



# **Development at West Kowloon Cultural District**

Monthly Environmental Monitoring and Audit  
(EM&A) Report for November 2019

December 2019



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**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:**



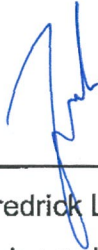
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Brian Tam  
Environmental Team Leader (ETL)  
West Kowloon Cultural District Authority

Date

13 Dec 2019

**Verified by:**



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Fredrick Leong  
Independent Environmental Checker (IEC)  
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13 Dec 2019

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# Executive Summary

Mott MacDonald Hong Kong Limited (MMHK) was commissioned to undertake the Environmental Team (ET) services (including environmental monitoring and audit (EM&A)) for the construction of M+ Museum Main Works (Contract No.: CC/2015/3A/022) and Lyric Theatre Complex including the Foundation Works (Contract No.: CC/2015/3A/014) and L1 Contract (Contract No. CC/2017/3A/030) at West Kowloon Cultural District (WKCD) (The Project) as part of the WKCD development. The Project Proponent is the West Kowloon Cultural District Authority (WKCD). The construction works and EM&A programme for M+ Museum 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 from 1 November to 30 November 2019.

## **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 5, 12, 19 and 26 November 2019 for M+ Museum and 6, 15, 20 and 27 November 2019 for Lyric Theatre Complex 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.

EPD site inspection with contractor was conducted on 8 November 2019 at M+ Museum. No adverse comment was made.

FEHD site inspection with contractor was conducted on 4 November 2019 at Lyric Theatre Complex. No adverse comment was made.

## **Record of Complaints**

No environmental complaint was recorded in the reporting month.

## **Record of Notifications of Summons and Successful Prosecutions**

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

## **Future Key Issues**

The major site works for 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
- Facade
  - Installation of panels on M+ tower completed
  - Installation of panels on RDE completed
- MEP
  - BEL, ELV, BFS, BPD, BME works from B2 to 3/F of M+
  - BEL, ELV, BFS, BPD, BME works from G/F to 15/F of RDE
  - BEL, ELV, BFS, BPD, BME works from G/F to 8/F of CSF
- ABWF
  - Block wall erection, Floor screed for plant room area and corridor area, wall plastering, raised floor & dry wall work up to M+ G/F - 3/F
  - Blockwork plaster, paint/sealer, plaster, drywall subframe, Front of house work wall plastering work up to M+ 16/F
  - Steel platform, plastering, Artwall/drywall stud erection, False ceiling sub-frame installation of RDE up to 12/F
  - Fairface remedial work, gypsum block, waterproofing, floor screed, foamglas and gypsum block, skim coat and painting, self-levelling screed, floating floor of CSF building from 1/F to 8/F

The major site works for Lyric Theatre Complex 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

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

# 1 Introduction

## 1.1 Background

Mott MacDonald Hong Kong Limited (MMHK) was commissioned to undertake the Environmental Team (ET) services (including environmental monitoring and audit (EM&A)) for the construction of M+ Museum Main Works (Contract No.: CC/2015/3A/022) and Lyric Theatre Complex including the Foundation Works (Contract No.: CC/2015/3A/014) and L1 Contract (Contract No. CC/2017/3A/030) 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 from 1 November to 30 November 2019. 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: Structure work for Slab
- RDE RF: Structure work for Slab
- Facade
  - Installation of panels on M+ tower completed
  - Installation of façade on 13/F of RDE
- MEP
  - BEL, ELV, BFS, BPD, BME works from B2 to 3/F of M+
  - BEL, ELV, BFS, BPD, BME works from G/F to 15/F of RDE
  - BEL, ELV, BFS, BPD, BME works from G/F to 11/F of CSF
- ABWF
  - Block wall erection, Floor screed for plant room area and corridor area, wall plastering, raised floor & dry wall work up to M+ G/F – 3/F
  - Paint/sealer, plaster, Front of house work up to M+ 16/F
  - Steel platform, Plastering, Artwall/drywall stud erection, False ceiling sub-frame installation of RDE from 1MF to 5/F
  - Fairface remedial work, gypsum block, waterproofing, floor screed, foamglas and gypsum block, skim coat and painting, self-levelling screed, floating floor of CSF building from 1/F to 8/F

During the reporting period, construction works at Lyric Theatre Complex undertaken include:

- Concreting and rebar fixing in main cofferdam and Area 6;
- Installation of ELS;
- Grouting activities;
- Installation of formwork;
- Concrete breaking; and
- Clutches pipe pile.

The Construction Works Programme of M+ Museum and Lyric Theatre Complex is provided in **Appendix B**. A layout plan of the Project is provided in **Figure 1**. Please refer to **Table 4.3** and **Table 4.4** 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	L <sub>eq</sub> , 30 minutes	NM1A - International Commerce Centre	Weekly



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

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
<b>24-hour TSP monitoring</b>	
High Volume Sampler	TE-5170 (Serial No.: 0767 and 8919)
Calibrator	TE-5025A (Orifice I.D.: 2454)
<b>1-hour TSP monitoring</b>	
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 m<sup>3</sup>/min. The range specified in the EM&A Manual was between 0.6-1.7 m<sup>3</sup>/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 Equipments**

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	05-Nov-19	13:20	33	28	31	26-85	273.7	500
	11-Nov-19	08:12	68	76	85			
	15-Nov-19	13:22	60	48	46			
	21-Nov-19	13:18	28	26	30			
	27-Nov-19	08:18	34	31	40			
AM2B	05-Nov-19	13:29	68	72	60	46-91	274.2	500
	11-Nov-19	08:26	70	77	86			
	15-Nov-19	13:36	91	82	89			
	21-Nov-19	13:32	46	52	56			
	27-Nov-19	08:32	66	72	74			

#### 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	05-Nov-19	8:18	26	26-52	143.6	260
	11-Nov-19	8:10	52			
	15-Nov-19	8:20	43			
	21-Nov-19	8:16	30			
	27-Nov-19	8:16	38			
AM2B	05-Nov-19	8:27	64	56-98	151.1	260
	11-Nov-19	8:24	98			
	15-Nov-19	8:34	84			
	21-Nov-19	8:30	56			
	27-Nov-19	8:30	73			

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 <sub>eq</sub> (30 mins)*, dB(A)	Limit Level for L <sub>eq</sub> (dB(A))
05-Nov-19	10:35	11:05	69	75
11-Nov-19	10:35	11:05	69	
21-Nov-19	10:36	11:06	69	
27-Nov-19	10:27	10:57	69	

Remarks:

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

No exceedance (Action/Limit Level) of construction noise was recorded in the reporting period as no noise related environmental complaint was received during the reporting period and noise levels recorded during the monitoring period were below 75 dB(A).

### 3.4 Landscape and Visual Impact

Landscape and visual impact inspections were conducted as part of the weekly site inspections 12 and 26 November 2019 for M+ Museum, and 6 and 20 November 2019 for Lyric Theatre Complex 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 5, 12, 19 and 26 November 2019. The joint site inspection with IEC, ET, ER and Contractor was held on 19 November 2019. All observations have been recorded in the site inspection checklist and passed to the Contractor together with the appropriate recommended mitigation measures where necessary.

EPD site inspection with contractor was conducted on 8 November 2019. Wastewater treatment facilities and external area had inspected. No adverse comment was made.

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	Contactor's Responses / Action(s) Undertaken	Close-out (Date)
05-Nov-19	Water quality	Effluent quality of wetsep was checked. It was found visually clear when comparing with standard solution and within proper pH range.	N/A	N/A
12-Nov-19	Air Quality	Stockpile was observed without fully cover. The contractor was reminded to cover the stockpile entirely with impervious sheeting.	The contractor has flattened the stockpile.	15-Nov-19
12-Nov-19	Water quality	Effluent quality of wetsep was checked. It was found visually clear when comparing with standard solution and within proper pH range.	N/A	N/A
19-Nov-19	Water quality	Effluent quality of wetsep was checked. It was found visually clear when comparing with standard solution and within proper pH range.	N/A	N/A
26-Nov-19	Air Quality	Effluent quality of wetsep was checked. It was found visually clear when comparing with standard solution and within proper pH range.	N/A	N/A

#### 4.1.2 Lyric Theatre Complex

Construction phase weekly site inspections were carried out on 6, 15, 20 and 27 November 2019. The joint site inspection with IEC, ET, ER and Contractor was held on 20 November 2019. 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 4 November 2019. Main cofferdam had inspected. No adverse comment was made. FEHD reminded the contractor to provide mosquitos control measures to stagnant water at a gap near wheel washing facility and cover the water inlets of all water barriers

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

**Table 4.2: Summary of Site Inspections and Recommendations for Lyric Theatre Complex**

Inspection Date	Parameter	Observation / Recommendation	Contractor's Responses / Action(s) Undertaken	Close-out (Date)
30-Oct-19	Water Quality	The contractor was reminded to ensure the pH probe and meter of the wetsep function properly all the time and keep maintenance.	The contractor has ensured the pH probe and meter of the wetsep function properly.	01-Nov-19
06-Nov-19	Air Quality	Discolour NRMM label was observed. The contractor was reminded to replace a clear label with correct colour.	The contractor has replaced a clear NRMM label with correct colour.	07-Nov-19
20-Nov-19	Water Quality	Algae was observed at wetsep. The contractor was reminded to clear the algae to keep good quality of discharge water.	The contractor has cleared the algae at the wetsep	22-Nov-19
20-Nov-19	Waste Management	Chemical was observed without drip tray. The contractor was reminded to provide suitable drip tray.	The contractor has provided suitable drip tray for the chemicals.	22-Nov-19
20-Nov-19	Water Quality	The contractor was reminded to ensure the wetsep could function properly to prevent blockage.	The contractor has ensured the wetsep could work properly.	20-Nov-19
27-Nov-19	Water Quality	The pH value at wetsep No.8 was slightly higher than the acceptable range (i.e. 6-9 PH). The contractor was reminded to monitor the pH value within proper range in order to keep good quality of discharge water.	The contractor has kept the pH value of the wetsep within the acceptable range (6-9).	07-Nov-19
27-Nov-19	Waste Management	The floor panel of wetsep No.2 was broken. The contractor was reminded to repair the panel to avoid leakage of chemicals stored at the wetsep.	The contractor has repaired the floor panel of wetsep No.2 to avoid leakage of chemicals.	On-going

## 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 tonnes, 94.41 tonnes, 168.56 tonnes, 226.11 tonnes of inert C&D material were disposed of as public fill to Chai Wan Public Fill Barging Point, Fill Bank at Tuen Mun Area 38, Fill Bank at Tseung Kwan O Area 137 and Sorting Facilities at Tseung Kwan O Area 137 respectively, while 659.8 tonnes of general refuse were disposed of at SENT landfill. 11 tonnes of metals, 0.7 tonne of paper/cardboard packaging, 0.0 tonne of plastic and 380.0 tonnes of timber were collected by recycling contractors in the reporting month. 0.0 tonne of inert C&D materials was reused on site. 192.0 tonnes of inert C&D materials were 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 Contractor, 2,140.35 tonnes and 3,148.60 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, while 151.6 tonnes of general refuse were disposed of at SENT and WENT landfill. 8.9 tonnes of metals, 0.0 tonne of paper/cardboard packaging, 0.0 tonne of plastic and 0.0 tonne of timber was collected by recycling contractors in the reporting month. 0.0 tonne of inert C&D materials was reused on site. 0.0 tonnes of inert C&D materials were reused in other projects and 0.0 tonnes of inert

C&D materials were imported for reuse at site. 30.3 tonnes of inert C&D materials were 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 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 **Tables 4.3** and **4.4**.

#### 4.3.1 M+ Museum

**Table 4.3: Status of Environmental Submissions, Licenses and Permits for M+ Museum**

Permit / License No. / Notification / Reference No.	Valid Period		Status	Remarks
	From	To		
<b>Chemical Waste Producer Registration</b>				
WPN5213-217-G2347-53	04-Oct-18	--	Valid	--
<b>Billing Account Construction Waste Disposal</b>				
7031993	03-Oct-18	--	Account Active	--
<b>Construction Noise Permit</b>				
GW-RE0669-19	28-Aug-19	26-Feb-20	Valid	--
<b>Wastewater Discharge License</b>				
WT-00033363-2019	21-Mar-19	31-Mar-24	Valid	--
<b>Notification under Air Pollution Control (Construction Dust) Regulation</b>				
437339	12-Sep-18	--	Notified	--

#### 4.3.2 Lyric Theatre Complex

**Table 4.4: Status of Environmental Submissions, Licenses and Permits for Lyric Theatre Complex**

Permit / License No. / Notification / Reference No.	Valid Period		Status	Remarks
	From	To		
<b>Chemical Waste Producer Registration</b>				
WPN5213-217-G2347-39	17-Feb-16	--	Valid	--
<b>Billing Account Construction Waste Disposal</b>				
7029925	22-Jan-18	--	Account Active	--
<b>Billing Account for Vessel Disposal of Construction Waste</b>				
7033007	23-Aug-19	22-Nov-19	Account Active	--
<b>Construction Noise Permit</b>				
GW-RE0833-19	22-Oct-19	9-Apr-20	Valid	
<b>Wastewater Discharge License</b>				
WT-00030694-2018	11-Apr-18	30-Apr-23	Valid	--
<b>Notification under Air Pollution Control (Construction Dust) Regulation</b>				
429708	16-Jan-18	--	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**

- Stockpile should be fully covered with impervious sheeting to prevent emission of fugitive dust.

#### 4.4.2 Lyric Theatre Complex

##### **Air Quality**

- All NRMMS should affix with the requisite approval/exemption labels.

##### **Water Quality**

- Ensure proper and efficient operation of the wastewater treatment facilities.

##### **Waste Management**

- Suitable drip trays should be provided for chemicals.

## 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 September 2019	14 November 2019

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

### 6.1 Record on Non-compliance of Action and Limit Levels

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

### 6.2 Record on Environmental Complaints Received

No environmental complaint was received in the reporting month.

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

### 6.3 Record on Notifications of Summons and Successful Prosecution

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

## 7 Future Key Issues

### 7.1 Construction Works for the Coming Month(s)

#### 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
- Facade
  - Installation of panels on M+ tower completed
  - Installation of panels on RDE completed
- MEP
  - BEL, ELV, BFS, BPD, BME works from B2 to 3/F of M+
  - BEL, ELV, BFS, BPD, BME works from G/F to 15/F of RDE
  - BEL, ELV, BFS, BPD, BME works from G/F to 8/F of CSF
- ABWF
  - Block wall erection, Floor screed for plant room area and corridor area, wall plastering, raised floor & dry wall work up to M+ G/F - 3/F
  - Blockwork plaster, paint/sealer, plaster, drywall subframe, Front of house work wall plastering work up to M+ 16/F
  - Steel platform, plastering, Artwall/drywall stud erection, False ceiling sub-frame installation of RDE up to 12/F
  - Fairface remedial work, gypsum block, waterproofing, floor screed, foamglas and gypsum block, skim coat and painting, self-levelling screed, floating floor of CSF building from 1/F to 8/F

#### 7.1.2 Lyric Theatre Complex

The major site works for Lyric Theatre Complex 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

### 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.

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

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

### 8.2 Recommendations

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

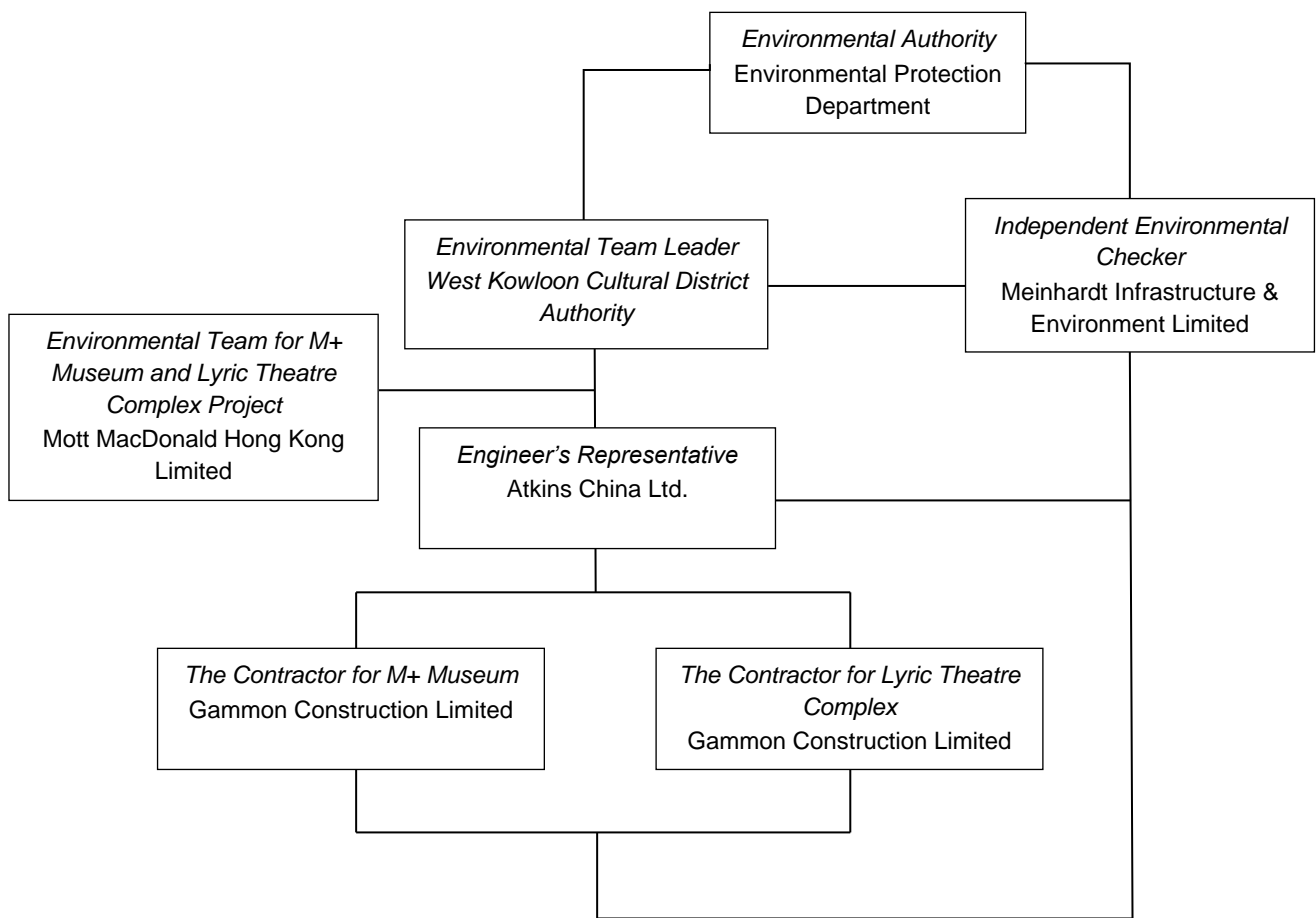
# Figure 1 Site Layout Plan and Monitoring Stations



