Board - DR63 (external)	0	06-Jun-19	20-Jun-19	06-Feb-20 A	07-Mar-20 A	-210															
3635	TW_L12_Z03_Toilet - Ceiling Rods/ Grids	2	20-Jun-19	24-Jun-19	05-Mar-20 A	02-Apr-20	-230	-68														
3640	TW_L12_Z03_Toilet - Door Frame	2	04-Jun-19	05-Jun-19	06-Mar-20 A	03-Apr-20	-246	-39														
3633	TW_L12_Z03_Toilet - Door / Ironmong	2	04-Dec-19	05-Dec-19	13-Mar-20 A	17-Apr-20	-105	-48														
3644	TW_L12_Z03_Toilet - Wall finishes (tiling)	3	13-Nov-19	26-Nov-19	13-Mar-20 A	15-Apr-20	-111	-48														
3636	TW_L12_Z03_Toilet - Close ceiling (board) incl. Cut-Outs	3	17-Jul-19	23-Jul-19	02-Apr-20	06-Apr-20	-208	-68														
3650	TW_L12_Z03_Toilet - Ceiling Finishes (painting)	3	24-Jul-19	27-Jul-19	03-Apr-20	07-Apr-20	-205	-44														
3634	TW_L12_Z03_Toilet - All Other Finishes / Make Good & Clean	12	29-Nov-19	12-Dec-19	08-Apr-20	21-Apr-20	-102	-48														
10222	TW_L12_Z03_Toilet_HO1 - Toilets HANDOVER	0		09-May-20		09-May-20*	0	129														
Level 13																						
ABWF & MEP Works																						
FoH Areas (Offices, Concourse & Lobbies) - TW_L13_Z01																						
3780	TW_L13_Z01_FoH - MEP 1st fix	0	26-Feb-19	23-Apr-19	01-Jun-19 A	05-Mar-20 A	-256															
3786	TW_L13_Z01_FoH - MEP final fix	2	14-Aug-19	27-Aug-19	23-Dec-19 A	02-Apr-20	-176	-68														
3788	TW_L13_Z01_FoH - Wall finishes (painting or sealer)	3	21-Aug-19	26-Aug-19	13-Feb-20 A	03-Apr-20	-178	-37														
3790	TW_L13_Z01_FoH - All Other Finishes / Make Good & Clean	8	26-Aug-19	09-Sep-19	09-Mar-20 A	10-Apr-20	-172	-39														
3778	TW_L13_Z01_FoH - Ceiling Sealer	2	08-Dec-18	14-Dec-18	01-Apr-20*	02-Apr-20	-383	158														
10182	TW_L13_Z01_RF.AREA_HO1 - FoH Areas HANDOVER	0		09-May-20		09-May-20*	0	129														
BoH Plant Rooms, Corridors & Lift Lobbies - TW_L13_Z02																						
3575	TW_L13_Z02_BoH - MEP 1st fix	0	13-Apr-19	18-May-19	06-May-19 A	06-Mar-20 A	-236															
3574	TW_L13_Z02_BoH - Wall & Ceiling Sealer	3	06-Apr-19	11-Apr-19	12-Aug-19 A	03-Apr-20	-292	-66														
3584	TW_L13_Z02_BoH - Wall Plastering/ Plendering	2	29-Mar-19	15-Apr-19	15-Aug-19 A	02-Apr-20	-288	-68														
3578	TW_L13_Z02_BoH - Door Frame & Plastering of Perimeter Edges	2	20-May-19	28-May-19	16-Sep-19 A	02-Apr-20	-252	-68														
3573	TW_L13_Z02_BoH - Misc Metal Works / Access Panels	2	24-Aug-19	30-Aug-19	14-Oct-19 A	02-Apr-20	-173	-36														
3571	TW_L13_Z02_BoH - Door / Ironmong / Hose Reel Cabs	5	24-Aug-19	04-Sep-19	18-Nov-19 A	08																

ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	Finish Var	TF	2020													
									Mar	Apr	May	Jun	Jul	Aug	Sep	Oct						
4144	TW_L14_Z04_Kitchen - MEP final fix	6	28-May-19	31-May-19	23-Dec-19 A	10-Apr-20	-255	-41														
4146	TW_L14_Z04_Kitchen - All Other Finishes (DOOR) / Make Good & Clean	10	28-May-19	04-Jun-19	24-Feb-20 A	14-Apr-20	-255	-41														
4145	TW_L14_Z04_Kitchen - Ceiling Soffit Sealer	4	16-Apr-19	20-Apr-19	01-Apr-20	07-Apr-20	-286	-41														
10229	TW_L14_Z04_Kitchen_HO1 - BoH Kitchen HANDOVER	0		09-May-20		09-May-20*	0	129														
Level 15																						
ABWF & MEP Works																						
FoH Areas (Offices, Concourse & Lobbies) - TW_L15_Z01																						
3812	TW_L15_Z01_FoH - MEP final fix	4	05-Jul-19	18-Jul-19	23-Dec-19 A	06-Apr-20	-212	-68														
3814	TW_L15_Z01_FoH - Wall finishes (painting or sealer)	4	14-Jun-19	20-Jun-19	07-Feb-20 A	06-Apr-20	-236	-68														
3804	TW_L15_Z01_FoH - Ceiling Sealer	3	27-Dec-18	03-Jan-19	01-Apr-20*	03-Apr-20	-369	157														
3816	TW_L15_Z01_FoH - All Other Finishes / Make Good & Clean	12	17-Jul-19	31-Jul-19	08-Apr-20	22-Apr-20	-215	-49														
10185	TW_L15_Z01_RF Area_HO1 - FoH Areas HANDOVER	0		09-May-20		09-May-20*	0	129														
BoH Plant Rooms, Corridors & Lift Lobbies - TW_L15_Z02																						
3612	TW_L15_Z02_BoH - Wall & Ceiling Sealer	3	06-Apr-19	11-Apr-19	12-Aug-19 A	03-Apr-20	-292	-64														
3611	TW_L15_Z02_BoH - Misc Metal Works / Access Panels	4	20-Jun-19	27-Jun-19	14-Oct-19 A	06-Apr-20	-230	-41														
3609	TW_L15_Z02_BoH - Door / Ironmong / Hose Reel Cabs	5	20-Jun-19	03-Jul-19	20-Nov-19 A	07-Apr-20	-227	-61														
3623	TW_L15_Z02_BoH - Wall Epoxy/Emulsion Paint	4	20-Jun-19	09-Jul-19	02-Dec-19 A	06-Apr-20	-221	-68														
3625	TW_L15_Z02_BoH - MEP final fix	4	09-Jul-19	16-Jul-19	16-Dec-19 A	06-Apr-20	-215	-68														
3614	TW_L15_Z02_BoH - Seal Wall Opening	0	20-May-19	25-May-19	06-Jan-20 A	02-Mar-20 A	-226															
3619	TW_L15_Z02_BoH - Lobbies & Corr Close ceiling (board) incl. Cut-Outs	0	20-Jun-19	03-Jul-19	10-Feb-20 A	09-Mar-20 A	-202															
3621	TW_L15_Z02_BoH - Floor sealer	2	16-Jul-19	18-Jul-19	11-Mar-20 A	07-Apr-20	-214	-42														
3610	TW_L15_Z02_BoH - All Other Finishes / Make Good & Clean	12	11-Jul-19	25-Jul-19	01-Apr-20	15-Apr-20	-215	-43														
10205	TW_L15_Z02_BoH_HO1 - Plant Rooms, Corridors & Lift Lobbies HANDOVER	0		09-May-20		09-May-20*	0	129														
Toilets (FoH & BoH) - TW_L15_Z03																						
3711	TW_L15_Z03_Toilet - MEP 1st fix Ceiling	0	11-Jun-19	10-Jul-19	13-May-19 A	04-Mar-20 A	-192															
3701	TW_L15_Z03_Toilet - MEP final fix	0	02-Sep-19	09-Sep-19	16-Dec-19 A	14-Mar-20 A	-149															
3705	TW_L15_Z03_Toilet - Sanitary ware & fittings	5	14-Nov-19	23-Nov-19	23-Dec-19 A	07-Apr-20	-107	-40														
3700	TW_L15_Z03_Toilet - Door Frame	2	10-Jul-19	12-Jul-19	06-Feb-20 A	02-Apr-20	-216	-37														
3694	TW_L15_Z03_Toilet - All Other Finishes / Make Good & Clean	16	19-Nov-19	03-Dec-19	21-Feb-20 A	20-Apr-20	-110	-47														
3693	TW_L15_Z03_Toilet - Door / Ironmong	13	23-Nov-19	26-Nov-19	26-Feb-20 A	16-Apr-20	-113	-47														
10227	TW_L15_Z03_Toilet_HO1 - Toilets (FoH & BoH)HANDOVER	0		09-May-20		09-May-20*	0	129														
BoH Kitchen - TW_L15_Z04																						
4153	TW_L15_Z04_Kitchen - Wall & Floor Tiles	0	19-Jun-19	12-Jul-19	11-Nov-19 A	14-Mar-20 A	-199															
4154	TW_L15_Z04_Kitchen - MEP final fix	3	12-Jul-19	16-Jul-19	23-Dec-19 A	11-Apr-20	-220	-43														
4156	TW_L15_Z04_Kitchen - All Other Finishes (DOOR) / Make Good & Clean	10	16-Jul-19	23-Jul-19	27-Feb-20 A	15-Apr-20	-217	-43														
4155	TW_L15_Z04_Kitchen - Ceiling Soffit Sealer	6	12-Jul-19	19-Jul-19	01-Apr-20	08-Apr-20	-214	-43														
10230	TW_L15_Z04_Kitchen_HO1 - BoH Kitchen HANDOVER	0		09-May-20		09-May-20*	0	129														
Level 16																						
ABWF & MEP Works																						
FoH Areas (Offices, Concourse & Lobbies) - TW_L16_Z01																						
3825	TW_L16_Z01_FoH - MEP final fix	3	05-Jul-19	18-Jul-19	23-Dec-19 A	03-Apr-20	-211	-68														
3827	TW_L16_Z01_FoH - Wall finishes (painting or sealer)	3	15-Jun-19	21-Jun-19	08-Feb-20 A	03-Apr-20	-234	-68														
3817	TW_L16_Z01_FoH - Ceiling Sealer	3	08-Dec-18	14-Dec-18	01-Apr-20*	03-Apr-20	-384	-40														
3829	TW_L16_Z01_FoH - All Other Finishes / Make Good & Clean	12	17-Jul-19	31-Jul-19	08-Apr-20	22-Apr-20	-215	-49														
10186	TW_L16_Z01_RF Area_HO1 - FoH Areas HANDOVER	0		09-May-20		09-May-20*	0	129														
BoH Plant Rooms, Corridors & Lift Lobbies - TW_L16_Z02																						
3740	TW_L16_Z02_BoH - Door Frame & Plastering of Perimeter Edges	2	04-Jul-19	12-Jul-19	23-Sep-19 A	02-Apr-20	-215	-67														
3735	TW_L16_Z02_BoH - Misc Metal Works / Access Panels	5	25-Jul-19	31-Jul-19	14-Oct-19 A	07-Apr-20	-202	-42														
3733	TW_L16_Z02_BoH - Door / Ironmong / Hose Reel Cabs	3	25-Jul-19	05-Aug-19	20-Nov-19 A	10-Apr-20	-201	-64														
3738	TW_L16_Z02_BoH - Seal Wall Opening	0	04-Jul-19	10-Jul-19	16-Dec-19 A	03-Mar-20 A	-190															
3749	TW_L16_Z02_BoH - MEP final fix	3	12-Aug-19	17-Aug-19	23-Dec-19 A	03-Apr-20	-185	-68														
3743	TW_L16_Z02_BoH - Lobbies & Corr Close ceiling (board) incl. Cut-Outs	0	25-Jul-19	05-Aug-19	07-Feb-20 A	09-Mar-20 A	-173															
3747	TW_L16_Z02_BoH - Wall Epoxy/Emulsion Paint	3	25-Jul-19	10-Aug-19	03-Mar-20 A	03-Apr-20	-191	-68														
3745	TW_L16_Z02_BoH - Floor sealer	2	19-Aug-19	20-Aug-19	11-Mar-20 A	06-Apr-20	-184	-41														
3736	TW_L16_Z02_BoH - Wall & Ceiling Sealer	5	21-May-19	25-May-19	01-Apr-20*	07-Apr-20	-257	-64														
3734	TW_L16_Z02_BoH - All Other Finishes / Make Good & Clean	12	14-Aug-19	27-Aug-19	03-Apr-20	17-Apr-20	-188	-45														
10207	TW_L16_Z02_BoH_HO1 - Plant Rooms, Corridors & Lift Lobbies HANDOVER	0		09-May-20		09-May-20*	0	129														
Toilets (FoH & BoH) - TW_L16_Z03																						
3731	TW_L16_Z03_Toilet - MEP 1st fix Ceiling	0	11-Jun-19	03-Jul-19	02-May-19 A	04-Mar-20 A	-198															
3718	TW_L16_Z03_Toilet - Seal Wall Opening	0	21-May-19	23-May-19	14-Oct-19 A	05-Mar-20 A	-231															
3719	TW_L16_Z03_Toilet - MEP 2nd fix	0	23-Jul-19	06-Aug-19	11-Nov-19 A	09-Mar-20 A	-173															
3721	TW_L16_Z03_Toilet - MEP final fix	0	19-Aug-19	26-Aug-19	16-Dec-19 A	12-Mar-20 A	-159															
3725	TW_L16_Z03_Toilet - Sanitary ware & fittings	4	31-Oct-19	09-Nov-19	23-Dec-19 A	06-Apr-20	-118	-39														
3729	TW_L16_Z03_Toilet - Dry Wall Closing Board	0	20-Jun-19	29-Jun-19	23-Dec-19 A	04-Mar-20 A	-200															
3714	TW_L16_Z03_Toilet - All Other Finishes / Make Good & Clean	16	05-Nov-19	19-Nov-19	21-Feb-20 A	20-Apr-20	-122	-47														
3713	TW_L16_Z03_Toilet - Door / Ironmong	13	09-Nov-19	12-Nov-19	26-Feb-20 A	16-Apr-20	-125	-47														
10228	TW_L16_Z03_Toilet_HO1 - Toilets (FoH & BoH)HANDOVER	0		09-May-20		09-May-20*	0	129														
BoH Kitchen - TW_L16_Z04																						
4163	TW_L16_Z04_Kitchen - Wall & Floor Tiles	0	12-Jul-19	03-Aug-19	11-Nov-19 A	18-Mar-20 A	-183															
4166	TW_L16_Z04_Kitchen - All Other Finishes (DOOR) / Make Good & Clean	11	03-Aug-19	10-Aug-19	20-Nov-19 A	15-Apr-20	-201	-43														
4164	TW_L16_Z04_Kitchen - MEP final fix	3	03-Aug-19	07-Aug-19	23-Dec-19 A	11-Apr-20	-201	-43														
4165	TW_L16_Z04_Kitchen - Ceiling Soffit Sealer	6	23-May-19	30-May-19	01-Apr-20	08-Apr-20	-255	-43														
10231	TW_L16_Z04_Kitchen_HO1 - BoH Kitchen HANDOVER	0		09-May-20		09-May-20*	0	129														
Level RF																						
ABWF & MEP Works - TW_RF_Z01 & RF_Z02																						
4222	TW_RF_Z01 & RF_Z02 - Builders Works Plant Rooms	2	29-Mar-19	13-May-19	01-May-19 A	02-Apr-20	-266	-68														
4223	TW_RF_Z01 & RF_Z02 - MEP 1st fix Plant Rooms & Service Trenches	2	27-Apr-19	03-Jul-19	06-May-19 A	02-Apr-20	-224	-68														
4224	TW_RF_Z01 & RF_Z02 - MEP 2nd Fix Plant Rooms & Service Trenches	2	03-Jul-19	14-Aug-19	20-May-19 A	02-Apr-20	-188	-68														
4225	TW_RF_Z01 - MEP final fix Plant Rooms	3	14-Aug-19	11-Sep-19	23-Sep-19 A	03-Apr-20	-165	-68														
3833	TW_RF_Z01 & Z02 - All Other Finishes (DOOR) / Make Good & Clean	10	23-Sep-19	09-Oct-19	03-Jun-19 A	13-Apr-20	-151	-41														
10361	TW_RF_Z01 & RF_Z02_HO1 HANDOVER	0		09-May-20		09-May-20*	0	129														
Level URF																						
ABWF & MEP Works																						
5004	TW_URF - MEP 1st, 2nd & Final Fix	3	27-Jul-19	23-Sep-19	21-Oct-19 A	03-Apr-20	-156	-68														
EWS (External Wall System)																						

ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	Finish Var	TF	2020															
									Mar	Apr	May	Jun	Jul	Aug	Sep	Oct								
ABWF & MEP Works																								
FoH Areas (RDE, Passenger Lift Lobbies & Terrace) - RDE_L2_Z01																								
4780	RDE_L2_Z01_FoH - MEP 2nd fix	16	10-May-19	06-Jun-19	01-Apr-19 A	21-Apr-20	-259	-28																
4785	RDE_L2_Z01_FoH - Floor Sealer	30	17-Oct-19	22-Oct-19	27-Mar-20 A	08-May-20	-161	38																
4779a	RDE_L2_Z01_FoH - MEP 1st fix (Part 2) (after material hoist closure)	14			02-Apr-20*	18-Apr-20		-28																
4796	RDE_L2_Z01_FoH - Terrace Balustrade (base frame & glass)	18	27-Jun-19	04-Jul-19	07-Apr-20*	27-Apr-20	-242	15																
4781	RDE_L2_Z01_FoH - MEP final fix	18	24-Sep-19	16-Oct-19	15-Apr-20	06-May-20	-163	-28																
4782	RDE_L2_Z01_FoH - All Other Finishes / Make Good & Clean	12	15-Oct-19	29-Oct-19	02-May-20	15-May-20	-161	38																
10233	RDE_L2_Z01_FoH_HO1 - FoH Areas (RDE, Lift Lobbies & Terrace) HANDOVER	0		29-Aug-20		21-Sep-20		-20																
BoH Plant Rooms, Corridors, FS & Service Lift Lobbies - RDE_L2_Z02																								
4758	RDE_L2_Z02_BoH - Wet Trades (plaster/screed/C&W_sealer/undercoat)	7	18-Mar-19	02-Apr-19	19-Nov-18 A	09-Apr-20	-303	21																
4753	RDE_L2_Z02_BoH - MEP 2nd fix	9	03-Jul-19	23-Jul-19	01-Apr-19 A	11-Apr-20	-213	-18																
4750	RDE_L2_Z02_BoH - Misc Metal Works / Access Panels	22	24-Jul-19	30-Jul-19	01-Aug-19 A	02-May-20	-223	12																
4752	RDE_L2_Z02_BoH - Seal Wall Opening	13	03-Jul-19	09-Jul-19	01-Aug-19 A	16-Apr-20	-229	21																
4754	RDE_L2_Z02_BoH - Door Frame & Plastering of Perimeter Edges	11	03-Jul-19	09-Jul-19	16-Sep-19 A	14-Apr-20	-227	12																
4748	RDE_L2_Z02_BoH - Door / Ironmong / Hose Reel Cabs	15	24-Jul-19	01-Aug-19	23-Sep-19 A	18-Apr-20	-211	12																
4756	RDE_L2_Z02_BoH - Lobbies & Corr Close ceiling (board) incl. Cut-Outs	0	24-Jul-19	01-Aug-19	23-Sep-19 A	14-Mar-20 A	-182																	
4759	RDE_L2_Z02_BoH - Wall epoxy/ emulsion paint final coat	28	02-Aug-19	06-Aug-19	11-Nov-19 A	07-May-20	-221	36																
4757	RDE_L2_Z02_BoH - Floor sealer	32	06-Aug-19	07-Aug-19	25-Nov-19 A	12-May-20	-224	36																
4760	RDE_L2_Z02_BoH - MEP final fix	12	30-Sep-19	15-Oct-19	10-Apr-20	23-Apr-20	-154	-18																
4749	RDE_L2_Z02_BoH - All Other Finishes / Make Good & Clean	5	09-Oct-19	22-Oct-19	13-May-20	19-May-20	-168	36																
10277	RDE_L2_Z02_BoH_HO1 - Plant Rms, Corr, FS & Serv. Lift Lobb HANDOVER	0		29-Aug-20		21-Sep-20		-20																
Toilets - RDE_L2_Z03																								
4777	RDE_L2_Z03_Toilet - MEP 1st fix Ceiling	5	03-Jun-19	27-Jun-19	04-Mar-19 A	07-Apr-20	-230	-39																
4767	RDE_L2_Z03_Toilet - MEP 2nd fix	14	17-Jul-19	30-Jul-19	01-Apr-19 A	17-Apr-20	-212	-39																
4773	RDE_L2_Z03_Toilet - Cubicle partitions & sanitary ware & fittings	48	19-Sep-19	27-Sep-19	17-Jun-19 A	28-May-20	-196	-41																
10023	RDE_L2_Z03_Toilet - Dry Wall Frame & One Side Board	3			18-Nov-19 A	03-Apr-20		-26																
4772a	RDE_L2_Z03_Toilet - Conc flr curing, polishing & install protection	28			03-Feb-20 A	07-May-20		-39																
4772	RDE_L2_Z03_Toilet - Finishes Walls	35	02-Sep-19	18-Sep-19	14-Mar-20 A	19-May-20	-196	-39																
10024	RDE_L2_Z03_Toilet - MEP 1st fix Dry Wall	11			02-Apr-20*	15-Apr-20		-31																
4764	RDE_L2_Z03_Toilet - Ceiling Rods/ Grids	5	11-Jul-19	16-Jul-19	08-Apr-20	13-Apr-20	-220	-39																
4766	RDE_L2_Z03_Toilet - Seal Wall Opening	3	11-Dec-18	13-Dec-18	08-Apr-20	10-Apr-20	-390	-39																
4768	RDE_L2_Z03_Toilet - Door Frame	2	28-Jun-19	29-Jun-19	08-Apr-20	09-Apr-20	-230	60																
4765	RDE_L2_Z03_Toilet - Close ceiling (board) incl. Cut-Outs	8	31-Jul-19	08-Aug-19	14-Apr-20	22-Apr-20	-208	-39																
10025	RDE_L2_Z03_Toilet - Dry Wall Cbsing Board	6			14-Apr-20	20-Apr-20		-31																
4769	RDE_L2_Z03_Toilet - MEP final fix	6	24-Sep-19	30-Sep-19	23-Apr-20	29-Apr-20	-170	-39																
4776	RDE_L2_Z03_Toilet - Ceiling finishes final coat	3	09-Aug-19	12-Aug-19	23-Apr-20	25-Apr-20	-208	-26																
4762	RDE_L2_Z03_Toilet - Door / Ironmong	2	28-Sep-19	30-Sep-19	28-May-20	29-May-20	-195	20																
4763	RDE_L2_Z03_Toilet - All Other Finishes / Make Good & Clean	6	02-Oct-19	09-Oct-19	30-May-20	05-Jun-20	-195	20																
10320	RDE_L2_Z03_Toilet_HO1 - Toilets HANDOVER	0		29-Aug-20		21-Sep-20		-20																
Kitchen - RDE_L2_Z04																								
4795	RDE_L2_Z04_Kitchen - Install door & ironmongery / Make Good & Clean	14	24-Sep-19	30-Sep-19	12-Aug-19 A	17-Apr-20	-160	61																
4778	RDE_L2_Z04_Kitchen - MEP final fix	3	24-Sep-19	26-Sep-19	08-Apr-20	10-Apr-20	-157	-19																
4837	RDE_L2_Z04_Kitchen_HO1 - Kitchen HANDOVER	0		29-Nov-18		21-Sep-20		-539																
Level 3																								
ABWF & MEP Works																								
FoH Areas (RDE, Passenger Lift Lobbies & Terrace) - RDE_L3_Z01																								
4830	RDE_L3_Z01_FoH - MEP 2nd fix	19	10-May-19	06-Jun-19	01-Apr-19 A	23-Apr-20	-261	-28																
4835	RDE_L3_Z01_FoH - Floor Sealer	0	17-Oct-19	22-Oct-19	24-Feb-20 A	28-Mar-20 A	-128																	
4829a	RDE_L3_Z01_FoH - MEP 1st fix (Part 2) (after material hoist closure)	15			02-Apr-20*	20-Apr-20		-28																
4831	RDE_L3_Z01_FoH - MEP final fix	18	24-Sep-19	16-Oct-19	15-Apr-20	06-May-20	-163	-28																
4832	RDE_L3_Z01_FoH - All Other Finishes / Make Good & Clean	12	15-Oct-19	29-Oct-19	29-Apr-20	13-May-20	-159	40																
10234	RDE_L3_Z01_FoH_HO1 - FoH Areas (RDE, Lift Lobbies & Terrace) HANDOVER	0		29-Aug-20		21-Sep-20		-20																
BoH Plant Rooms, Corridors, FS & Service Lift Lobbies - RDE_L3_Z02																								
4808	RDE_L3_Z02_BoH - Wet Trades (plaster/screed/C&W_sealer/undercoat)	7	18-Mar-19	02-Apr-19	19-Nov-18 A	09-Apr-20	-303	25																
4803	RDE_L3_Z02_BoH - MEP 2nd fix	7	03-Jul-19	23-Jul-19	01-Apr-19 A	09-Apr-20	-211	-16																
4800	RDE_L3_Z02_BoH - Misc Metal Works / Access Panels	26	24-Jul-19	30-Jul-19	01-Aug-19 A	04-May-20	-224	11																
4802	RDE_L3_Z02_BoH - Seal Wall Opening	9	03-Jul-19	09-Jul-19	01-Aug-19 A	11-Apr-20	-225	25																
4806	RDE_L3_Z02_BoH - Lobbies & Corr Close ceiling (board) incl. Cut-Outs	11	31-Jul-19	08-Aug-19	23-Sep-19 A	14-Apr-20	-201	26																
4798	RDE_L3_Z02_BoH - Door / Ironmong / Hose Reel Cabs	9	24-Jul-19	01-Aug-19	04-Nov-19 A	11-Apr-20	-205	18																
4810	RDE_L3_Z02_BoH - MEP final fix	12	30-Sep-19	15-Oct-19	08-Apr-20	21-Apr-20	-152	-16																
4799	RDE_L3_Z02_BoH - All Other Finishes / Make Good & Clean	12	09-Oct-19	22-Oct-19	30-Apr-20	15-May-20	-165	39																
4809	RDE_L3_Z02_BoH - Wall epoxy/ emulsion paint final coat	4	09-Aug-19	13-Aug-19	02-May-20	07-May-20	-215	39																
4807	RDE_L3_Z02_BoH - Floor sealer	2	13-Aug-19	14-Aug-19	06-May-20	08-May-20	-215	39																
10279	RDE_L3_Z02_BoH_HO1 - Plant Rms, Corr, FS & Serv. Lift Lobb HANDOVER	0		29-Aug-20		21-Sep-20		-20																
Toilets - RDE_L3_Z03																								
4817	RDE_L3_Z03_Toilet - MEP 2nd fix	0	17-Jul-19	30-Jul-19	09-Apr-19 A	10-Mar-20 A	-180																	
4823	RDE_L3_Z03_Toilet - Cubicle partitions & sanitary ware & fittings	0	08-Oct-19	16-Oct-19	17-Jun-19 A	07-Mar-20 A	-114																	
4818	RDE_L3_Z03_Toilet - Door Frame	2	28-Jun-19	29-Jun-19	12-Aug-19 A	02-Apr-20	-225	63																
4815	RDE_L3_Z03_Toilet - Close ceiling (board) incl. Cut-Outs	0	31-Jul-19	08-Aug-19	01-Nov-19 A	14-Mar-20 A	-176																	
4812	RDE_L3_Z03_Toilet - Door / Ironmong	6	17-Oct-19	18-Oct-19	11-Nov-19 A	08-Apr-20	-138	63																
4819	RDE_L3_Z03_Toilet - MEP final fix	10	08-Oct-19	14-Oct-19	20-Jan-20 A	14-Apr-20	-147	-10																
4826	RDE_L3_Z03_Toilet - Ceiling finishes final coat	3	09-Aug-19	12-Aug-19	03-Apr-20*	07-Apr-20	-192	64																
4813	RDE_L3_Z03_Toilet - All Other Finishes / Make Good & Clean	6	19-Oct-19	25-Oct-19	20-Apr-20	25-Apr-20	-147	54																
10322	RDE_L3_Z03_Toilet_HO1 - Toilets HANDOVER	0		29-Aug-20		21-Sep-20		-20																
Kitchen - RDE_L3_Z04																								
4840	RDE_L3_Z04_Kitchen - MEP 2nd fix	8	10-May-19	16-May-19	09-Apr-19 A	10-Apr-20	-268	-21																
4844	RDE_L3_Z04_Kitchen - Install door & ironmongeries / Make Good & Clean	16	24-Sep-19	30-Sep-19	19-Aug-19 A																			

ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	Finish Var	TF	2020													
									Mar	Apr	Qtr 2		Jun	Jul	Qtr 3		Sep	Qtr 4				
											May				Aug		Oct					
4909	RDE_L5_Z02_BoH - MEP final fix	12	16-Oct-19	29-Oct-19	06-Apr-20	18-Apr-20	-138	-26														
4898	RDE_L5_Z02_BoH - All Other Finishes / Make Good & Clean	12	23-Oct-19	05-Nov-19	30-Apr-20	15-May-20	-153	39														
4906	RDE_L5_Z02_BoH - Floor sealer	2	13-Aug-19	05-Aug-19	06-May-20	08-May-20	-215	39														
10282	RDE_L5_Z02_BoH_HO1 - Plant Rms, Corr, FS Lift Lobb HANDOVER	0		01-Aug-20		29-Aug-20	-25	34														
Toilets - RDE_L5_Z03																						
4926	RDE_L5_Z03_Toilet - MEP 1st fix Ceiling	3	10-Jun-19	04-Jul-19	03-Jun-19 A	07-Apr-20	-225	-23														
4916	RDE_L5_Z03_Toilet - MEP 2nd fix	10	18-Jul-19	31-Jul-19	17-Jun-19 A	14-Apr-20	-208	-16														
4922	RDE_L5_Z03_Toilet - Cubicle partitions & sanitary ware & fittings	6	28-Sep-19	05-Oct-19	15-Jul-19 A	08-Apr-20	-148	1														
4913	RDE_L5_Z03_Toilet - Ceiling Rods/ Grids	0	13-Jul-19	17-Jul-19	07-Oct-19 A	07-Mar-20 A	-189															
4914	RDE_L5_Z03_Toilet - Close ceiling (board) incl. Cut-Outs	0	01-Aug-19	08-Aug-19	04-Nov-19 A	18-Mar-20 A	-179															
4917	RDE_L5_Z03_Toilet - Door Frame	2	05-Jul-19	06-Jul-19	02-Apr-20*	03-Apr-20	-221	-23														
4925	RDE_L5_Z03_Toilet - Ceiling finishes final coat	3	09-Aug-19	12-Aug-19	02-Apr-20*	06-Apr-20	-191	65														
4911	RDE_L5_Z03_Toilet - Door / Ironmong	2	08-Oct-19	09-Oct-19	09-Apr-20	10-Apr-20	-148	61														
4918	RDE_L5_Z03_Toilet - MEP final fix	6	28-Sep-19	05-Oct-19	15-Apr-20	21-Apr-20	-159	-16														
4912	RDE_L5_Z03_Toilet - All Other Finishes / Make Good & Clean	6	10-Oct-19	16-Oct-19	22-Apr-20	28-Apr-20	-157	52														
10328	RDE_L5_Z03_Toilet_HO1 - Toilets HANDOVER	0		01-Aug-20		29-Aug-20	-25	34														
Level 6																						
ABWF & MEP Works																						
FoH Areas (Office/ OACF, Passenger Lift Lobbies & Terrace) - RDE_L6_Z01																						
4593	RDE_L6_Z01_FoH - Ceiling/Wall/Columns Sealer	2	10-Nov-18	15-Nov-18	12-Apr-19 A	02-Apr-20	-408	-22														
4594	RDE_L6_Z01_FoH - Wall/Columns Protection	4	16-Nov-18	22-Nov-18	02-May-19 A	06-Apr-20	-404	-22														
4589	RDE_L6_Z01_FoH - MEP 2nd fix	14	06-Jun-19	05-Jul-19	24-Jun-19 A	17-Apr-20	-233	-18														
4595	RDE_L6_Z01_FoH - Raised Floor	18	17-Oct-19	22-Oct-19	11-Feb-20 A	25-Apr-20	-151	48														
4588a	RDE_L6_Z01_FoH - MEP 1st fix (Part 2) (after material hoist closure)	11			02-Apr-20*	15-Apr-20	-30															
4590	RDE_L6_Z01_FoH - MEP final fix	17	24-Sep-19	16-Oct-19	03-Apr-20	23-Apr-20	-153	-18														
4589a	RDE_L6_Z01_FoH - Raised Floor MEP Containment/Wiring MEP 1st, 2nd fix	12			06-Apr-20	18-Apr-20	48															
4592	RDE_L6_Z01_FoH - All Other Finishes / Make Good & Clean	12	15-Oct-19	29-Oct-19	20-Apr-20	04-May-20	-151	48														
10237	RDE_L6_Z01_FoH_HO1 - FoH Areas (Office/ OACF, Lift Lobb & Terrace) HANDOVER	0		01-Aug-20		29-Aug-20	-25	34														
BoH Plant Rooms, Corridors, FS Lift Lobby - RDE_L6_Z02																						
4568	RDE_L6_Z02_BoH - Wet Trades (plaster/screed/C&W_sealer/undercoat)	9	01-Apr-19	17-Apr-19	11-Mar-19 A	11-Apr-20	-293	56														
4560	RDE_L6_Z02_BoH - Seal Wall Opening	5	09-Jul-19	15-Jul-19	05-Aug-19 A	07-Apr-20	-216	29														
4561	RDE_L6_Z02_BoH - MEP 2nd fix	13	09-Jul-19	29-Jul-19	02-Sep-19 A	16-Apr-20	-212	-20														
4562	RDE_L6_Z02_BoH - Door Frame & Plastering of Perimeter Edges	7	09-Jul-19	13-Jul-19	16-Sep-19 A	09-Apr-20	-219	17														
4557	RDE_L6_Z02_BoH - Misc Metal Works / Access Panels	26	30-Jul-19	05-Aug-19	02-Oct-19 A	04-May-20	-219	11														
4564	RDE_L6_Z02_BoH - Lobbies & Corr Ceiling Rods/ Grids	9	09-Jul-19	12-Jul-19	04-Nov-19 A	11-Apr-20	-222	-20														
4555	RDE_L6_Z02_BoH - Door / Ironmong / Hose Reel Cabs	15	30-Jul-19	06-Aug-19	11-Nov-19 A	20-Apr-20	-208	11														
4565	RDE_L6_Z02_BoH - Lobbies & Corr Close ceiling (board) incl. Cut-Outs	15	30-Jul-19	02-Aug-19	11-Nov-19 A	20-Apr-20	-211	21														
4570	RDE_L6_Z02_BoH - MEP final fix	12	16-Oct-19	29-Oct-19	13-Apr-20	25-Apr-20	-144	-20														
4569	RDE_L6_Z02_BoH - Wall epoxy/ emulsion paint final coat	3	30-Jul-19	01-Aug-19	21-Apr-20	23-Apr-20	-215	49														
4567	RDE_L6_Z02_BoH - Floor sealer	2	01-Aug-19	02-Aug-19	23-Apr-20	24-Apr-20	-215	49														
4556	RDE_L6_Z02_BoH - All Other Finishes / Make Good & Clean	12	23-Oct-19	05-Nov-19	25-Apr-20	11-May-20	-149	43														
10284	RDE_L6_Z02_BoH_HO1 - Plant Rms, Corr, FS Lift Lobb HANDOVER	0		01-Aug-20		29-Aug-20	-25	34														
Toilets - RDE_L6_Z03																						
4587	RDE_L6_Z03_Toilet - MEP 1st fix Ceiling	7	10-Jun-19	04-Jul-19	14-Nov-19 A	09-Apr-20	-227	-33														
4583	RDE_L6_Z03_Toilet - Cubicle partitions & sanitary ware & fittings	20	12-Oct-19	18-Oct-19	25-Nov-19 A	24-Apr-20	-152	-13														
4577	RDE_L6_Z03_Toilet - MEP 2nd fix	17	18-Jul-19	31-Jul-19	13-Jan-20 A	21-Apr-20	-214	-31														
10002	RDE_L6_Z03_Toilet - Dry Wall Frame & One Side Board	10			25-Mar-20 A	13-Apr-20	-33															
4585	RDE_L6_Z03_Toilet - MEP 1st fix Dry Wall	8	20-Feb-19	28-Feb-19	07-Apr-20	15-Apr-20	-336	-33														
4578	RDE_L6_Z03_Toilet - Door Frame	2	05-Jul-19	06-Jul-19	10-Apr-20	11-Apr-20	-227	-26														
10003	RDE_L6_Z03_Toilet - Dry Wall Cbsing Board	6			14-Apr-20	20-Apr-20	-33															
4576	RDE_L6_Z03_Toilet - Seal Wall Opening	3	01-Mar-19	04-Mar-19	21-Apr-20	23-Apr-20	-340	-33														
4574	RDE_L6_Z03_Toilet - Ceiling Rods/ Grids	4	13-Jul-19	17-Jul-19	24-Apr-20	28-Apr-20	-232	-33														
4572	RDE_L6_Z03_Toilet - Door / Ironmong	2	19-Oct-19	21-Oct-19	25-Apr-20	27-Apr-20	-152	47														
4575	RDE_L6_Z03_Toilet - Close ceiling (board) incl. Cut-Outs	7	01-Aug-19	08-Aug-19	27-Apr-20	05-May-20	-218	-33														
4579	RDE_L6_Z03_Toilet - MEP final fix	6	12-Oct-19	18-Oct-19	06-May-20	12-May-20	-166	-33														
4586	RDE_L6_Z03_Toilet - Ceiling finishes final coat	3	09-Aug-19	12-Aug-19	06-May-20	08-May-20	-218	38														
4573	RDE_L6_Z03_Toilet - All Other Finishes / Make Good & Clean	6	22-Oct-19	28-Oct-19	13-May-20	19-May-20	-164	35														
10330	RDE_L6_Z03_Toilet_HO1 - Toilets HANDOVER	0		01-Aug-20		29-Aug-20	-25	34														
Level 7																						
ABWF & MEP Works																						
FoH Areas (Office/ OACF, Passenger Lift Lobbies & Terrace) - RDE_L7_Z01																						
4966	RDE_L7_Z01_FoH - MEP 1st fix (Part 1)	0	16-Jan-19	05-Mar-19	03-Jun-19 A	03-Mar-20 A	-296															
4973	RDE_L7_Z01_FoH - Terrace Balustrade (base frame & glass)	3	06-Jul-19	12-Jul-19	03-Jun-19 A	03-Apr-20	-216	34														
4967	RDE_L7_Z01_FoH - MEP 2nd fix	20	06-Jun-19	05-Jul-19	09-Sep-19 A	24-Apr-20	-239	-37														
4972	RDE_L7_Z01_FoH - Raised Floor	22	17-Oct-19	22-Oct-19	14-Feb-20 A	05-May-20	-158	-29														
4966a	RDE_L7_Z01_FoH - MEP 1st fix (Part 2) (after material hoist closure)	17			02-Apr-20*	22-Apr-20	-37															
4967a	RDE_L7_Z01_FoH - Raised Floor MEP Containment/Wiring MEP 1st, 2nd fix	12			16-Apr-20	29-Apr-20	-29															
4968	RDE_L7_Z01_FoH - MEP final fix	18	24-Sep-19	16-Oct-19	25-Apr-20	16-May-20	-172	-37														
4969	RDE_L7_Z01_FoH - All Other Finishes / Make Good & Clean	12	15-Oct-19	29-Oct-19	11-May-20	23-May-20	-168	31														
10238	RDE_L7_Z01_FoH_HO1 - FoH Areas (Office/ OACF, Lift Lobb & Terrace) HANDOVER	0		01-Aug-20		29-Aug-20	-25	34														
BoH Plant Rooms, Corridors, FS Lift Lobby - RDE_L7_Z02																						
4946	RDE_L7_Z02_BoH - Wet Trades (plaster/screed/C&W_sealer/undercoat)	3	01-Apr-19	17-Apr-19	11-Mar-19 A	03-Apr-20	-287	-26														
4939	RDE_L7_Z02_BoH - MEP 1st fix	9	10-Jun-19	08-Jul-19	16-Apr-19 A	11-Apr-20	-226	-26														
4941	RDE_L7_Z02_BoH - MEP 2nd fix	19	09-Jul-19	29-Jul-19	09-Sep-19 A	23-Apr-20	-218	-26														
4942	RDE_L7_Z02_BoH - Door Frame & Plastering of Perimeter Edges	13																				

ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	Finish Var	TF	2020												
									Mar	Apr	May	Jun	Jul	Aug	Sep	Oct					
2124	RDE_POW - Final Fix Completed @ All Levels - Kitchen	0		24-Oct-19		24-Apr-20	-147	140													
2128	RDE_POW - Power Available to FSD Lifts	0		18-Jan-20		05-May-20	-83	-30													
2129	RDE_POW - Test FSD Lifts with Permanenet Power	3	20-Jan-20	20-Jan-20	06-May-20	08-May-20	-86	-30													
2126	RDE_POW - Final Fix Completed @ All Levels - FoH Areas	0		30-Dec-19		08-Jun-20	-128	103													
7662	RDE_POW - Power & Distribution Functional Components Test	36	09-Jan-20	27-Feb-20	10-Jun-20	23-Jul-20	-122	-69													
2127	RDE_POW - Final Fix Completed @ All Levels - Toilets	0		28-Dec-19		22-Jun-20	-141	91													
2130	RDE_POW - POWER AVAILABLE TO ALL LEVELS & ZONES IN RDE TOWER (for I	0		06-Feb-20		02-Jul-20	-122	84													
2131	RDE_POW - Final Fix Completed @ All Levels - BoH	0		06-Feb-20		02-Jul-20	-122	-39													
7659	RDE_POW - BMS Systems Test	24	14-Feb-20	12-Mar-20	10-Jul-20	06-Aug-20	-122	-69													
7653	RDE_POW - UPS T&C	12	28-Feb-20	12-Mar-20	24-Jul-20	06-Aug-20	-122	-69													
7657	RDE_POW - IT Systems Test	12	28-Feb-20	12-Mar-20	24-Jul-20	06-Aug-20	-122	-69													
7658	RDE_POW - AV Systems Test	12	28-Feb-20	12-Mar-20	24-Jul-20	06-Aug-20	-122	-69													
Plumbing & Drainage																					
7649	RDE_P&D - Hydraulic Tests P&D	48	15-Nov-19	11-Jan-20	30-Dec-19 A	11-Jun-20	-121	-29													
7649a	RDE_P&D - Equipment Test & Pumps Rotation Checks	24			15-May-20	11-Jun-20		-23													
Fire Services																					
7650	RDE_FS - FS Hydraulic Test Pipe Works	48	29-Nov-19	11-Jan-20	21-Nov-19 A	09-Jun-20	-119	-58													
7663	RDE_FS - FS Power & Controls Insulation/Continuity/Polarity Checks	30	24-Dec-19	13-Feb-20	10-Jun-20	16-Jul-20	-128	-69													
7665	RDE_FS - Sprinkler System Test	24	16-Jan-20	20-Feb-20	10-Jun-20	09-Jul-20	-116	-55													
7666	RDE_FS - AFA Devices Loop & Functional Test	22	23-Jan-20	27-Feb-20	30-Jun-20	25-Jul-20	-124	-69													
7667	RDE_FS - Genset Test	12	07-Feb-20	20-Feb-20	10-Jul-20	23-Jul-20	-128	-67													
EXTERNAL WORKS																					
Construction																					
IPA - Portion 1																					
4275	EXT_Port1 - EVA granite bett paving finishing (Defer start date to use as Temp Haul	18	01-Aug-19	28-Aug-19	01-Apr-20*	22-Apr-20	-191	-49													
IPA - Portion 4																					
4307	EXT_Port4 - EVA granite bett paving	21	01-Aug-19	28-Aug-19	16-Sep-19 A	25-Apr-20	-194	-52													
Along Buildings boundary																					
4268	EXT_ABB - Construct Drainage slot & outlet along footpath	9	22-Oct-19	02-Dec-19	24-Feb-20 A	11-Apr-20	-103	-58													
4269	EXT_ABB - Reinstatement of footpath w/ U channel	18	03-Dec-19	15-Jan-20	01-Apr-20*	22-Apr-20	-76	-49													
4267	EXT_ABB - Construct new road Junct. w/ sprinkler pipes/FTNS	12	16-Aug-19	12-Sep-19	16-Sep-19 A	15-Apr-20	-172	-67													
4266	EXT_ABB - Ext'l storm drainage (along M+ & Lyric Theatre)	9	11-Sep-19	25-Oct-19	16-Sep-19 A	11-Apr-20	-135	-58													
5003	EXT_ABB - (M+/1'-11+ & A-M+/6'-1 Lay granite bett paving	21	29-Aug-19	23-Nov-19	17-Oct-19 A	25-Apr-20	-122	-56													
5001	EXT_ABB - A-M+/13+-14+ Lay and compact sub-base	18	29-Mar-19	27-Jun-19	22-Nov-19 A	22-Apr-20	-243	48													
5002	EXT_ABB - A-M+/13+-14+ Lay concrete planks	24	01-Nov-19	27-Dec-19	04-Dec-19 A	04-May-20	-100	48													
COMPLETION STATUTORY INSPECTIONS & APPROVALS																					
Basement, Podium, M+ Tower & CSF Building																					
CLP/HKE; EMSD																					
1756	Lifts & Esc - EMSD Inspection	21	30-Nov-19	28-Dec-19	06-Jan-20 A	25-Apr-20	-93	-66													
1177	Lifts & Esc - Obtain Form 6 from EMSD	6	30-Dec-19	06-Jan-20	07-May-20	13-May-20	-101	-66													
7427	Fireman's Lifts - EMSD Inspection	22	21-Sep-19	22-Oct-19	06-Jan-20 A	29-Apr-20	-154	-58													
7426	Fireman's Lifts - Submit Form 5 to EMSD	0		06-Sep-19		13-Mar-20 A	-150														
7428	Fireman's Lifts - Obtain Form 6 from EMSD	34	22-Oct-19	29-Oct-19	13-Mar-20 A	14-May-20	-160	-58													
DSD																					
1170	Drainage - Tech Audit Application HBP1 to DSD	0		18-Nov-19		03-Apr-20	-109	-58													
1167	Drainage - Last Manhole Connection	12	03-Dec-19	16-Dec-19	13-Apr-20	25-Apr-20	-103	-58													
1168	Drainage - DSD Audit Checked	12	03-Dec-19	16-Dec-19	13-Apr-20	25-Apr-20	-103	-58													
1169	Drainage - Inspection of Last Manhole	6	17-Dec-19	23-Dec-19	27-Apr-20	04-May-20	-103	-58													
WSD																					
1173	Plumbing/Potable/Flushing Water - Submit Form WW 0132 to WSD	0	22-Oct-19	28-Oct-19	16-Mar-20 A	21-Mar-20 A	-116														
1171	Plumbing/Potable/Flushing Water - Submit Form WW046 Part IV	0		24-Feb-20		16-Apr-20*	-44	-50													
1190	Plumbing/Potable/Flushing Water - WSD Inspection (Same as 1172)	18	05-Nov-19	16-Dec-19	29-Apr-20	20-May-20	-123	-75													
1172	Plumbing/Potable/Flushing Water - W.A. Inspection	12	15-Oct-19	21-Oct-19	04-May-20*	16-May-20	-168	-75													
1174	Plumbing/Potable/Flushing Water - Water Connection & Water Meter Installaiton	3	29-Oct-19	04-Nov-19	18-May-20	20-May-20	-159	-75													
1178	Plumbing/Potable/Flushing Water - Obtain WSD Water Certificate	3	17-Dec-19	23-Dec-19	21-May-20	23-May-20	-120	-75													
7454	FS Water - W.A. Inspection	6	26-Oct-19	01-Nov-19	01-Apr-20	08-Apr-20	-126	-37													
7455	FS Water - Water Connection & Water Meter Installaiton	6	02-Nov-19	08-Nov-19	09-Apr-20	15-Apr-20	-126	-37													
7452	FS Water - Submit Form WW046 Part IV	0		08-Nov-19		15-Apr-20	-126	-37													
WSD	FS Water - WSD Inspection	12	09-Nov-19	06-Dec-19	16-Apr-20	29-Apr-20	-114	-37													
7457	FS Water - Obtain WSD Water Certificate	6	07-Dec-19	13-Dec-19	30-Apr-20	07-May-20	-114	-37													
FSD & BD																					
FSD2a	FSD - FSD Informal Pre-inspection (at FSD Discretion. No separate form 501 allowec	0	19-Dec-19	10-Jan-20	09-Mar-20 A	28-Mar-20 A	-60														
1183	FSD - Submit Form 314 & Form 501 for Basement/Podium/M+ Tower (concurrent wtl	0		05-Nov-19		27-Apr-20*	-139	-42													
FSD2	FSD - FSD MAIN Inspection/Re-Inspection/Remedial Works - BASEMENT & PODIUM	49	20-Dec-19	23-Mar-20	06-May-20	03-Jul-20	-84	-84													
FSD2b	FSD - FSD MAIN Inspection/Re-Inspection/Remedial Works - M+ TOWER	49	03-Jan-20	23-Jan-20	06-May-20	03-Jul-20	-128	-84													
1185	FSD - Obtain Fire Certification FS172	6	24-Mar-20	30-Mar-20	04-Jul-20	10-Jul-20	-84	-84													
1187	BD - Submit Form BA 13 to BD	0		18-Jan-20		06-May-20	-84	-84													
BD	BD - Inspection/Re-Inspection	24	25-Feb-20	23-Mar-20	04-Jun-20	03-Jul-20	-84	-84													
1189	BD - Obtain OP for Basement/Podium/M+/CSF	6	24-Mar-20	30-Mar-20	04-Jul-20	10-Jul-20	-84	-84													
1192	POD/M+ Tower - Miscellaneous Post OP Works	76	01-Apr-20	30-Jun-20	11-Jul-20	09-Oct-20	-84	-84													
RDE Building																					
CLP/HKE; EMSD																					
7478a	RDE_Fireman's Lifts - Submit F5 & EMSD Inspection LT_55	9			16-Mar-20 A	11-Apr-20		-66													
7478b	RDE_Fireman's Lifts - EMSD Issue Use Permit (F6) LT_55	6			07-Apr-20	13-Apr-20		-66													
7475	RDE_Lifts & Esc - EMSD Inspection	18	14-Feb-20	27-Feb-20	24-Mar-20 A	30-May-20	-78	-25													
7476	RDE_Lifts & Esc - Obtain Form 6 from EMSD	4	28-Feb-20	05-Mar-20	30-Mar-20 A	13-Jun-20	-84	-25													
7474	RDE_Lifts & Esc - Submit Form 5 to EMSD	0		22-Jan-20		30-Apr-20*	-77	-12													
7477	RDE_Fireman's Lifts - Submit Form 5 to EMSD	0		08-Jan-20		16-Mar-20 A	-50														
7478	RDE_Fireman's Lifts - EMSD Inspection	12	23-Jan-20	13-Feb-20	09-May-20	22-May-20	-83	-30													
7479	RDE_Fireman's Lifts - Obtain Form 6 from EMSD	6	14-Feb-20	20-Feb-20	23-May-20	29-May-20	-83	-30													
DSD																					
7469	RDE_Drainage - Tech Audit Application HBP1 to DSD	0		18-Oct-19		02-Apr-20*	-133	14													
7466	RDE_Drainage - Last Manhole Connection	10	02-Nov-19	15-Nov-19	10-Apr-20	21-Apr-20	-125	14													
7468	RDE_Drainage - Inspection of Last Manhole	6	16-Nov-19	22-Nov-19	22-Apr-20	28-Apr-20	-125	14													
WSD																					

L1

Activity ID	Activity Name	Start Date	Finish Date	2020			
				Apr 28	May 29	Jun 30	Jul 31
L1 Contract for Lyric Theatre Complex (3MRP)							
Cost Centre B - Excavation and Lateral Support (ELS) Stage 2							
Excavation and ELS Works (Stage 2)							
CB161100	[South - Area 1 & 2] Excavate East Bem to Formation Level -14.2mPD	09-Mar-20 A	25-Apr-20 A				
CB161200	[South - Area 1 & 2] Pile Head Treatment at East (14 nr BP)	13-Mar-20 A	25-Apr-20 A				
CB161210	[South/North] BA14 Completion of ELS - BD Submission & Acknowledgement	27-Apr-20 A	04-May-20				
Cost Centre C - Basement							
Cost Centre C1 - Essential Basement Structure (Excl. AET Protection & Box Culvert)							
South Basement - Central Area (GL. M1-X1 / 62-70.1)							
CC100440	[South] B1/F Construct Central B1 Beam & Slab	06-Dec-19 A	07-May-20				
CC100510	[South] B1/F Construct B1-B1M Central Columns & Structural Walls	24-Feb-20 A	16-May-20				
CC100520	[South] B1M/F Construct B1M Central Beam & Slab	18-May-20	07-Jul-20				
CC100560	[South] B1M/F Construct B1M- G/F Central Columns & Structural Walls	08-Jul-20	25-Aug-20				
CC100580	[South] B1/F Construct Remaining B1 Beam & Slab (GL. Q1-M1/70.1-64.1)	20-Jul-20	15-Aug-20				
South Basement - South / West Area (GL. W1-AA1 / 62-71 & M1-AA1 / 68.1-71)							
CC100406	[South] B2/F Remove Strut Layer S5 South	14-Mar-20 A	02-May-20				
CC100408a	[South] B2/F Construct B2-B1 South / West Basement Wall 1st Pour	14-Mar-20 A	06-May-20				
CC100410a	[South] B2/F Remove Strut Layer S4 South / West	27-Apr-20 A	07-May-20				
CC100410b	[South] B2/F Construct B2-B1 South / West Basement Wall to bottom of S3	22-Apr-20 A	08-May-20				
CC100410c	[South] B2/F Install Re-prop to South / West Basement Wall	29-Apr-20 A	09-May-20				
CC100410d	[South] B2/F Remove Strut Layer S3 South / West	11-May-20	25-May-20				
CC100410e	[South] B2/F Construct B2-B1 South / West Internal Walls / Columns	26-May-20	13-Jun-20				
CC100412	[South] B2/F Construct B2 Upper South / West Beam & Slab	02-Jun-20	22-Jun-20				
CC100415	[South] B2/F Construct Mega Columns / Walls Supporting Wall Beam WF	21-Feb-20 A	06-May-20				
CC100418	[South] B1/F Construct Beam & Slab Supporting Wal Beam WF	16-Mar-20 A	08-May-20				

- Remaining Work
- Critical Remaining Work
- Actual Work
- Milestone

Project ID: L13MRP-20200430-ENV
Layout: L1-3MRP (Env)
Page: 1 of 8

West Kowloon Cultural District Authority
L1 Contract for Lyric Theatre Complex & Extended Basement
Three Month Rolling Programme (3MRP) - Status as of 30 Apr 2020



Activity ID	Activity Name	Start Date	Finish Date	2020			
				Apr	May	Jun	Jul
				28	29	30	31
CC100419	[South] B1/F Construct Mega Columns & Walls up to Soffit Wall Beam WF	23-Mar-20 A	11-May-20				
CC100485a	[South] B1/F Construct B1 South / West Beam & Slab	10-Jun-20	06-Jul-20				
CC100505	[South] B1/F Remove Strut Layer S2 South / West	17-Jun-20	23-Jul-20				
CC100515	[South] B1/F Construct B1-B1M South / West Columns	07-Jul-20	27-Jul-20				
CC100536	[South] B1/F Construct B1-B1M South / West Internal Walls	07-Jul-20	27-Jul-20				
CC100545	[South] B1/F Construct B1-B1M South / West Perimeter Walls / Columns	07-Jul-20	27-Jul-20				
CC100545a	[South] B1M/F Remove Strut Layer S1 South / West	28-Jul-20	12-Aug-20				
South Basement - East Area (GL M1-Z1 / 60-62)							
CC100290	[South] B2/F Blinding Layer for Pile Cap / B2 Slab at East	27-Feb-20 A	25-Apr-20 A				
CC100300	[South] B2/F Construct East Pile Cap / B2 Slab at -14.2mPD	04-Mar-20 A	18-May-20				
CC100305	[South/North] BA14 Completion of Pile Cap - BD Submission & Acknowledgement	19-May-20	25-May-20				
CC100400	[South] B2/F Remove Strut Layer S6 East	15-Apr-20 A	25-May-20				
CC100400a	[South] B2/F Construct B2-B1 East Internal Walls & Columns	25-Apr-20 A	10-Jun-20				
CC100400a1	[South] B2/F Construct B2 Upper East Beam & Slab	02-Jun-20	24-Jun-20				
CC100400b	[South] B2/F Construct B2-B1 Basement Wall to bottom of S4	23-Apr-20 A	30-May-20				
CC100400c	[South] B2/F Install Re-prop to East Basement Wall	01-Jun-20	05-Jun-20				
CC100400d	[South] B2/F Remove Strut Layer S4 East	06-Jun-20	20-Jun-20				
CC100400e	[South] B2/F Construct B2-B1 Basement Wall to Soffit of B1	15-Jun-20	07-Jul-20				
CC100400f	[South] B1/F Construct B1 East Beam & Slab	15-Jun-20	14-Jul-20				
CC100400g	[South] B1/F Remove Strut Layer S2 East	15-Jul-20	30-Jul-20				
CC100400h	[South] B1/F Remove Strut Layer S5 & S3 East	15-Jul-20	18-Aug-20				
CC100400i	[South] B1/F Construct B1-B1M East Columns & Walls to bottom of S1	22-Jul-20	11-Aug-20				
South Basement - Staircases (GL M1-AA1 / 60-71)							
CC103120	[South] B2 Construct Staircase S35 (GL Q1 .1-Q1 .1/63.1-63)	30-Jun-20	14-Jul-20				
CC103140	[South] B2-GF Construct Staircase S36 (GL P1 -O1/64-63.1)	15-Jul-20	11-Aug-20				

- Remaining Work
- Critical Remaining Work
- Actual Work
- Milestone

Project ID: L13MRP-20200430-ENV
Layout: L1-3MRP (Env)
Page: 2 of 8

West Kowloon Cultural District Authority
L1 Contract for Lyric Theatre Complex & Extended Basement
Three Month Rolling Programme (3MRP) - Status as of 30 Apr 2020



Activity ID	Activity Name	Start Date	Finish Date	2020			
				Apr 28	May 29	Jun 30	Jul 31
North Basement - North Area (GL B1-M1 / 59.1 - 69)							
CC101600	[North] B2/F Remove Strut Layer S4 (Phase 2, affected by IC18)	23-Dec-19 A	08-May-20				
CC101665	[North] B2/F Construct B2-B1 Columns (West)	07-Nov-19 A	08-May-20				
CC101675	[North] B2/F Construct B2-B1 Internal Walls	13-Jan-20 A	08-May-20				
CC101685	[North] B2/F Construct B2-B1 Perimeter Walls / Mega Columns (West)	06-Jan-20 A	08-May-20				
CC101700	[North] B2/F Construct B2-B1 Perimeter Walls & Columns (East)	20-Jan-20 A	08-May-20				
CC101780	[North] B1/F Construct B1 Beam & Slab	13-Jan-20 A	09-May-20				
CC101800	[North] B1/F Remove Strut Layer S3 & S2	20-Apr-20 A	26-May-20				
CC101835	[North] B1/F Construct B1-G/F Columns	14-Apr-20 A	08-Jun-20				
CC101845	[North] B1/F Construct B1-G/F Internal Wall	25-May-20	16-Jun-20				
CC101855	[North] B1/F Construct B1-G/F Perimeter Walls / Mega Columns (GL K1-G1/68-65.1)	04-Jun-20	24-Jun-20				
CC101865	[North] B1/F Construct B1-G/F Perimeter Walls / Mega Columns (GL G1-C1/65.1-63.1)	12-Jun-20	04-Jul-20				
CC101870	[North] B1/F Construct B1-G/F Perimeter Walls & Columns (GL C1/63.1-59.1)	20-Jun-20	13-Jul-20				
CC101900	[North] G/F Construct G/F Beam & Slab	06-Jun-20	03-Aug-20				
CC102000	[North] G/F Remove Strut Layer S1	24-Jul-20	27-Aug-20				
North Basement - Area 6							
CC102430	[Area 6] B1M/F Construct B1M Beam & Slab	14-Jan-19 A	12-May-20				
CC102510	[Area 6] B1M/F Construct B1M- G/F Columns & Structural Walls	13-May-19 A	15-May-20				
North Basement - Staircases (GL B1-M1 / 59.1 - 69)							
CC103320	[North] B2-B1 Construct Staircase S40 (GL T1.1-S1/61-60)	11-May-20	30-May-20				
CC103340	[North] B2-GF Construct Staircase S44 (GL H1-G1/65.1-65)	01-Jun-20	29-Jun-20				
CC103360	[North] B2-GF Construct Staircase S38 (GL F1-E1/63.1-63)	30-Jun-20	28-Jul-20				
CC103380	[North] B2-GF Construct Staircase S31 (GL M1-K1/60.1-59.1)	29-Jul-20	25-Aug-20				
Cost Centre C3 - AET Protection							
Wall Beam WF							

- Remaining Work
- Critical Remaining Work
- Actual Work
- Milestone

Project ID: L13MRP-20200430-ENV
Layout: L1-3MRP (Env)
Page: 3 of 8

West Kowloon Cultural District Authority
L1 Contract for Lyric Theatre Complex & Extended Basement
Three Month Rolling Programme (3MRP) - Status as of 30 Apr 2020



Activity ID	Activity Name	Start Date	Finish Date	2020			
				Apr	May	Jun	Jul
				28	29	30	31
CC300190b	WF: Stage 1.2 - Install Sand Layer & Soffit Formwork	27-Mar-20 A	25-Apr-20 A				
CC300190c	WF: Stage 1.3 - Cast Extended Base Slab	13-Apr-20 A	06-May-20				
CC300190d	WF: Stage 1.4 - Cast Wall Stem	16-Apr-20 A	09-May-20				
CC300200	WF: Stage 1.5 - Apply Pre-stress	11-May-20	14-May-20				
CC300205a	WF: Stage 2.1 - Washout Sand Layer	15-May-20	18-May-20				
CC300205b	WF: Stage 2.2 - Cast Side Section against ECM	19-May-20	29-May-20				
CC300210	WF: Stage 2.3 - Apply Pre-stress	30-May-20	03-Jun-20				
CC300215	WF: Stage 3.1 - Cast Remaining Side Section	04-Jun-20	17-Jun-20				
CC300220	WF: Stage 3.2 - Apply Pre-stress	18-Jun-20	22-Jun-20				
CC300225a	WF: Stage 4.1 - Cast Topping	23-Jun-20	27-Jun-20				
CC300225b	WF: Stage 4.2 - Apply Pre-stress	29-Jun-20	03-Jul-20				
CC300225d	WF: Stage 5.1 - Cast Column Monolithic Connection	04-Jul-20	07-Jul-20				
CC300225e	WF: Stage 5.2 - Pressure Grout at Temporary Bearing	08-Jul-20	08-Jul-20				
CC300230	WF: Stage 6.1 Remove Temporary Infill & Extend Base Slab	09-Jul-20	10-Jul-20				
Wall Beam WE							
CC300295a	WE: Stage 1.1 - Install Sand Layer & Soffit Formwork	11-Jul-20	13-Jul-20				
CC300295b	WE: Stage 1.2 - Cast Extended Base Slab	14-Jul-20	17-Jul-20				
CC300295c	WE: Stage 1.3 - Cast Wall Stem	18-Jul-20	22-Jul-20				
CC300295d	WE: Stage 1.4 - Apply Temporary Stress	23-Jul-20	24-Jul-20				
CC300295e	WE: Stage 2.1 - Wash Out Sand Layer	25-Jul-20	25-Jul-20				
Wall Beam W2							
CC300795b	W2: Stage 1.2 - Install Sand Layer & Soffit Formwork	18-Apr-20 A	05-May-20				
CC300795c	W2: Stage 1.3 - Cast Extended Base Slab	06-May-20	20-May-20				
CC300795d	W2: Stage 1.4 - Cast Wall Stem	21-May-20	27-May-20				
CC300800	W2: Stage 1.5 - Apply Pre-stress	28-May-20	01-Jun-20				

- Remaining Work
- Critical Remaining Work
- Actual Work
- Milestone

Project ID: L13MRP-20200430-ENV
Layout: L1-3MRP (Env)
Page: 4 of 8

West Kowloon Cultural District Authority
L1 Contract for Lyric Theatre Complex & Extended Basement
Three Month Rolling Programme (3MRP) - Status as of 30 Apr 2020



Activity ID	Activity Name	Start Date	Finish Date	2020			
				Apr	May	Jun	Jul
				28	29	30	31
CC300805a	W2: Stage 2.1 - Washout Sand Layer	02-Jun-20	04-Jun-20			■	
CC300805b	W2: Stage 2.2 - Cast Side Section against ECM	05-Jun-20	16-Jun-20			■	
CC300810	W2: Stage 2.3 - Apply Pre-stress	17-Jun-20	20-Jun-20			■	
CC300815	W2: Stage 3.1 - Cast Remaining Side Section	22-Jun-20	07-Jul-20			■	
CC300820	W2: Stage 3.2 - Apply Pre-stress	08-Jul-20	11-Jul-20				■
CC300825a	W2: Stage 4.1 - Cast Topping	13-Jul-20	16-Jul-20				■
CC300825b	W2: Stage 4.2 - Apply Pre-stress	17-Jul-20	21-Jul-20				■
CC300825d	W2: Stage 5.1 - Cast Column Monolithic Connection	22-Jul-20	24-Jul-20				■
CC300825e	W2: Stage 5.2 - Pressure Grout at Temporary Bearing	25-Jul-20	25-Jul-20				
CC300830	W2: Stage 6.1 Remove Temporary Infill & Extend Base Slab	27-Jul-20	28-Jul-20				■
Wall Beam W1							
CC300695b	W1: Stage 1.2 - Install Sand Layer & Soffit Formwork	18-Apr-20 A	29-Apr-20 A	■			
CC300695c	W1: Stage 1.3 - Cast Extended Base Slab	02-May-20	16-May-20		■		
CC300695d	W1: Stage 1.4 - Cast Wall Stem	18-May-20	23-May-20		■		
CC300700	W1: Stage 1.5 - Apply Pre-stress	25-May-20	28-May-20		■		
CC300705a	W1: Stage 2.1 - Washout Sand Layer	29-May-20	01-Jun-20			■	
CC300705b	W1: Stage 2.2 - Cast Side Section against ECM	02-Jun-20	12-Jun-20			■	
CC300710	W1: Stage 2.3 - Apply Pre-stress	13-Jun-20	17-Jun-20			■	
CC300715	W1: Stage 3.1 - Cast Remaining Side Section	18-Jun-20	03-Jul-20			■	
CC300720	W1: Stage 3.2 - Apply Pre-stress	04-Jul-20	08-Jul-20				■
CC300725a	W1: Stage 4.1 - Cast Topping	09-Jul-20	13-Jul-20				■
CC300725b	W1: Stage 4.2 - Apply Pre-stress	14-Jul-20	17-Jul-20				■
CC300725d	W1: Stage 5.1 - Cast Column Monolithic Connection	18-Jul-20	21-Jul-20				■
CC300725e	W1: Stage 5.2 - Pressure Grout at Temporary Bearing	22-Jul-20	22-Jul-20				
CC300730	W1: Stage 6.1 Remove Temporary Infill & Extend Base Slab	23-Jul-20	24-Jul-20				■

- Remaining Work
- Critical Remaining Work
- Actual Work
- Milestone

Project ID: L13MRP-20200430-ENV
Layout: L1-3MRP (Env)
Page: 5 of 8

West Kowloon Cultural District Authority
L1 Contract for Lyric Theatre Complex & Extended Basement
Three Month Rolling Programme (3MRP) - Status as of 30 Apr 2020



Activity ID	Activity Name	Start Date	Finish Date	2020			
				Apr	May	Jun	Jul
				28	29	30	31
Wall Beam WB							
CC300595a	WB: Stage 1.1 - Install Temporary Bracing	02-Jun-20	05-Jun-20			■	
CC300595b	WB: Stage 1.2 - Install Temporary Corbel & Bearing	06-Jun-20	10-Jun-20			■	
CC300600	WB: Stage 1.3 - Install Sand Layer & Soffit Formwork	11-Jun-20	15-Jun-20			■	
CC300605a	W2: Stage 2.1 - Cast Extended Base Slab	16-Jun-20	23-Jun-20			■	
CC300605b	W2: Stage 2.2 - Cast Wall Stem	24-Jun-20	03-Jul-20			■	
CC300610	W2: Stage 2.3 - Apply Pre-stress	04-Jul-20	08-Jul-20				■
CC300615a	WB: Stage 3.1 - Washout Sand Layer	09-Jul-20	10-Jul-20				■
CC300615b	WB: Stage 3.2 - Cast Side Section above ECM	11-Jul-20	20-Jul-20				■
CC300620	WB: Stage 3.3 - Apply Pre-stress	21-Jul-20	24-Jul-20				■
CC300625a	WB: Stage 4.1 - Cast Remaining Side Section	25-Jul-20	10-Aug-20				■
Wall Beam WC							
CC300495a	WC: Stage 1.1 - Install Temporary Bracing	11-Jul-20	15-Jul-20				■
CC300495b	WC: Stage 1.2 - Install Temporary Corbel & Bearing	16-Jul-20	20-Jul-20				■
CC300500	WC: Stage 1.3 - Install Sand Layer & Soffit Formwork	21-Jul-20	24-Jul-20				■
CC300505a	WC: Stage 2.1 - Cast Extended Base Slab	25-Jul-20	01-Aug-20				■
Wall Beam WD							
CC300395a	WD: Stage 1.1 - Install Temporary Bracing	11-Jul-20	15-Jul-20				■
CC300395b	WD: Stage 1.2 - Install Temporary Corbel & Bearing	16-Jul-20	20-Jul-20				■
CC300400	WD: Stage 1.3 - Install Sand Layer & Soffit Formwork	21-Jul-20	24-Jul-20				■
CC300405a	WD: Stage 2.1 - Cast Extended Base Slab	25-Jul-20	01-Aug-20				■
Cost Centre D - Public Infrastructure Works (PIW)							
Cost Centre D2 - Austin Road West Lay-by							
Cost Centre D2.1 Roadworks and Remaining							
MC30-Ch.170 to MC30-Ch.150							

- Remaining Work
- Critical Remaining Work
- Actual Work
- Milestone

Project ID: L13MRP-20200430-ENV
Layout: L1-3MRP (Env)
Page: 6 of 8

West Kowloon Cultural District Authority
L1 Contract for Lyric Theatre Complex & Extended Basement
Three Month Rolling Programme (3MRP) - Status as of 30 Apr 2020



Activity ID	Activity Name	Start Date	Finish Date	2020			
				Apr 28	May 29	Jun 30	Jul 31
CD210730	MC30-Ch170-150: Roadworks & Footpath	30-Jan-19 A	16-May-20				
CD210750	MC30-Ch170-150: Install Street Furniture & Lighting	18-May-20	06-Jun-20				
MC30-Ch.150 to MC30-Ch.100							
CD210650	MC30-Ch150-100: Install Street Furniture & Lighting	08-Jun-20	29-Jun-20				
MC30-Ch.100 to MC30-Ch.50							
CD210535	MC30-Ch100-50: Maintenance Staircase	04-May-20	23-May-20				
CD210550	MC30-Ch100-50: Install Street Furniture & Lighting	30-Jun-20	21-Jul-20				
MC30-Ch.50 to MC30-Ch.00							
CD210430	MC30-Ch50-00: Roadworks & Footpath	17-Jan-20 A	30-May-20				
CD210450	MC30-Ch50-00: Install Street Furniture & Lighting	22-Jul-20	11-Aug-20				
MC20-Ch.140 to MC20-Ch.100							
CD210310	MC20-Ch140-100: Road Drainage (WL1.12 to WL1.9)	06-Jun-19 A	30-May-20				
CD210330	MC20-Ch140-100: Roadworks & Footpath	01-Jun-20	14-Jul-20				
MC20-Ch.100 to MC20-Ch.50							
CD210210	MC20-Ch100-50: Road Drainage (WL1.9 to WL1.4)	09-Jul-20	19-Aug-20				
Cost Centre D2.2 Drainage							
MC20-Ch.140 to MC20-Ch.00							
CD220190	MC20-Ch140-00: 1800mm dia Drainage (SF1.1 to SF1.1B) - 30m	02-Jul-19 A	16-May-20				
CD230200	MC20-Ch140-00: 1800mm dia Drainage (SF1.1 to SF1.1A) - 35m	19-May-20	08-Jul-20				
Cost Centre D2.3 Sewerage							
MC20-Ch.140 to MC20-Ch.00							
CD230180	MC20-Ch140-00: 450mm dia Sewer (F1.6 to F1.5) - 16m	06-Apr-20 A	14-Apr-20 A				
Cost Centre E - Miscellaneous Works							
Cost Centre E2 - External Utilities							
Cost Centre E2.1 - External Utilities - Drainage							

- Remaining Work
- Critical Remaining Work
- Actual Work
- Milestone

Project ID: L13MRP-20200430-ENV
Layout: L1-3MRP (Env)
Page: 7 of 8

West Kowloon Cultural District Authority
L1 Contract for Lyric Theatre Complex & Extended Basement
Three Month Rolling Programme (3MRP) - Status as of 30 Apr 2020



Activity ID	Activity Name	Start Date	Finish Date	2020			
				Apr 28	May 29	Jun 30	Jul 31
CE210320	N: Install 600mm dia Storm Drainage (DMH1.2 to DMH1.2A) - 21m	02-May-20	29-May-20				
CE210340	N: Install 450mm dia Storm Drainage (DMH1.1 to DMH1.2) - 3m	30-May-20	12-Jun-20				
CE210410	N: Install 600mm dia Storm Drainage (DMH1.2A to DMH1.3) - 10m	13-Jun-20	27-Jun-20				
CE210420	N: Install 600mm dia Storm Drainage (DMH1.3 to SF1.1A) - 28m	09-Jul-20	07-Aug-20				
CE210510	N: Install 300mm dia Sewerage (SMH1.2 to F1.2) - 9m	02-May-20	22-May-20				
Cost Centre E2.2 - External Utilities - Water Works							
CE220210	N: Install DN150 FR.N.P. Freshwater Main (FW) at GL 70 to 69 (12m)	23-May-20	19-Jun-20				
CE220220	N: Install DN100 F.S.P. Freshwater Main (Fire) at Grid 70 to 69 (12.3m)	23-May-20	19-Jun-20				
CE220230	N: Install DN100 FL.W.P. Saltwater Main at Grid 70 to 69 (13.7m)	23-May-20	19-Jun-20				
Cost Centre E3.1 - DCS Intake Cofferdam A Section 1							
CE310240	Stage 1 Excavation Works	16-Apr-20 A	29-May-20				

- Remaining Work
- Critical Remaining Work
- Actual Work
- Milestone

Project ID: L13MRP-20200430-ENV
Layout: L1-3MRP (Env)
Page: 8 of 8

West Kowloon Cultural District Authority
L1 Contract for Lyric Theatre Complex & Extended Basement
Three Month Rolling Programme (3MRP) - Status as of 30 Apr 2020



L2

Mark up Rolling Programme (as of 22 Apr 2020)

Work Item	2019												2020				
	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
1 <u>Visual Mock Up</u>																	
a) Material and shop drawing submission & approval																	
b) Identify Location, Install VMU, Inspection/ Approval																	
2 <u>PTMD and CPMD Compliance Review</u>																	
3 <u>Major E&M Submissions</u>																	
a) Submission of CSD & CBWD LTC																	
4 <u>DfMA Development (MEP Module)</u>																	
a) DfMA Development - LB2																	
b) DfMA Development - LB1 and LB1M																	
5 <u>Main Contractor's Design Item</u>																	
a) Façade shop drawings submission/ resubmission																	
b) Stage Lighting Design Coordination																	
c) AV Design Coordination																	
d) Stage Machinery Design Coordination																	
6 <u>MT Steel Truss Shop Drawings Submission and Approval</u>																	
7 <u>LTC Construction</u>																	
VIS Installation																	
B2 Construction																	
B2U/F and B1L/F Construction																	
B1 Construction																	
B1M Construction																	
L00 Construction																	
8 <u>Extended Basement</u>																	
Builder's Works in Extended Basement (South)																	
BS Installation (South B2)																	
Builder's Works in Extended Basement (North)																	
BS Installation (North B2)																	
9 <u>DCS Cofferdam A</u>																	
DCS Cofferdam A - Section 1																	
DCS Cofferdam A - Section 2																	
10 <u>Remaining Works for M+ Promenade</u>																	
11 <u>Modification to Existing Pump Cell</u>																	
Reprovision of Sea Water Pump Cell																	
Modification of Extg Pump Cell, & Connection to New Pump Cell																	

Note

- VMU:** Delayed pending for design and material finalisation. VMU completion deadline moved by agreement.
- MEP:** Shop drawings submission dependent on resolution of BIM coordination issues and CAI issues.
- DfMA:** Delay due to CAI-026, CAI-031, L1 CAI-074 and L1 CAI-077, those are resolved with impact.
L1 CAI-079, L2 CAI-057 and L2 CAI-100 are under co-ordination
- Façade:** Delay due to unfrozen design and design changes.
- DCS, Remaining Works for M+ Promenade, Reprovision of Pump Cell:** Delay due to absence of site possession.

C. Action and Limit Levels for Construction Phase

Air Quality

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

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

Monitoring Station	Action Level (mg/m ³)	Limit Level (mg/m ³)
AM1	273.7	500
AM2B	274.2	500

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

Monitoring Station	Action Level (µg/m ³)	Limit Level (µg/m ³)
AM1	143.6	260
AM2B	151.1	260

Noise

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

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

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

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

Air Quality

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

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

Event	Action			
	ET	IEC	WKCD A	Contractor
Action Level				
1. Exceedance for one sample	<ol style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC and WKCD A; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method. 	<ol style="list-style-type: none"> 1. Notify Contractor 	<ol style="list-style-type: none"> 1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 1. Identify source; 2. Inform IEC and WKCD A; 3. Advise the WKCD A on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and WKCD A; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; 5. Monitor the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 1. Submit proposals for remedial to WKCD A within three working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.
Limit Level				
1. Exceedance for one sample	<ol style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform WKCD A, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and WKCD A informed of the results. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the WKCD A on the effectiveness of the proposed remedial measures; 5. Monitor the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within three working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.

Event**Action**

2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none">1. Notify IEC, WKCDA, Contractor and EPD;2. Identify source;3. Repeat measurement to confirm findings;4. Increase monitoring frequency to daily;5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;6. Arrange meeting with IEC and WKCDA to discuss the remedial actions to be taken;7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and WKCDA informed of the results;8. If exceedance stops, cease additional monitoring.	<ol style="list-style-type: none">1. Check monitoring data submitted by ET;2. Check Contractor's working method;3. Discuss amongst WKCDA, ET, and Contractor on the potential remedial actions;4. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the WKCDA accordingly;5. Monitor the implementation of remedial measures.	<ol style="list-style-type: none">1. Confirm receipt of notification of failure in writing;2. Notify Contractor;3. In consolidation with the IEC, agree on the remedial measures to be implemented;4. Ensure remedial measures properly implemented;5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	<ol style="list-style-type: none">1. Take immediate action to avoid further exceedance;2. Submit proposals for remedial actions to IEC within three working days of notification;3. Implement the agreed proposals;4. Resubmit proposals if problem still not under control;5. Stop the relevant portion of works as determined by the WKCDA until the exceedance is abated.
---	--	--	---	--

Construction Noise

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

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

Event	Action			
	ET	IEC	WKCD	Contractor
Action Level	<ol style="list-style-type: none"> 1. Notify WKCD, IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, WKCD and Contractor; 4. Discuss with the IEC and Contractor on remedial measures required; 5. Increase monitoring frequency to check mitigation effectiveness. 	<ol style="list-style-type: none"> 1. Review the investigation results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the WKCD accordingly; 3. Advise the WKCD on the effectiveness of the proposed remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IEC and WKCD; 2. Implement noise mitigation proposals.
Limit Level	<ol style="list-style-type: none"> 1. Inform IEC, WKCD, Contractor and EPD; 2. Repeat measurements to confirm findings; 3. Increase monitoring frequency; 4. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contractor's working procedures; 6. Discuss with the IEC, Contractor and WKCD on remedial measures required; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and WKCD informed of the results; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Discuss amongst WKCD, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the WKCD accordingly. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures; 5. If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC and WKCD within 3 working days of notification; 3. Implement the agreed proposals; 4. Submit further proposal if problem still not under control; 5. Stop the relevant portion of works as instructed by the WKCD until the exceedance is abated.

Landscape and Visual Impact

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

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

Event	Action			
	ET	IEC	WKCD A	Contractor
Design Check	<ol style="list-style-type: none"> 1. Design check to make sure the design complies with all the proposed mitigation measures in the EIA report; 2. Prepare and submit report. 	<ol style="list-style-type: none"> 1. Check report submitted by ET; 2. Recommend remedial design if necessary. 	<ol style="list-style-type: none"> 1. Undertake remedial design if necessary. 	-
Non-conformity on one occasion	<ol style="list-style-type: none"> 1. Identify source of non-conformity; 2. Report to IEC and WKCD A; 3. Discuss remedial actions with IEC, WKCD A and Contractor; 4. Monitor remedial actions until rectification has been completed. 	<ol style="list-style-type: none"> 1. Check and verify source of non-conformity; 2. Discuss remedial actions with ET and Contractor; 3. Advise WKCD A on effectiveness of proposed remedial actions; 4. Check implementation of remedial actions. 	<ol style="list-style-type: none"> 1. Notify Contractor; 2. Ensure remedial actions are properly implemented. 	<ol style="list-style-type: none"> 1. Amend working method as necessary; 2. Rectify damage and undertake necessary replacement and remedial actions.
Repeated conformity	<ol style="list-style-type: none"> 1. Identify source of non-conformity; 2. Report to IEC and WKCD A; 3. Increase monitoring frequency; 4. Discuss remedial actions with IEC, WKCD A and Contractor; 5. Monitor remedial actions until rectification has been completed; 6. If non-conformity rectified, reduce monitoring frequency back to normal. 	<ol style="list-style-type: none"> 1. Check and verify source of non-conformity; 2. Check Contractor's working method; 3. Discuss remedial actions with ET and Contractor; 4. Advise WKCD A on effectiveness of proposed remedial actions; 5. Supervise implementation of remedial actions. 	<ol style="list-style-type: none"> 1. Notify Contractor; 2. Ensure remedial actions are properly implemented. 	<ol style="list-style-type: none"> 1. Amend working method as necessary; 2. Rectify damage and undertake necessary replacement and remedial actions.

E. Monitoring Schedule

APRIL 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2 AM1, AM2B - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	3	4
5	6	7	8 AM1, AM2B - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring Lyric Landscape & Visual Inspection	9	10	11
12	13	14 AM1, AM2B - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring M+ Landscape & Visual Inspection	15	16	17	18 AM1, AM2B - 24hrTSP, 1hr TSP x3
19	20	21	22 Lyric Landscape & Visual Inspection	23	24 AM1, AM2B - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	25
26	27	28 AM1, AM2B - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring M+ Landscape & Visual Inspection	29	30		
		Notes: AM1 - International Commerce Centre (ICC) AM2B - 1st Floor of Gammon's Site Office NM1A - International Commerce Centre (ICC)				

MAY 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4 AM1, AM2B - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	5	6	7	8	9 AM1, AM2B - 24hrTSP, 1hr TSP x3
10	11	12	13	14	15 AM1, AM2B - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	16
17	18	19	20	21 AM1, AM2B - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	22	23
24	25	26	27 AM1, AM2B - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	28	29	30
31	Notes: AM1 - International Commerce Centre (ICC) AM2B - 1st Floor of Gammon's Site Office NM1A - International Commerce Centre (ICC)					

F. Calibration Certifications

High-Volume TSP Sampler
5-Point Calibration Record

Location : AM1 (ICC)
 Calibrated by : K.T.Ho
 Date : 20/03/2020

Sampler

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

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
 Service Date : 18 February 2020
 Slope (m) : 2.07134
 Intercept (b) : -0.040910
 Correlation Coefficient(r) : 0.99999

Standard Condition

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

Calibration Condition

Pa (hpa) : 1015
 Ta(K) : 297

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	11.2	3.361	1.642	58	58.25
2	13 holes	8.2	2.876	1.408	50	50.22
3	10 holes	6.2	2.501	1.227	42	42.18
4	7 holes	4.4	2.107	1.037	32	32.14
5	5 holes	2.6	1.619	0.802	20	20.09

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

Sampler Calibration Relationship

Slope(m): 45.943 Intercept(b): -15.624 Correlation Coefficient(r): 0.9960

Checked by: 

 Magnum Fan

Date: 23/03/2020

High-Volume TSP Sampler
5-Point Calibration Record

Location : AM2B (Gammon Office)
 Calibrated by : K.T.Ho
 Date : 20/03/2020

Sampler

Model : TE-5170
 Serial Number : S/N 8919

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
 Service Date : 18 February 2020
 Slope (m) : 2.07134
 Intercept (b) : -0.040910
 Correlation Coefficient(r) : 0.99999

Standard Condition

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

Calibration Condition

Pa (hpa) : 1015
 Ta(K) : 297

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1 18 holes	12.0	3.479	1.699	60	60.26
2 13 holes	9.0	3.013	1.474	56	56.24
3 10 holes	6.6	2.580	1.265	48	48.21
4 7 holes	4.0	2.009	0.990	34	34.15
5 5 holes	2.0	1.420	0.705	24	24.10

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

Sampler Calibration Relationship

Slope(m): 38.403 Intercept(b): -2.521 Correlation Coefficient(r): 0.9906

Checked by: 

 Magnum Fan

Date: 23/03/2020



RECALIBRATION DUE DATE: February 18, 2021

Certificate of Calibration

Calibration Certification Information			
Cal. Date: February 18, 2020	Rootmeter S/N: 438320	Ta: 29.4 °K	
Operator: Jim Tisch		Pa: 753.1 mm Hg	
Calibration Model #: TE-5025A	Calibrator S/N: 2454		

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4190	3.2	2.00
2	3	4	1	1.0100	6.4	4.00
3	5	6	1	0.9020	7.9	5.00
4	7	8	1	0.8600	8.8	5.50
5	9	10	1	0.7110	12.7	8.00

Data Tabulation					
Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H (Ta/Pa)}$ (y-axis)
1.0001	0.7048	1.4173	0.9958	0.7017	0.8836
0.9959	0.9860	2.0044	0.9915	0.9817	1.2496
0.9939	1.1019	2.2410	0.9895	1.0970	1.3971
0.9927	1.1543	2.3504	0.9883	1.1492	1.4653
0.9875	1.3889	2.8347	0.9831	1.3828	1.7672
QSTD	m=	2.07134	QA	m=	1.29704
	b=	-0.04091		b=	-0.02551
	r=	0.99999		r=	0.99999

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

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

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



ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

SUB-CONTRACTING REPORT

CONTACT	: MR K.W. FAN	WORK ORDER	: HK1950885
CLIENT	: ENVIROTECH SERVICES CO.		
ADDRESS	: RM113, 1/F, MY LOFT, 9 HOI WING ROAD, TUEN MUN, N.T. HONG KONG	SUB-BATCH	: 1
		DATE RECEIVED	: 3-DEC-2019
		DATE OF ISSUE	: 13-DEC-2019
PROJECT	: ----	NO. OF SAMPLES	: 1
		CLIENT ORDER	: ----

General Comments

- Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the item(s) tested.
- Sample information (Project name, Sample ID, Sampling date/time, etc., if any) is provided by client.
- Calibration was subcontracted to and analysed by Action United Enviro Services.

Signatories

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

Signatories

Position

Richard Fung

Managing Director

This is the Final Report and supersedes any preliminary report with this batch number.

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

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

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

WORK ORDER : HK1950885
SUB-BATCH : 1
CLIENT : ENVIROTECH SERVICES CO.
PROJECT : ----



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK1950885-001	S/N: 235780	Equipments	03-Dec-2019	235780

Equipment Verification Report (TSP)

Equipment Calibrated:

Type: Laser Dust monitor
 Manufacturer: Sibata LD-3B
 Serial No. 235780
 Equipment Ref: Nil
 Job Order HK1950885

Standard Equipment:

Standard Equipment: Higher Volume Sampler (TSP)
 Location & Location ID: AUES office (calibration room)
 Equipment Ref: HVS 018
 Last Calibration Date: 3 December 2019

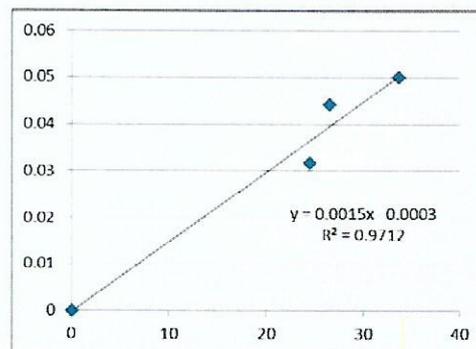
Equipment Verification Results:

Verification Date: 10 December 2019

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in mg/m ³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
2hr02min	09:08 ~ 11:10	18.4	1018.6	0.032	2989	24.5
2hr01min	11:15 ~ 13:16	18.4	1018.6	0.044	3203	26.6
2hr01min	13:22 ~ 15:23	18.4	1018.6	0.050	4060	33.7

Linear Regression of Y or X

Slope (K-factor): 0.0015
 Correlation Coefficient 0.9855
 Date of Issue 13 December 2019



Remarks:

1. **Strong Correlation (R>0.8)**
2. Factor 0.0015 should be applied for TSP monitoring

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

Operator : Fai So Signature : [Signature] Date : 13 December 2019

QC Reviewer : Ben Tam Signature : [Signature] Date : 13 December 2019



SUB-CONTRACTING REPORT

CONTACT	: MR K.W. FAN	WORK ORDER	: HK1950891
CLIENT	: ENVIROTECH SERVICES CO.		
ADDRESS	: RM113, 1/F, MY LOFT, 9 HOI WING ROAD, TUEN MUN, N.T. HONG KONG	SUB-BATCH	: 1
		DATE RECEIVED	: 3-DEC-2019
		DATE OF ISSUE	: 13-DEC-2019
PROJECT	: ----	NO. OF SAMPLES	: 1
		CLIENT ORDER	: ----

General Comments

- Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the item(s) tested.
- Sample information (Project name, Sample ID, Sampling date/time, etc., if any) is provided by client.
- Calibration was subcontracted to and analysed by Action United Enviro Services.

Signatories

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

Signatories

Position

Richard Fung

Managing Director

This is the Final Report and supersedes any preliminary report with this batch number.

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

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

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

WORK ORDER : HK1950891
SUB-BATCH : 1
CLIENT : ENVIROTECH SERVICES CO.
PROJECT : ---



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK1950891-001	S/N: 6Z7784	Equipments	03-Dec-2019	6Z7784

Equipment Verification Report (TSP)

Equipment Calibrated:

Type: Laser Dust monitor
Manufacturer: Sibata LD-3B
Serial No. 6Z7784
Equipment Ref: Nil
Job Order HK1950891

Standard Equipment:

Standard Equipment: Higher Volume Sampler (TSP)
Location & Location ID: AUES office (calibration room)
Equipment Ref: HVS 018
Last Calibration Date: 3 December 2019

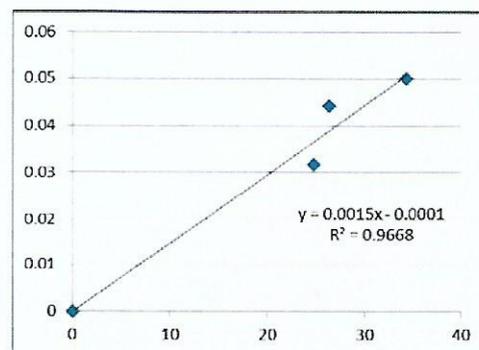
Equipment Verification Results:

Verification Date: 10 December 2019

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in mg/m ³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
2hr02min	09:08 ~ 11:10	18.4	1018.6	0.032	3020	24.8
2hr01min	11:15 ~ 13:16	18.4	1018.6	0.044	3185	26.4
2hr01min	13:22 ~ 15:23	18.4	1018.6	0.050	4141	34.3

Linear Regression of Y or X

Slope (K-factor): 0.0015
Correlation Coefficient 0.9833
Date of Issue 13 December 2019



Remarks:

1. **Strong Correlation** ($R > 0.8$)
2. Factor 0.0015 should be applied for TSP monitoring

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

Operator : Fai So Signature :  Date : 13 December 2019

QC Reviewer : Ben Tam Signature :  Date : 13 December 2019

Certificate of Calibration

for

Description: *Sound Level Meter*
Manufacturer: *RION*
Type No.: *NL-52 (Serial No.: 00175561)*
Microphone: *UC-53A (Serial No.: 99995)*
Preamplifier: *NH-25 (Serial No.:65663)*

Submitted by:

Customer: *Envirotech Services Co.*
Address: *Rm.113, 1/F., My Loft, 9 Hoi Wing Road,
Tuen Mun, N.T., Hong Kong.*

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

- Within**
 Outside

the allowable tolerance.

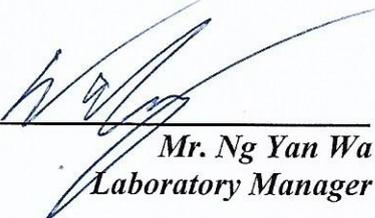
The test equipment used for calibration are traceable to National Standards via:

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

Date of receipt: 24 September 2019

Date of calibration: 26 September 2019

Calibrated by: 
Calibration Technician

Certified by: 
Mr. Ng Yan Wa
Laboratory Manager

Date of issue: 26 September 2019

Certificate No.: APJ19-095-CC001



Page 1 of 4



1. Calibration Precaution:

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

2. Calibration Conditions:

Air Temperature: 24.1 °C
 Air Pressure: 1006 hPa
 Relative Humidity: 54.2 %

3. Calibration Equipment:

	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV180064	HOKLAS

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

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

Linearity

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
30-130	dBA SPL	Fast	94	1000	94.0	Ref
			104		104.0	±0.3
			114		114.1	±0.3

Time Weighting

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

Certificate No.: APJ19-095-CC001

Page 2 of 4



Frequency Response

Linear Response

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB	
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz			
30-130	dB	SPL	Fast	94	31.5	94.3	±2.0
					63	94.2	±1.5
					125	94.1	±1.5
					250	94.0	±1.4
					500	94.0	±1.4
					1000	94.0	Ref
					2000	93.9	±1.6
					4000	93.7	±1.6
					8000	91.9	+2.1; -3.1

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB	
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz			
30-130	dBA	SPL	Fast	94	31.5	55.2	-39.4±2.0
					63	68.0	-26.2±1.5
					125	78.0	-16.1±1.5
					250	85.4	-8.6±1.4
					500	90.8	-3.2±1.4
					1000	94.0	Ref
					2000	95.1	+1.2±1.6
					4000	94.7	+1.0±1.6
					8000	90.9	-1.1±2.1; -3.1

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB	
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz			
30-130	dBC	SPL	Fast	94	31.5	91.3	-3.0±2.0
					63	93.4	-0.8±1.5
					125	93.9	-0.2±1.5
					250	94.0	-0.0±1.4
					500	94.0	-0.0±1.4
					1000	94.0	Ref
					2000	93.8	-0.2±1.6
					4000	92.9	-0.8±1.6
					8000	89.0	-3.0±2.1; -3.1

Certificate No.: APJ19-095-CC001



Page 3 of 4

5. Calibration Results Applied

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

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.15
	63 Hz	± 0.10
	125 Hz	± 0.10
	250 Hz	± 0.05
	500 Hz	± 0.10
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.10
	8000 Hz	± 0.10
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

Note:

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



Certificate of Calibration 校正證書

Certificate No. : C192695
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC19-0995) Date of Receipt / 收件日期 : 17 May 2019
Description / 儀器名稱 : Precision Acoustic Calibrator
Manufacturer / 製造商 : LARSON DAVIS
Model No. / 型號 : CAL200
Serial No. / 編號 : 11333
Supplied By / 委託者 : Envirotech Services Co.
Room 113, 1/F, My Loft, 9 Hoi Wing Road, Tuen Mun,
New Territories, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}\text{C}$ Relative Humidity / 相對濕度 : $(50 \pm 25)\%$
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 26 May 2019

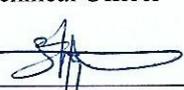
TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
The results do not exceed manufacturer's specification.
The results are detailed in the subsequent page(s).

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

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- The Bruel & Kjaer Calibration Laboratory, Denmark
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By : 
測試 : _____
H T Wong
Technical Officer

Certified By : 
核證 : _____
K O Lee
Engineer

Date of Issue : 29 May 2019
簽發日期

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。



Certificate of Calibration

校正證書

Certificate No. : C192695
證書編號

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.
- Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL130	Universal Counter	C183775
CL281	Multifunction Acoustic Calibrator	CDK1806821
TST150A	Measuring Amplifier	C181288

- Test procedure : MA100N.

- Results :

5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	Mfr's Spec. (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	93.8	± 0.2	± 0.2
114 dB, 1 kHz	113.8		

5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec. (Hz)	Uncertainty of Measured Value (Hz)
1	1.000	1 kHz ± 1 %	± 1

Remark : The uncertainties are for a confidence probability of not less than 95 %.

Note :

Only the original copy or the laboratory's certified true copy is valid.

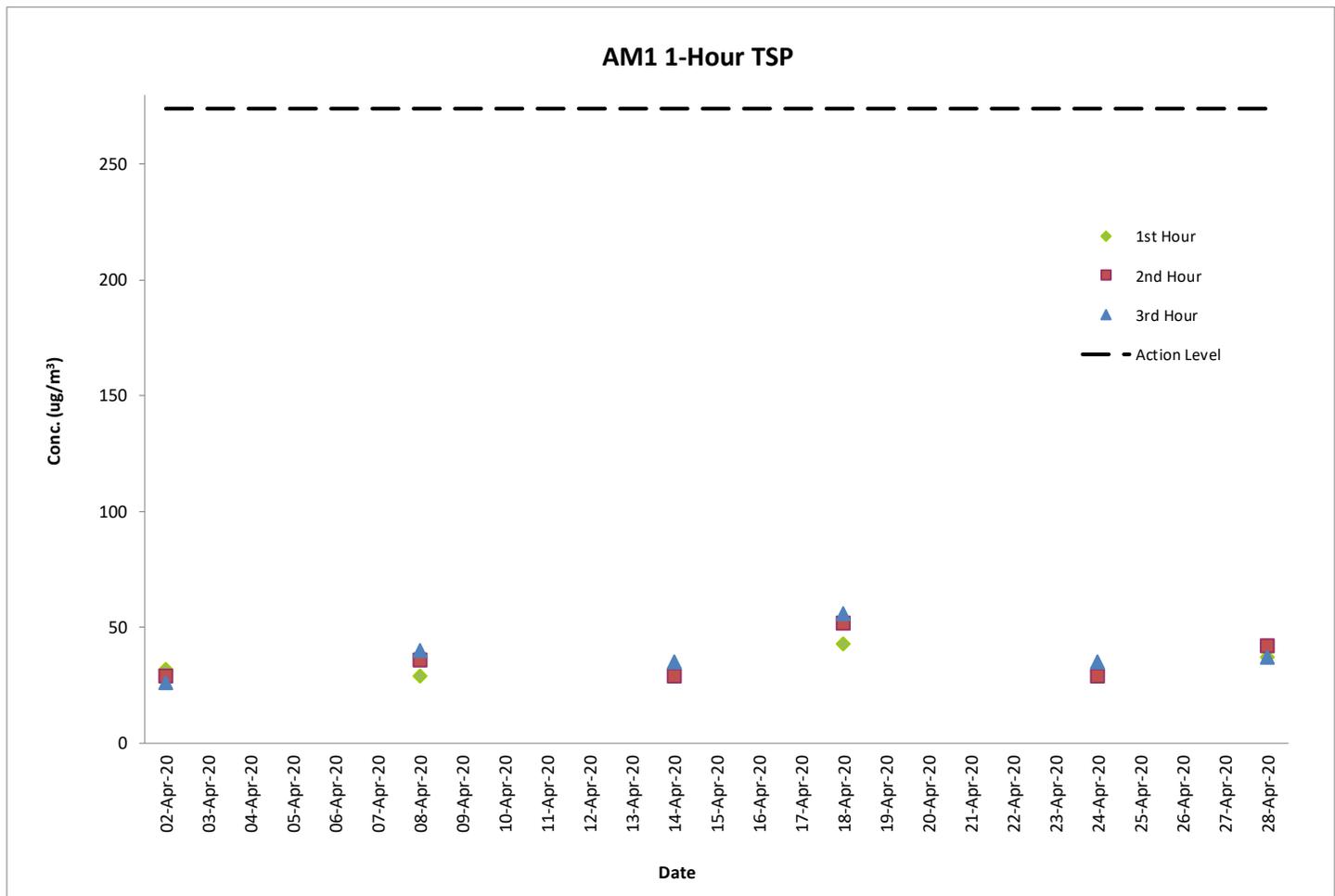
The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

G. Graphical Plots of the Monitoring Results

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

Date	Weather Condition	Time	Conc. ($\mu\text{g}/\text{m}^3$)			Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
			1 st Hour	2 nd Hour	3 rd Hour		
02-Apr-20	Cloudy	13:12 - 16:12	32	29	26	273.7	500
08-Apr-20	Cloudy	13:14 - 16:14	29	36	40	273.7	500
14-Apr-20	Cloudy	8:21 - 11:21	32	29	35	273.7	500
18-Apr-20	Sunny	13:12 - 16:12	43	52	56	273.7	500
24-Apr-20	Cloudy	9:10 - 12:10	31	29	35	273.7	500
28-Apr-20	Sunny	8:30 - 11:30	37	42	45	273.7	500

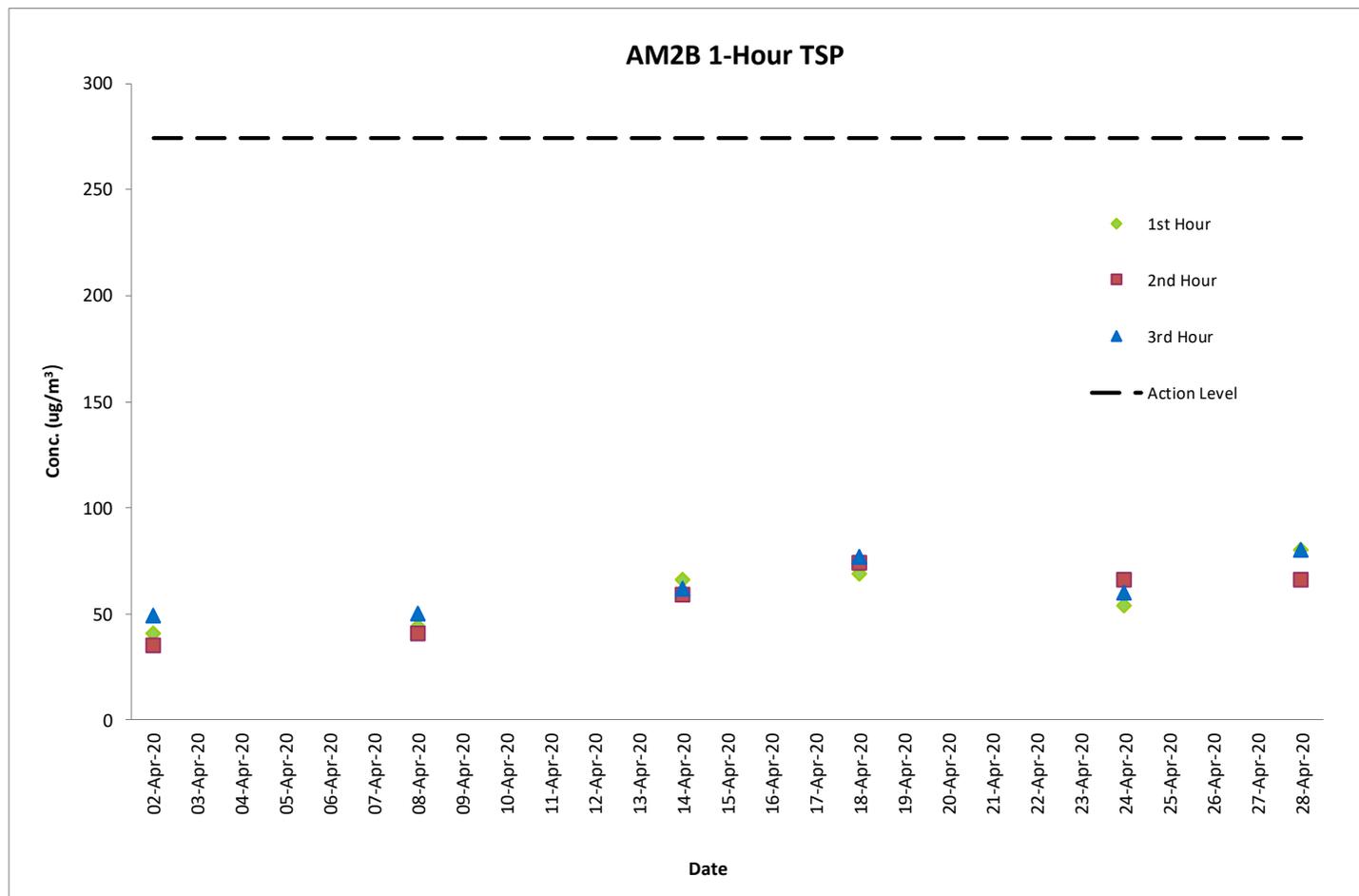
Graphical Presentation of Air Quality Monitoring Result at Station AM1 (1-hour TSP)



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

Date	Weather Condition	Time	Conc. ($\mu\text{g}/\text{m}^3$)			Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
			1 st Hour	2 nd Hour	3 rd Hour		
02-Apr-20	Cloudy	13:26 - 16:26	41	35	49	274.2	500
08-Apr-20	Cloudy	13:28 - 16:28	44	41	50	274.2	500
14-Apr-20	Cloudy	8:35 - 11:35	66	59	62	274.2	500
18-Apr-20	Sunny	13:26 - 16:26	69	74	77	274.2	500
24-Apr-20	Cloudy	8:40 - 11:40	54	66	60	274.2	500
28-Apr-20	Sunny	9:15 - 12:15	80	66	69	274.2	500

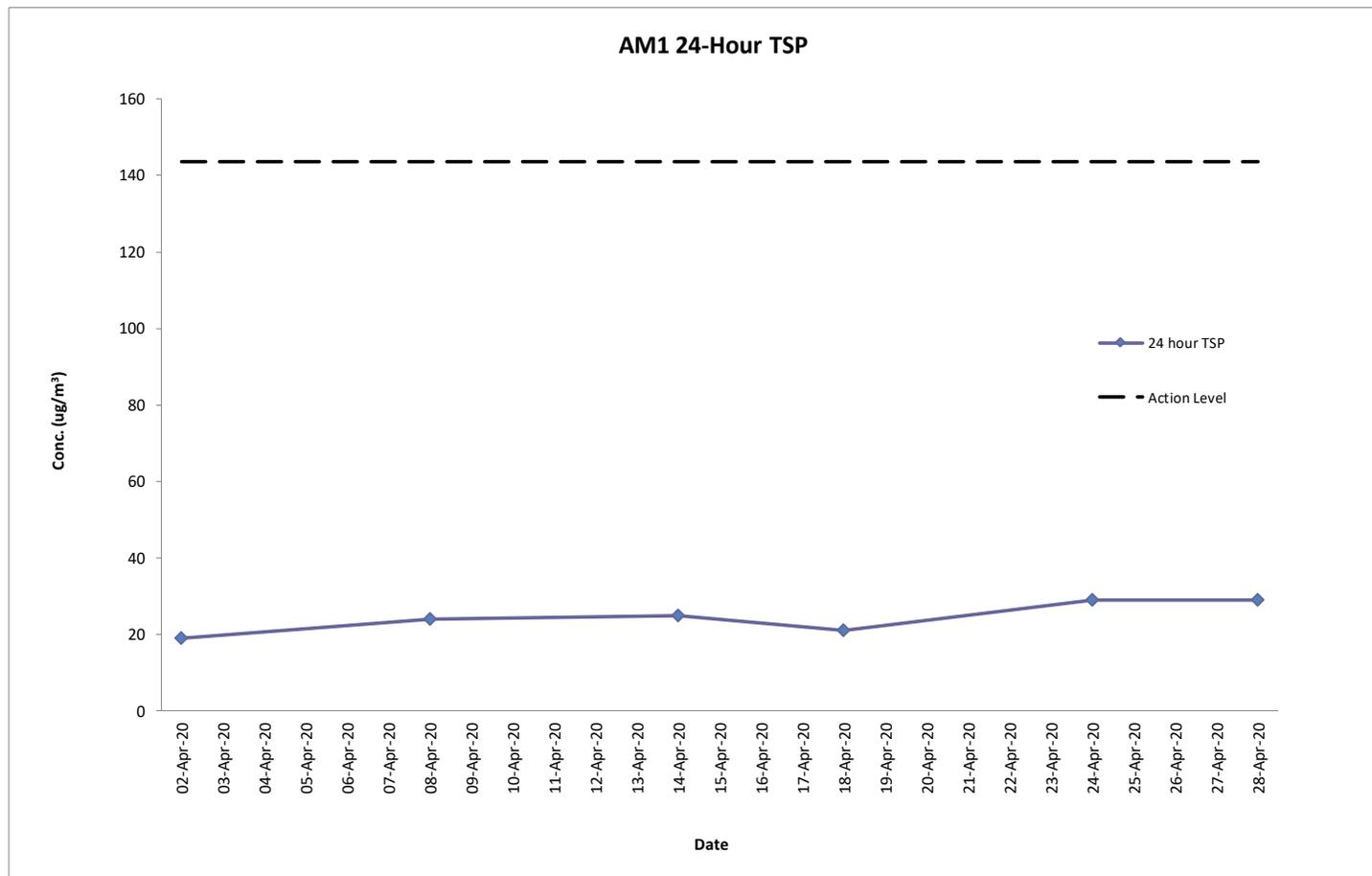
Graphical Presentation of Air Quality Monitoring Result at Station AM2B (1-hour TSP)



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

Start		Finish		Filter Weight (g)		Elapsed Time Reading		Sampling Time (hrs)	Flow Rate (m ³ /min)			Conc. (µg/m ³)	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
02-Apr-20	08:10	03-Apr-20	08:10	2.8135	2.8468	21608.38	21632.38	24	1.25	1.25	1.25	19	Cloudy	143.6	260
08-Apr-20	08:12	09-Apr-20	08:12	2.8046	2.8470	21728.38	21752.38	24	1.25	1.25	1.25	24	Cloudy	143.6	260
14-Apr-20	08:23	15-Apr-20	08:23	2.7973	2.8430	21632.38	21656.38	24	1.25	1.25	1.25	25	Cloudy	143.6	260
18-Apr-20	08:10	19-Apr-20	08:10	2.7567	2.7937	21680.38	21704.38	24	1.25	1.25	1.25	21	Sunny	143.6	260
24-Apr-20	07:50	25-Apr-20	07:50	2.7936	2.8457	21704.38	21728.38	24	1.25	1.25	1.25	29	Cloudy	143.6	260
28-Apr-20	08:32	29-Apr-20	08:32	2.7990	2.8512	21728.38	21752.38	24	1.25	1.25	1.25	29	Sunny	143.6	260

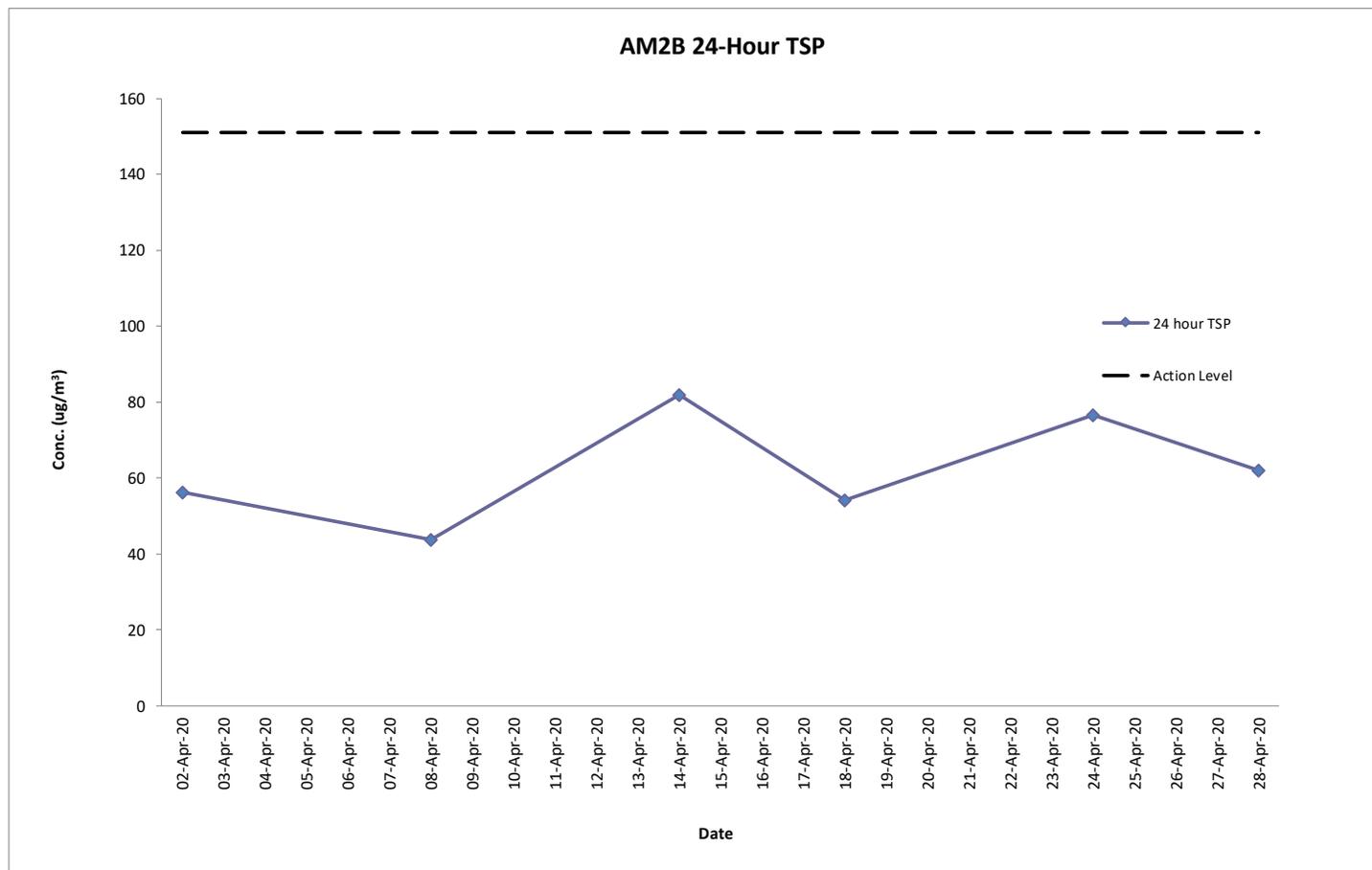
Graphical Presentation of Air Quality Monitoring Result at Station AM1 (24-hour TSP)



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

Start		Finish		Filter Weight (g)		Elapsed Time Reading		Sampling Time (hrs)	Flow Rate (m ³ /min)			Conc. (µg/m ³)	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
02-Apr-20	08:24	03-Apr-20	08:24	2.8127	2.9067	21163.05	21187.05	24	1.16	1.16	1.16	56	Cloudy	151.1	260
08-Apr-20	08:26	09-Apr-20	08:26	2.8056	2.8786	21283.05	21307.05	24	1.16	1.16	1.16	44	Cloudy	151.1	260
14-Apr-20	08:37	15-Apr-20	08:37	2.8064	2.9433	21187.05	21211.05	24	1.16	1.16	1.16	82	Cloudy	151.1	260
18-Apr-20	08:24	19-Apr-20	08:24	2.7452	2.8357	21235.05	21259.05	24	1.16	1.16	1.16	54	Sunny	151.1	260
24-Apr-20	08:42	25-Apr-20	08:42	2.7896	2.9177	21259.05	21283.05	24	1.16	1.16	1.16	77	Cloudy	151.1	260
28-Apr-20	09:13	29-Apr-20	09:13	2.7947	2.8981	21283.05	21307.05	24	1.16	1.16	1.16	62	Sunny	151.1	260

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



Noise Monitoring Result at Station NM1A

Date	Time	Measured L ₁₀ , dB(A)	Measured L ₉₀ , dB(A)	L _{eq} (30 min.)*, dB(A)
02-Apr-20	10:32	66.7	62.1	68
02-Apr-20	10:37	67.9	63.0	
02-Apr-20	10:42	68.3	64.5	
02-Apr-20	10:47	66.4	62.7	
02-Apr-20	10:52	66.6	62.5	
02-Apr-20	10:57	66.8	62.7	
08-Apr-20	10:37	68.0	64.4	69
08-Apr-20	10:42	66.5	62.1	
08-Apr-20	10:47	67.6	63.5	
08-Apr-20	10:52	68.4	64.1	
08-Apr-20	10:57	66.7	62.5	
08-Apr-20	11:02	67.9	63.1	
14-Apr-20	10:42	66.0	62.3	68
14-Apr-20	10:47	65.7	61.8	
14-Apr-20	10:52	67.4	63.6	
14-Apr-20	10:57	68.3	64.2	
14-Apr-20	11:02	66.5	62.7	
14-Apr-20	11:07	66.8	62.6	
24-Apr-20	10:19	67.9	63.4	70
24-Apr-20	10:24	68.2	64.1	
24-Apr-20	10:29	69.4	65.2	
24-Apr-20	10:34	70.1	66.2	
24-Apr-20	10:39	68.4	64.1	
24-Apr-20	10:44	67.7	63.9	
28-Apr-20	08:27	67.1	63.1	70
28-Apr-20	08:32	69.4	64.1	
28-Apr-20	08:37	68.5	64.3	
28-Apr-20	08:42	70.1	65.1	
28-Apr-20	08:47	68.2	64.2	
28-Apr-20	08:52	69.6	65.0	

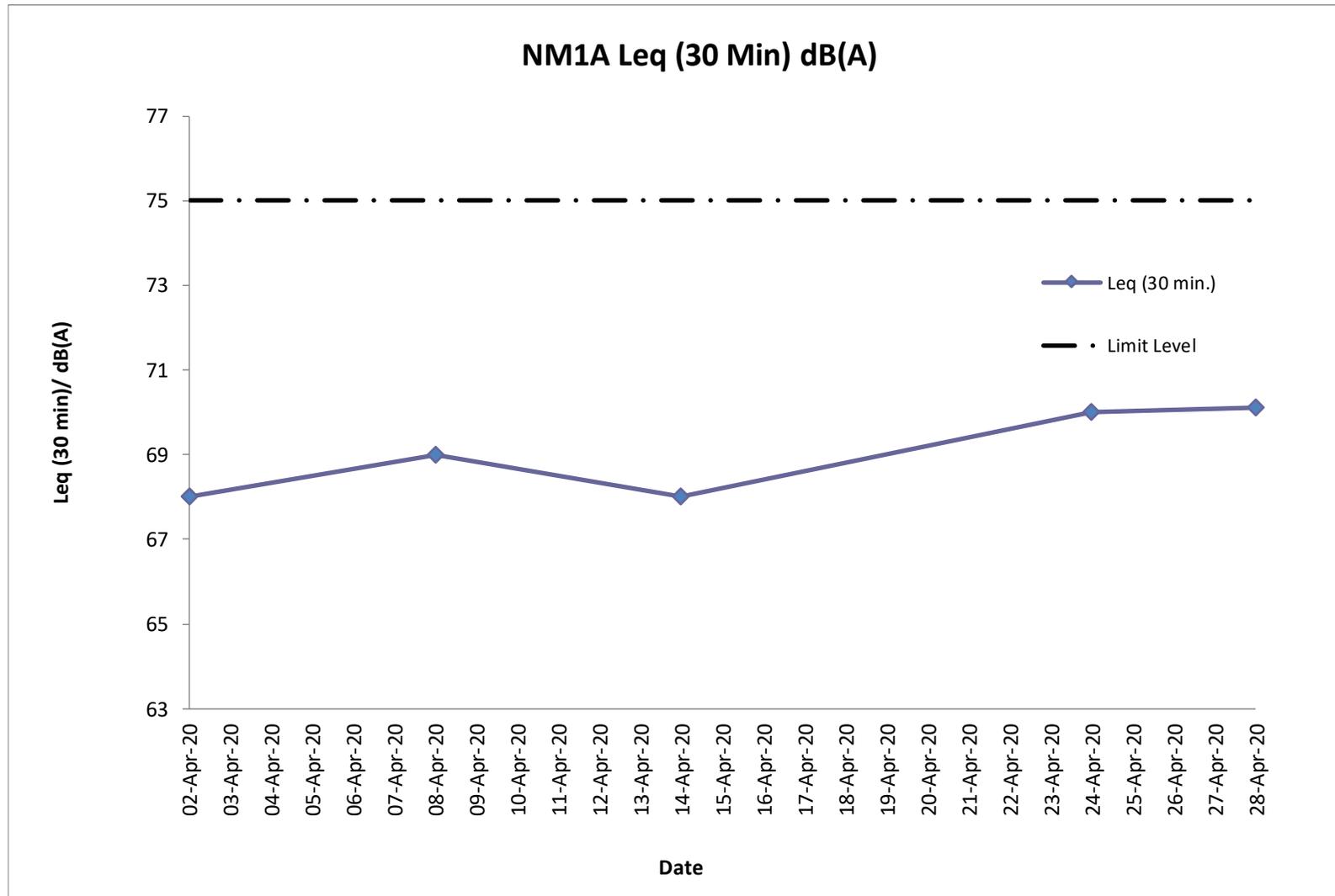
Remarks:

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



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

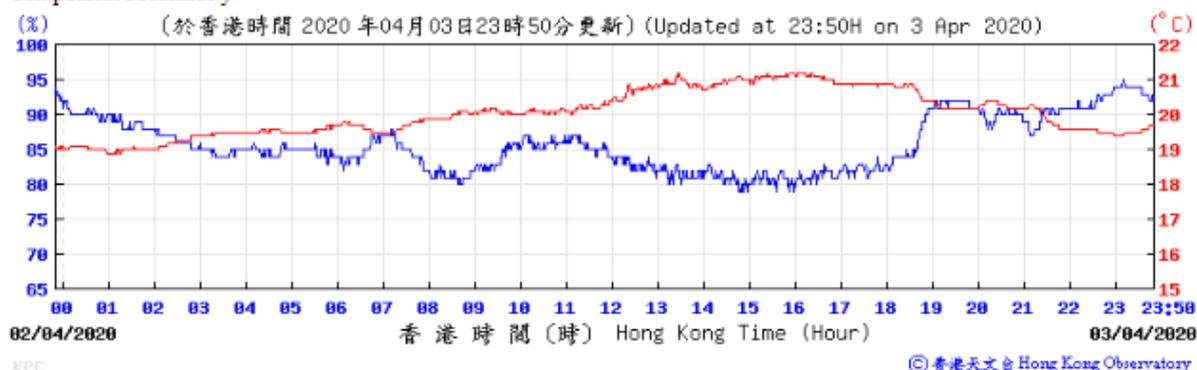
Graphical Presentation Noise Monitoring Result at Station NM1A



H. Meteorological Data Extracted from Hong Kong Observatory

Extract of Meteorological Observations for King's Park Automatic Weather Station, April 2020

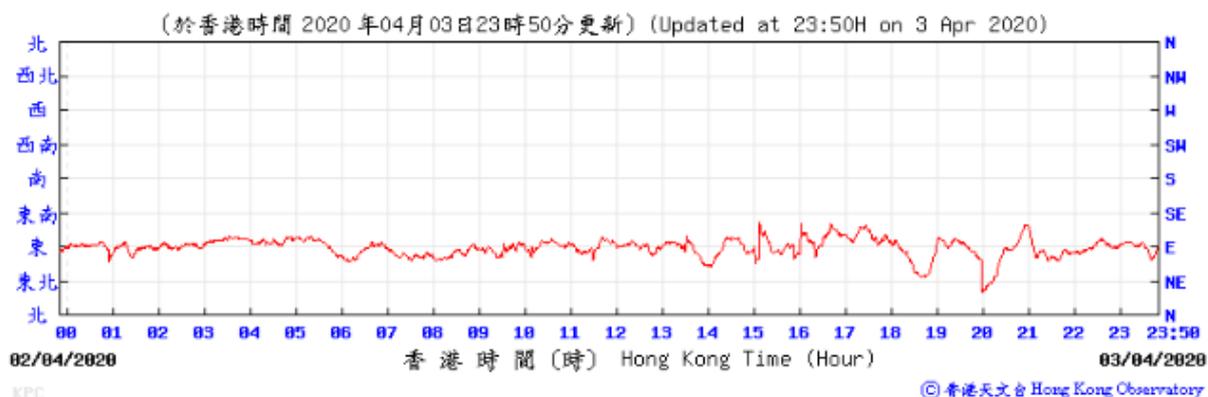
Temperature/Humidity:



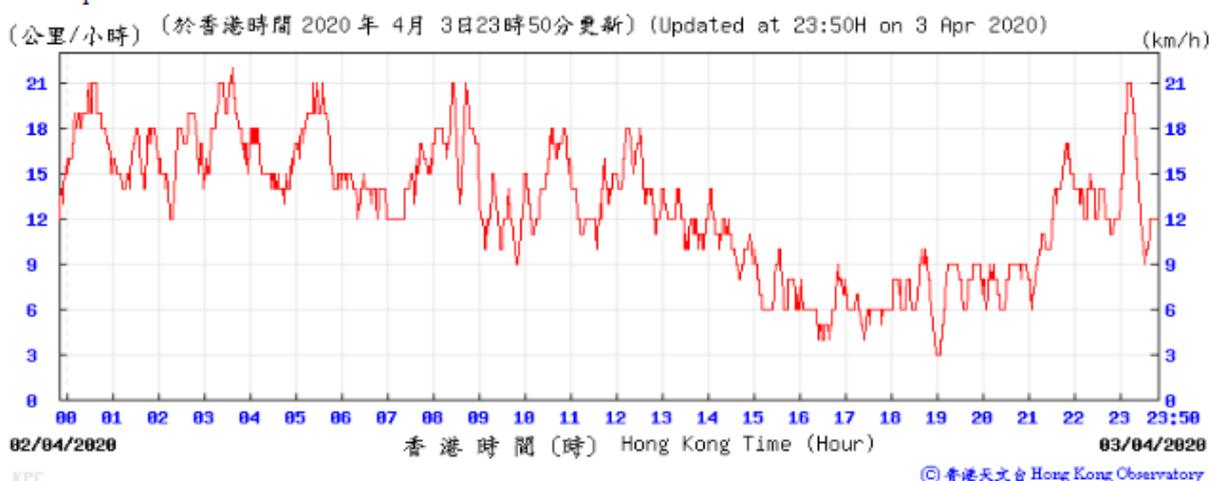
Pressure:



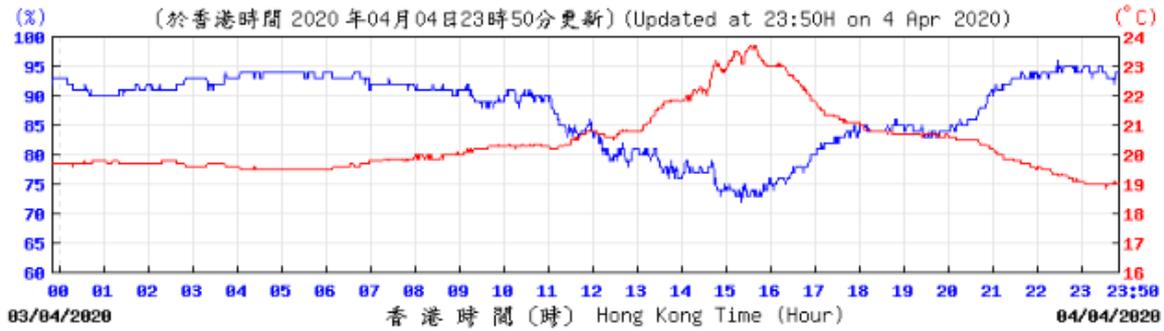
Wind Direction:



Wind Speed:

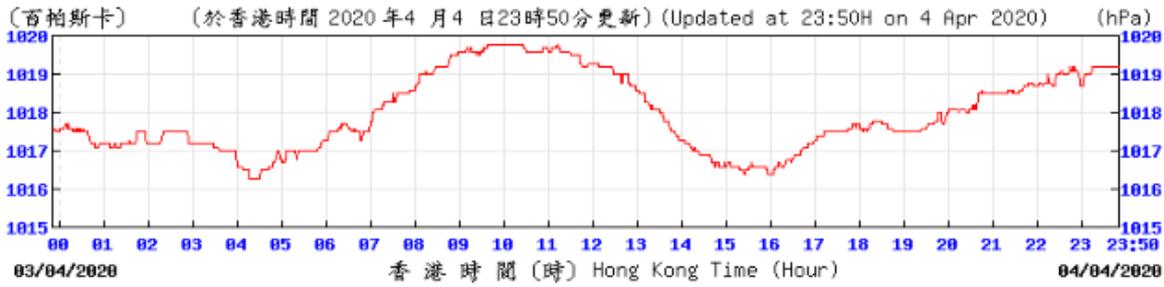


Temperature/Humidity:



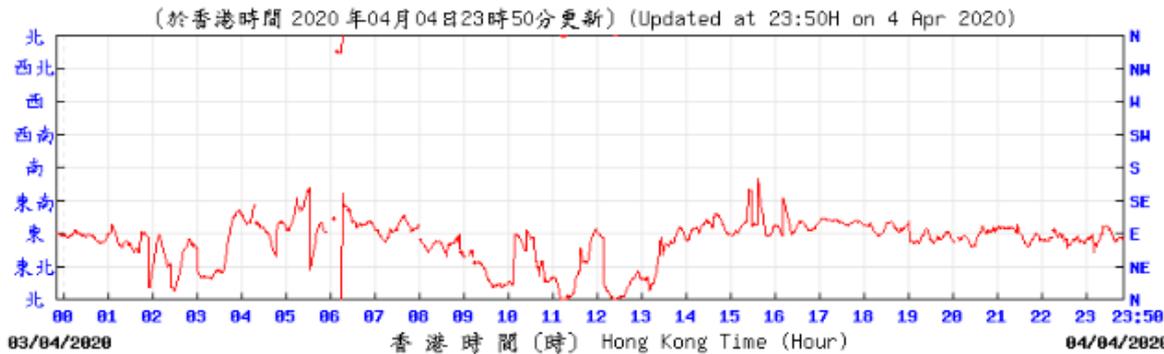
© 香港天文台 Hong Kong Observatory

Pressure:



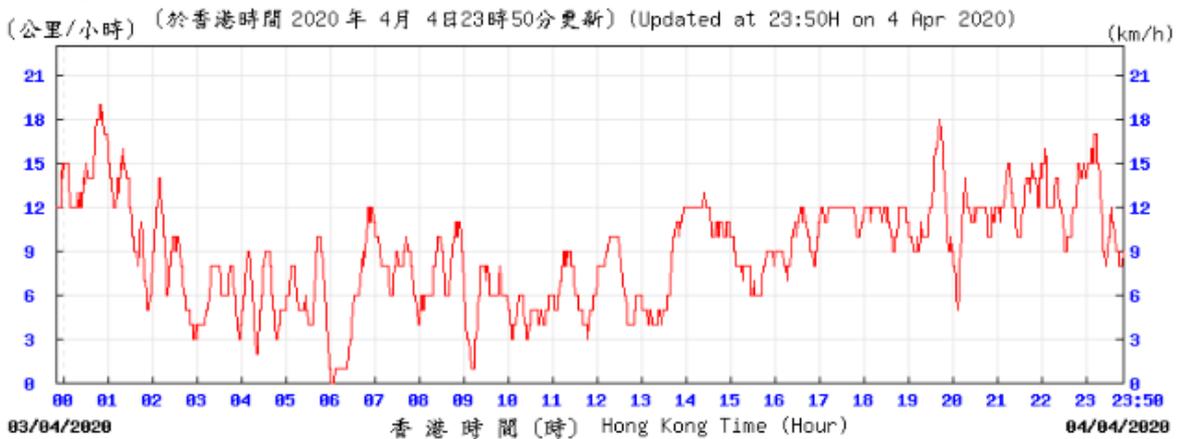
© 香港天文台 Hong Kong Observatory

Wind Direction:



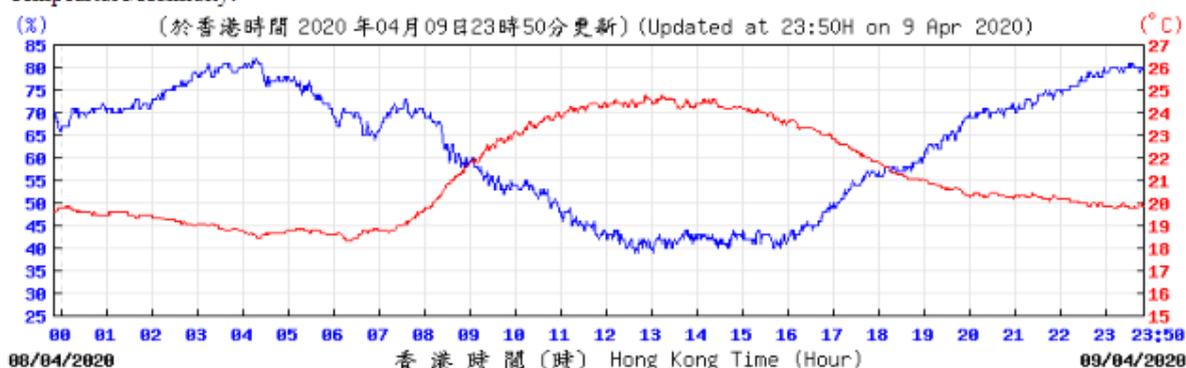
© 香港天文台 Hong Kong Observatory

Wind Speed:



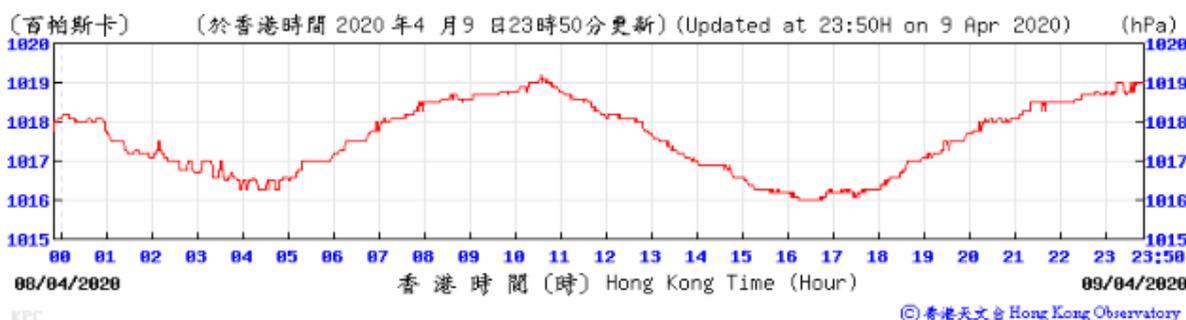
© 香港天文台 Hong Kong Observatory

Temperature/Humidity:



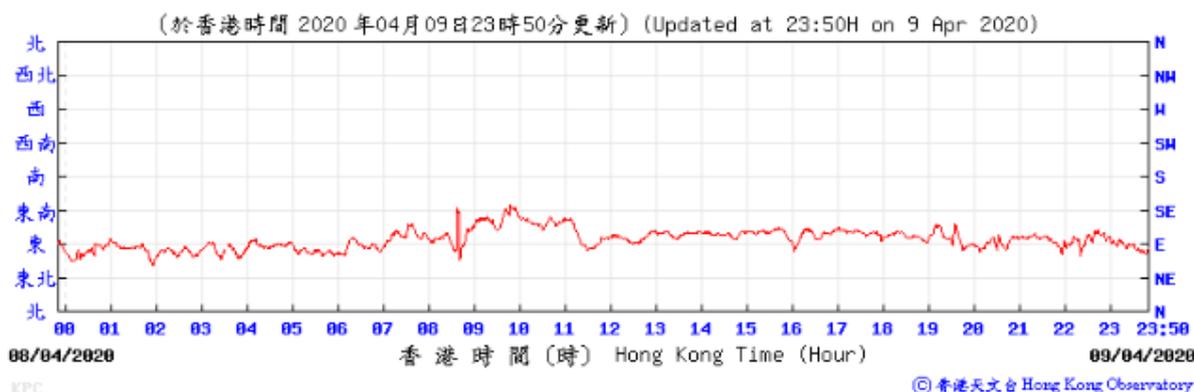
KPC

Pressure:



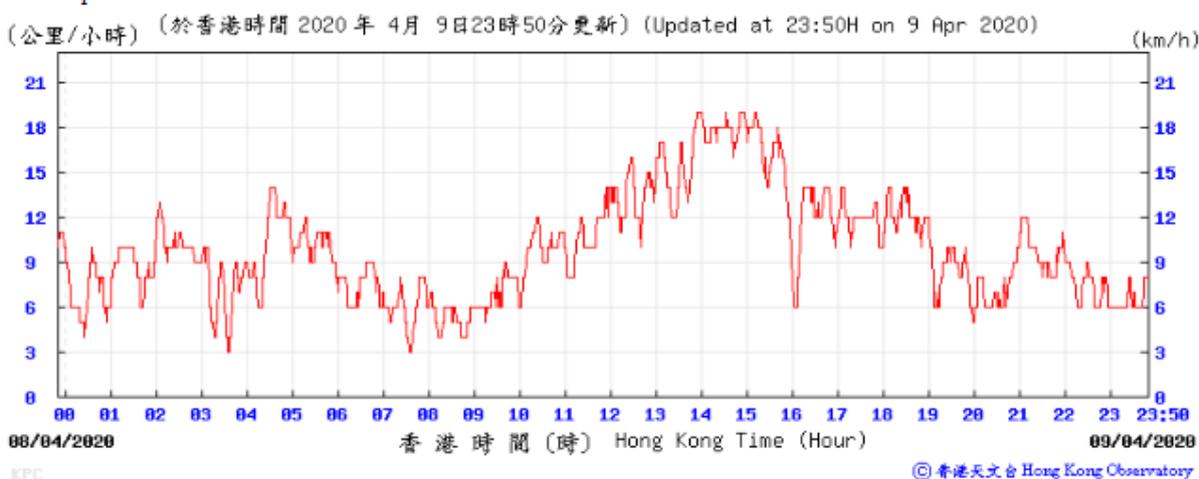
KPC

Wind Direction:



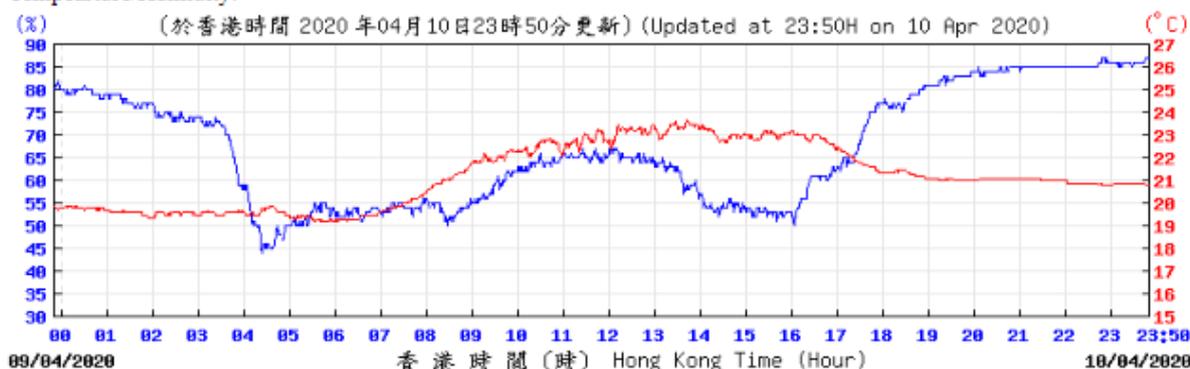
KPC

Wind Speed:



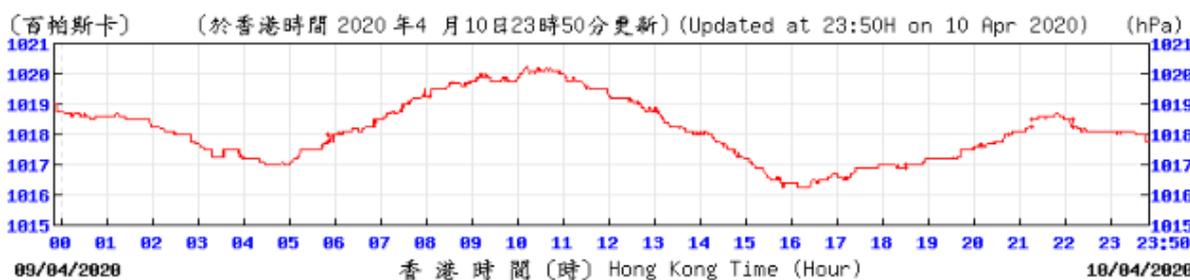
KPC

Temperature/Humidity:



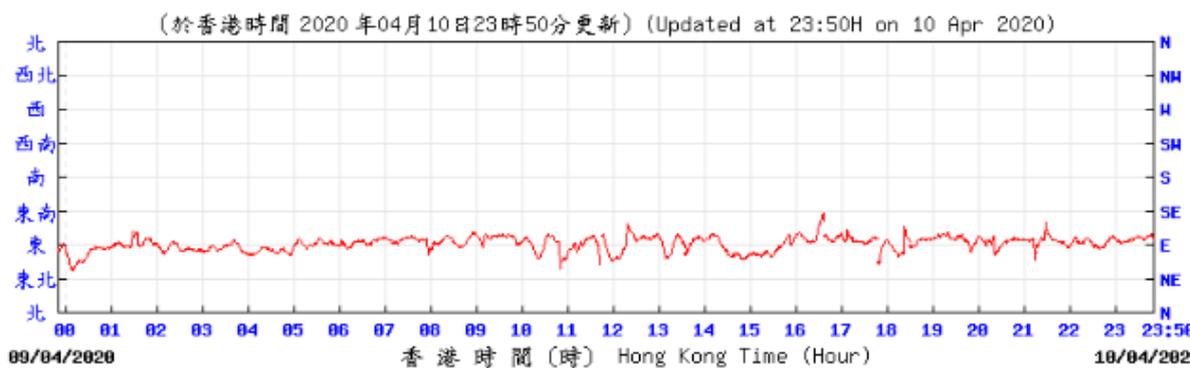
© 香港天文台 Hong Kong Observatory

Pressure:



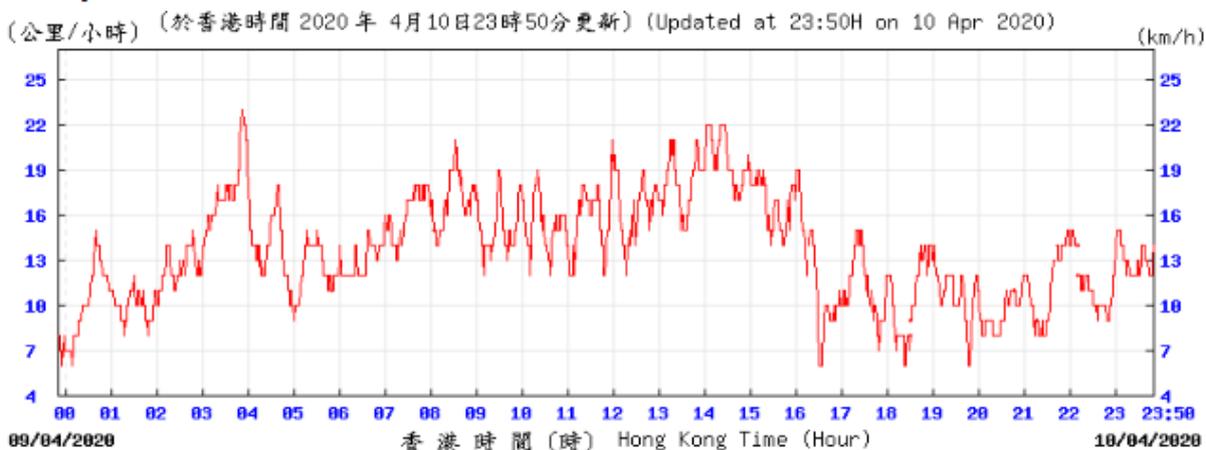
© 香港天文台 Hong Kong Observatory

Wind Direction:



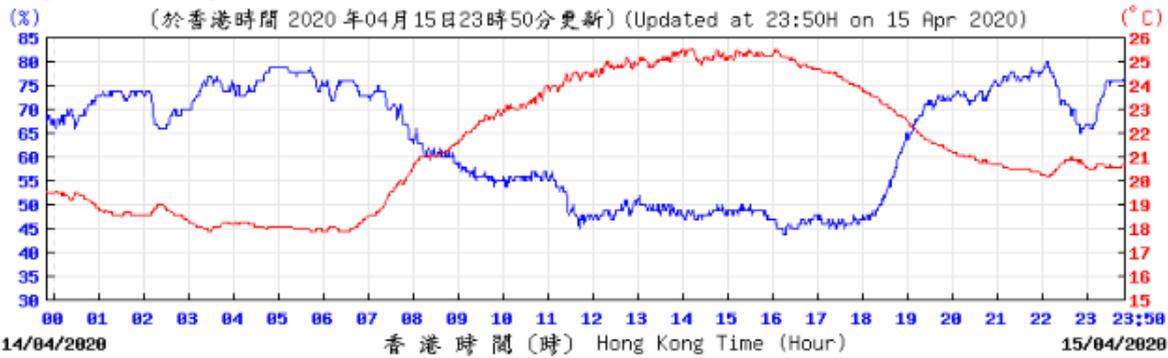
© 香港天文台 Hong Kong Observatory

Wind Speed:



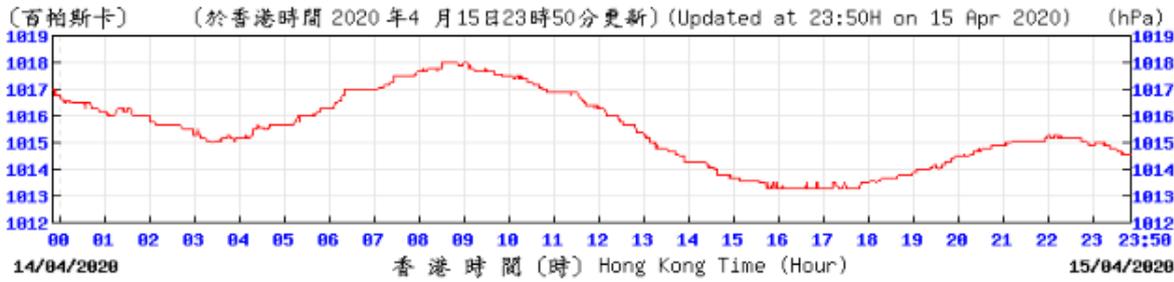
© 香港天文台 Hong Kong Observatory

Temperature/Humidity:



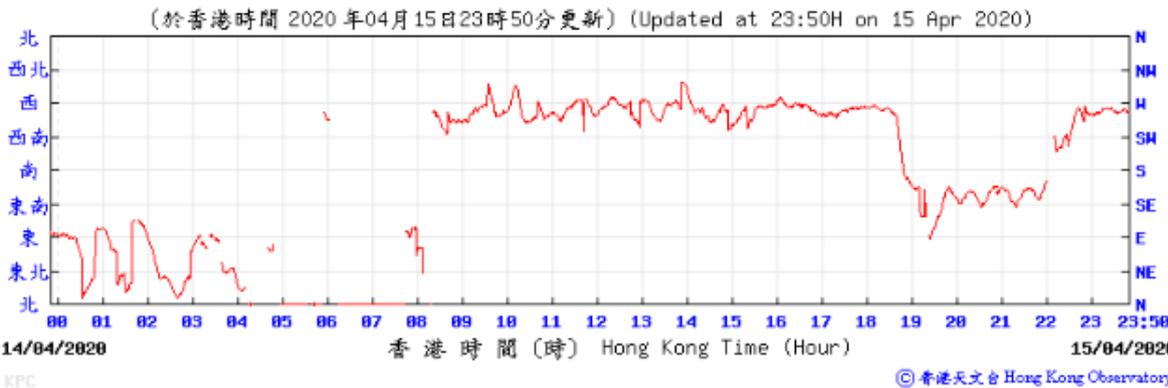
KPC

Pressure:



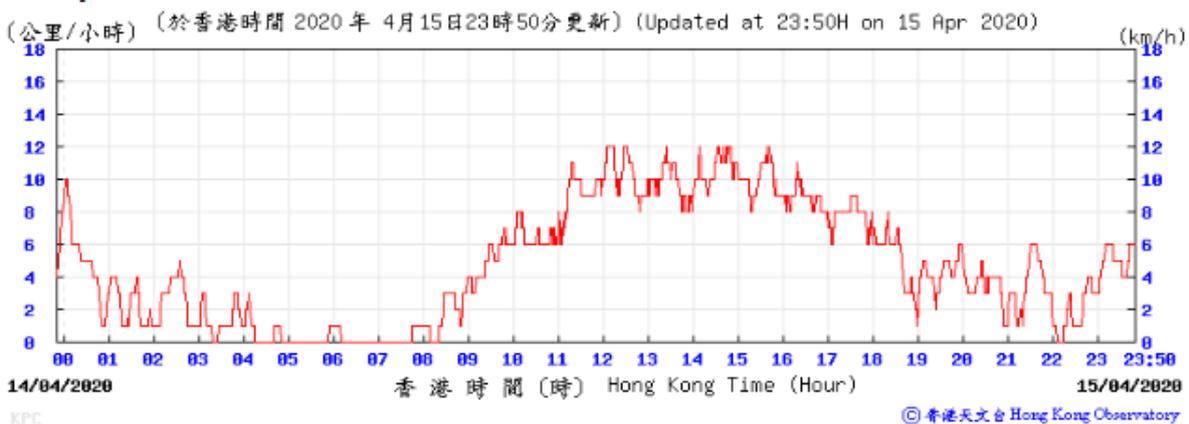
KPC

Wind Direction:



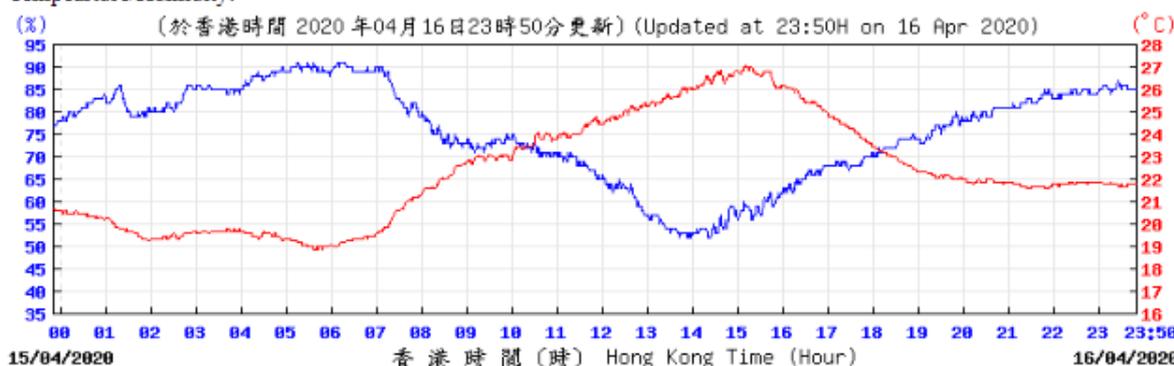
KPC

Wind Speed:



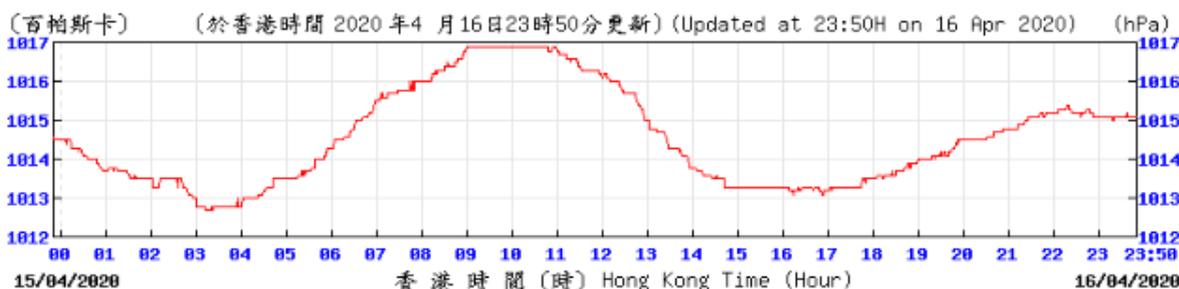
KPC

Temperature/Humidity:



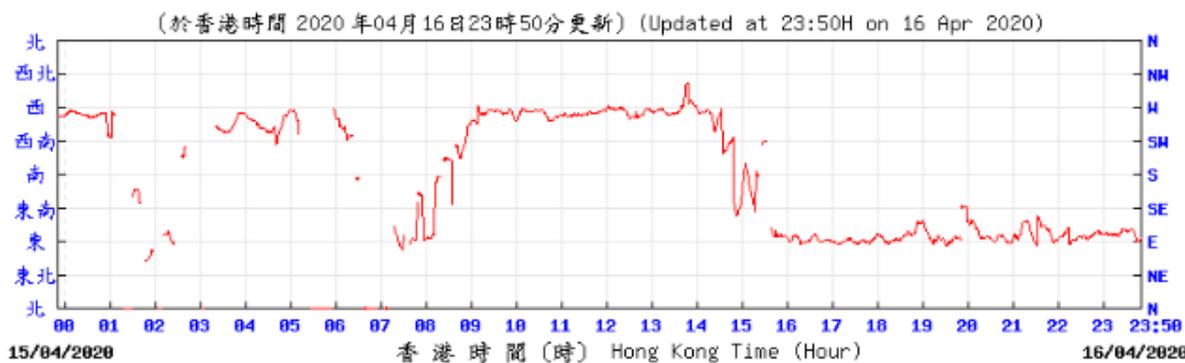
© 香港天文台 Hong Kong Observatory

Pressure:



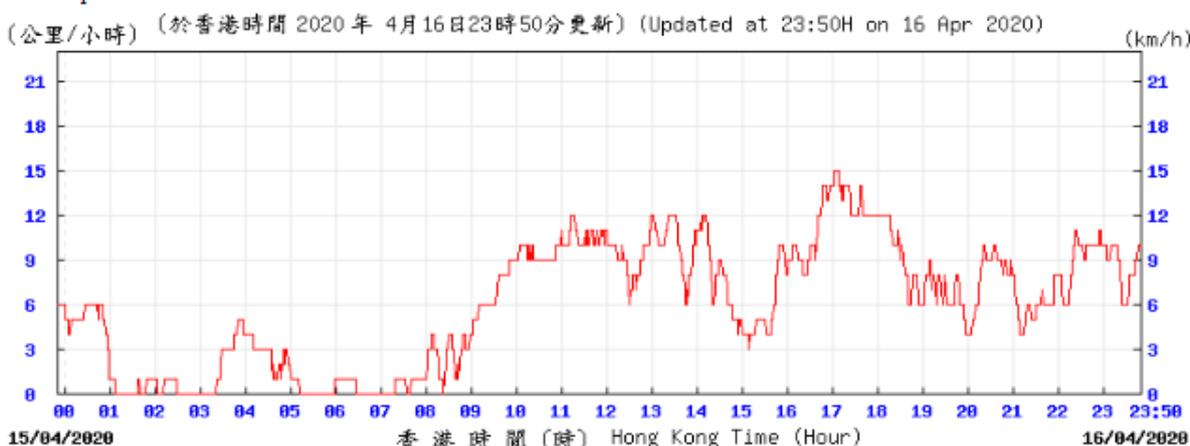
© 香港天文台 Hong Kong Observatory

Wind Direction:



© 香港天文台 Hong Kong Observatory

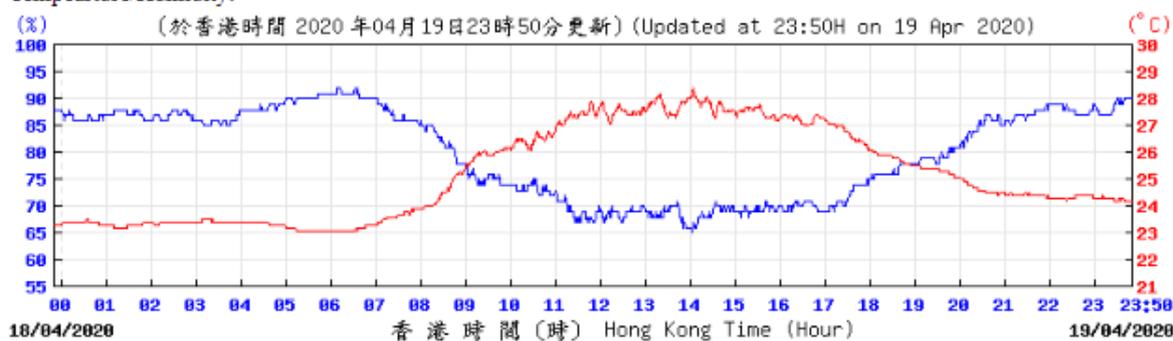
Wind Speed:



© 香港天文台 Hong Kong Observatory

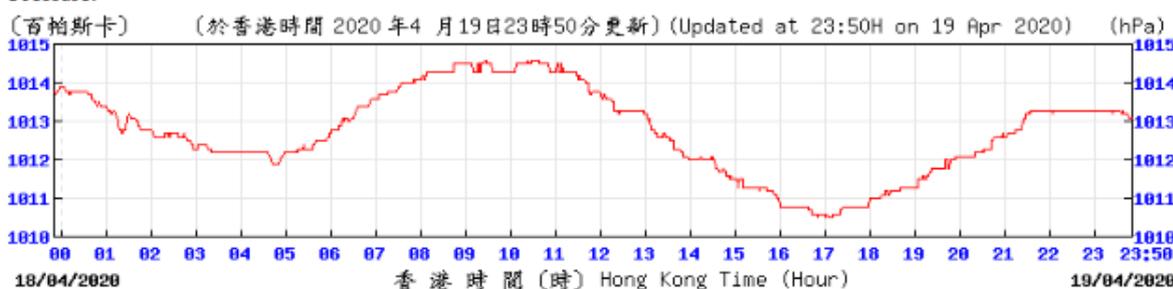
KPC

Temperature/Humidity:



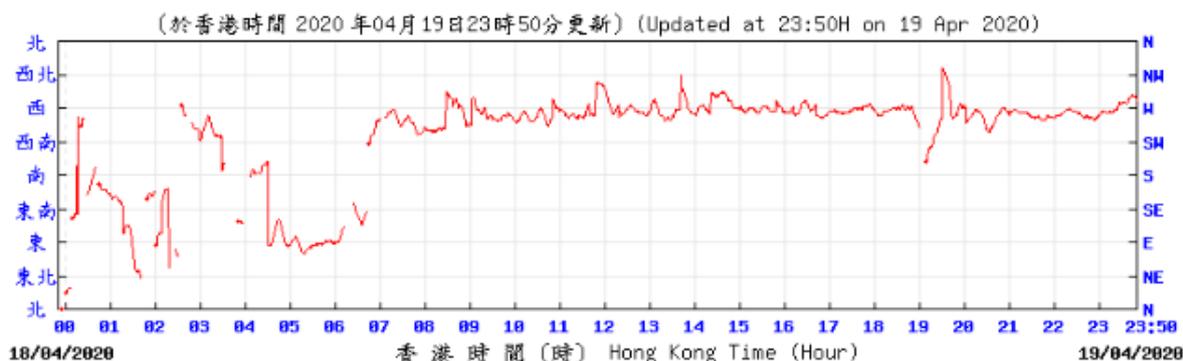
© 香港天文台 Hong Kong Observatory

Pressure:



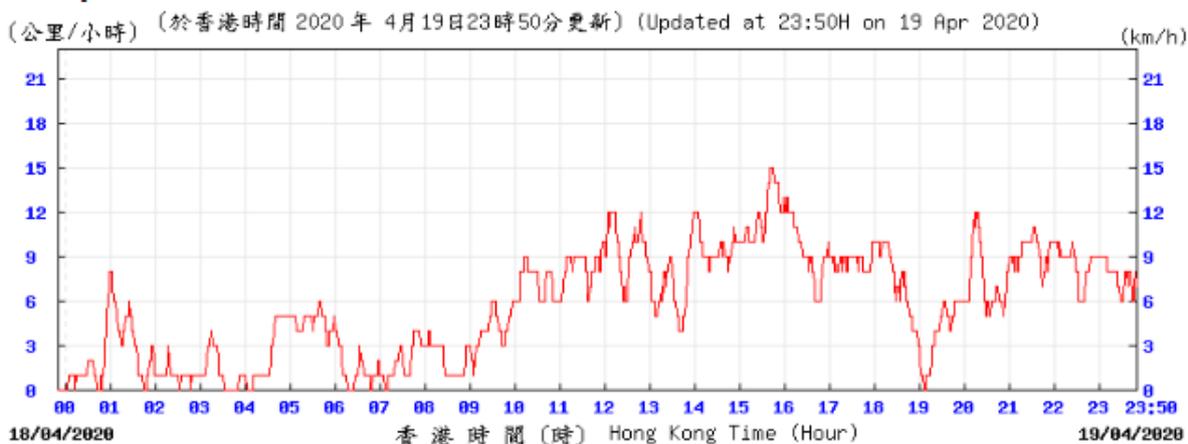
© 香港天文台 Hong Kong Observatory

Wind Direction:



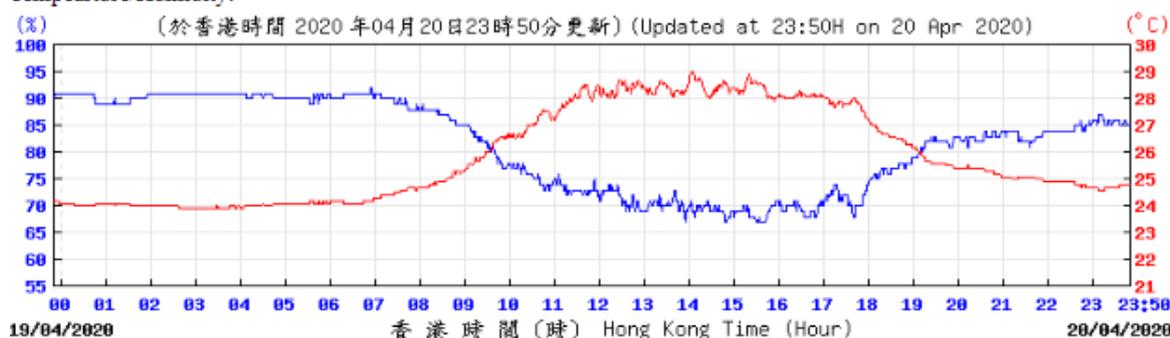
© 香港天文台 Hong Kong Observatory

Wind Speed:



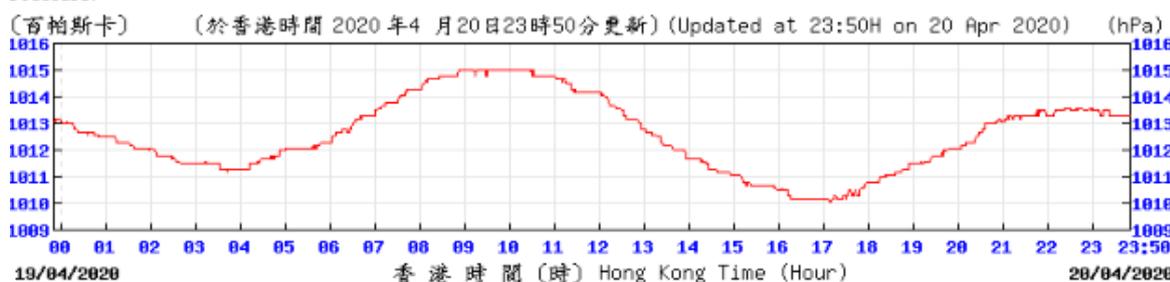
© 香港天文台 Hong Kong Observatory

Temperature/Humidity:



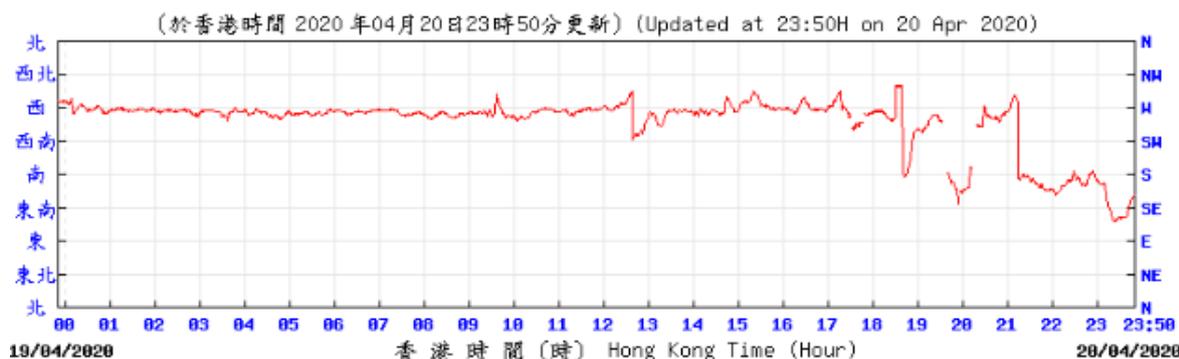
© 香港天文台 Hong Kong Observatory

Pressure:



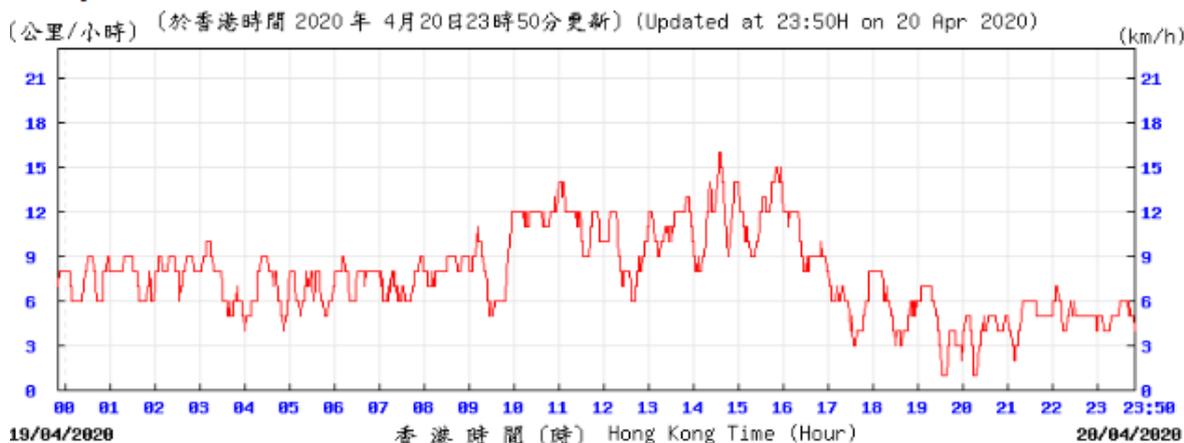
© 香港天文台 Hong Kong Observatory

Wind Direction:



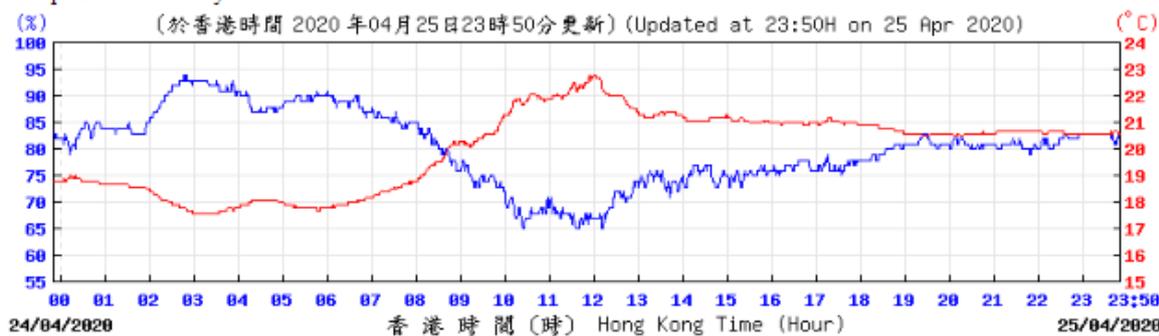
© 香港天文台 Hong Kong Observatory

Wind Speed:



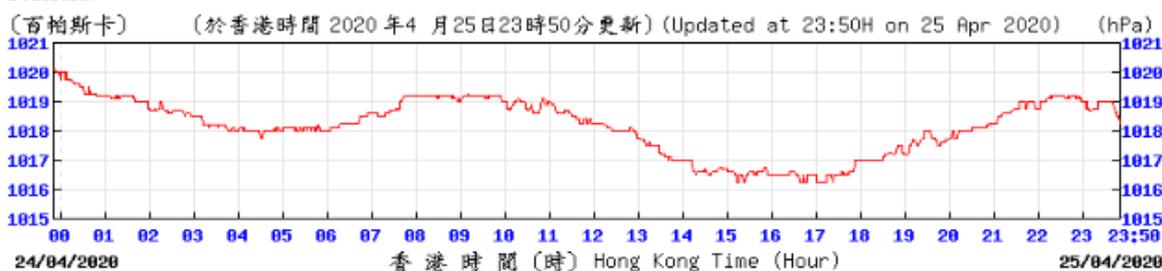
© 香港天文台 Hong Kong Observatory

Temperature/Humidity:



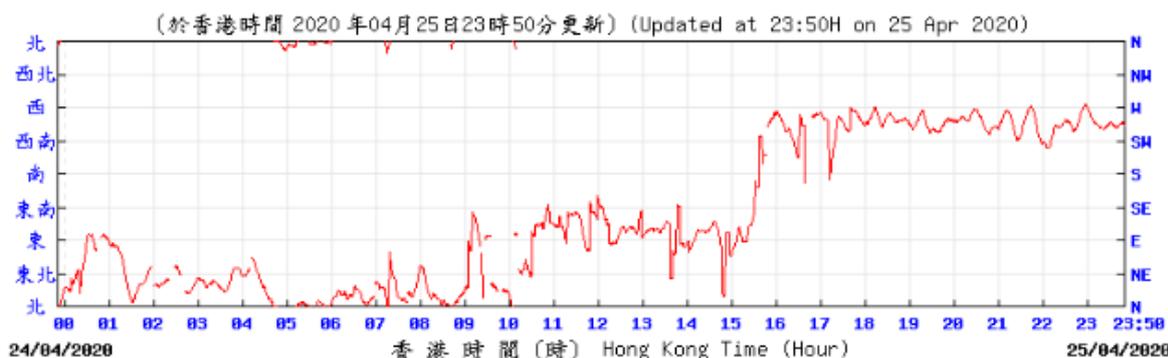
© 香港天文台 Hong Kong Observatory

Pressure:



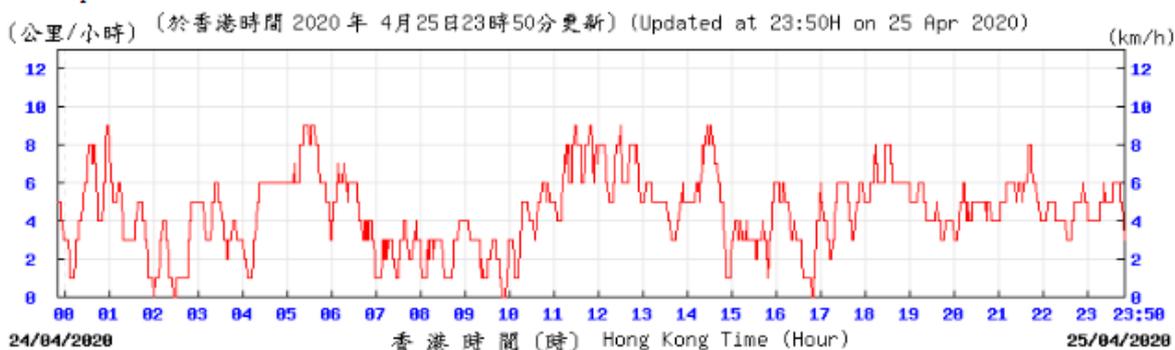
© 香港天文台 Hong Kong Observatory

Wind Direction:



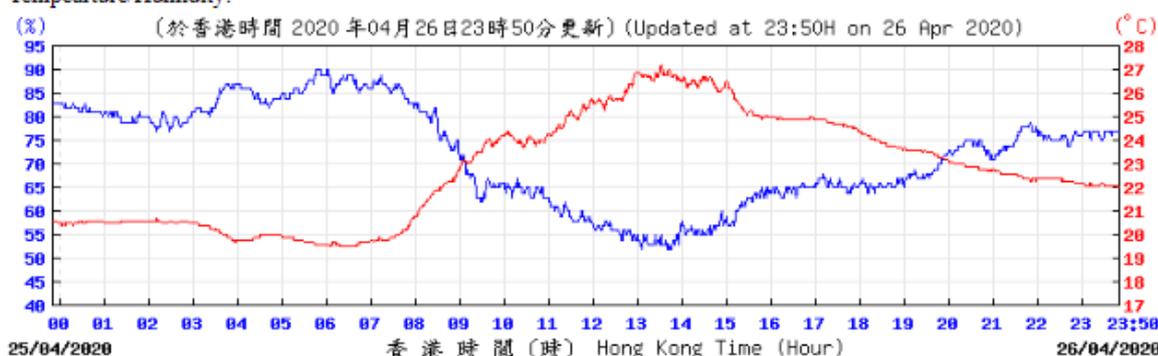
© 香港天文台 Hong Kong Observatory

Wind Speed:

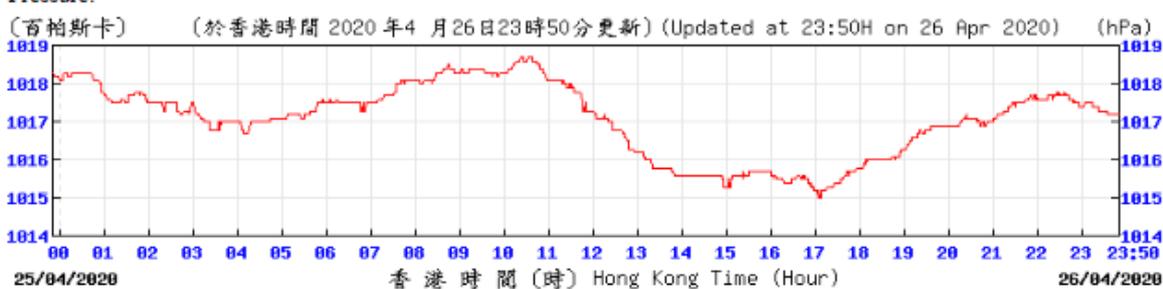


© 香港天文台 Hong Kong Observatory

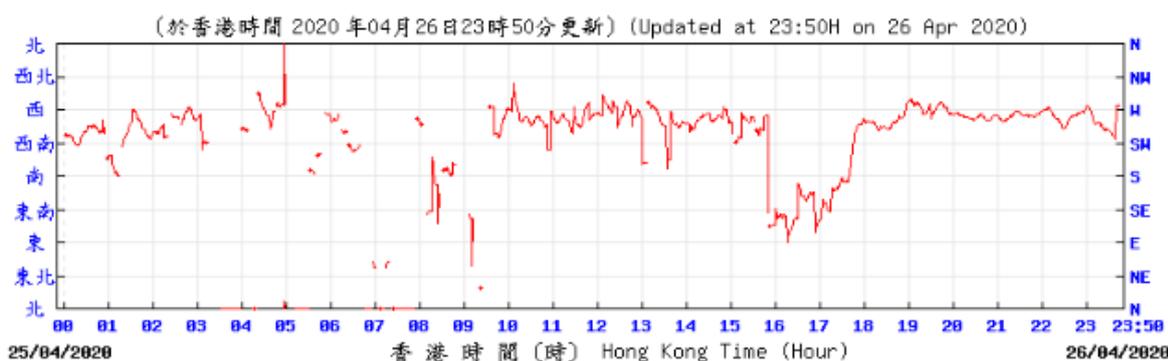
Temperature/Humidity:



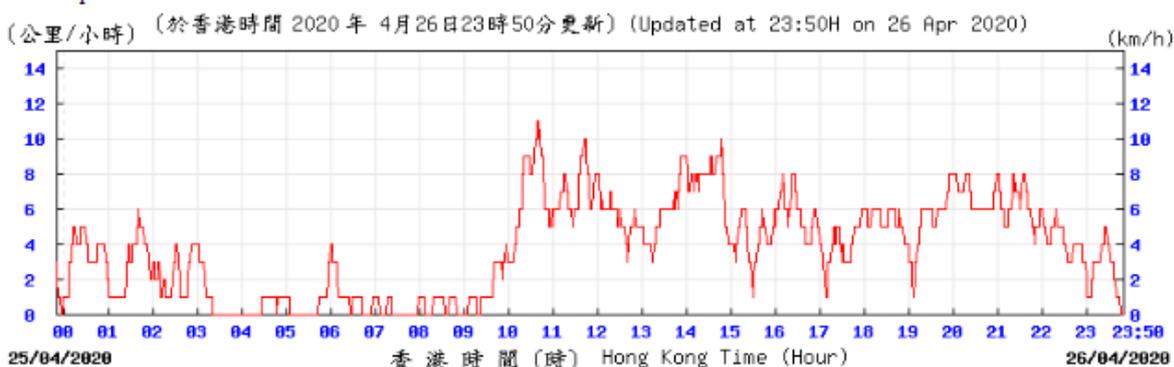
Pressure:



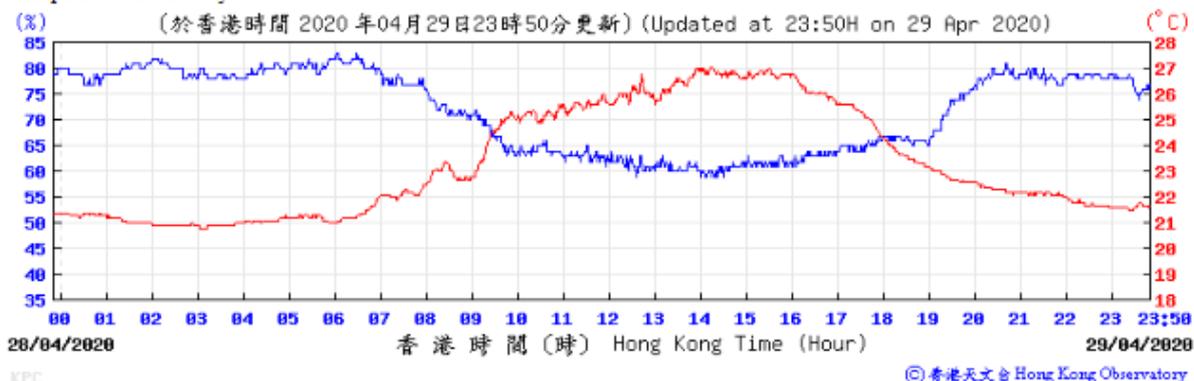
Wind Direction:



Wind Speed:



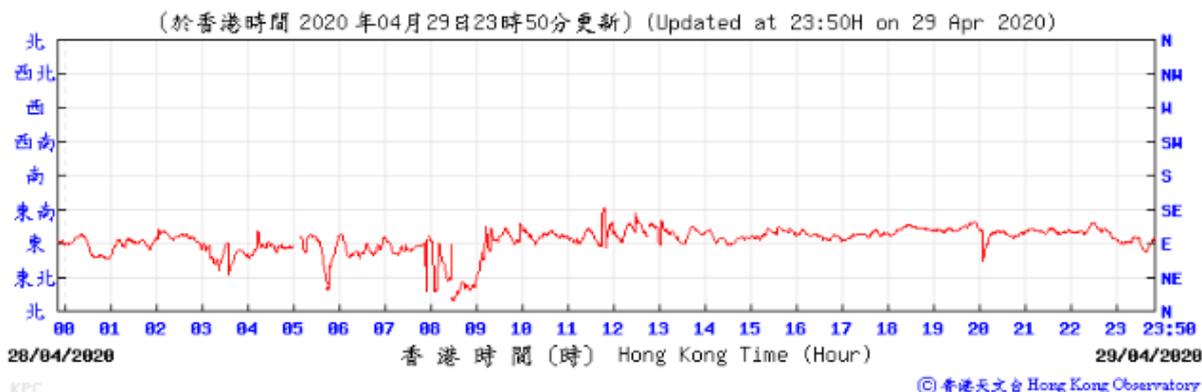
Temperature/Humidity:



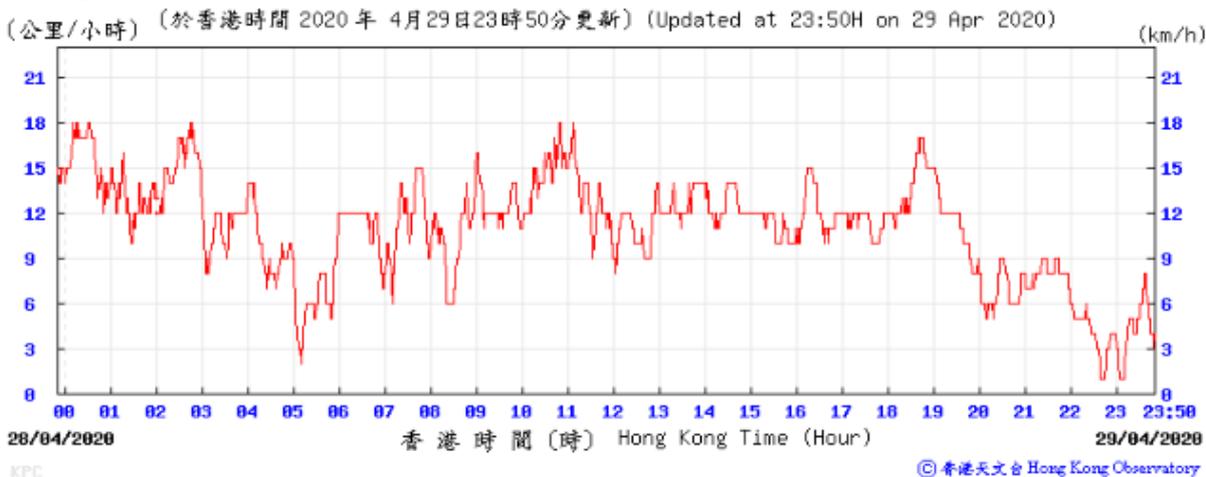
Pressure:



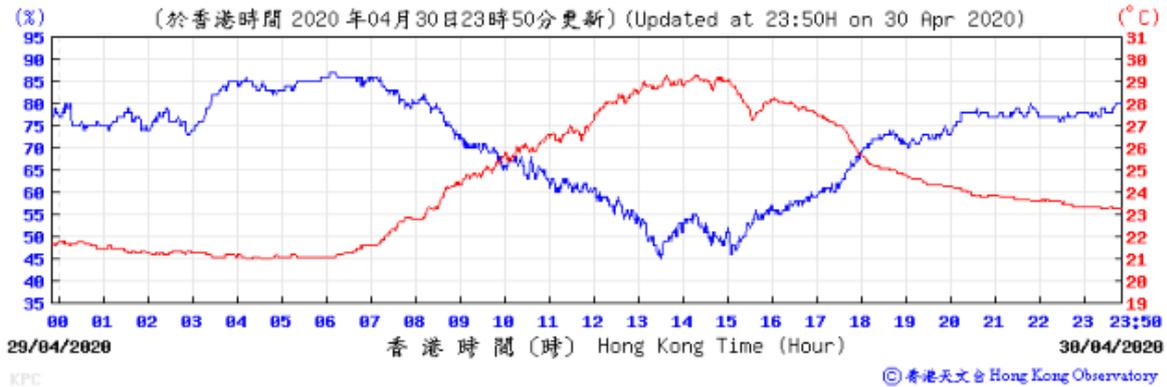
Wind Direction:



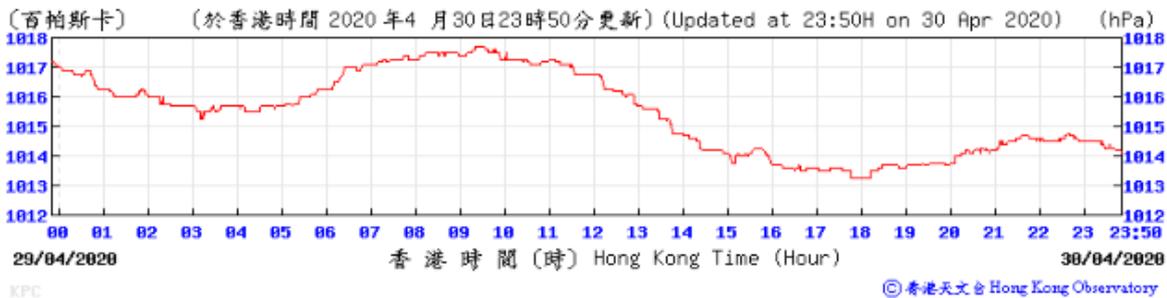
Wind Speed:



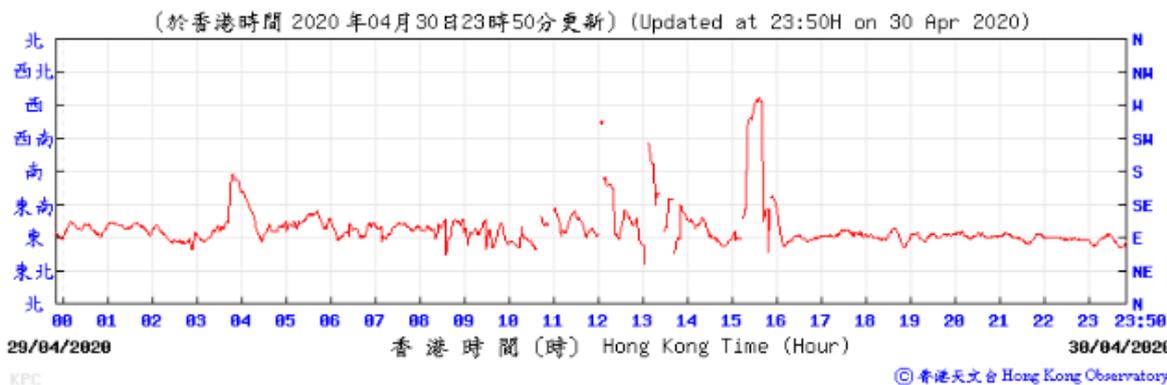
Temperature/Humidity:



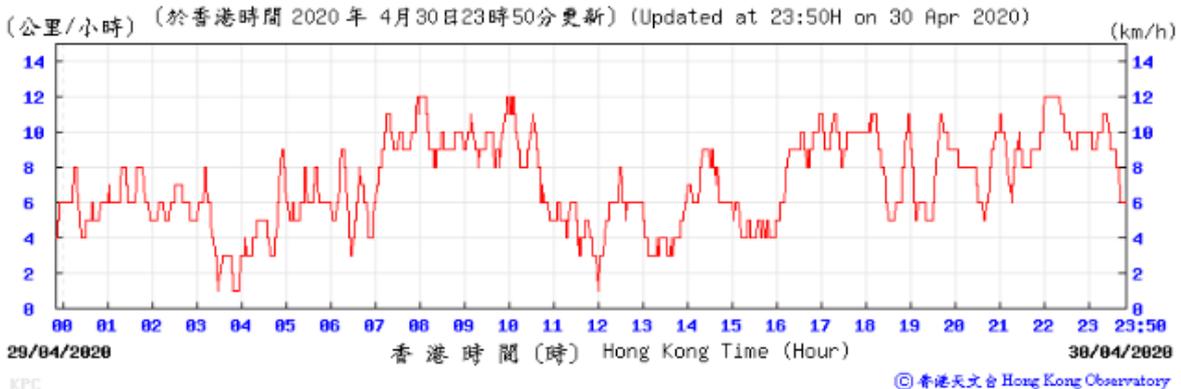
Pressure:



Wind Direction:



Wind Speed:



I. Waste Flow table

M+ Museum

Table I-1: Monthly Waste Flow Table for M+ Museum

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facility	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
2015													
Nov	46607.4	0.0	0.0	8240.0	38367.4	0.0	0.0	76.2	0.0	0.0	0.0	0.0	67.6
Dec	29652.9	0.0	0.0	29621.4	31.5	0.0	0.0	26.3	0.0	0.0	0.0	1.0	66.0
Sub-total (2015)	76260.3	0.0	0.0	37861.4	38398.9	0.0	0.0	102.5	0.0	0.0	0.0	1.0	133.6
2016													
Jan	21077.4	0.0	6352.0	14576.0	149.4	0.0	0.0	18.8	0.0	0.0	0.0	0.0	23.2
Feb	7626.2	0.0	3424.0	4048.0	154.2	0.0	0.0	59.8	0.0	0.0	0.0	0.0	20.5
Mar	10442.5	0.0	1600.0	7888.0	954.5	0.0	0.0	29.7	0.0	0.0	0.0	0.0	46.3
Apr	30413.2	0.0	6352.0	23408.0	653.2	0.0	0.0	25.8	0.1	0.0	27.8	0.0	34.5
May	24083.5	0.0	112.0	23216.0	755.5	0.0	0.0	61.5	0.4	0.0	33.6	0.0	62.3
Jun	7880.1	0.0	4736.0	2384.0	760.1	0.0	0.0	106.6	0.1	0.0	14.6	0.0	52.8
Jul	5893.1	0.0	2656.0	2240.0	997.1	0.0	0.0	77.6	0.0	0.0	33.6	0.0	83.1
Aug	13709.6	0.0	0.0	12432.0	1277.6	0.0	0.0	111.3	0.2	0.0	38.5	0.0	104.9
Sep	6702.0	0.0	0.0	5648.0	1000.1	53.9	0.0	104.2	0.0	0.0	45.5	0.2	107.9
Oct	2103.6	0.0	0.0	496.0	1595.4	12.2	0.0	83.0	0.4	0.0	73.5	0.0	108.2
Nov	3302.7	0.0	0.0	2384.0	855.5	63.2	0.0	88.4	0.6	0.0	63.0	0.0	129.1
Dec	899.8	0.0	0.0	736.0	126.8	37.0	0.0	48.3	0.6	0.0	70.0	0.0	89.0
Sub-total (2016)	134133.5	0.0	25232.0	99456.0	9279.3	166.3	0.0	814.9	2.3	0.0	400.1	0.2	861.8
2017													
Jan	675.2	0.0	0.0	432.0	237.9	5.3	0.0	79.5	1.0	0.0	70.0	0.0	79.7
Feb	927.7	0.0	0.0	768.0	125.6	34.0	0.0	70.5	0.6	0.0	84.0	0.0	81.4
Mar	1856.7	0.0	0.0	1280.0	466.9	109.8	0.0	62.8	0.4	0.0	98.0	0.0	148.5
Apr	642.4	0.0	0.0	160.0	324.9	157.5	0.0	87.5	0.7	0.0	175.0	0.0	102.5
May	1118.2	0.0	0.0	528.0	416.4	173.7	0.0	118.3	0.0	0.0	280.0	0.0	139.0
Jun	650.0	0.0	0.0	0.0	451.6	198.4	0.0	199.7	1.4	0.0	350.0	0.0	98.7
Jul	1762.0	0.0	0.0	0.0	1466.6	295.4	0.0	36.9	1.2	0.0	244.0	0.0	164.2
Aug	1231.5	0.0	0.0	0.0	867.5	364.0	0.0	82.5	0.9	0.0	59.0	0.0	186.9
Sep	1681.7	0.0	0.0	0.0	1342.0	339.7	0.0	114.3	0.7	0.0	77.0	0.0	265.3
Oct	483.6	0.0	0.0	0.0	242.5	241.1	0.0	458.1	0.6	0.0	24.1	0.0	128.5
Nov	822.8	0.0	0.0	0.0	344.5	478.3	0.0	1168.9	0.7	0.0	140.0	0.2	219.1
Dec	601.3	0.0	0.0	0.0	236.2	365.1	0.0	995.8	0.8	0.0	320.0	0.0	241.9
Sub-total (2017)	12453.0	0.0	0.0	3168.0	6522.6	2762.4	0.0	3474.8	8.9	0.0	1921.1	0.2	1855.5

Table I-1: Monthly Waste Flow Table for M+ Museum

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facility	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
2018													
Jan	1015.3	0.0	0.0	0.0	574.1	441.2	0.0	634.6	1.5	0.0	100.0	0.0	183.6
Feb	847.6	0.0	0.0	0.0	608.3	239.3	0.0	14.2	1.0	0.0	25.0	0.0	154.9
Mar	1507.0	0.0	0.0	0.0	1102.1	404.9	0.0	647.5	1.5	0.0	120.0	0.0	264.1
Apr	2942.8	0.0	0.0	0.0	2542.4	400.4	0.0	253.4	0.3	0.0	100.0	0.0	252.5
May	2109.2	0.0	0.0	0.0	1593.3	515.9	0.0	179.4	0.4	0.0	70.0	0.0	311.4
Jun	1697.6	0.0	0.0	0.0	1162.4	535.2	0.0	81.3	0.3	0.0	105.0	0.0	188.2
Jul	945.5	0.0	0.0	0.0	646.1	299.4	0.0	47.6	0.4	0.0	150.0	0.0	277.6
Aug	730.8	0.0	0.0	0.0	461.4	269.4	0.0	29.3	0.0	0.0	40.0	0.0	109.1
Sep	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
Oct	1193.1	0.0	0.0	0.0	895.7	297.5	0.0	130.8	2.7	0.0	200.0	0.0	116.6
Nov	1608.9	0.0	0.0	0.0	841.1	767.7	0.0	142.4	1.1	0.0	245.0	0.0	213.9
Dec	1313.8	0.0	0.0	170.4	341.9	801.5	0.0	352.7	0.8	0.0	180.0	0.0	198.2
Sub-total (2018)	15911.4	0.0	0.0	170.4	10768.7	4972.3	0.0	2513.1	9.9	0.0	1335.0	0.0	2270.2
2019													
Jan	1632.5	0.0	0.0	153.6	572.3	906.6	0.0	587.8	0.8	0.0	40.0	0.0	303.9
Feb	618.5	0.0	0.0	0.0	397.4	221.2	0.0	158.3	1.2	0.0	20.0	0.0	429.7
Mar	1555.1	0.0	0.0	441.6	920.2	193.2	0.0	371.3	0.0	0.0	20.0	0.0	645.2
Apr	327.4	0.0	0.0	0.0	127.3	200.2	0.0	291.4	1.3	0.0	300.0	0.9	477.4
May	712.8	0.0	0.0	361.9	116.7	234.3	0.0	197.4	0.8	0.0	320.0	0.0	531.1
Jun	219.9	0.0	0.0	0.0	95.6	124.4	0.0	199.6	0.5	0.0	350.0	0.0	448.0
Jul	445.8	0.0	0.0	0.0	171.6	274.1	0.0	137.7	1.1	0.0	300.0	0.6	553.1
Aug	692.6	0.0	0.0	55.2	354.1	283.3	0.0	139.1	0.0	0.0	0.0	0.0	596.8
Sep	549.4	0.0	0.0	72.0	218.2	259.2	0.0	367.8	0.0	0.0	420.0	0.0	560.5
Oct	373.0	0.0	0.0	0.0	204.4	168.6	0.0	161.9	0.0	1.2	450.0	0.4	657.7
Nov	681.1	0.0	0.0	192.0	263.0	226.1	0.0	143.9	0.7	0.9	380.0	0.0	659.8
Dec	727.5	0.0	0.0	240.0	341.0	146.5	0.0	476.1	0.8	0.7	345.0	0.0	682.3
Sub-total (2019)	8535.5	0.0	0.0	1516.3	3781.6	3237.7	0.0	3232.3	7.1	2.8	2945.0	1.9	6545.5
2020													
Jan	404.3	0.0	0.0	0.0	351.1	53.2	0.0	224.2	0.8	0.0	335.0	0.0	523.7
Feb	699.4	0.0	0.0	144.0	511.3	44.1	0.0	61.0	1.7	1.6	280.0	0.0	333.2
Mar	613.8	0.0	0.0	144.0	459.4	10.4	0.0	69.2	0.6	0.7	140.0	0.0	394.9
Apr	365.5	0.0	0.0	0.0	333.6	31.9	0.0	406.5	0.9	0.0	0.0	0.0	389.4
Sub-total (2020)	2083.0	0.0	0.0	288.0	1655.4	139.7	0.0	761.0	3.9	2.4	755.0	0.0	1641.2
Total	249376.7	0.0	25232.0	142460.1	70406.3	11278.3	0.0	10898.6	32.1	5.1	7356.2	3.2	13307.8

Table I-1: Monthly Waste Flow Table for M+ Museum

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facility	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)

Note:

- 0 tonnes, 0 tonnes, 333.58 tonnes, 31.94 tonnes of inert C&D material were disposed of as public fill to Chai Wan Public Fill Barging Point, Tuen Mun Area 38, Tseung Kwan O Area 137 Public Fill and Tseung Kwan O Area 137 Sorting Facility respectively in the reporting month.

- For inert C&D materials reused in other projects, the projects refer to (1) Green Valley; (2) Advance Works for Shek Wu Hui Sewage Treatment Works (3) Design and Construction of Kai Tak Cable Tunnel, CLP; (4) MTR Contract 1002 Whampoa Station and Overrun Tunnel; (5) CEDD Tuen Mun Area 54 Contract No. CV/2015/03; (6) Union Construction Ltd.'s site; (7) Foundation Works at Marriot Hotel at Ocean Park.(8) Ming Tai warehouses (9) No.1 Plantation Road; (10) L1 Lyric Theatre; (11) sales to Ho Jet Plant

L1

Table I-2: Monthly Waste Flow Table for L1

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

Table I-2: Monthly Waste Flow Table for L1

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facility	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
2018													
Jan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
Mar	6120.2	0.0	0.0	5782.0	338.2	0.0	0.0	0.0	0.0	1.0	0.0	0.5	17.6
Apr	14460.3	0.0	0.0	12484.1	1976.3	0.0	0.0	0.0	0.0	0.2	0.0	0.0	7.6
May	59783.7	0.0	0.0	46989.0	12794.7	0.0	0.0	59.6	0.0	0.0	0.0	0.0	9.4
Jun	53117.5	0.0	0.0	37642.8	15474.7	0.0	0.0	51.5	0.2	0.0	0.0	0.0	12.8
Jul	89901.5	0.0	0.0	85317.1	4584.4	0.0	165.1	114.6	0.0	0.0	0.0	0.0	41.3
Aug	35137.3	0.0	0.0	33731.6	1405.7	0.0	214.3	148.1	0.0	0.0	0.0	0.0	48.5
Sep	4924.3	0.0	0.0	4641.2	196.1	87.0	174.6	40.0	0.0	0.0	0.0	0.0	179.2
Oct	19099.9	0.0	0.0	11301.0	7642.8	156.1	0.0	106.3	0.4	0.0	0.0	0.0	528.5
Nov	104168.0	0.0	0.0	79811.6	24351.0	5.3	0.0	54.5	0.0	0.6	0.0	0.0	31.5
Dec	62989.9	0.0	0.0	51284.4	11699.9	5.6	0.0	95.1	0.0	0.6	0.0	0.0	65.9
Sub-total (2018)	449702.6	0.0	0.0	368984.8	80463.7	254.0	553.9	669.7	0.5	2.4	0.0	0.5	943.7
2019													
Jan	74479.1	0.0	0.0	69249.5	5229.7	0.0	318.0	326.7	0.2	0.0	0.0	0.0	76.3
Feb	21969.9	0.0	0.0	17723.9	4246.0	0.0	16.5	55.2	0.0	0.0	0.0	0.0	26.7
Mar	19311.4	0.0	0.0	8569.4	10742.0	0.0	337.8	64.5	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	66768.6	0.0	0.0	24009.7	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)	318316.2	0.0	0.0	153666.0	164500.1	150.1	938.9	788.8	0.6	4.6	0.0	0.6	959.0

Table I-2: Monthly Waste Flow Table for L1

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facility	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
2020													
Jan	7089.9	0.0	0.0	0.0	7089.9	0.0	0.0	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	0.0	0.0	0.0	138.3
Apr	4997.9	0.0	0.0	1615.7	3382.2	0.0	159.2	1123.9	0.0	0.0	0.0	0.0	113.2
Sub-total (2020)	35469.2	0.0	0.0	1615.7	33853.4	0.0	269.6	1429.8	0.3	0.0	0.0	0.0	383.5
Total	977719.8	0.0	0.0	543317.6	433974.7	427.5	1762.4	3409.8	2.5	8.5	0.0	12.5	2615.1

Note:

- 1,256.33 tonnes and 2,125.86 tonnes of inert C&D material were disposed of as public fill to Tseung Kwan O Area 137 Public Fill and Tuen Mun Area 38 Public Fill respectively in the reporting month.

- Construction works for the Lyric Theatre Complex foundation were commenced on March 2016 and completed on January 2018. Construction works for the L1 Contract were commenced on January 2018.

L2

J. Environmental Mitigation Measures – Implementation Status

Table J-1: Environmental Mitigation Measures Implementation Status (April 2020)

EM&A Ref.	Recommendation Measures	Implementation Stage		
		M+ Museum	L1	L2
Air Quality Impact (Construction)				
2.1 & 10.3.1	General Dust Control Measures Frequent water spraying for active construction areas (12 times a day or once every one hour), including Heavy construction activities such as construction of buildings or roads, drilling, ground excavation, cut and fill operations (i.e., earth moving)	Obs	Rem	✓
2.1 & 10.3.1	Best Practice For Dust Control The relevant best practices for dust control as stipulated in the Air Pollution Control (construction Dust) Regulation should be adopted to further reduce the construction dust impacts from the Project. These best practices include: <i>Good Site Management</i>			
	<ul style="list-style-type: none"> Good site management is important to help reducing potential air quality impact down to an acceptable level. As a general guide, the Contractor should maintain high standard of housekeeping to prevent emission of fugitive dust. Loading, unloading, handling and storage of raw materials, wastes or by-products should be carried out in a manner so as to minimise the release of visible dust emission. Any piles of materials accumulated on or around the work areas should be cleaned up regularly. Cleaning, repair and maintenance of all plant facilities within the work areas should be carried out in a manner minimising generation of fugitive dust emissions. The material should be handled properly to prevent fugitive dust emission before cleaning. 	✓	✓	✓
	<i>Disturbed Parts of the Roads</i>			
	<ul style="list-style-type: none"> Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet. 	✓	✓	✓

EM&A Ref.	Recommendation Measures	Implementation Stage		
		M+ Museum	L1	L2
	<i>Exposed Earth</i>			
	<ul style="list-style-type: none"> Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seeding with latex, vinyl, bitumen within six months after the last construction activity on the site or part of the site where the exposed earth lies. 	N/A No exposed earth in this project.	N/A No exposed earth in this project.	N/A No exposed earth in this project.
	<i>Loading, Unloading or Transfer of Dusty Materials</i>			
	<ul style="list-style-type: none"> All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet. 	✓	✓	✓
	<i>Debris Handling</i>			
	<ul style="list-style-type: none"> Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides. Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped. 	Rem ✓	Rem ✓	✓ ✓
	<i>Transport of Dusty Materials</i>			
	<ul style="list-style-type: none"> Vehicle used for transporting dusty materials/spoils should be covered with tarpaulin or similar material. The cover should extend over the edges of the sides and tailboards. 	✓	✓	✓
	<i>Wheel washing</i>			
	<ul style="list-style-type: none"> Vehicle wheel washing facilities should be provided at each construction site exit. Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels. 	✓	✓	✓
	<i>Use of vehicles</i>			
	<ul style="list-style-type: none"> The speed of the trucks within the site should be controlled to about 10km/hour in order to reduce adverse dust impacts and secure the safe movement around the site. Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels. Where a vehicle leaving the construction site is carrying a load of dusty materials, the load should be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle. 	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓

EM&A Ref.	Recommendation Measures	Implementation Stage		
		M+ Museum	L1	L2
	<p><i>Site hoarding</i></p> <ul style="list-style-type: none"> Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit. 	✓	✓	✓
2.1 & 10.3.1	<p>Best Practicable Means for Cement Works (Concrete Batching Plant)</p> <p>The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Cement Works (Concrete Batching Plant) BPM 3/2(93) should be followed and implemented to further reduce the construction dust impacts of the Project. These best practices include:</p> <p>Exhaust from Dust Arrestment Plant</p> <ul style="list-style-type: none"> Wherever possible the final discharge point from particulate matter arrestment plant, where is not necessary to achieve dispersion from residual pollutants, should be at low level to minimise the effect on the local community in the case of abnormal emissions and to facilitate maintenance and inspection <p>Emission Limits</p> <ul style="list-style-type: none"> All emissions to air, other than steam or water vapour, shall be colourless and free from persistent mist or smoke <p>Engineering Design/Technical Requirements</p> <ul style="list-style-type: none"> As a general guidance, the loading, unloading, handling and storage of fuel, raw materials, products, wastes or by-products should be carried out in a manner so as to prevent the release of visible dust and/or other noxious or offensive emissions 	<p>N/A</p> <p>No concrete batching plant in this project.</p>	<p>N/A</p> <p>No concrete batching plant in this project.</p>	<p>N/A</p> <p>No concrete batching plant in this project.</p>
-	<p>Non-Road Mobile Machinery (NRMM):</p> <p>All NRMMs operating on-site which are subject to emission control of Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation are approved/exempted (as the case may be) and affixed with the requisite approval/exemption labels.</p>	✓	✓	✓

EM&A Ref.	Recommendation Measures	Implementation Stage		
		M+ Museum	L1	L2
Noise Impact (Construction)				
3.1 & 10.4.1	<p>Good Site Practice</p> <p>Good site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The following package of measures should be followed during each phase of construction:</p> <ul style="list-style-type: none"> only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works; machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs; mobile plant should be sited as far away from NSRs as possible; and material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities. 	✓	✓	✓
3.1 & 10.4.1	<p>Adoption of Quieter PME</p> <p>The recommended quieter PME adopted in the assessment were taken from the EPD's QPME Inventory and "<i>Sound Power Levels of Other Commonly Used PME</i>" are presented in Table 4.26 in the EIA report. It should be noted that the silenced PME selected for assessment can be found in Hong Kong.</p>	✓	✓	✓
3.1 & 10.4.1	<p>Use of Movable Noise Barriers</p> <p>Movable noise barriers can be very effective in screening noise from particular items of plant when constructing the Project. Noise barriers located along the active works area close to the noise generating component of a PME could produce at least 10 dB(A) screening for stationary plant and 5 dB(A) for mobile plant provided the direct line of sight between the PME and the NSRs is blocked.</p>	✓	✓	✓
3.1 & 10.4.1	<p>Use of Noise Enclosure/ Acoustic Shed</p> <p>The use of noise enclosure or acoustic shed is to cover stationary PME such as air compressor and concrete pump. With the adoption of the noise enclosure, the PME could be completely screened, and noise reduction of 15 dB(A) can be achieved according to the EIAO Guidance Note No. 9/2010.</p>	✓	✓	✓

EM&A Ref.	Recommendation Measures	Implementation Stage		
		M+ Museum	L1	L2
3.1 & 10.4.1	<p>Use of Noise Insulating Fabric</p> <p>Noise insulating fabric can also be adopted for certain PME (e.g. drill rig, pilling machine etc). The fabric should be lapped such that there are no openings or gaps on the joints. According to the approved Tsim Sha Tsui Station Northern Subway EIA report (AEIAR-127/2008), a noise reduction of 10 dB(A) can be achieved for the PME lapped with the noise insulating fabric.</p>	Obs	✓	✓
3.1 & 10.4.1	<p>Scheduling of Construction Works outside School Examination Periods</p> <p>During construction phase, the contractor should liaise with the educational institutions (including NSRs LCS and CRGPS) to obtain the examination schedule and avoid the noisy construction activities during school examination periods.</p>	N/A No educational institutions nearby the site.	N/A No educational institutions nearby the site.	N/A No educational institutions nearby the site.
Water Quality Impact (Construction)				
4.1 & 10.5.1	<p>Construction site runoff and drainage</p> <p>The site practices outlined in ProPECC Note PN 1/94 should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. The following measures are recommended to protect water quality and sensitive uses of the coastal area, and when properly implemented should be sufficient to adequately control site discharges so as to avoid water quality impacts:</p> <ul style="list-style-type: none"> At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels, earth bunds or sand bag barriers should be provided on site to direct storm water to silt removal facilities. The design of the temporary on-site drainage system should be undertaken by the WKCDA's Contractor prior to the commencement of construction; 	✓	✓	✓

EM&A Ref.	Recommendation Measures	Implementation Stage		
		M+ Museum	L1	L2
	<ul style="list-style-type: none"> 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. 	✓	✓	✓
	<ul style="list-style-type: none"> 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	✓
	<ul style="list-style-type: none"> 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. 	✓	✓	✓
	<ul style="list-style-type: none"> 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. 	✓	✓	✓
	<ul style="list-style-type: none"> 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. 	✓	✓	✓

EM&A Ref.	Recommendation Measures	Implementation Stage		
		M+ Museum	L1	L2
	<ul style="list-style-type: none"> 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. 	✓	✓	✓
	<ul style="list-style-type: none"> Precautions should be taken at any time of the year when rainstorms are likely. Actions should be taken when a rainstorm is imminent or forecasted and actions to be taken during or after rainstorms are summarized in Appendix A2 of ProPECC Note PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes. 	✓	✓	✓
	<ul style="list-style-type: none"> Bentonite slurries used in piling or slurry walling should be reconditioned and reused wherever practicable. Temporary enclosed storage locations should be provided on-site for any unused bentonite that needs to be transported away after all the related construction activities are completed. The requirements in ProPECC Note PN 1/94 should be adhered to in the handling and disposal of bentonite slurries. 	N/A No bentonite slurries are used in this project.	N/A No bentonite slurries are used in this project.	N/A No bentonite slurries are used in this project.
	<p>Barging facilities and activities</p> <p>Recommendations for good site practices during operation of the proposed barging point include:</p>			
	<ul style="list-style-type: none"> All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; 	N/A No barging facilities in this project.	N/A No barging facilities in this project.	N/A No barging facilities in this project.
	<ul style="list-style-type: none"> Loading of barges and hoppers should be controlled to prevent splashing of material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation; 	N/A No barging facilities in this project.	N/A No barging facilities in this project.	N/A No barging facilities in this project.
	<ul style="list-style-type: none"> All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; and 	N/A No barging facilities in this project.	N/A No barging facilities in this project.	N/A No barging facilities in this project.
	<ul style="list-style-type: none"> Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site. 	N/A No barging facilities in this project.	N/A No barging facilities in this project.	N/A No barging facilities in this project.

EM&A Ref.	Recommendation Measures	Implementation Stage		
		M+ Museum	L1	L2
4.1 & 10.5.1	Sewage effluent from construction workforce Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	✓	✓	✓
4.1 & 10.5.1	General construction activities			
	<ul style="list-style-type: none"> Construction solid waste, debris and refuse generated on-site should be collected, handled and disposed of properly to avoid entering any nearby storm water drain. Stockpiles of cement and other construction materials should be kept covered when not being used. 	✓	✓	✓
	<ul style="list-style-type: none"> 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. 	✓	✓	✓
Waste Management Implications (Construction)				
6.1 & 10.7.1	Good Site Practices Recommendations for good site practices during the construction activities include:			
	<ul style="list-style-type: none"> Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site 	✓	✓	✓
	<ul style="list-style-type: none"> Training of site personnel in proper waste management and chemical handling procedures 	✓	✓	✓
	<ul style="list-style-type: none"> Provision of sufficient waste disposal points and regular collection of waste 	✓	✓	✓
	<ul style="list-style-type: none"> Appropriate measures to minimise windblown litter and dust/odour during transportation of waste by either covering trucks or by transporting wastes in enclosed containers 	✓	✓	✓

EM&A Ref.	Recommendation Measures	Implementation Stage		
		M+ Museum	L1	L2
	<ul style="list-style-type: none"> Provision of wheel washing facilities before the trucks leaving the works area so as to minimise dust introduction to public roads Well planned delivery programme for offsite disposal such that adverse environmental impact from transporting the inert or non-inert C&D materials is not anticipated 	✓	✓	✓
6.1 & 10.7.1	<p>Waste Reduction Measures</p> <p>Recommendations to achieve waste reduction include:</p> <ul style="list-style-type: none"> Sort inert C&D material to recover any recyclable portions such as metals Segregation and storage of different types of waste in different containers or skips to enhance reuse or recycling of materials and their proper disposal Encourage collection of recyclable waste such as waste paper and aluminium cans by providing separate labelled bins to enable such waste to be segregated from other general refuse generated by the work force Proper site practices to minimise the potential for damage or contamination of inert C&D materials Plan the use of construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of wastes 	✓	✓	✓
6.1 & 10.7.1	<p>Inert and Non-inert C&D Materials</p> <p>In order to minimise impacts resulting from collection and transportation of inert C&D material for off-site disposal, the excavated materials should be reused on-site as fill material as far as practicable. In addition, inert C&D material generated from excavation works could be reused as fill materials in local projects that require public fill for reclamation.</p> <ul style="list-style-type: none"> The surplus inert C&D material will be disposed of at the Government's PFRFs for beneficial use by other projects in Hong Kong. Liaison with the CEDD Public Fill Committee (PFC) on the allocation of space for disposal of the inert C&D materials at PFRF is underway. No construction work is allowed to proceed until all issues on management of inert C&D materials have been resolved and all relevant arrangements have been endorsed by the relevant authorities including PFC and EPD. 	✓	✓	✓

EM&A Ref.	Recommendation Measures	Implementation Stage		
		M+ Museum	L1	L2
	<ul style="list-style-type: none"> 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. 	✓	✓	✓
	<ul style="list-style-type: none"> In order to monitor the disposal of inert and non-inert C&D materials at respectively PFRFs and the designated landfill site, and to control fly-tipping, it is recommended that the Contractor should follow the Technical Circular (Works) No. 6/2010 for Trip Ticket System for Disposal of Construction & Demolition Materials issued by Development Bureau. In addition, it is also recommended that the Contractor should prepare and implement a Waste Management Plan detailing their various waste arising and waste management practices in accordance with the relevant requirements of the Technical Circular (Works) No. 19/2005 Environmental Management on Construction Site. 	✓	✓	✓
6.1 & 10.7.1	Chemical Waste <ul style="list-style-type: none"> If chemical wastes are produced at the construction site, the Contractor will be required to register with the EPD as a chemical waste producer and to follow the guidelines stated in the "Code of Practice on the Packaging Labelling and Storage of Chemical Wastes". Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor should use a licensed collector to transport and dispose of the chemical wastes at the approved Chemical Waste Treatment Centre or other licensed recycling facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. Potential environmental impacts arising from the handling activities (including storage, collection, transportation and disposal of chemical waste) are expected to be minimal with the implementation of appropriate mitigation measures as recommended. 	✓	Obs	✓
		✓	Obs	✓

EM&A Ref.	Recommendation Measures	Implementation Stage		
		M+ Museum	L1	L2
6.1 & 10.7.1	<p>General Refuse</p> <p>General refuse should be stored in enclosed bins or compaction units separated from inert C&D materials. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from inert C&D materials. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.</p>	✓	✓	✓
Land Contamination (Construction)				
7.1 & 10.8.1	<p>The potential for land contamination issues at the TST Fire Station due to its future relocation will be confirmed by site investigation after land acquisition. Where necessary, mitigation measures for minimising potential exposure to contaminated materials (if any) or remediation measures will be identified. If contaminated land is identified (e.g., during decommissioning of fuel oil storage tanks) after the commencement of works, mitigation measures are proposed in order to minimise the potentially adverse effects on the health and safety of construction workers and impacts arising from the disposal of potentially contaminated materials.</p> <p>The following measures are proposed for excavation and transportation of contaminated material:</p> <ul style="list-style-type: none"> To minimize the chance for construction workers to come into contact with any contaminated materials, bulk earth-moving excavation equipment should be employed; 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; Stockpiling of contaminated excavated materials on site should be avoided as far as possible; The use of contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out; 	<p>N/A</p> <p>No mitigation measure is required.</p>	<p>N/A</p> <p>No mitigation measure is required.</p>	<p>N/A</p> <p>No mitigation measure is required.</p>

EM&A Ref.	Recommendation Measures	Implementation Stage		
		M+ Museum	L1	L2
	<ul style="list-style-type: none"> Vehicles containing any contaminated excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater; Truck bodies and tailgates should be sealed to stop any discharge; 	N/A No mitigation measure is required	N/A No mitigation measure is required	N/A No mitigation measure is required
	<ul style="list-style-type: none"> Only licensed waste haulers should be used to collect and transport contaminated material to treatment/disposal site and should be equipped with tracking system to avoid fly tipping; Speed control for trucks carrying contaminated materials should be exercised; 	N/A No mitigation measure is required	N/A No mitigation measure is required	N/A No mitigation measure is required
	<ul style="list-style-type: none"> Observe all relevant regulations in relation to waste handling, such as Waste Disposal Ordinance (Cap. 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap. 354) and obtain all necessary permits where required; and Maintain records of waste generation and disposal quantities and disposal arrangements. 	N/A No mitigation measure is required.	N/A No mitigation measure is required.	N/A No mitigation measure is required.
		N/A No mitigation measure is required.	N/A No land contamination issue in this project.	N/A No land contamination issue in this project.
Ecological Impact (Construction)				
No mitigation measure is required.				
Landscape and Visual Impact (Construction)				
Table 9.1 & 10.8 (CM1)	Trees should be retained in situ on site as far as possible. Should tree removal be unavoidable due to construction impacts, trees will be transplanted or felled with reference to the stated criteria in the Tree Removal Applications to be submitted to relevant government departments for approval in accordance to ETWB TCW No. 29/2004 and 3/2006.	N/A Tree survey was completed. Compensatory tree proposal is being reviewed.	N/A Tree survey was completed. Compensatory tree proposal is being reviewed.	N/A Tree survey was completed. Compensatory tree proposal is being reviewed.
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 Proposal is being reviewed.	N/A Proposal is being reviewed.	N/A Proposal is being reviewed.

EM&A Ref.	Recommendation Measures	Implementation Stage		
		M+ Museum	L1	L2
Table 9.1 & 10.8 (CM3)	Buffer trees for screening purposes to soften the hard architectural and engineering structures and facilities.	N/A Buffer trees and vertical climber will be incorporated into the project, but it has not been completed yet.	N/A Roof garden is designed to be built, but it has not been completed yet.	N/A Roof garden is designed to be built, but it has not been completed yet.
Table 9.1 & 10.8 (CM4)	Softscape treatments such as vertical green wall panel /planting of climbing and/or weeping plants, etc, to maximize the green coverage and soften the hard architectural and engineering structures and facilities.	N/A Climbing plants is designed to be planted on CSF as vertical green wall, but it has not been completed yet.	N/A Climbing or weeping plants are designed to be planted, but proposal is being reviewed for the planting location.	N/A Climbing or weeping plants are designed to be planted, but proposal is being reviewed for the planting location.
Table 9.1 & 10.8 (CM5)	Roof greening by means of intensive and extensive green roof to maximize the green coverage and improve aesthetic appeal and visual quality of the building/structure.	N/A Roof greening on 3/F podium has not yet been completed yet.	N/A Roof garden is designed to be built, but it has not been completed yet.	N/A Roof garden is designed to be built, but it has not been completed yet.
Table 9.1 & 10.8 (CM6)	Sensitive streetscape design should be incorporated along all new roads and streets.	N/A Along the northern perimeter, inter-planting of diverse trees forms a thick living wall to providing a sense of enclosure internally and visually buffering the large buildings to the north of the site, but it has not been completed yet.	N/A Greening along the seafront is proposed, but it has not been completed yet.	N/A Greening along the seafront is proposed, but it has not been completed yet.
Table 9.1 & 10.8 (CM7)	Structure, ornamental planting shall be provided along amenity strips to enhance the landscape quality.	N/A Various types of trees and shrubs are proposed to be planted in the planting area, but it has not been completed yet.	N/A Gardens are designed to be built, but it has not been completed yet.	N/A Gardens are designed to be built, but it has not been completed yet.
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 A garden is designed to be planted on 3/F podium, but it has not been completed yet.	N/A Roof garden is designed to be built, but it has not been completed yet.	N/A Roof garden is designed to be built, but it has not been completed yet.

EM&A Ref.	Recommendation Measures	Implementation Stage		
		M+ Museum	L1	L2
Table 9.1 (CM9)	Minimize the structure of marine facilities to be built on the seabed and foreshore in order to minimize the affected extent to the waterbody	N/A No marine facilities for this project.	N/A No marine facilities for this project.	N/A No marine facilities for this project.
Table 9.2 & 10.9 (MCP1)	Use of decorative screen hoarding/boards	✓	✓	✓
Table 9.2 & 10.9 (MCP2)	Early introduction of landscape treatments	N/A No landscape treatments during this stage.	N/A No landscape treatments during this stage.	N/A No landscape treatments during this stage.
Table 9.2 & 10.9 (MCP3)	Adoption of light colour for the temporary ventilation shafts for the basement during the transition period.	N/A No ventilation shafts for this project.	N/A No ventilation shafts for this project.	N/A No ventilation shafts for this project.
Table 9.2 & 10.9 (MCP4)	Control of night time lighting	✓	✓	✓
Table 9.2 & 10.9 (MCP5)	Use of greenery such as grass cover for the temporary open areas will help achieve the visual balance and soften the hard edges of the structures.	N/A No temporary open areas for this project.	N/A No temporary open areas for this project.	N/A No temporary open areas for this project.

N/A - Not Applicable

✓ - Implemented

Obs - Observed

Rem - Reminder

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

Cumulative statistics for complaints, notifications of summons and successful prosecutions for the Project account for period starting from the date of commencement of construction works (i.e. 31 October 2015 for M+ Museum main works and 1 March 2016 for Lyric Theatre Complex) to the end of the reporting month and are summarised in the **Table K-1** and **Table K-2** below respectively.

Table K-1: Statistics for complaints, notifications of summons and successful prosecutions for M+ Museum Main Works

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of summons	Successful prosecutions
This reporting month	0	0	0
From 31 October 2015 to end of the reporting month	8	1	0

Table K-2: Statistics for complaints, notifications of summons and successful prosecutions for Lyric Theatre Complex

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of summons	Successful prosecutions
This reporting month	1	0	0
From 1 March 2016 to end of the reporting month (April 2020)	12	0	0