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# A. Project Organisation



**Table A-1: Contact information**

Company Name	Role	Name	Telephone
Atkins China Ltd.	Assistant Resident Engineer	Ms. Gloria Lui	5506 6361
Meinhardt Infrastructure & Environment Limited	Independent Environmental Checker	Mr. Fredrick Leong	2859 1739
Gammon Construction Limited (M+ Museum)	Environmental Manager	Mr. Andy Leung	9489 0035
Gammon Construction Limited (Lyric Theatre Complex)	Environmental Manager	Ms. Sammie Chan	9864 4296
Mott MacDonald Hong Kong Ltd.	Contractor's Environmental Team Leader	Mr. Thomas Chan	2828 5757
West Kowloon Cultural District Authority	Senior Environmental Specialist	Mr. Brian Tam	2200 0059

## **B. Tentative Construction Programme**

**M+ Museum**



ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020														
										2019			2020			2020			2020					
										Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep			
<b>GENERAL &amp; PRELIMINARIES (Remaining Works @ 10 SEP 2018)</b>																								
<b>Establishment</b>																								
<b>Tower Cranes Establishment &amp; De-establishment</b>																								
9999	TC 4.2 - Demobilise Tower Crane (crane base external)	6			06-Dec-19	12-Dec-19		0%	0%															
7410	TC 3.1 - Demob Tower Crane (crane base @ POD L3 GL E-L11-12)	12	12-Dec-19	27-Dec-19	12-Feb-20	25-Feb-20	-44	0%	0%															
7415	TC 1.B - Demobilise Tower Crane (crane base @ GL2+J)	6	04-Jan-20	17-Jan-20	01-Apr-20	08-Apr-20	-62	0%	0%															
<b>BASEMENT &amp; PODIUM</b>																								
<b>Construction</b>																								
<b>Initial Works, Establishment &amp; Miscellaneous</b>																								
14238a	POD - Architectural Lightings Installation (C41/42/86/90)	12	03-Feb-20	15-Feb-20	19-May-20	01-Jun-20	-89	0%	0%															
14238b	POD - Architectural Lightings Installation (C41/42/43/82/83/86)	12	10-Feb-20	22-Feb-20	23-May-20	05-Jun-20	-87	0%	0%															
14238c	POD - Architectural Lightings Installation (C50/65/88)	12	17-Feb-20	29-Feb-20	28-May-20	10-Jun-20	-85	0%	0%															
<b>*Auditorium &gt; GF (SZ7)</b>																								
<b>Structural</b>																								
6785	POD_AUD - Remove Formwork/Make Good (after non-struct walls 1MF & 2F)	12	08-May-19	28-May-19	20-May-19 A	14-Nov-19	-141	100%	50%															
<b>ABWF Works &amp; MEP Works</b>																								
9328	POD_AUD - All Other Finishes/Remedial/Cleaning Works	30	17-Jan-20	28-Feb-20	07-Apr-20	12-May-20	-61	0%	0%															
<b>Inclined structure High Level Works</b>																								
1151	POD_AUD - MEP works 1st, 2nd & final fix & Curtain System - Part 1 (**Jun19 DUR	12	09-Jul-19	02-Sep-19	26-Aug-19 A	14-Nov-19	-60	100%	60.98%															
1155	POD_AUD - Install Curtain Tracks/Motor/Cable Connections	6	03-Oct-19	17-Oct-19	12-Oct-19 A	07-Nov-19	-18	100%	58.13%															
1156	POD_AUD - MEP works Rem 1st, 2nd - Part 2	12	11-Oct-19	07-Nov-19	21-Oct-19 A	14-Nov-19	-6	75%	60.98%															
1157	POD_AUD - Install TWG Panels & Weld Test	18	25-Oct-19	14-Nov-19	19-Nov-19	09-Dec-19	-21	33.33%	0%															
10054	POD_AUD - MEP works Final Fix in TWG panels	12			10-Dec-19	23-Dec-19		0%	0%															
1159	POD_AUD - Remove Susp. Work Platform for HL Ceiling Wrks above Inclined Struc	12	15-Nov-19	28-Nov-19	24-Dec-19	08-Jan-20	-33	0%	0%															
1158	POD_AUD - Setting out & Install Glazed Walls	18	29-Nov-19	19-Dec-19	09-Jan-20	06-Feb-20	-33	0%	0%															
9062	POD_AUD - Install LED Screen Panels	12	03-Oct-19	17-Oct-19	14-May-20	27-May-20	-180	100%	0%															
<b>Inclined structure Low Level Works</b>																								
6848	POD_AUD - Underfloor MEP 1st, 2nd fix (under trusses)	6	23-Apr-19	14-May-19	27-May-19 A	07-Nov-19	-147	100%	79.99%															
6851	POD_AUD - MEP 1st, 2nd & final fix adjacent to steel trusses	12	19-Jun-19	03-Jul-19	12-Oct-19 A	21-Nov-19	-118	100%	25.01%															
6854	POD_AUD - Install Void Former & Construct Stair Case	6	08-Jul-19	20-Jul-19	19-Oct-19 A	14-Nov-19	-97	100%	80%															
6855	POD_AUD - Remove Formwork for Stairs	12	22-Jul-19	27-Jul-19	22-Oct-19 A	25-Nov-19	-100	100%	80.07%															
6853	POD_AUD - Install Steel Plates on Trusses	6	29-Jun-19	06-Jul-19	01-Nov-19	07-Nov-19	-103	100%	0%															
6857	POD_AUD - Install Metal Balustrade (* 2 shifts)	8	21-Dec-19	02-Jan-20	25-Nov-19	04-Dec-19	23	0%	0%															
6858	POD_AUD - Erect Metal Scaffold along the wall for curtain install	6	03-Jan-20	09-Jan-20	05-Dec-19	11-Dec-19	23	0%	0%															
6859	POD_AUD - Clean Concrete & Glazing Walls	6	10-Jan-20	16-Jan-20	12-Dec-19	18-Dec-19	23	0%	0%															
6860	POD_AUD - Install Curtains	9	17-Jan-20	07-Feb-20	10-Apr-20	20-Apr-20	-61	0%	0%															
6861	POD_AUD - Dismantle Scaffold (after curtains, conc./glazing remedial wrks)	6	24-Jan-20	14-Feb-20	21-Apr-20	27-Apr-20	-61	0%	0%															
6856	POD_AUD - Install Plywood Base & Timber Flooring (* 2 shifts) and door/ron	20	28-Nov-19	21-Dec-19	27-Apr-20	21-May-20	-119	0%	0%															
<b>Cinemas (B1-GF)</b>																								
<b>ABWF Works &amp; MEP Works</b>																								
4037	POD_Cinema - All Other Finishes/Remedial/Cleaning Works	36	26-Nov-19	08-Jan-20	04-Jan-20	22-Feb-20	-32	0%	0%															
<b>180 Seats Cinema - POD_LG_Z18a</b>																								
3976	POD_LG_Z18a_C180 - Ceiling MEP 1st fix (*2 shifts, after GF underpinned)	3	19-Jul-19	06-Aug-19	18-Sep-19 A	04-Nov-19	-75	100%	96%															
9661	POD_LG_Z18a_C180 - MEP Low Level 1st fix	9	13-Sep-19	24-Sep-19	19-Sep-19 A	12-Nov-19	-39	100%	80%															
9660	POD_LG_Z18a_C180 - Dry Wall Frame	2	19-Jul-19	25-Jul-19	10-Oct-19 A	02-Nov-19	-83	100%	95%															
3980	POD_LG_Z18a_C180 - Ceiling MEP 2nd fix (*2 shifts)	8	12-Aug-19	26-Aug-19	11-Oct-19 A	09-Nov-19	-62	100%	80%															
4013	POD_LG_Z18a_C180 - Low Level MEP 2nd fix (*2 shifts)	12	28-Oct-19	18-Nov-19	14-Oct-19 A	18-Nov-19	0	17.9%	63%															
9662	POD_LG_Z18a_C180 - Close Dry Wall	12	08-Oct-19	12-Oct-19	17-Oct-19 A	16-Nov-19	-30	100%	80%															
4010	POD_LG_Z18a_C180 - Close Ceilings (gypsum & acoustic panels over) (*2 shifts)	28	26-Aug-19	09-Sep-19	19-Oct-19 A	09-Dec-19	-75	100%	20%															
4016	POD_LG_Z18a_C180 - Low level MEP final fix (*2 shifts)	36	22-Nov-19	03-Dec-19	19-Oct-19 A	04-Jan-20	-26	0%	40%															
4023	POD_LG_Z18a_C180 - Install Cinema Screen & MEP	36	12-Nov-19	25-Nov-19	19-Oct-19 A	06-Jan-20	-34	0%	50%															
4012	POD_LG_Z18a_C180 - Remove Ceiling Works Scaffold (*2 shifts, increased labor)	4	11-Sep-19	17-Sep-19	11-Nov-19	14-Nov-19	-48	100%	0%															
4021	POD_LG_Z18a_C180 - Floor Screed/Resilient Layer (*2 shifts)	9	17-Sep-19	27-Sep-19	15-Nov-19	26-Nov-19	-49	100%	0%															
4014	POD_LG_Z18a_C180 - Steps Plywood (*2shifts)	6	27-Sep-19	05-Oct-19	26-Nov-19	03-Dec-19	-49	100%	0%															
4017	POD_LG_Z18a_C180 - Walls finishes (acoustic panels)	24	15-Oct-19	11-Nov-19	27-Nov-19	24-Dec-19	-37	62.5%	0%															
4011	POD_LG_Z18a_C180 - Ceiling MEP final fix (*2 shifts)	6	04-Sep-19	11-Sep-19	05-Dec-19	12-Dec-19	-76	100%	0%															
4015	POD_LG_Z18a_C180 - Install Carpets (*2 shifts)	7	21-Nov-19	29-Nov-19	21-Dec-19	31-Dec-19	-26	0%	0%															
4019	POD_LG_Z18a_C180 - Door & Ironmong	3	19-Nov-19	21-Nov-19	26-Dec-19	28-Dec-19	-31	0%	0%															
4036	POD_LG_Z18a_C180 - Install Curtain	3	26-Nov-19	28-Nov-19	13-Feb-20	15-Feb-20	-59	0%	0%															
4020	POD_LG_Z18a_C180 - Install Seating	12	30-Nov-19	13-Dec-19	14-May-20	27-May-20	-131	0%	0%															
<b>60 Seats Cinema - POD_LG_Z18b</b>																								
9665	POD_LG_Z18b_C60 - MEP Low Level 1st fix	4	09-Sep-19	16-Sep-19	09-Sep-19 A	11-Nov-19	-46	100%	78%															
1108	POD_LG_Z18b_C60 - Close Ceilings (gypsum & acoustic panels over)	21	22-Aug-19	30-Aug-19	11-Oct-19 A	09-Dec-19	-83	100%	40%															
9666	POD_LG_Z18b_C60 - Close Dry Wall	3	24-Sep-19	27-Sep-19	14-Oct-19 A	13-Nov-19	-38	100%	95%															
1114	POD_LG_Z18b_C60 - MEP Low Level 2nd fix	12	10-Oct-19	23-Oct-19	16-Oct-19 A	29-Nov-19	-32	100%	62%															
1115	POD_LG_Z18b_C60 - Install Cinema Screen & MEP	24	17-Oct-19	23-Oct-19	17-Oct-19 A	20-Dec-19	-50	100%	50%															
1119	POD_LG_Z18b_C60 - Low level MEP final fix	28	30-Oct-19	07-Nov-19	18-Oct-19 A	27-Dec-19	-42	25%	50%															
1110	POD_LG_Z18b_C60 - Remove Ceiling Works Scaffold	3	05-Sep-19	09-Sep-19	04-Nov-19*	06-Nov-19	-47	100%	0%															
1111	POD_LG_Z18b_C60 - Floor Screed/Resilient Layer	6	10-Sep-19	19-Sep-19	16-Nov-19	22-Nov-19	-53	100%	0%															
1112	POD_LG_Z18b_C60 - Steps Plywood	6	20-Sep-19	26-Sep-19	23-Nov-19	29-Nov-19	-53	100%	0%															
1113	POD_LG_Z18b_C60 - Walls finishes (acoustic panels)	12	02-Oct-19	16-Oct-19	30-Nov-19	13-Dec-19	-50	100%	0%															
1109	POD_LG_Z18b_C60 - Ceiling MEP final fix	6	29-Aug-19	04-Sep-19	07-Dec-19	13-Dec-19	-83	100%	0%															
1116	POD_LG_Z18b_C60 - Door & Ironmong	3	24-Oct-19	26-Oct-19	14-Dec-19	17-Dec-19	-44	100%	0%															
1118	POD_LG_Z18b_C60 - Install Carpets	4	28-Oct-19	31-Oct-19	16-Dec-19	19-Dec-19	-42	100%	0%															
1117	POD_LG_Z18b_C60 - Install Curtain	2	24-Oct-19	25-Oct-19	13-Feb-20	14-Feb-20	-87	100%	0%															
1121	POD_LG_Z18b_C60 - Install Seating	7	01-Nov-19	08-Nov-19	28-May-20	04-Jun-20	-168	0%	0%															
<b>40 Seats Cinema - POD_LG_Z18c</b>																								
1126	POD_LG_Z18c_C40 - Ceiling MEP 1st fix (*2 shifts)	3	17-Jul-19	31-Jul-19	08-Aug-19 A	04-Nov-19	-79	100%	97%															
9671	POD_LG_Z18c_C40 - MEP Low Level 1st fix	9	29-Aug-19	02-Sep-19	16-Sep-19 A	16-Nov-19	-61	100%	73%															



ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020														
										Qtr 4			Qtr 1			Qtr 2			Qtr 3					
										Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep			
8091	POD_GF_Z04_LTH - Close Dry Wall	12	18-Sep-19	02-Oct-19	29-Nov-19	12-Dec-19	-60	100%	0%															
8099a	POD_GF_Z04_LTH - Guides/Collars for MEP Final Fix positioning at Ceiling	12			29-Nov-19	12-Dec-19		0%	0%															
9675	POD_GF_Z04_LTH - Install Glazing Panel (bet Interpreter Rm)	6	20-Sep-19	26-Sep-19	02-Dec-19	07-Dec-19	-60	100%	0%															
8093	POD_GF_Z04_LTH - MEP Final Fix	9	15-Oct-19	24-Oct-19	19-Dec-19	30-Dec-19	-56	100%	0%															
8095	POD_GF_Z04_LTH - Door / Ironmong	6	03-Dec-19	09-Dec-19	20-Jan-20*	03-Feb-20	-39	0%	0%															
8099	POD_GF_Z04_LTH - Ceiling Finishes (Timber @ 150 seat LTH)	18	03-Oct-19	24-Oct-19	10-Apr-20	30-Apr-20	-152	100%	0%															
8092	POD_GF_Z04_LTH - Wall finishes (paint, timber, fabric)	12	18-Nov-19	30-Nov-19	02-May-20	15-May-20	-132	0%	0%															
8094	POD_GF_Z04_LTH - Floor finishes (resilient layer, plywood + timber/ carpet)	12	19-Nov-19	02-Dec-19	04-May-20	16-May-20	-132	0%	0%															
<b>Workshop &amp; Storages Adjacent to Lecture @ G.L. A-C 11-14 - POD_GF_Z04</b>																								
8058	POD_GF_Z04_LTH - MEP 1st fix	9	03-Jul-19	13-Aug-19	12-Aug-19 A	11-Nov-19	-74	100%	60%															
8060	POD_GF_Z04_LTH - MEP 2nd fix	21	03-Sep-19	02-Oct-19	19-Aug-19 A	28-Nov-19	-48	100%	36%															
8066a	POD_GF_Z04_LTH_Floor screeding	2			25-Oct-19 A	02-Nov-19		0%	90%															
8065	POD_GF_Z04_LTH - Dry Wall Frame & Board (one side)	4	03-Jul-19	06-Jul-19	04-Nov-19	07-Nov-19	-103	100%	0%															
8069	POD_GF_Z04_LTH - Dry Wall MEP Services/Conduits MEP 1st fix	12	08-Jul-19	20-Jul-19	08-Nov-19	21-Nov-19	-103	100%	0%															
8071	POD_GF_Z04_LTH - Close Dry Wall	2	18-Sep-19	19-Sep-19	22-Nov-19	23-Nov-19	-54	100%	0%															
8070	POD_GF_Z04_LTH - MEP final fix	9	03-Oct-19	14-Oct-19	09-Dec-19	18-Dec-19	-56	100%	0%															
8054	POD_GF_Z04_LTH_Wshop_East - Door / Ironmong	6	12-Dec-19	18-Dec-19	20-Jan-20*	03-Feb-20	-31	0%	0%															
9676	POD_GF_Z04_LTH - Install Acoustic Movable Partition	12	20-Sep-19	04-Oct-19	12-Mar-20	25-Mar-20	-138	100%	0%															
8068	POD_GF_Z04_LTH_Wshop_East - Wall finishes (paint on dry wall, slatted timber)	6	18-Nov-19	23-Nov-19	01-Jun-20*	06-Jun-20	-157	0%	0%															
8066	POD_GF_Z04_LTH_Wshop_East - Floor finishes (linoleum)	6	21-Nov-19	27-Nov-19	04-Jun-20	10-Jun-20	-157	0%	0%															
8067	POD_GF_Z04_LTH_Wshop_East - Install FF&E	12	28-Nov-19	11-Dec-19	11-Jun-20	24-Jun-20	-157	0%	0%															
<b>Workshop &amp; Storages Adjacent to Lecture @ G.L. D+F 11-14 - POD_GF_Z04</b>																								
8078	POD_GF_Z04_LTH - MEP 1st fix	9	09-Jul-19	19-Aug-19	12-Aug-19 A	11-Nov-19	-69	100%	60%															
8079	POD_GF_Z04_LTH - MEP 2nd fix	21	03-Sep-19	02-Oct-19	19-Aug-19 A	03-Dec-19	-52	100%	36%															
8081a	POD_GF_Z04_LTH_Floor screeding	2			01-Nov-19	07-Nov-19		0%	0%															
8080	POD_GF_Z04_LTH - Dry Wall Frame & Board (one side)	4	09-Jul-19	12-Jul-19	08-Nov-19	12-Nov-19	-102	100%	0%															
8083	POD_GF_Z04_LTH - Dry Wall MEP Services/Conduits MEP 1st fix	12	13-Jul-19	26-Jul-19	13-Nov-19	26-Nov-19	-102	100%	0%															
8085	POD_GF_Z04_LTH - Close Dry Wall	2	18-Sep-19	19-Sep-19	05-Dec-19	06-Dec-19	-65	100%	0%															
8084	POD_GF_Z04_LTH - MEP final fix	9	03-Oct-19	14-Oct-19	09-Dec-19	18-Dec-19	-56	100%	0%															
8075	POD_GF_Z04_LTH_Wshop_West - Door / Ironmong	6	12-Dec-19	18-Dec-19	13-Jan-20*	18-Jan-20	-25	0%	0%															
9677	POD_GF_Z04_LTH - Install Acoustic Movable Partition	12	20-Sep-19	04-Oct-19	19-Mar-20	01-Apr-20	-144	100%	0%															
8082	POD_GF_Z04_LTH_Wshop_West - Wall finishes (paint on dry wall, slatted timber)	6	18-Nov-19	23-Nov-19	08-Jun-20	13-Jun-20	-163	0%	0%															
8081	POD_GF_Z04_LTH_Wshop_West - Floor finishes (linoleum)	6	21-Nov-19	27-Nov-19	11-Jun-20	17-Jun-20	-163	0%	0%															
8145	POD_GF_Z04_LTH_Wshop_West - Install FF&E	12	28-Nov-19	11-Dec-19	18-Jun-20	03-Jul-20	-163	0%	0%															
<b>Learning Centre &amp; Adjacent Areas (GF &amp; 1/F)</b>																								
<b>ABWF Works &amp; MEP Works</b>																								
<b>Learning Centre - POD_GF_Z05</b>																								
7987	POD_GF_Z05_LC - MEP 2nd fix	12	21-Aug-19	10-Sep-19	07-Oct-19 A	18-Nov-19	-56	100%	80%															
7983	POD_GF_Z05_LC - Ceiling rods	4	10-Jun-19	15-Jun-19	28-Oct-19 A	05-Nov-19	-118	100%	10%															
7986	POD_GF_Z05_LC - Ceiling grids @ Pantry	2	19-Aug-19	20-Aug-19	06-Nov-19	07-Nov-19	-65	100%	0%															
7991	POD_GF_Z05_LC - MEP final fix	9	11-Sep-19	21-Sep-19	11-Dec-19	20-Dec-19	-75	100%	0%															
7988	POD_GF_Z05_LC - Ceiling (ply + timber @Pantry; slats @Lounge/Check-in Assbly)	10	18-Nov-19	28-Nov-19	10-Apr-20	21-Apr-20	-114	0%	0%															
7992	POD_GF_Z05_LC - Floor finishes (resilient layer, ply + timber)	8	29-Nov-19	07-Dec-19	22-Apr-20	30-Apr-20	-114	0%	0%															
7993	POD_GF_Z05_LC - Doors & Ironmong	6	09-Dec-19	14-Dec-19	20-Jan-20*	03-Feb-20	-34	0%	0%															
7994	POD_GF_Z05_LC - All Other Finishes / Make Good & Clean	12	09-Dec-19	21-Dec-19	24-Apr-20	08-May-20	-108	0%	0%															
<b>Learning Centre - POD_GF_Z06a &amp; GF_Z06b</b>																								
9309	POD_GF_Z06b_BoH - All Other Finishes / Make Good & Clean	12	25-Jul-19	07-Aug-19	13-Dec-19	27-Dec-19	-118	100%	0%															
8024	POD_GF_Z06a_FoH Toilet Lob - All Other Finishes / Make Good & Clean	12	23-Oct-19	05-Nov-19	30-May-20	12-Jun-20	-178	66.67%	0%															
<b>FoH Toilets - Public &amp; Learning Centre (incl. Baby Care Room) - POD_GF_Z06a</b>																								
<b>Toilet Block</b>																								
8000	POD_GF_Z06a_FoH Toilet - Seal Wall Opening	3	10-Jun-19	12-Jun-19	12-Aug-19 A	04-Nov-19	-120	100%	80%															
8014	POD_GF_Z06a_FoH Toilet - Close Dry Wall	4	24-Jun-19	05-Jul-19	19-Aug-19 A	05-Nov-19	-102	100%	80%															
7995	POD_GF_Z06a_FoH Toilet - Wall Plastering (internal & external)	6	06-Jul-19	10-Jul-19	26-Aug-19 A	07-Nov-19	-100	100%	90%															
8001	POD_GF_Z06a_FoH Toilet - MEP 2nd fix	9	19-Jul-19	01-Aug-19	23-Sep-19 A	15-Nov-19	-88	100%	80%															
8002	POD_GF_Z06a_FoH Toilet - Door Frame	2	04-Jul-19	05-Jul-19	04-Nov-19*	05-Nov-19	-102	100%	0%															
7998	POD_GF_Z06a_FoH Toilet - Ceiling Rods & Grids	4	11-Jul-19	15-Jul-19	08-Nov-19	12-Nov-19	-100	100%	0%															
7999	POD_GF_Z06a_FoH Toilet - Close ceiling (board) incl. Cut-Outs	7	02-Aug-19	09-Aug-19	13-Nov-19	20-Nov-19	-85	100%	0%															
8010	POD_GF_Z06a_FoH Toilet - Ceiling finishes final coat	3	10-Aug-19	13-Aug-19	21-Nov-19	23-Nov-19	-85	100%	0%															
8003	POD_GF_Z06a_FoH Toilet - MEP final fix	6	14-Aug-19	20-Aug-19	25-Nov-19	30-Nov-19	-85	100%	0%															
8026	POD_GF_Z06a_FoH Toilet - Conc fir curing, polishing & install protection	36	21-Aug-19	03-Oct-19	02-Dec-19	14-Jan-20	-85	100%	0%															
8006	POD_GF_Z06a_FoH Toilet - Wall Tile Finishes	9	04-Oct-19	15-Oct-19	15-Jan-20	24-Jan-20	-85	100%	0%															
8007	POD_GF_Z06a_FoH Toilet - Cubicle partitions & sanitary ware & fittings	6	16-Oct-19	22-Oct-19	22-Jan-20	05-Feb-20	-82	100%	0%															
7996	POD_GF_Z06a_FoH Toilet - Door / Ironmong	2	23-Oct-19	24-Oct-19	06-Feb-20	07-Feb-20	-82	100%	0%															
<b>Toilet Lobby/ Vestibule &amp; Baby Care Room</b>																								
8018	POD_GF_Z06a_FoH Toilet Lob - MEP 2nd fix	9	15-Jun-19	21-Jun-19	23-Sep-19 A	15-Nov-19	-122	100%	80%															
8022	POD_GF_Z06a_FoH Toilet Lob - Ceiling rods	3	18-May-19	21-May-19	04-Nov-19*	06-Nov-19	-140	100%	0%															
8017	POD_GF_Z06a_FoH Toilet Lob - Ceiling grids	2	13-Jun-19	14-Jun-19	07-Nov-19	08-Nov-19	-122	100%	0%															
8019a	POD_GF_Z06a_FoH Toilet Lob - Ceiling finishes (MR Gypsum/Plywood backing for	6			16-Nov-19	22-Nov-19		0%	0%															
8020	POD_GF_Z06a_FoH Toilet Lob - MEP final fix	6	19-Jul-19	25-Jul-19	23-Nov-19	29-Nov-19	-106	100%	0%															
8021	POD_GF_Z06a_FoH Toilet Lob - Conc fir curing, polishing & install protection	36	21-Aug-19	03-Oct-19	02-Dec-19	14-Jan-20	-85	100%	0%															
8019	POD_GF_Z06a_FoH Toilet Lob - Ceiling finishes (Timber)	6	11-Jul-19	17-Jul-19	23-May-20	29-May-20	-258	100%	0%															
8025	POD_GF_Z06a_FoH Toilet Lob - Wall Finishes (Ply + Timber)	6	04-Oct-19	11-Oct-19	30-May-20	05-Jun-20	-193	100%	0%															
<b>BoH of Learning Centre (Lift Lobby &amp; MEP) - POD_GF_Z06b</b>																								
8036	POD_GF_Z06b_BoH - B'wall, tie bolt holes, plaster, screed, Sealer	12	18-May-19	08-Jun-19	23-Sep-19 A	19-Nov-19	-136	100%	10%															
8037	POD_GF_Z06b_BoH - MEP 1st fix	18	10-Jun-19	2																				







ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020														
										2019			Qtr 1			Qtr 2			Qtr 3					
										Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep			
<b>BoH Other Rooms, Lobbies, Non-FR Corridors, Loading/Unloading Bays/ Docks - POD_B2_Z07 &amp; B2_Z08</b>																								
6843	POD_B2_Z07/08_BoH - All Other Finishes / Make Good & Clean	18	10-Feb-20	29-Feb-20	11-Jan-20	08-Feb-20	18	0%	0%															
<b>BoH Loading/ Unloading Bays/ Docks - POD_B2_Z07</b>																								
6885	POD_B2_Z07_BoH - MEP 1st fix (rem works)	4	26-Feb-19	29-May-19	04-Mar-19 A	05-Nov-19	-132	100%	97%															
7425	POD_B2_Z07_BoH - MEP 2nd fix	4	19-Jun-19	07-Aug-19	08-Apr-19 A	08-Nov-19	-77	100%	97%															
6889	POD_B2_Z07_BoH - Floor screeding	12	30-May-19	18-Jun-19	18-Jun-19	05-Jun-19 A	15-Nov-19	-125	100%	90%														
6888	POD_B2_Z07_BoH - MEP final fix	15	08-Aug-19	04-Sep-19	19-Sep-19 A	22-Nov-19	-65	100%	55%															
6890	POD_B2_Z07_BoH - Self leveling screed & Floor sealer	12	05-Sep-19	19-Sep-19	21-Oct-19 A	29-Nov-19	-59	100%	5%															
6887	POD_B2_Z07_BoH - Speed gate inst'n & testing @ Loading/Unloading/Ramp, Doc	12	29-Jun-19	13-Jul-19	28-Dec-19	11-Jan-20	-151	100%	0%															
<b>BoH Rooms - Raised Floor &amp; Susp. Ceiling Area - POD_B2_Z08a</b>																								
6772	POD_B2_Z08a_BoH - MEP 2nd fix	9	15-Apr-19	13-May-19	15-Apr-19 A	12-Nov-19	-152	100%	86.02%															
6771	POD_B2_Z08a_BoH - Ceiling grids	7	10-Apr-19	13-Apr-19	11-Sep-19 A	08-Nov-19	-173	100%	30%															
6779	POD_B2_Z08a_BoH - Wall final paint	28	18-Jul-19	24-Jul-19	24-Sep-19 A	03-Dec-19	-110	100%	30%															
6777	POD_B2_Z08a_BoH - MEP final fix	28	19-Jul-19	08-Aug-19	14-Oct-19 A	03-Dec-19	-97	100%	30%															
6773	POD_B2_Z08a_BoH - Close ceiling (panels) incl. Cut-Outs	12	14-May-19	28-May-19	13-Nov-19	26-Nov-19	-151	100%	0%															
6778	POD_B2_Z08a_BoH - Carpet flooring/ rubber tiling	3	09-Aug-19	12-Aug-19	04-Dec-19	06-Dec-19	-97	100%	0%															
6776	POD_B2_Z08a_BoH - Doors & Ironmong	6	13-Aug-19	19-Aug-19	07-Dec-19	13-Dec-19	-97	100%	0%															
<b>BoH Rooms - Susp. Ceiling Area - POD_B2_Z08b</b>																								
6815	POD_B2_Z08b_BoH - Ceiling rods	3	26-Apr-19	03-May-19	23-Sep-19 A	07-Nov-19	-156	100%	50%															
6814	POD_B2_Z08b_BoH - MEP 1st fix	6	04-May-19	15-Jul-19	13-May-19 A	07-Nov-19	-96	100%	87%															
6816	POD_B2_Z08b_BoH - MEP 2nd fix	15	12-Aug-19	07-Sep-19	08-Jul-19 A	21-Nov-19	-61	100%	60%															
6819	POD_B2_Z08b_BoH - Wall paint undercoat	9	11-Oct-19	24-Oct-19	19-Aug-19 A	11-Nov-19	-15	100%	75%															
6822	POD_B2_Z08b_BoH - Wall final paint	12	25-Oct-19	31-Oct-19	22-Aug-19 A	18-Nov-19	-15	100%	50%															
6820	POD_B2_Z08b_BoH - Doors & Ironmong	12	20-Nov-19	03-Dec-19	12-Sep-19 A	14-Nov-19	16	0%	50%															
7413	POD_B2_Z08b_BoH - Ceiling grids	7	02-Aug-19	10-Aug-19	16-Sep-19 A	14-Nov-19	-79	100%	40%															
6824	POD_B2_Z08b_BoH - MEP final fix	24	25-Oct-19	14-Nov-19	14-Oct-19 A	16-Dec-19	-27	33.33%	30%															
6817	POD_B2_Z08b_BoH - Close ceiling (panels) incl. Cut-Outs	21	09-Sep-19	10-Oct-19	15-Nov-19	09-Dec-19	-51	100%	0%															
6821	POD_B2_Z08b_BoH - Floor sealer	4	15-Nov-19	19-Nov-19	17-Dec-19	20-Dec-19	-27	0%	0%															
<b>BoH Rooms - Refuse/ Recycling Rooms @ North of G.L. 6' - POD_B2_Z08c</b>																								
6825	POD_B2_Z08c_BoH - MEP 1st fix (rem works)	6	26-Feb-19	25-Mar-19	08-Apr-19 A	07-Nov-19	-188	100%	94%															
6827	POD_B2_Z08c_BoH - MEP 2nd fix	12	26-Mar-19	23-Apr-19	17-Apr-19 A	18-Nov-19	-173	100%	85%															
6833	POD_B2_Z08c_BoH - MEP final fix	18	19-Jul-19	01-Aug-19	15-Aug-19 A	25-Nov-19	-96	100%	15%															
6831	POD_B2_Z08c_BoH - Floor Tiling	24	02-Aug-19	16-Aug-19	09-Sep-19 A	02-Dec-19	-89	100%	80%															
6832	POD_B2_Z08c_BoH - Doors & Ironmong	25	17-Aug-19	23-Aug-19	16-Sep-19 A	05-Dec-19	-86	100%	80%															
<b>BoH Rooms, Lobbies, Non-FR Corr. Non Raised Floor &amp; Susp. Ceiling Area - POD_B2_08d</b>																								
6841	POD_B2_Z08d_BoH - Floor screeding	6	09-Mar-19	02-May-19	08-Apr-19 A	07-Nov-19	-157	100%	87%															
6837	POD_B2_Z08d_BoH - MEP 1st fix (rem works) (*2 shifts)	12	02-May-19	03-Aug-19	11-Mar-19 A	14-Nov-19	-85	100%	85%															
7424	POD_B2_Z08d_BoH - MEP 2nd fix	18	05-Aug-19	16-Oct-19	15-Apr-19 A	22-Nov-19	-31	100%	72%															
9307	POD_B2_Z08d_BoH - Maintenance platform (rem works) (Rm B2-1-031/041)	18	22-Jun-19	03-Aug-19	09-Sep-19 A	22-Nov-19	-91	100%	35.62%															
6839	POD_B2_Z08d_BoH - Door & Ironmong	18	22-Jan-20	19-Feb-20	11-Sep-19 A	21-Nov-19	68	0%	50%															
6840	POD_B2_Z08d_BoH - MEP final fix	24	24-Oct-19	20-Nov-19	16-Sep-19 A	03-Dec-19	-11	29.17%	24%															
6846	POD_B2_Z08d_BoH - Install security shutters (5nos. SR3/ 3nos. normal)	18	24-Sep-19	23-Oct-19	14-Oct-19 A	28-Nov-19	-31	100%	38%															
6841a	POD_B2_Z08d_BoH - Remove Bench Mark/Mock-up Panel at Rm B2-1-040	12			04-Nov-19*	16-Nov-19		0%	0%															
8931	POD_B2_Z08d_BoH - Wall final paint	45	14-Nov-19	07-Jan-20	18-Nov-19	10-Jan-20	-3	0%	0%															
6847	POD_B2_Z08d_BoH - 10nos. SR3 Doors/ 3nos. O'S SR3 Doors & Iron., (Use temp	12	17-Oct-19	30-Oct-19	22-Nov-19	05-Dec-19	-31	100%	0%															
6842	POD_B2_Z08d_BoH - Floor sealer	36	29-Nov-19	21-Jan-20	12-Dec-19	24-Jan-20	-3	0%	0%															
6847a	POD_B2_Z08d_BoH - 3nos. O'S SR3 Doors & Iron., (Permanent)	5			14-May-20	19-May-20		0%	0%															
<b>Level B1</b>																								
<b>Structural</b>																								
<b>Slabs</b>																								
6671	POD_B1 - DF/3-11 Install acoustic isolators	12	26-Mar-19	16-Apr-19	25-Nov-19	07-Dec-19	-196	100%	0%															
6672	POD_B1 - DF/3-11 Floating slab Fwork (Steelplate installation)	18	17-Apr-19	15-May-19	09-Dec-19	30-Dec-19	-190	100%	0%															
7206	POD_B1 - F+G/8-12+ Floating slab (steelplate installation)	10	03-Aug-19	14-Aug-19	11-Nov-19	21-Nov-19	-82	100%	0%															
7209	POD_B1 - GH+/4-9+ Install acoustic isolator	6	05-Jul-19	11-Jul-19	04-Nov-19*	09-Nov-19	-101	100%	0%															
7210	POD_B1 - GH+/4-9+ Floating slab (Steelplate installation)	12	12-Jul-19	25-Jul-19	11-Nov-19	23-Nov-19	-101	100%	0%															
<b>Road Works</b>																								
9516	POD_B1_RD - Construct road drainage	34	15-Jun-19	27-Jul-19	02-Sep-19 A	10-Dec-19	-113	100%	67%															
9517	POD_B1_BD - Construct road works	46	29-Jul-19	27-Sep-19	20-Sep-19 A	24-Dec-19	-73	100%	30%															
<b>ABWF Works &amp; MEP Works</b>																								
<b>BoH Plant Rooms &amp; Corridors @ GL (2 to 10/L to M) - POD_B1_Z02</b>																								
8765	POD_B1_Z02_BoH - MEP 1st fix	9	29-Jul-19	23-Sep-19	13-May-19 A	11-Nov-19	-40	100%	70%															
7056	POD_B1_Z02_BoH - MEP 2nd fix	15	24-Sep-19	23-Oct-19	15-Jul-19 A	18-Nov-19	-22	100%	61%															
7059	POD_B1_Z02_BoH - Door & Ironmong	24	26-Nov-19	02-Dec-19	16-Sep-19 A	02-Dec-19	0	0%	80%															
7063	POD_B1_Z02_BoH - Ceiling & wall epoxy/ emulsion paint	15	24-Oct-19	06-Nov-19	14-Oct-19 A	25-Nov-19	-16	58.33%	40%															
7060	POD_B1_Z02_BoH - MEP final fix	12	07-Nov-19	20-Nov-19	26-Nov-19	09-Dec-19	-16	0%	0%															
7061	POD_B1_Z02_BoH - Floor sealer	4	21-Nov-19	25-Nov-19	10-Dec-19	13-Dec-19	-16	0%	0%															
7062	POD_B1_Z02_BoH - All Other Finishes / Make Good & Clean	12	26-Nov-19	09-Dec-19	07-Dec-19	20-Dec-19	-10	0%	0%															
<b>BoH Rooms &amp; Plant Rooms @ GL (2 to 4/E to J+) - POD_B1_Z03</b>																								
7091	POD_B1_Z03_BoH - MEP 2nd fix	12	12-Jun-19	03-Jul-19	17-Apr-19 A	14-Nov-19	-112	100%	89%															
7095	POD_B1_Z03_BoH - MEP final fix	21	19-Jul-19	29-Jul-19	15-Aug-19 A	25-Nov-19	-99	100%	20%															
7093	POD_B1_Z03_BoH - Door & Ironmong	12	02-Aug-19	08-Aug-19	23-Sep-19 A	14-Nov-19	-81	100%	50%															
7096	POD_B1_Z03_BoH - Floor sealer	3	30-Jul-19	01-Aug-19	26-Nov-19	28-Nov-19	-99	100%	0%															
7097	POD_B1_Z03_BoH - All Other Finishes / Make Good & Clean	12	02-Aug-19	15-Aug-19	22-Nov-19	05-Dec-19	-93	100%	0%															
<b>BoH Plant Rooms @ GL (2 to 12/A- to D+) - POD_B1_Z04</b>																								
7107	POD_B1_Z04_BoH - All Other Finishes / Make Good & Clean	18	08-Oct-19	28-Oct-19	25-Nov-19	14-Dec-19	-41	100%	0%															
<b>BoH Plant Rooms @ GL (2 to 12/A- to D+) - Raised Floor Areas - POD_B1_Z04b</b>																								











ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020														
										Qtr 4			Qtr 1			Qtr 2			Qtr 3					
										Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep			
7379	POD_LG_Z18d_FoH - Underfloor MEP 1st fix, 2nd fix & final fix (*2 shifts)	18	01-Nov-19	22-Nov-19	31-Dec-19	22-Jan-20	-50	0%	0%															
7380	POD_LG_Z18d_FoH - Raised floor panels incl. cut-outs	5	23-Nov-19	28-Nov-19	23-Jan-20	05-Feb-20	-50	0%	0%															
7373	POD_LG_Z18d_FoH - Wall finishes (fabric panels)	12	29-Nov-19	12-Dec-19	06-Feb-20	19-Feb-20	-50	0%	0%															
7374	POD_LG_Z18d_FoH - Doors & Ironmong	6	29-Nov-19	05-Dec-19	06-Feb-20	12-Feb-20	-50	0%	0%															
7371a	POD_LG_Z18d_FoH - Ceiling finishes (Timber @ LG-1-312 corr only 3m2)	2			10-Apr-20	11-Apr-20		0%	0%															
7373a	POD_LG_Z18d_FoH - Wall finishes (Timber @ LG-1-312 corr only)	2			13-Apr-20	14-Apr-20		0%	0%															
7375	POD_LG_Z18d_FoH - Floor finishes (carpet, resilient layer, ply + timber)	6	13-Dec-19	19-Dec-19	15-Apr-20	21-Apr-20	-96	0%	0%															
<b>BoH Rooms Adjacent to Cinemas - Shared Control/ Projection Rm, Storage - POD_LG_Z18d</b>																								
8773	POD_LG_Z18d_BoH - MEP 1st fix (HL)	6	26-Jul-19	05-Sep-19	23-Sep-19 A	07-Nov-19	-51	100%	80%															
7381	POD_LG_Z18d_BoH - MEP 2nd fix (HL)	11	06-Sep-19	27-Sep-19	21-Oct-19 A	13-Nov-19	-38	100%	50%															
7382	POD_LG_Z18d_BoH - Raised floor pedestal	5	28-Sep-19	04-Oct-19	12-Nov-19	16-Nov-19	-36	100%	0%															
7389	POD_LG_Z18d_BoH - Underfloor MEP 1st & 2nd fix	18	05-Oct-19	26-Oct-19	18-Nov-19	07-Dec-19	-36	100%	0%															
7390	POD_LG_Z18d_BoH - Raised floor panels incl. cut-outs	3	28-Oct-19	30-Oct-19	09-Dec-19	11-Dec-19	-36	100%	0%															
7383	POD_LG_Z18d_BoH - Wall paint 1st coat	2	31-Oct-19	01-Nov-19	12-Dec-19	13-Dec-19	-36	50%	0%															
7384	POD_LG_Z18d_BoH - Doors & Ironmong	6	01-Nov-19	07-Nov-19	13-Dec-19	19-Dec-19	-36	0%	0%															
7386	POD_LG_Z18d_BoH - Wall final paint - top coat	3	02-Nov-19	05-Nov-19	14-Dec-19	17-Dec-19	-36	0%	0%															
7388	POD_LG_Z18d_BoH - MEP final fix	9	02-Nov-19	12-Nov-19	14-Dec-19	24-Dec-19	-36	0%	0%															
7385	POD_LG_Z18d_BoH - Rubber flooring	3	13-Nov-19	15-Nov-19	26-Dec-19	28-Dec-19	-36	0%	0%															
<b>FoH Cinema Toilet Adjacent to Cinemas - POD_LG_Z18d</b>																								
8774	POD_LG_Z18d_FoH Toilet - MEP 1st fix	3	22-Jul-19	03-Aug-19	25-Sep-19 A	04-Nov-19	-76	100%	90%															
7400	POD_LG_Z18d_FoH Toilet - Ceiling Rods/ Grids	4	05-Aug-19	09-Aug-19	05-Nov-19	09-Nov-19	-76	100%	0%															
7395	POD_LG_Z18d_FoH Toilet - MEP 2nd fix	6	09-Aug-19	16-Aug-19	09-Nov-19	16-Nov-19	-76	100%	0%															
7396	POD_LG_Z18d_FoH Toilet - Ceiling finishes (Susp. MFR Gypsum) + painting	6	13-Aug-19	20-Aug-19	16-Nov-19	22-Nov-19	-79	100%	0%															
7398	POD_LG_Z18d_FoH Toilet - Conc fir curing, polishing & install protection	36	20-Aug-19	03-Oct-19	23-Nov-19	06-Jan-20	-79	100%	0%															
7397	POD_LG_Z18d_FoH Toilet - Wall finishes	6	03-Oct-19	11-Oct-19	07-Jan-20	13-Jan-20	-79	100%	0%															
7399	POD_LG_Z18d_FoH Toilet - MEP final fix incl sanitary ware & fittings	6	11-Oct-19	18-Oct-19	10-Jan-20	16-Jan-20	-76	100%	0%															
7401	POD_LG_Z18d_FoH Toilet - Door & Ironmong	2	18-Oct-19	21-Oct-19	15-Jan-20	16-Jan-20	-74	100%	0%															
<b>Level GF</b>																								
<b>Structural</b>																								
<b>Walls</b>																								
7019	POD_GF_WALL - CH3-4 Wall construction	12	15-Jan-19	25-Mar-19	15-Jan-19 A	14-Nov-19	-194	100%	90%															
7034	*POD_GF_WALL - DM3-6 Wall construction	12	06-Nov-18	16-Feb-19	15-Jan-19 A	14-Nov-19	-225	100%	90%															
<b>ABWF Works &amp; MEP Works</b>																								
<b>BoH Rooms/Toilets/Corr/ Lob adjacent to Auditorium &amp; MIC - POD_GF_Z02</b>																								
7952	POD_GF_Z02 - All Other Finishes / Make Good & Clean	18	25-Oct-19	14-Nov-19	15-Apr-20	06-May-20	-138	33.33%	0%															
<b>FoH Toilets - Public &amp; Auditorium - POD_GF_Z02a (SZ2a)</b>																								
<b>Toilet Block</b>																								
9329	POD_GF_Z02a_FoH Toilet - Maintenance platform	4	10-Apr-19	23-Apr-19	26-Aug-19 A	05-Nov-19	-162	100%	80%															
7928	POD_GF_Z02a_FoH Toilet - MEP 1st fix Ceiling	15	26-Feb-19	09-Apr-19	28-Aug-19 A	19-Nov-19	-186	100%	10%															
11546	*POD_GF_Z02a_FoH Toilet - Forming Add'l Slab Opening incl installation of Steel E	9			24-Aug-19 A	11-Nov-19		0%	75%															
7926	POD_GF_Z02a_FoH Toilet - MEP 1st fix Block Wall	15	15-Feb-19	23-Feb-19	23-Sep-19 A	18-Nov-19	-222	100%	10%															
7921	POD_GF_Z02a_FoH Toilet - Floor Screed	4	19-Feb-19	22-Feb-19	21-Oct-19 A	05-Nov-19	-212	100%	25%															
7929	POD_GF_Z02a_FoH Toilet - Dry Wall Frame & Board (one side)	15	28-Mar-19	19-Apr-19	04-Nov-19*	20-Nov-19	-178	100%	0%															
7930	POD_GF_Z02a_FoH Toilet - Dry Wall MEP Services/Conduits (MEP 1st fix)	12	10-Apr-19	23-Apr-19	11-Nov-19	23-Nov-19	-178	100%	0%															
7931	POD_GF_Z02a_FoH Toilet - Close Dry Wall	13	24-Apr-19	09-May-19	16-Nov-19	30-Nov-19	-171	100%	0%															
7919	POD_GF_Z02a_FoH Toilet - Door Frame	2	10-Apr-19	11-Apr-19	18-Nov-19	19-Nov-19	-184	100%	0%															
7917	POD_GF_Z02a_FoH Toilet - Seal Wall Opening	3	25-Feb-19	27-Feb-19	19-Nov-19	21-Nov-19	-222	100%	0%															
7912	POD_GF_Z02a_FoH Toilet - Wall Plastering (internal & external)	4	10-May-19	14-May-19	02-Dec-19	05-Dec-19	-171	100%	0%															
7915	POD_GF_Z02a_FoH Toilet - Ceiling Rods & Grids	4	15-May-19	18-May-19	06-Dec-19	10-Dec-19	-171	100%	0%															
7918	POD_GF_Z02a_FoH Toilet - MEP 2nd fix	15	20-May-19	10-Jun-19	11-Dec-19	28-Dec-19	-168	100%	0%															
7916	POD_GF_Z02a_FoH Toilet - Close ceiling (board) incl. Cut-Outs	7	11-Jun-19	18-Jun-19	30-Dec-19	07-Jan-20	-168	100%	0%															
7927	POD_GF_Z02a_FoH Toilet - Ceiling finishes final coat	3	19-Jun-19	21-Jun-19	08-Jan-20	10-Jan-20	-168	100%	0%															
7920	POD_GF_Z02a_FoH Toilet - MEP final fix	6	19-Jul-19	25-Jul-19	11-Jan-20	17-Jan-20	-146	100%	0%															
7943	POD_GF_Z02a_FoH Toilet - Conc fir curing, polishing & install protection	36	26-Jul-19	05-Sep-19	18-Jan-20	07-Mar-20	-146	100%	0%															
7923	POD_GF_Z02a_FoH Toilet - Wall & floor tile finishes	12	30-Sep-19	15-Oct-19	09-Mar-20	21-Mar-20	-127	100%	0%															
7924	POD_GF_Z02a_FoH Toilet - Cubicle partitions & sanitary ware & fittings	6	16-Oct-19	22-Oct-19	19-Mar-20	25-Mar-20	-124	100%	0%															
7913	POD_GF_Z02a_FoH Toilet - Door / Ironmong	2	23-Oct-19	24-Oct-19	26-Mar-20	27-Mar-20	-124	100%	0%															
<b>Toilet Lobby/ Vestibule</b>																								
7939	POD_GF_Z02a_FoH Toilet - Ceiling rods	3	22-Feb-19	25-Feb-19	06-Nov-19	08-Nov-19	-213	100%	0%															
7940	POD_GF_Z02a_FoH Toilet - MEP 1st fix	12	26-Feb-19	11-Mar-19	09-Nov-19	22-Nov-19	-213	100%	0%															
7934	POD_GF_Z02a_FoH Toilet - Ceiling grids	2	12-Mar-19	13-Mar-19	23-Nov-19	25-Nov-19	-213	100%	0%															
7935	POD_GF_Z02a_FoH Toilet - MEP 2nd fix	6	14-Mar-19	20-Mar-19	26-Nov-19	02-Dec-19	-213	100%	0%															
7936	POD_GF_Z02a_FoH Toilet - Ceiling finishes (Plywood backing for Timber fin)	4	11-Jul-19	15-Jul-19	03-Dec-19	06-Dec-19	-121	100%	0%															
7937	POD_GF_Z02a_FoH Toilet - MEP final fix	6	16-Jul-19	22-Jul-19	07-Dec-19	13-Dec-19	-121	100%	0%															
7938	POD_GF_Z02a_FoH Toilet - Floor concrete pavers	3	03-Sep-19	05-Sep-19	05-Mar-20	07-Mar-20	-146	100%	0%															
7936a	POD_GF_Z02a_FoH Toilet - Ceiling finishes (Timber)	4			10-Apr-20	14-Apr-20		0%	0%															
7942	POD_GF_Z02a_FoH Toilet - Wall finishes (Timber)	6	06-Sep-19	12-Sep-19	15-Apr-20	21-Apr-20	-177	100%	0%															
<b>BoH Rooms/Corridors/ Lobbies - POD_GF_Z02b (SZ2)</b>																								
7957	POD_GF_Z02b_BoH - B'wall/ Dry wall, tie-bolt holes, plaster, screed, sealer	6	01-Apr-19	29-Apr-19	08-Jul-19 A	07-Nov-19	-159	100%	70%															
7944	POD_GF_Z02b_BoH - MEP 1st fix	12	04-May-19	15-Jun-19	16-Sep-19 A	14-Nov-19	-126	100%	50%															
7945	POD_GF_Z02b_BoH - Ceiling rods	3	30-Apr-19	03-May-19	08-Nov-19	11-Nov-19	-159	100%	0%															
7958	POD_GF_Z02b_BoH - Ceiling grids	3	17-Jun-19	19-Jun-19	12-Nov-19	14-Nov-19	-123	100%	0%															
7946	POD_GF_Z02b_BoH - MEP 2nd fix	18	20-Jun-19	11-Jul-19	15-Nov-19	05-Dec-19	-123	100%	0%															
7947	POD_GF_Z02b_BoH - Ceiling finishes (meta panel, board + fabric panels)	6	12-Jul-19	18-Jul-19	06-Dec-19	12-Dec-19	-123	100%	0%															
7949	POD_GF_Z02b_BoH - Wall finishes (paint, fabric panels)	6	19-Jul-19	25-Jul-19	10-Dec-19	16-Dec-19	-120	100%																



ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020												
										2019			2020			2020			2020			
										Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
9668	POD_GF_Z09_FoH - 1no. SR3 O'S Door & Iron. (Use Temp for FSD)	3	03-Oct-19	05-Oct-19	10-Dec-19	12-Dec-19	-57	100%	0%													
8105	POD_GF_Z09_FoH - Door & Ironmong	6	10-Dec-19	16-Dec-19	20-Jan-20*	03-Feb-20	-33	0%	0%													
9668a	POD_GF_Z09_FoH - 1no. SR3 O'S Door & Iron. (Permanent)	3			14-May-20	16-May-20		0%	0%													
8110	POD_GF_Z09_FoH - Floor finishes (resilient layer, ply + timber)	19	18-Nov-19	09-Dec-19	25-May-20*	15-Jun-20	-151	0%	0%													
<b>BoH Surrounding Temporary Exhibition 1A &amp; 1B - POD_GF_Z09a</b>																						
8829	POD_GF_Z09/9a_BoH - All Other Finishes / Make Good & Clean	18	10-Dec-19	31-Dec-19	20-Jun-20	13-Jul-20	-155	0%	0%													
<b>BoH Surrounding Temporary Exhibition 1A &amp; 1B @ G.L. 7-8/ A-D - POD_GF_Z09a</b>																						
8126	POD_GF_Z09a_BoH - B/wall, plaster, screed, C sealer (rem. works)	6	17-Apr-19	08-May-19	15-Jul-19 A	07-Nov-19	-152	100%	50%													
8122	POD_GF_Z09a_BoH - MEP 1st fix (rem. works)	12	09-May-19	15-Jun-19	18-Jul-19 A	14-Nov-19	-126	100%	83%													
8124	POD_GF_Z09a_BoH - MEP 2nd fix	18	17-Jun-19	08-Jul-19	08-Nov-19	28-Nov-19	-120	100%	0%													
8127	POD_GF_Z09a_BoH - Wall paint undercoat	6	09-Jul-19	15-Jul-19	29-Nov-19	05-Dec-19	-120	100%	0%													
8130	POD_GF_Z09a_BoH - Wall final paint	6	16-Jul-19	22-Jul-19	06-Dec-19	12-Dec-19	-120	100%	0%													
8132	POD_GF_Z09a_BoH - MEP final fix	9	23-Jul-19	01-Aug-19	13-Dec-19	23-Dec-19	-120	100%	0%													
8129	POD_GF_Z09a_BoH - Floor sealer	3	02-Aug-19	05-Aug-19	24-Dec-19	27-Dec-19	-120	100%	0%													
8128	POD_GF_Z09a_BoH - Doors/ 1no. SR3 Doors & Ironmong	6	06-Aug-19	12-Aug-19	28-Dec-19	04-Jan-20	-120	100%	0%													
<b>BoH Surrounding Temporary Exhibition 1A &amp; 1B @ G.L. 2-4/ A-D - POD_GF_Z09a</b>																						
8832	POD_GF_Z09a_BoH - Patching-up tie-bolt holes, sealer, screed	5	17-Apr-19	08-May-19	22-Jul-19 A	06-Nov-19	-151	100%	50%													
9735	POD_GF_Z09a_BoH - Dry Wall Frame & Board (one side)	9	09-May-19	25-May-19	25-Jul-19 A	12-Nov-19	-141	100%	70%													
8822	POD_GF_Z09a_BoH - MEP 1st fix	6	15-May-19	26-Jun-19	26-Jul-19 A	09-Nov-19	-113	100%	94%													
8823	POD_GF_Z09a_BoH - Ceiling rods	3	09-May-19	14-May-19	04-Nov-19	06-Nov-19	-146	100%	0%													
8833	POD_GF_Z09a_BoH - Ceiling grids	3	27-Jun-19	29-Jun-19	11-Nov-19	13-Nov-19	-113	100%	0%													
9736	POD_GF_Z09a_BoH - Dry Wall MEP Services/Conduits MEP 1st fix	18	27-May-19	17-Jun-19	13-Nov-19	03-Dec-19	-141	100%	0%													
8824	POD_GF_Z09a_BoH - MEP 2nd fix	18	02-Jul-19	22-Jul-19	14-Nov-19	04-Dec-19	-113	100%	0%													
9737	POD_GF_Z09a_BoH - Close Dry Wall	11	18-Jun-19	29-Jun-19	04-Dec-19	16-Dec-19	-141	100%	0%													
8830	POD_GF_Z09a_BoH - MEP final fix	9	23-Jul-19	01-Aug-19	17-Dec-19	27-Dec-19	-123	100%	0%													
9669	POD_GF_Z09a_BoH - 1no. SR3 Door & Ironmong @ Corridor	6	05-Aug-19	10-Aug-19	31-Dec-19	07-Jan-20	-123	100%	0%													
8826	POD_GF_Z09a_BoH - Staff Ent./ Sec. Rm/ Corr/ Toilet Lob floor concrete pavers	6	02-Aug-19	08-Aug-19	28-Dec-19	04-Jan-20	-123	100%	0%													
8825	POD_GF_Z09a_BoH - Staff Ent./ Sec. Rm/ Corr/ Lob Ceiling finishes (ply + timber)	8	18-Nov-19	26-Nov-19	16-Jun-20	24-Jun-20	-170	0%	0%													
8828	POD_GF_Z09a_BoH - Staff Ent./ Sec. Rm/ Corr/ Lob Wall finishes (ply + timber)	8	27-Nov-19	05-Dec-19	26-Jun-20	06-Jul-20	-170	0%	0%													
8834	POD_GF_Z09a_BoH - Toilets & Lobby Ceiling Finishes (gypsum + paint, metal)	21	03-Sep-19	09-Sep-19	21-Oct-19 A	06-Dec-19	-73	100%	10%													
8837	POD_GF_Z09a_BoH - Toilets & Lobby flr polished concrete & install protection	36	23-Jul-19	02-Sep-19	05-Dec-19	17-Jan-20	-113	100%	0%													
8835	POD_GF_Z09a_BoH - Toilets wall tiling, sanitary ware & fittings	5	16-Oct-19	21-Oct-19	17-Dec-19	21-Dec-19	-53	100%	0%													
8836	POD_GF_Z09a_BoH - Corr & Storage Wall finishes (paint)	6	23-Jul-19	29-Jul-19	17-Dec-19	23-Dec-19	-123	100%	0%													
8838	POD_GF_Z09a_BoH - Corr & Storage floor sealer	2	02-Aug-19	03-Aug-19	28-Dec-19	30-Dec-19	-123	100%	0%													
8827	POD_GF_Z09a_BoH - Doors & Ironmong	6	06-Dec-19	12-Dec-19	18-Jan-20	24-Jan-20	-35	0%	0%													
<b>Courtyard Hanging Planter</b>																						
6988	POD_GF - Courtyard Irrigation & drainage pipe installation	42	29-Nov-19	18-Jan-20	01-Nov-19	19-Dec-19	24	0%	0%													
7040*	POD_GF - Courtyard Mock up installation for silicon pot & S.S cage	18	29-Nov-19	19-Dec-19	01-Nov-19	21-Nov-19	24	0%	0%													
7078	POD_GF - Courtyard installation of pots & cages	24	20-Dec-19	18-Jan-20	22-Nov-19	19-Dec-19	24	0%	0%													
7088	POD_GF - Courtyard soft landscape	24	06-Jan-20	10-Feb-20	06-Dec-19	04-Jan-20	24	0%	0%													
7090	POD_GF - Courtyard exterior frame	18	20-Jan-20	17-Feb-20	20-Dec-19	11-Jan-20	24	0%	0%													
<b>Level 1</b>																						
<b>ABWF Works &amp; MEP Works</b>																						
<b>Museum Shop No.1 Offices/Storage &amp; Lift Lobby - POD_L1_Z02</b>																						
8195	POD_L1_Z02 - Patching-up tie bolt holes, wall & ceiling sealer, screed	6	11-Apr-19	02-May-19	20-May-19 A	07-Nov-19	-157	100%	80%													
8196	POD_L1_Z02 - MEP 1st fix	15	03-May-19	14-Jun-19	19-Aug-19 A	18-Nov-19	-130	100%	80%													
8198	POD_L1_Z02 - Dry Wall Frame & Board (one side)	3	03-May-19	06-May-19	08-Nov-19	11-Nov-19	-157	100%	0%													
8201	POD_L1_Z02 - Dry Wall MEP Services/Conduits MEP 1st fix	6	07-May-19	13-May-19	13-Nov-19	18-Nov-19	-157	100%	0%													
8197	POD_L1_Z02 - MEP 2nd fix	18	15-Jun-19	06-Jul-19	19-Nov-19	09-Dec-19	-130	100%	0%													
8203	POD_L1_Z02 - Close Dry Wall	2	14-May-19	15-May-19	19-Nov-19	20-Nov-19	-157	100%	0%													
8202	POD_L1_Z02 - MEP final fix	9	19-Jul-19	29-Jul-19	10-Dec-19	19-Dec-19	-120	100%	0%													
8200	POD_L1_Z02 - Full height internal glazing	12	08-Jul-19	20-Jul-19	10-Dec-19	23-Dec-19	-130	100%	0%													
8199	POD_L1_Z02 - Floor finishes (linoleum, sealer)	6	30-Jul-19	05-Aug-19	24-Dec-19	31-Dec-19	-123	100%	0%													
8193	POD_L1_Z02 - Door / Ironmong	6	06-Aug-19	12-Aug-19	02-Jan-20	08-Jan-20	-123	100%	0%													
8194	POD_L1_Z02 - All Other Finishes / Make Good & Clean	12	20-Aug-19	02-Sep-19	02-Jan-20	15-Jan-20	-111	100%	0%													
8211	POD_L1_Z02 - Install FF&E	12	06-Aug-19	19-Aug-19	11-Jul-20	24-Jul-20	-276	100%	0%													
<b>Level 1MF</b>																						
<b>ABWF Works &amp; MEP Works</b>																						
8244	POD_1M_Z01-04 - All Other Finishes / Make Good & Clean	24	14-Dec-19	14-Jan-20	16-Dec-19	14-Jan-20	-1	0%	0%													
<b>MEP Plantrooms, Lobbies &amp; Corridors - POD_1M_Z01</b>																						
8206	POD_1M_Z01 - MEP 1st fix (Rem Works)	10	20-Mar-19	13-Jul-19	01-Mar-19 A	12-Nov-19	-101	100%	82%													
8206a	POD_1M_Z01 - MEP 1st fix Connect Duct Work to Pisa Louvres	12			16-Sep-19 A	14-Nov-19		0%	15%													
8214	POD_1M_Z01 - MEP 2nd fix (incl. EQP)	15	02-Aug-19	15-Oct-19	08-Apr-19 A	19-Nov-19	-31	100%	80%													
8283	POD_1M_Z01 - Install Catwalk	9	24-May-19	13-Jul-19	08-Jul-19 A	12-Nov-19	-101	100%	85%													
8212	POD_1M_Z01 - MEP final fix	21	15-Oct-19	26-Nov-19	21-Oct-19 A	26-Nov-19	-1	40.43%	15%													
8217	POD_1M_Z01 - Wall final paint @ all areas	18	15-Oct-19	05-Nov-19	20-Nov-19	10-Dec-19	-31	80.86%	0%													
8210	POD_1M_Z01 - Floor sealer	16	26-Nov-19	14-Dec-19	11-Dec-19	30-Dec-19	-13	0%	0%													
8208	POD_1M_Z01 - Door & Ironmong	6	14-Dec-19	21-Dec-19	31-Dec-19	07-Jan-20	-13	0%	0%													
<b>MEP Plantrooms, Lobbies &amp; Corridors - POD_1M_Z02</b>																						
8218	POD_1M_Z02 - MEP 1st fix (Rem Works)	10	20-Mar-19	13-Jul-19	01-Mar-19 A	12-Nov-19	-101	100%	85%													
8218a	POD_1M_Z02 - MEP 1st fix Connect Duct Work to Pisa Louvres	12			16-Sep-19 A	14-Nov-19		0%	50%													
8226	POD_1M_Z02 - MEP 2nd fix (incl. EQP)	15	02-Aug-19	15-Oct-19	08-Apr-19 A	19-Nov-19	-31	100%	82%													
8284	POD_1M_Z02 - Install Catwalk	9	24-May-19	13-Jul-19	08-Jul-19 A	12-Nov-19	-101	100%	95%													
8223	POD_1M_Z02 - MEP final fix	21	15-Oct-19	26-Nov-19	21-Oct-19 A	26-Nov-19	-1	40.43%	15%													
8228	POD_1M_Z02 - Wall final paint @ all areas	8	15-Oct-19	24-Oct-19	20																	







ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020												
										Qtr 4			Qtr 1			Qtr 2			Qtr 3			
											Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
8465a	POD_L2_Z02g_FoH Toilet Lob - Wall Finishes (Plywood backing)	4			16-Nov-19	20-Nov-19		0%	0%													
8468	POD_L2_Z02g_FoH Toilet Lob - Underfloor MEP 1st & 2nd fix	6	13-Aug-19	19-Aug-19	20-Nov-19	26-Nov-19	-82	100%	0%													
8469	POD_L2_Z02g_FoH Toilet Lob - Raised floor panels incl. cut-outs	3	20-Aug-19	22-Aug-19	27-Nov-19	29-Nov-19	-82	100%	0%													
8461a	POD_L2_Z02g_FoH Toilet Lob - Floor finishes (resilient layer, ply base)	4			30-Nov-19	04-Dec-19		0%	0%													
8459	POD_L2_Z02g_FoH Toilet Lob - Ceiling finishes (Timber)	3	18-Nov-19	20-Nov-19	11-May-20	13-May-20	-139	0%	0%													
8465	POD_L2_Z02g_FoH Toilet Lob - Wall Finishes (Timber)	4	21-Nov-19	27-Nov-19	14-May-20	18-May-20	-137	0%	0%													
8461	POD_L2_Z02g_FoH Toilet Lob - Floor finishes (timber)	4	28-Nov-19	04-Dec-19	19-May-20	22-May-20	-135	0%	0%													
<b>Galleries &amp; Gallery Circ, Gallery BOH, BOH Rms, Lobbies &amp; Corridors - POD_L2_Z03</b>																						
8612	POD_L2_Z03b/c_BoH - All Other Finishes / Make Good & Clean	12	06-Aug-19	19-Aug-19	24-Dec-19	08-Jan-20	-117	100%	0%													
8573	POD_L2_Z03a_FoH - All Other Finishes / Make Good & Clean	30	19-Mar-20	15-May-20	26-May-20	30-Jun-20	-38	0%	0%													
<b>Gallery 12 &amp; 13, Open Gallery, Harbour View Gallery 2 and Gallery Circ. - POD_L2_Z03a (S26)</b>																						
8574	POD_L2_Z03a_FoH - MEP 1st fix	6	27-Apr-19	24-Jun-19	25-Mar-19 A	07-Nov-19	-113	100%	80%													
8575	POD_L2_Z03a_FoH - MEP 2nd fix (partly)	9	15-Jul-19	10-Aug-19	08-Apr-19 A	11-Nov-19	-76	100%	70%													
8576	POD_L2_Z03a_FoH - Dry Wall Frame & Board (one side)	6	20-May-19	17-Jun-19	21-Jun-19 A	07-Nov-19	-119	100%	40%													
8579	POD_L2_Z03a_FoH - Dry Wall MEP Services/Conduits MEP 1st fix	9	18-Jun-19	16-Jul-19	19-Aug-19 A	11-Nov-19	-98	100%	50%													
8575a	POD_L2_Z03a_FoH - MEP 2nd fix	18			05-Nov-19*	25-Nov-19		0%	0%													
8588a	POD_L2_Z03a_FoH - Ceiling board	28			21-Oct-19 A	03-Dec-19		0%	20%													
8575b	POD_L2_Z03a_FoH - MEP Final Fix	21			16-Nov-19	10-Dec-19		0%	0%													
8581	POD_L2_Z03a_FoH - Close Dry Wall / Board	12	23-Nov-19	17-Dec-19	14-Oct-19 A	18-Nov-19	25	0%	70%													
8583	POD_L2_Z03a_FoH - Raised floor pedestal	21	22-Jul-19	27-Aug-19	26-Nov-19	19-Dec-19	-95	100%	0%													
8584	POD_L2_Z03a_FoH - Underfloor MEP 1st fix	21	05-Aug-19	23-Sep-19	03-Dec-19	27-Dec-19	-79	100%	0%													
9641	POD_L2_Z03a_FoH - Underfloor MEP 2nd fix	21	24-Sep-19	23-Oct-19	10-Dec-19	04-Jan-20	-61	100%	0%													
8585	POD_L2_Z03a_FoH - Raised floor panels incl. cut-outs	21	24-Oct-19	09-Nov-19	24-Dec-19	18-Jan-20	-58	46.67%	0%													
8580	POD_L2_Z03a_FoH - MEP final fix (in Raised Floor)	21	28-Oct-19	23-Nov-19	09-Jan-20	10-Feb-20	-58	16.67%	0%													
8572	POD_L2_Z03a_FoH - Door/ 2nos. SR3 O'S Doors / Ironmong	6	11-Nov-19	16-Nov-19	20-Jan-20	03-Feb-20	-58	0%	0%													
8577a	POD_L2_Z03a_FoH - Flr finishes (resilient layer, ply base)	14			11-Feb-20	26-Feb-20		0%	0%													
9686	POD_L2_Z03a_FoH - Install Roller Blinds	12	11-Feb-20	24-Feb-20	02-Mar-20	14-Mar-20	-17	0%	0%													
8587	POD_L2_Z03a_FoH - Ceiling finishes (insulation/acoustic plaster, Timber at Circ/Pe	30	06-Dec-19	07-Feb-20	20-Apr-20	25-May-20	-90	0%	0%													
8578	POD_L2_Z03a_FoH - Wall finishes (paint/Timber @ Circ-passage only)	36	20-Jan-20	25-Mar-20	27-Apr-20	08-Jun-20	-62	0%	0%													
8577	POD_L2_Z03a_FoH - Flr finishes (timber) + flr grilles	30	29-Feb-20	09-Apr-20	19-May-20	22-Jun-20	-62	0%	0%													
8590	POD_L2_Z03a_FoH - Facade timber mullion capping	12	10-Apr-20	23-Apr-20	09-Jun-20	22-Jun-20	-50	0%	0%													
<b>Gallery BOH Internal - POD_L2_Z03b</b>																						
8618	POD_L2_Z03b_BoH - MEP 1st fix	3	16-Mar-19	27-Apr-19	15-Mar-19 A	04-Nov-19	-157	100%	81%													
8619	POD_L2_Z03b_BoH - MEP 2nd fix	6	03-Jun-19	24-Jun-19	10-Jun-19 A	12-Nov-19	-117	100%	70%													
8620	POD_L2_Z03b_BoH - Dry Wall Frame & Board (one side)	4	20-May-19	25-May-19	22-Jul-19 A	05-Nov-19	-135	100%	70%													
8626	POD_L2_Z03b_BoH - Underfloor MEP 1st & 2nd fix	15	03-Jul-19	09-Jul-19	26-Jul-19 A	20-Nov-19	-112	100%	47%													
8622	POD_L2_Z03b_BoH - Dry Wall MEP Services/Conduits MEP 1st fix	6	27-May-19	01-Jun-19	19-Aug-19 A	08-Nov-19	-132	100%	70%													
8624	POD_L2_Z03b_BoH - Close Dry Wall	7	03-Jun-19	06-Jun-19	26-Aug-19 A	12-Nov-19	-131	100%	70%													
8625	POD_L2_Z03b_BoH - Safe grid metal deck 1st fix	12	25-Jun-19	28-Jun-19	27-Aug-19 A	16-Nov-19	-117	100%	50%													
8621	POD_L2_Z03b_BoH - Wall finishes (paint)	6	25-Jun-19	02-Jul-19	13-Nov-19	19-Nov-19	-117	100%	0%													
8627	POD_L2_Z03b_BoH - Install Safe grid metal deck	3	13-Jul-19	16-Jul-19	25-Nov-19	27-Nov-19	-112	100%	0%													
8623	POD_L2_Z03b_BoH - MEP final fix	9	19-Jul-19	29-Jul-19	28-Nov-19	07-Dec-19	-110	100%	0%													
8616	POD_L2_Z03b_BoH - Door / Ironmong	6	30-Jul-19	05-Aug-19	09-Dec-19	14-Dec-19	-110	100%	0%													
9689	POD_L2_Z03b_BoH - 1no. SFE Door / Ironmong in bet. Gal. BOH & Aud.	2	30-Jul-19	31-Jul-19	09-Dec-19	10-Dec-19	-110	100%	0%													
<b>BoH Rooms, Corridors &amp; Lobbies_Non-RF Areas - POD_L2_Z03c</b>																						
8605	POD_L2_Z03c_BoH - MEP 1st fix	6	21-Mar-19	17-May-19	23-Apr-19 A	07-Nov-19	-144	100%	77%													
8606	POD_L2_Z03c_BoH - MEP 2nd fix	12	20-May-19	17-Jun-19	23-Jul-19 A	14-Nov-19	-125	100%	61%													
8608	POD_L2_Z03c_BoH - Wall paint	9	18-Jun-19	27-Jun-19	15-Nov-19	25-Nov-19	-125	100%	0%													
8611	POD_L2_Z03c_BoH - Wall final paint	9	28-Jun-19	09-Jul-19	26-Nov-19	05-Dec-19	-125	100%	0%													
8613	POD_L2_Z03c_BoH - MEP final fix	12	19-Jul-19	01-Aug-19	06-Dec-19	19-Dec-19	-117	100%	0%													
8610	POD_L2_Z03c_BoH - Floor sealer	3	02-Aug-19	05-Aug-19	20-Dec-19	23-Dec-19	-117	100%	0%													
8609	POD_L2_Z03c_BoH - Doors/ 4nos. SR3 Doors & Ironmong	6	06-Aug-19	12-Aug-19	24-Dec-19	31-Dec-19	-117	100%	0%													
<b>Galleries &amp; Gallery Circ, Gallery BOH, BOH Rms, Lobbies &amp; Corridors, Toilets - POD_L2_Z04</b>																						
8651	POD_L2_Z04b/c/d_BoH - All Other Finishes / Make Good & Clean	18	17-Sep-19	09-Oct-19	20-Dec-19	11-Jan-20	-79	100%	0%													
8706	POD_L2_Z04e_BoH - All Other Finishes / Make Good & Clean	12	28-Nov-19	11-Dec-19	30-May-20	12-Jun-20	-147	0%	0%													
8630	POD_L2_Z04a_FoH - All Other Finishes / Make Good & Clean	30	26-Mar-20	22-May-20	19-Jun-20	25-Jul-20	-53	0%	0%													
<b>Gallery 7 to 10, Study Area, Other Galleries and Gallery Circ. - POD_L2_Z04a</b>																						
8631	POD_L2_Z04a_FoH - MEP 1st Fix	4	20-May-19	09-Jul-19	05-Mar-19 A	05-Nov-19	-99	100%	85%													
8632	POD_L2_Z04a_FoH - MEP 2nd Fix (*2 shifts)	12	23-Jul-19	13-Aug-19	16-May-19 A	15-Nov-19	-78	100%	60%													
8636	POD_L2_Z04a_FoH - Dry Wall MEP Services/Conduits MEP 1st fix	6	21-May-19	18-Jun-19	18-Jun-19	04-Jun-19 A	07-Nov-19	-118	100%	90%												
8645	POD_L2_Z04a_FoH - Ceiling grids (*2 shifts)	6	09-Jul-19	23-Jul-19	15-Jul-19 A	08-Nov-19	-90	100%	65%													
8641	POD_L2_Z04a_FoH - Underfloor MEP 1st Fix (*2 shifts)	21	16-Aug-19	23-Sep-19	05-Sep-19 A	27-Nov-19	-54	100%	55%													
9642	POD_L2_Z04a_FoH - Underfloor MEP 2nd Fix	28	24-Sep-19	23-Oct-19	14-Oct-19 A	05-Dec-19	-36	100%	20%													
8644a	POD_L2_Z04a_FoH - Ceiling finishes (board)	12			17-Oct-19 A	22-Nov-19		0%	75%													
8640	POD_L2_Z04a_FoH - Raised floor pedestal (*2 shifts)	18	02-Aug-19	30-Aug-19	04-Nov-19*	23-Nov-19	-70	100%	0%													
8642	POD_L2_Z04a_FoH - Raised floor panels incl. cut-outs	15	14-Oct-19	30-Oct-19	28-Nov-19	14-Dec-19	-39	100%	0%													
8637	POD_L2_Z04a_FoH - MEP Final Fix	21	24-Oct-19	20-Nov-19	02-Dec-19	26-Dec-19	-30	29.17%	0%													
9688	POD_L2_Z04a_FoH - 3nos. SR3 O'S Doors / Ironmong	6	24-Oct-19	30-Oct-19	09-Dec-19	14-Dec-19	-39	100%	0%													
8638	POD_L2_Z04a_FoH - Close Dry Wall / Board	22	18-Dec-19	14-Jan-20	16-Dec-19	11-Jan-20	2	0%	0%													
8634a	POD_L2_Z04a_FoH - Floor finishes (resilient layer, ply base)	14			27-Dec-19	13-Jan-20		0%	0%													
8629	POD_L2_Z04a_FoH - Door / Ironmong	6	16-Apr-20	22-Apr-20	03-Feb-20*	08-Feb-20	62	0%	0%													
9687	POD_L2_Z04a_FoH - Install Roller Blinds	12	17-Feb-20	29-Feb-20	05-Mar-20	18-Mar-20	-15	0%	0%													
8644	POD_L2_Z04a_FoH - Ceiling finishes (insulation, ac. plaster, fabric, Timber at Circ/F	28	12-Dec-19	06-Feb-20	25-May-20	26-Jun-20	-118	0%														



ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020														
										Qtr 4			Qtr 1			Qtr 2			Qtr 3					
										Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep			
8702	POD_L2_Z04e_FoH Toilet Lob - MEP final fix	6	21-Nov-19	27-Nov-19	26-Nov-19	02-Dec-19	-4	0%	0%															
8711	POD_L2_Z04e_FoH Toilet Lob - Raised floor panels incl. cut-outs	3	27-Jul-19	30-Jul-19	26-Nov-19	28-Nov-19	-101	100%	0%															
8703a	POD_L2_Z04e_FoH Toilet Lob - Floor finishes (resilient layer, plywood base)	4			03-Dec-19	06-Dec-19		0%	0%															
8701	POD_L2_Z04e_FoH Toilet Lob - Ceiling finishes (Timber)	3	18-Nov-19	20-Nov-19	25-May-20	27-May-20	-151	0%	0%															
8707	POD_L2_Z04e_FoH Toilet Lob - Wall Finishes (Timber)	4	21-Nov-19	27-Nov-19	28-May-20	01-Jun-20	-149	0%	0%															
8703	POD_L2_Z04e_FoH Toilet Lob - Floor finishes (Timber)	4	28-Nov-19	04-Dec-19	02-Jun-20	05-Jun-20	-147	0%	0%															
<b>Plaza</b>																								
<b>Plaza - POD_L2_Z05 (S25)</b>																								
8715	POD_L2_Z05_Plaza - MEP 1st fix	12	08-Jul-19	17-Sep-19	08-Apr-19 A	16-Nov-19	-51	100%	91%															
8714	POD_L2_Z05_Plaza - Ceiling & wall sealer (above dry wall - 1.95m below soffit)	3	18-Jun-19	03-Jul-19	06-Jun-19 A	04-Nov-19	-103	100%	90%															
8794	POD_L2_Z05_Plaza - MEP 2nd fix	18	17-Sep-19	24-Oct-19	10-Jun-19 A	23-Nov-19	-27	100%	90%															
8718	POD_L2_Z05_Plaza - MEP final fix	32	24-Oct-19	14-Nov-19	15-Jul-19 A	16-Dec-19	-28	36.42%	25%															
8720	POD_L2_Z05_Plaza - Floor screeding	12	25-Jun-19	11-Jul-19	14-Oct-19 A	14-Nov-19	-105	100%	20%															
9739	POD_L2_Z05_Plaza - Dry Wall Frame	9	04-Jul-19	22-Jul-19	21-Oct-19 A	11-Nov-19	-93	100%	35%															
9740	POD_L2_Z05_Plaza - Dry Wall MEP Services/Conduits MEP 1st fix	14	23-Jul-19	12-Aug-19	04-Nov-19*	19-Nov-19	-82	100%	0%															
8722	POD_L2_Z05_Plaza - Brackets/Hangers/Smoke Curtain Channels Setting Out & In	10	05-Aug-19	19-Aug-19	05-Nov-19	15-Nov-19	-74	100%	0%															
9741	POD_L2_Z05_Plaza - Close Dry Wall	12	13-Aug-19	26-Aug-19	09-Nov-19	22-Nov-19	-73	100%	0%															
8719	POD_L2_Z05_Plaza - Install Smoke Curtain box	21	24-Sep-19	24-Oct-19	19-Nov-19	12-Dec-19	-43	100%	0%															
9742	POD_L2_Z05_Plaza - Wall finishes (paint on dry wall)	12	27-Aug-19	12-Sep-19	23-Nov-19	06-Dec-19	-70	100%	0%															
9542	POD_L2_Z05_Plaza - Install Metal Balustrade	18	24-Oct-19	14-Nov-19	26-Nov-19	16-Dec-19	-28	36.42%	0%															
8716a	POD_L2_Z05_Plaza - Floor finishes (resilient layer, plywood backing)	24			17-Dec-19	15-Jan-20		0%	0%															
8716	POD_L2_Z05_Plaza - Floor finishes (Timber)	48	18-Nov-19	09-Jan-20	01-Jun-20	28-Jul-20	-161	0%	0%															
8717	POD_L2_Z05_Plaza - All Other Finishes / Make Good & Clean	18	30-Dec-19	20-Jan-20	22-Jul-20	11-Aug-20	-164	0%	0%															
<b>Plaza Mezzanine Level BoH Corridor - POD_L2M_Z05a</b>																								
9648	POD_L2M_Z05a_BoH - Brackets/Hangers for HL MEP Services MEP 1st fix	6	10-May-19	16-May-19	13-May-19 A	07-Nov-19	-145	100%	87%															
9649	POD_L2M_Z05a_BoH - HL MEP 1st, 2nd & Final Fix (Ducts, FSPipe, Drainage-no	12	17-May-19	28-Jun-19	20-May-19 A	14-Nov-19	-115	100%	82%															
9650	POD_L2M_Z05a_BoH - LL MEP 1st, 2nd & Final Fix (Ducts, FSPipe, Drainage-no	18	29-Jun-19	10-Aug-19	24-Jun-19 A	25-Nov-19	-88	100%	80%															
<b>Level L3</b>																								
<b>ABWF Works &amp; MEP Works</b>																								
<b>FoH &amp; BoH Areas @ Tower Footprint - POD_L3_Z01a, L3_Z01b &amp; L3_Z01c</b>																								
8332	POD_L3_Z01a_d_FoH - All Other Finishes (floor mat) / Make Good & Clean	12	08-Nov-19	22-Nov-19	05-May-20	18-May-20	-142	0%	0%															
8363	POD_L3_Z01b & Z01c_BoH - All Other Finishes / Make Good & Clean	12	02-Aug-19	15-Aug-19	10-Jan-20	23-Jan-20	-133	100%	0%															
8280	POD_L3_Z01d_FoH Toilet Lob - All Other Finishes / Make Good & Clean	12	27-Sep-19	14-Oct-19	11-Apr-20	24-Apr-20	-157	100%	0%															
<b>FoH - Museum Cafe 2 &amp; Warming Kitchen and BOH @ Tower Footprint - POD_L3_Z01a</b>																								
8321	POD_L3_Z01a_FoH - MEP 1st fix	21	08-Jun-19	05-Aug-19	02-May-19 A	25-Nov-19	-94	100%	25%															
8314	POD_L3_Z01a_FoH - Wproof/test, screed	8	29-May-19	08-Jun-19	13-Nov-19	21-Nov-19	-139	100%	0%															
8795	POD_L3_Z01a_FoH - MEP 2nd fix	24	05-Aug-19	02-Sep-19	26-Nov-19	23-Dec-19	-94	100%	0%															
9060	POD_L3_Z01a_FoH - Install fire shutter	6	26-Aug-19	02-Sep-19	17-Dec-19	23-Dec-19	-94	100%	0%															
8322	POD_L3_Z01a_FoH - MEP final fix	12	02-Sep-19	17-Sep-19	24-Dec-19	08-Jan-20	-94	100%	0%															
8757	POD_L3_Z01a_FoH - Full height internal glazing	12	17-Sep-19	02-Oct-19	09-Jan-20	22-Jan-20	-94	100%	0%															
8323	POD_L3_Z01a_FoH - Floor sealer @ Museum Cafe 2 & BOH	5	02-Oct-19	09-Oct-19	23-Jan-20	05-Feb-20	-94	100%	0%															
8319	POD_L3_Z01a_FoH - Door / Ironmong	2	09-Oct-19	11-Oct-19	06-Feb-20	07-Feb-20	-94	100%	0%															
<b>BoH Plantrooms, Corridors &amp; Lobbies @ Tower Footprint - POD_L3_Z01b &amp; L3_Z01c</b>																								
8355	POD_L3_Z01b & L3_Z01c_BoH - MEP 1st fix	19	19-Apr-19	31-May-19	01-Aug-19 A	22-Nov-19	-145	100%	35%															
8357	POD_L3_Z01b & L3_Z01c_BoH - MEP 2nd fix	33	05-Jun-19	26-Jun-19	19-Aug-19 A	10-Dec-19	-139	100%	10%															
8354	POD_L3_Z01b & L3_Z01c_BoH - Ceiling rods	3	16-Apr-19	18-Apr-19	04-Nov-19*	06-Nov-19	-167	100%	0%															
8356	POD_L3_Z01b & L3_Z01c_BoH - Ceiling grids	3	01-Jun-19	04-Jun-19	23-Nov-19	26-Nov-19	-145	100%	0%															
8358	POD_L3_Z01b & L3_Z01c_BoH - Ceiling finishes (boards + paint)	6	27-Jun-19	04-Jul-19	11-Dec-19	17-Dec-19	-139	100%	0%															
8359	POD_L3_Z01b & L3_Z01c_BoH - Wall finishes (paint)	6	05-Jul-19	11-Jul-19	18-Dec-19	24-Dec-19	-139	100%	0%															
8360	POD_L3_Z01b & L3_Z01c_BoH - MEP final fix	9	19-Jul-19	29-Jul-19	26-Dec-19	06-Jan-20	-133	100%	0%															
8361	POD_L3_Z01b & L3_Z01c_BoH - Floor sealer	3	30-Jul-19	01-Aug-19	07-Jan-20	09-Jan-20	-133	100%	0%															
8362	POD_L3_Z01b & L3_Z01c_BoH - Doors & Ironmong	6	02-Aug-19	08-Aug-19	10-Jan-20	16-Jan-20	-133	100%	0%															
<b>FoH Corridor &amp; Concourse @ Tower Footprint - POD_L3_Z01d</b>																								
8796	POD_L3_Z01d_FoH - MEP 1st fix	12	17-Jun-19	12-Aug-19	17-Jul-19 A	16-Nov-19	-80	100%	20%															
8328	POD_L3_Z01d_FoH - MEP 2nd fix	30	02-Sep-19	02-Oct-19	12-Aug-19 A	19-Dec-19	-67	100%	10%															
9755	POD_L3_Z01d_FoH - Dry Wall Frame	4	16-Apr-19	19-Apr-19	04-Nov-19*	07-Nov-19	-167	100%	0%															
8327	POD_L3_Z01d_FoH - Ceiling rods	4	16-Apr-19	19-Apr-19	06-Nov-19	09-Nov-19	-169	100%	0%															
9756	POD_L3_Z01d_FoH - Dry Wall MEP Services/Conduits MEP 1st fix	18	20-Apr-19	11-May-19	08-Nov-19	28-Nov-19	-167	100%	0%															
9757	POD_L3_Z01d_FoH - Close Dry Wall	2	13-May-19	14-May-19	29-Nov-19	30-Nov-19	-167	100%	0%															
9758	POD_L3_Z01d_FoH - Wall finishes (paint on dry wall)	4	15-May-19	18-May-19	02-Dec-19	05-Dec-19	-167	100%	0%															
8333	POD_L3_Z01d_FoH - MEP final fix	9	18-Oct-19	29-Oct-19	20-Dec-19	31-Dec-19	-54	100%	0%															
8330	POD_L3_Z01d_FoH - Doors & Ironmong	2	13-Nov-19	15-Nov-19	03-Feb-20*	04-Feb-20	-61	0%	0%															
8329	POD_L3_Z01d_FoH - Ceiling finishes (bamboo slats)	13	02-Oct-19	18-Oct-19	10-Apr-20	24-Apr-20	-153	100%	0%															
8331	POD_L3_Z01d_FoH - Floor finishes (concrete pavers)	13	29-Oct-19	13-Nov-19	25-Apr-20	11-May-20	-144	19.66%	0%															
<b>FoH Toilets - Cafe Toilets @ Tower Footprint - POD_L3_Z01d</b>																								
<b>Toilet Block</b>																								
8267	POD_L3_Z01d_FoH Toilet - MEP 1st fix Ceiling	21	13-May-19	05-Jun-19	08-Aug-19 A	25-Nov-19	-143	100%	5%															
8282	POD_L3_Z01d_FoH Toilet - Conc flr curing, polishing & install protection	69	26-Jul-19	05-Sep-19	25-Oct-19 A	22-Jan-20	-114	100%	50%															
8265	POD_L3_Z01d_FoH Toilet - MEP 1st fix Block Wall	8	04-May-19	13-May-19	04-Nov-19*	12-Nov-19	-152	100%	0%															
8268	POD_L3_Z01d_FoH Toilet - Dry Wall Frame & Board (one side)	5	08-May-19	13-May-19	09-Nov-19	14-Nov-19	-154	100%	0%															
8256	POD_L3_Z01d_FoH Toilet - Seal Wall Opening	3	14-May-19	16-May-19	13-Nov-19	15-Nov-19	-152	100%	0%															
8269	POD_L3_Z01d_FoH Toilet - Dry Wall MEP Services/Conduits (MEP 1st fix)	12	11-May-19	24-May-19	13-Nov-19	26-Nov-19	-154	100%	0%															
8258	POD_L3_Z01d_FoH Toilet - Door Frame	2	06-Jun-19	08-Jun-19	26-Nov-19	27-Nov-19	-143	100%	0%															
8270	POD_L3_Z01d_FoH Toilet - Close Dry Wall	3	25-May-19																					



ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020												
										2019			Qtr 1			Qtr 2			Qtr 3			
										Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
9713	POD_L3_Z02_Lift Vest. - MEP 1st fix	18	17-Aug-19	23-Aug-19	15-Jul-19 A	21-Nov-19	-74	100%	9%													
9715	POD_L3_Z02_Lift Vest. - MEP 2nd fix	6	24-Aug-19	30-Aug-19	22-Nov-19	28-Nov-19	-74	100%	0%													
9716	POD_L3_Z02_Lift Vest. - MEP final fix MEP Final fix	3	31-Aug-19	03-Sep-19	29-Nov-19	02-Dec-19	-74	100%	0%													
9711	POD_L3_Z02_Lift Vest. - Floor concrete pavers & tactiles to Roof Terrace Toilet Lot	3	04-Sep-19	06-Sep-19	03-Dec-19	05-Dec-19	-74	100%	0%													
9714	POD_L3_Z02_Lift Vest. - Glass partition @ Lift Openings (2 sides)	6	07-Sep-19	13-Sep-19	06-Dec-19	12-Dec-19	-74	100%	0%													
<b>Level 3 Hard &amp; Soft Landscaping</b>																						
<b>General</b>																						
14238g	POD_LAN - Architectural Lightings Installation (EX5A/5B/6)	12	17-Feb-20	29-Feb-20	14-May-20	27-May-20	-73	0%	0%													
9061	POD_LAN_ALL - Install balustrades along perimeter/Benches	60	19-Aug-19	31-Oct-19	29-Nov-19	17-Feb-20	-85	100%	0%													
9063	POD_LAN_ALL - Hard landscape	45	12-Dec-19	13-Feb-20	12-Feb-20	03-Apr-20	-44	0%	0%													
<b>North Section AM/1-6.5</b>																						
9048	POD_LAN_N - AM/1-6.5 Levelling screed/ W/proof & testing	18	03-May-19	03-Aug-19	18-Mar-19 A	21-Nov-19	-91	100%	90%													
9049	POD_LAN_N - AM/1-6.5 Lay insulation & screed to fall	30	15-Jun-19	17-Aug-19	21-May-19 A	05-Dec-19	-91	100%	80%													
9050	POD_LAN_N - AM/1-6.5 Construct RC screed	42	22-Jun-19	16-Sep-19	03-Jun-19 A	19-Dec-19	-79	100%	60%													
9051	POD_LAN_N - AM/1-6.5 Construct sleeper wall + ducts & drawpits	36	22-Jul-19	30-Sep-19	10-Jul-19 A	12-Dec-19	-61	100%	50%													
9071	POD_LAN_N - AM/1-6.5 MEP 1st & 2nd fix	48	02-Sep-19	09-Oct-19	01-Nov-19	27-Dec-19	-67	100%	0%													
9052	POD_LAN_N - AM/1-6.5 Install precast concrete pavers	72	02-Sep-19	27-Nov-19	02-Nov-19*	04-Feb-20	-50	68.06%	0%													
9072	POD_LAN_N - AM/1-6.5 MEP final fix (FS hose reel system)	12	17-Sep-19	30-Sep-19	16-Nov-19	29-Nov-19	-50	100%	0%													
9053	POD_LAN_N - AM/1-6.5 Soft landscaping	52	28-Nov-19	06-Feb-20	05-Feb-20	06-Apr-20	-50	0%	0%													
9075	POD_LAN_N - AM/1-6.5 MEP final fix (rem)	12	28-Nov-19	11-Dec-19	05-Feb-20	18-Feb-20	-50	0%	0%													
<b>South Section AM/8.5-14</b>																						
7039	POD_LAN_S - AM/8.5-14 Levelling screed/W/proofing & testing (*linked to PISA sto	18	07-May-19	08-Aug-19	18-Mar-19 A	28-Nov-19	-94	100%	85%													
7041	POD_LAN_S - AM/8.5-14 Lay insulation & screed to fall	24	19-Jun-19	22-Aug-19	05-Jul-19 A	03-Dec-19	-86	100%	80%													
7042	POD_LAN_S - AM/8.5-14 Construct RC screed	30	26-Jun-19	20-Sep-19	15-Jul-19 A	10-Dec-19	-68	100%	65%													
7043	POD_LAN_S - AM/8.5-14 Construct sleeper wall + ducts & drawpits	42	25-Jul-19	05-Oct-19	04-Sep-19 A	24-Dec-19	-68	100%	30%													
7125	POD_LAN_S - AM/8.5-14 MEP 1st & 2nd fix	45	05-Sep-19	14-Oct-19	06-Nov-19	28-Dec-19	-65	100%	0%													
7057	POD_LAN_S - AM/8.5-14 Pp/cast pavers & Interface with Escalator localised area (	72	05-Sep-19	02-Dec-19	09-Nov-19	11-Feb-20	-53	63.27%	0%													
7130	POD_LAN_S - AM/8.5-14 MEP final fix (FS hose reel system)	12	20-Sep-19	05-Oct-19	23-Nov-19	06-Dec-19	-53	100%	0%													
7187	POD_LAN_S - AM/8.5-14 MEP final fix (rem)	12	02-Dec-19	16-Dec-19	05-Feb-20	18-Feb-20	-47	0%	0%													
7111	POD_LAN_S - AM/8.5-14 Soft landscaping	52	02-Dec-19	11-Feb-20	12-Feb-20	13-Apr-20	-53	0%	0%													
<b>Middle Section - AM/6.5-8.5</b>																						
9054	POD_LAN_M - AM/6.5-8.5 Levelling screed/ W/proof & testing	20	02-Sep-19	02-Oct-19	24-Oct-19 A	23-Nov-19	-45	100%	15%													
9055	POD_LAN_M - AM/6.5-8.5 Lay insulation & screed to fall	18	24-Sep-19	17-Oct-19	18-Nov-19	07-Dec-19	-45	100%	0%													
9056	POD_LAN_M - AM/6.5-8.5 Construct RC screed	24	17-Oct-19	14-Nov-19	25-Nov-19	21-Dec-19	-33	52.31%	0%													
9057	POD_LAN_M - AM/6.5-8.5 Construct sleeper wall + ducts & drawpits	24	31-Oct-19	28-Nov-19	09-Dec-19	07-Jan-20	-33	2.31%	0%													
9058	POD_LAN_M - AM/6.5-8.5 Install precast concrete pavers	12	28-Nov-19	12-Dec-19	31-Dec-19	14-Jan-20	-27	0%	0%													
9066	POD_LAN_M - AM/6.5-8.5 MEP 1st & 2nd fix (no FSD services)	12	12-Dec-19	27-Dec-19	15-Jan-20	05-Feb-20	-27	0%	0%													
9074	POD_LAN_M - AM/6.5-8.5 MEP final fix (no FSD)	12	27-Dec-19	11-Jan-20	06-Feb-20	19-Feb-20	-27	0%	0%													
9059	POD_LAN_M - AM/6.5-8.5 Soft landscaping	24	11-Jan-20	17-Feb-20	20-Feb-20	18-Mar-20	-27	0%	0%													
<b>EWS (External Wall System)</b>																						
<b>Skylight, Glazing, Internal Glass Walls &amp; Cladding</b>																						
<b>B1/F - Southern Perimeter Glass Wall</b>																						
<b>Installation</b>																						
7189	POD_B1_GW - G+M/13+ Pisa Glass M_Shop 2/M_Image (B1_Z09b) (Pisa 08-04; C	36	27-Jun-19	25-Jul-19	14-Oct-19 A	19-Dec-19	-123	100%	9%													
7191a	POD_B1_GW - E+G/3+ Pisa Glass (North Entrance) (Pisa: 08-05) - Oct_UPD: F 5I	6			29-Nov-19	05-Dec-19		0%	0%													
6895	POD_B1_GW - Pisa Inner Glass Museum Caffe (B1_Z08) (Pisa 08-02) Oct_UPD: F	9	04-May-19	15-Jun-19	05-Dec-19	14-Dec-19	-152	100%	0%													
6895a	POD_B1_GW - Pisa Outer Glass Museum Caffe (B1_Z08) (Pisa 08-02) Oct_UPD: I	15			11-Dec-19	28-Dec-19		0%	0%													
7191	POD_B1_GW - E+G/12+ Pisa Glass (South Entrance)	6	22-Aug-19	11-Sep-19	13-Dec-19	19-Dec-19	-82	100%	0%													
<b>GF to 1M/F Soffit - Glass Walls, Columns &amp; Walls Ceramic Cladding</b>																						
1778	POD_GFZ07 - Walls Chipping (legacy out of tolerance issues)	12			01-Jul-19 A	14-Nov-19		0%	69.95%													
<b>Priority 1 - Atrium/Circ_Box &amp; Cer_Tubes (MEP Plenum Voids)</b>																						
<b>Installation</b>																						
8599	POD_GF_Z07_P1 - Pisa Install 1st Fix (shared access with MEP)	18	16-Apr-19	16-May-19	13-May-19 A	21-Nov-19	-157	100%	81.39%													
1001	POD_GF_Z07_P1 - G-M/8-13 Pisa Glass & Tube Walls (16Oct)	24	08-Jul-19	17-Aug-19	19-Aug-19 A	28-Nov-19	-85	100%	32.98%													
8596	POD_GF_Z07_P1 - B-G/8-13 Pisa Balance Glass & Tube Walls (19Oct)	24	08-Jun-19	20-Jul-19	16-Sep-19 A	28-Nov-19	-109	100%	28.04%													
8935	POD_GF_Z07_P1 - AE/9-11 Pisa Install Ceramic Tube Learning Centre (21 Sep) O	24	29-Jul-19	07-Sep-19	07-Oct-19 A	10-Dec-19	-77	100%	47.98%													
8946	POD_GF_Z07_P1 - AM/1-7 Pisa Glass & Tube Walls (19Oct)	24	17-May-19	28-Jun-19	26-Oct-19 A	28-Nov-19	-127	100%	32%													
8335	POD_GF_Z07_P1 - B-G/8-13 Pisa Lecture Theatre/Wshops Install Glass (9Oct) Oc	21	06-Aug-19	17-Sep-19	18-Nov-19	11-Dec-19	-71	100%	0%													
<b>Priority 2 - External Glass; Cer_Tubes (MEP Jet Nozzles)</b>																						
<b>Installation</b>																						
9874	POD_GF_Z07_P2 - Pisa (all P2 areas) - Install 1st Fix (shared access with MEP)	21	08-May-19	06-Jun-19	15-Jun-19 A	25-Nov-19	-142	100%	44.06%													
8558	POD_GF_Z07_P2 - Pisa (all P2 areas) - Install Ceramic Tube Wall (26Nov)	24	29-Jun-19	10-Aug-19	16-Sep-19 A	28-Nov-19	-91	100%	11.31%													
8945	POD_GF_Z07_P2 - GM/8-13 Pisa - Install Glass Wall (26Nov) OctUPD: EF 10Dec	21	08-Jun-19	20-Jul-19	13-Nov-19	06-Dec-19	-116	100%	0%													
10111	POD_GF_Z07_P2 - BG/8-13 Pisa - Install Glass Wall (LC area) (18Nov) OctUPD: EI	21			14-Nov-19	07-Dec-19		0%	0%													
10109	POD_GF_Z07_P2 - AM/1-7 Pisa - Install Windows (3 off) (4Nov) OctUPD: EF 10Dec	19			15-Nov-19	06-Dec-19		0%	0%													
<b>Priority 3 - Decorative Walls &amp; Dry Fix</b>																						
<b>Installation</b>																						
9875	POD_GF_Z07_P3 - Pisa - Install 1st Fix (shared access with MEP)	21	08-Jun-19	06-Jul-19	15-Jun-19 A	25-Nov-19	-118	100%	61.26%													
9884	POD_GF_Z07_P3 - AM/1-7 Pisa - Ext. & Decorative Walls (5Dec) OctYPD: EF 1 Dec	26	30-Apr-19	13-Jun-19	01-Aug-19 A	30-Nov-19	-143	100%	75%													
9885	POD_GF_Z07_P3 - GM/8-13 Pisa - Ext. & Decorative Walls (2Dec) OctUPD: EF 30I	50	23-Apr-19	05-Jun-19	23-Sep-19 A	30-Dec-19	-173	100%	26%													
9886	POD_GF_Z07_P3 - BG/8-13 Pisa - Ext. & Decorative Walls (30Nov) OctUPD: EF 30N	25	18-May-19	29-Jun-19	02-Nov-19	30-Nov-19	-128	100%	0%													
<b>2/F - Glass With Pre-cast Concrete Mullions</b>																						
8603	POD_L2_Z04a_GW - BF/11-13 Pisa Install East GW	12	03-Jul-19	30-Jul-19	01-Oct-19 A	14-Nov-19	-89	100%	19.94%													
8953	POD_L2_Z04a_GW - BF/11-13 Pisa Install West GW	12	14-Aug-19	10-Sep-19	01-Oct-19 A	14-Nov-19	-53	100%	19.94%													
<b>L3 Skylight, Strip Glazing, Storefront, Garden Gallery</b>																						
8102	POD_EWS_L3 - M+ Install Tower Shop Front Glazing	30	31-May-19	02-Sep-19	27-May-19 A	05-Dec-19	-79	100%	83%													
8134	POD_EWS_L3_Z02 - Garden Gallery Wall Cladding - Balance	18	22-Mar-19	10-Jun-19	16-Apr-19 A	21-Nov-19	-137	100%	78.99%													
<b>Corrugated Aluminium Perf. Panels &amp; Pre-Cast Concrete Tubes</b>																						
1228	POD_GF - Set Out/Frame/On-Site Fab/Lvr/Doors (MC)/Pnlis - Type A Angle 186-End	60	16-Aug-19	04-Nov-19	27-Jul-19 A	11-Jan-20	-57	95.45%	39.99%													
1229	POD_GF - Set Out/Frame/On-Site Fab/Lvr/Doors (MC)/Pnlis - Type B Cway GL_A-G	60	28-Jun-19	13-Sep-19	09-Sep-19 A	11-Jan-20	-98	100%	69.98%													
1225	POD_GF - Set Out/Frame/On-Site Fab/Lvr/Doors (MC)/Pnlis - Type C GL_1-H	30	10-Apr-19	22-May-19	21-Oct-19 A	05-Dec-19	-164	100%	48.98%													
1226	POD_GF - Set Out/Frame/On-Site Fab/Lvr/Doors (MC)/Pnlis - Type C G_LH-F	30	23-May-19	27-Jun-19	21-Oct-19 A	05-Dec-19	-134	100%	4.87%													







ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020												
										Qtr 4			Qtr 1			Qtr 2			Qtr 3			
										Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
9267	POD_ST03 - Stair Nosing Tile	13	06-Jun-19	21-Jun-19	25-Nov-19	09-Dec-19	-142	100%	0%													
9262	POD_ST03 - Ceiling Dust Sealer	26	01-Apr-19	02-May-19	02-Dec-19	02-Jan-20	-203	100%	0%													
9266	POD_ST03 - Permanent Hand Rail	13	04-Jun-19	19-Jun-19	06-Dec-19	20-Dec-19	-154	100%	0%													
9268	POD_ST03 - All Other Finishes / Make Good & Clean	12	15-Jun-19	28-Jun-19	03-Jan-20	16-Jan-20	-167	100%	0%													
9345	POD_ST12-13 - MEP 1st fix, 2nd fix	18	16-Apr-19	28-May-19	24-Jun-19 A	21-Nov-19	-147	100%	70%													
9347	POD_ST12-13 - Permanent Hand Rail	13	04-Jun-19	19-Jun-19	16-Oct-19 A	15-Nov-19	-124	100%	70%													
9346	POD_ST12-13 - Wall Dust Sealer	26	13-May-19	12-Jun-19	06-Nov-19	05-Dec-19	-147	100%	0%													
9343	POD_ST12-13 - Ceiling Dust Sealer	26	01-Apr-19	02-May-19	22-Nov-19*	21-Dec-19	-195	100%	0%													
9349	POD_ST12-13 - All Other Finishes (DOOR) / Make Good & Clean	12	15-Jun-19	28-Jun-19	16-Dec-19	30-Dec-19	-153	100%	0%													
9272	POD_ST18 - MEP 1st fix, 2nd fix	20	16-Apr-19	28-May-19	19-Aug-19 A	23-Nov-19	-149	100%	80%													
9273	POD_ST18 - Wall Dust Sealer	26	13-May-19	12-Jun-19	15-Nov-19	14-Dec-19	-155	100%	0%													
9270	POD_ST18 - Ceiling Dust Sealer	26	01-Apr-19	02-May-19	25-Nov-19	24-Dec-19	-197	100%	0%													
9276	POD_ST18 - All Other Finishes / Make Good & Clean	12	15-Jun-19	28-Jun-19	18-Dec-19	02-Jan-20	-155	100%	0%													
9356	POD_ST15 - MEP 1st fix, 2nd fix	22	20-May-19	02-Jul-19	28-May-19 A	26-Nov-19	-123	100%	75%													
9354	POD_ST15 - Ceiling Dust Sealer	26	06-May-19	04-Jun-19	01-Nov-19*	30-Nov-19	-149	100%	0%													
9357	POD_ST15 - Wall Dust Sealer	26	15-Jun-19	16-Jul-19	11-Nov-19	10-Dec-19	-123	100%	0%													
9360	POD_ST15 - All Other Finishes (DOOR) / Make Good & Clean	12	19-Jul-19	01-Aug-19	04-Dec-19	17-Dec-19	-115	100%	0%													
9366	POD_ST08 - MEP 1st fix, 2nd fix	22	15-Jun-19	27-Jul-19	24-Apr-19 A	26-Nov-19	-101	100%	70%													
9365	POD_ST08 - Floor Wproof Screed	18	08-Jun-19	09-Jul-19	15-Jul-19 A	21-Nov-19	-113	100%	33.33%													
9369	POD_ST08 - Stair Nosing Tile	20	06-Aug-19	20-Aug-19	02-Sep-19	23-Nov-19	-79	100%	33.37%													
9364	POD_ST08 - Ceiling Dust Sealer	26	31-May-19	02-Jul-19	04-Dec-19	04-Jan-20	-155	100%	0%													
9367	POD_ST08 - Wall Dust Sealer	26	12-Jul-19	10-Aug-19	04-Dec-19	04-Jan-20	-121	100%	0%													
9370	POD_ST08 - All Other Finishes / Make Good & Clean	12	14-Aug-19	27-Aug-19	06-Jan-20	18-Jan-20	-119	100%	0%													
9393	POD_ST02 - MEP 1st fix, 2nd fix	20	20-May-19	02-Jul-19	01-Apr-19 A	23-Nov-19	-121	100%	57.5%													
9392	POD_ST02 - Floor Wproof Screed	22	13-May-19	12-Jun-19	15-Jul-19	26-Nov-19	-139	100%	20%													
9396	POD_ST02 - Stair Nosing Tile	13	11-Jul-19	25-Jul-19	15-Nov-19	29-Nov-19	-106	100%	0%													
9391	POD_ST02 - Ceiling Dust Sealer	26	06-May-19	04-Jun-19	27-Nov-19	27-Dec-19	-171	100%	0%													
9394	POD_ST02 - Wall Dust Sealer	26	15-Jun-19	16-Jul-19	27-Nov-19	27-Dec-19	-137	100%	0%													
9395	POD_ST02 - Permanent Hand Rail	13	09-Jul-19	23-Jul-19	06-Dec-19	20-Dec-19	-126	100%	0%													
9397	POD_ST02 - All Other Finishes (DOOR) / Make Good & Clean	12	19-Jul-19	01-Aug-19	28-Dec-19	11-Jan-20	-135	100%	0%													
9401	POD_ST14 - Ceiling Dust Sealer	26	01-Apr-19	02-May-19	01-Nov-19*	30-Nov-19	-177	100%	0%													
9404	POD_ST14 - Wall Dust Sealer	26	13-May-19	12-Jun-19	01-Nov-19	30-Nov-19	-143	100%	0%													
9407	POD_ST14 - All Other Finishes (DOOR) / Make Good & Clean	12	15-Jun-19	28-Jun-19	25-Nov-19	07-Dec-19	-135	100%	0%													
9413	POD_ST04 - MEP 1st fix, 2nd fix	20	16-Apr-19	28-May-19	23-Apr-19 A	23-Nov-19	-149	100%	80%													
9417	POD_ST04 - All Other Finishes / Make Good & Clean	12	15-Jun-19	28-Jun-19	18-Nov-19	30-Nov-19	-129	100%	0%													
9421	POD_ST07 - MEP 1st fix, 2nd fix	26	20-May-19	02-Jul-19	23-Apr-19 A	30-Nov-19	-127	100%	88.7%													
9419	POD_ST07 - Ceiling Dust Sealer	26	06-May-19	04-Jun-19	02-Dec-19	02-Jan-20	-175	100%	0%													
9422	POD_ST07 - Wall Dust Sealer	26	15-Jun-19	16-Jul-19	02-Dec-19	02-Jan-20	-141	100%	0%													
9425	POD_ST07 - All Other Finishes / Make Good & Clean	12	19-Jul-19	01-Aug-19	26-Dec-19	09-Jan-20	-133	100%	0%													
9430	POD_ST06 - MEP 1st fix, 2nd fix	32	16-Apr-19	28-May-19	29-Apr-19 A	07-Dec-19	-161	100%	70%													
9428	POD_ST06 - Ceiling Dust Sealer	26	01-Apr-19	02-May-19	15-Nov-19*	14-Dec-19	-189	100%	0%													
9431	POD_ST06 - Wall Dust Sealer	26	13-May-19	12-Jun-19	22-Nov-19	21-Dec-19	-161	100%	0%													
9434	POD_ST06 - All Other Finishes (DOOR) / Make Good & Clean	12	15-Jun-19	28-Jun-19	16-Dec-19	30-Dec-19	-153	100%	0%													
9438	POD_ST17 - MEP 1st fix, 2nd fix	20	20-May-19	02-Jul-19	19-Jun-19 A	23-Nov-19	-121	100%	80%													
9439	POD_ST17 - Wall Dust Sealer	26	15-Jun-19	16-Jul-19	08-Nov-19	07-Dec-19	-121	100%	0%													
9436	POD_ST17 - Ceiling Dust Sealer	26	06-May-19	04-Jun-19	29-Nov-19*	30-Dec-19	-173	100%	0%													
9442	POD_ST17 - All Other Finishes (DOOR) / Make Good & Clean	12	19-Jul-19	01-Aug-19	23-Dec-19	07-Jan-20	-131	100%	0%													
9444	POD_ST76 - Ceiling Dust Sealer	12	01-Apr-19	02-May-19	01-Nov-19*	14-Nov-19	-163	100%	0%													
9445	POD_ST76 - Floor Wproof Screed	26	09-Apr-19	09-May-19	08-Nov-19	07-Dec-19	-177	100%	0%													
9446	POD_ST76 - MEP 1st fix, 2nd fix	36	16-Apr-19	28-May-19	08-Nov-19	19-Dec-19	-171	100%	0%													
9447	POD_ST76 - Wall Dust Sealer	26	13-May-19	12-Jun-19	04-Dec-19	04-Jan-20	-171	100%	0%													
9448	POD_ST76 - Permanent Hand Rail	13	04-Jun-19	19-Jun-19	27-Dec-19	11-Jan-20	-171	100%	0%													
9449	POD_ST76 - Stair Nosing Tile	13	06-Jun-19	21-Jun-19	30-Dec-19	14-Jan-20	-171	100%	0%													
9450	POD_ST76 - All Other Finishes / Make Good & Clean	12	15-Jun-19	28-Jun-19	08-Jan-20	21-Jan-20	-171	100%	0%													
9596	POD_ST52B - Ceiling Dust Sealer	14	22-Jul-19	20-Aug-19	20-May-19 A	16-Nov-19	-73	100%	50%													
9598	POD_ST52B - MEP 1st fix, 2nd fix	12	05-Aug-19	16-Sep-19	09-Sep-19 A	14-Nov-19	-49	100%	92.5%													
9599	POD_ST52B - Wall Dust Sealer	26	30-Aug-19	30-Sep-19	15-Nov-19	14-Dec-19	-63	100%	0%													
9600	POD_ST52B - Permanent Hand Rail	13	23-Sep-19	09-Oct-19	07-Dec-19	21-Dec-19	-63	100%	0%													
9602	POD_ST52B - All Other Finishes / Make Good & Clean	12	04-Oct-19	18-Oct-19	16-Dec-19	30-Dec-19	-61	100%	0%													
9610	POD_ST22 - All Other Finishes (DOOR) / Make Good & Clean	64	21-Aug-19	03-Sep-19	22-Jul-19 A	16-Jan-20	-111	100%	5%													
9606	POD_ST22 - MEP 1st fix, 2nd fix	22	22-Jun-19	03-Aug-19	16-Sep-19 A	30-Nov-19	-99	100%	75%													
9604	POD_ST22 - Ceiling Dust Sealer	12	08-Jun-19	09-Jul-19	18-Nov-19*	30-Nov-19	-121	100%	0%													
9607	POD_ST22 - Wall Dust Sealer	26	19-Jul-19	17-Aug-19	02-Dec-19	02-Jan-20	-113	100%	0%													
9608	POD_ST22 - Permanent Hand Rail	13	10-Aug-19	24-Aug-19	24-Dec-19	09-Jan-20	-113	100%	0%													
10061	POD_ST78 - Ceiling Dust Sealer	12	13-Aug-19	11-Sep-19	04-Nov-19*	16-Nov-19	-54	100%	0%													
10063	POD_ST78 - MEP 1st fix, 2nd fix	36	27-Aug-19	10-Oct-19	11-Nov-19	21-Dec-19	-62	100%	0%													
10064	POD_ST78 - Wall Dust Sealer	26	23-Sep-19	24-Oct-19	11-Nov-19	10-Dec-19	-40	100%	0%													
10065	POD_ST78 - Permanent Hand Rail	13	17-Oct-19	31-Oct-19	11-Dec-19	26-Dec-19	-47	100%	0%													
10067	POD_ST78 - All Other Finishes / Make Good & Clean	12	28-Oct-19	09-Nov-19	19-Dec-19	03-Jan-20	-45	33.33%	0%													
10071	POD_ST79 - MEP 1st fix, 2nd fix	35	27-Aug-19	10-Oct-19	01-Nov-19	11-Dec-19	-53	100%	0%													
10073	POD_ST79 - Permanent Hand Rail	13	17-Oct-19	31-Oct-19	08-Nov-19	22-Nov-19	-19	100%	0%													
10069	POD_ST79 - Ceiling Dust Sealer	12	13-Aug-19	11-Sep-19	11-Nov-19	23-Nov-19	-60	100%	0%													
10072	POD_ST79 - Wall Dust Sealer	26	23-Sep-19	24-Oct-19	11-Nov-19	10-Dec-19	-40	100%	0%													
10075	POD_ST79 - All Other Finishes / Make Good & Clean	12	28-Oct-19	09-Nov-19	05-Dec-19	18-Dec-19	-33	33.33%	0%													
10079	POD_ST24 - MEP 1st fix, 2nd fix	35	03-May-19	14-Jun-19	01-Nov-19	11-Dec-19	-150	100%	0%													
10077	POD_ST24 - Ceiling Dust Sealer	26	18-Apr-19	18-May-19	18-Nov-19*	17-Dec-19	-177	100%	0%													



ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020														
										Qtr 4			Qtr 1			Qtr 2			Qtr 3					
										Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep			
3492	TW_L4_Z01_RF.Area - MEP 1st fix (rem works @ 10 Sep 2018) - Part 2	6	01-Jun-19	29-Jun-19	01-Apr-19 A	07-Nov-19	-108	100%	95%															
3493	TW_L4_Z01_RF.Area - MEP 2nd fix	12	12-Jul-19	01-Aug-19	15-Apr-19 A	14-Nov-19	-87	100%	95%															
3517	TW_L4_Z01_RF.Offices - Glass Partition & Doors/Ironmong	12	18-Oct-19	23-Oct-19	08-Jul-19 A	14-Nov-19	-19	100%	35%															
3497	TW_L4_Z01_RF.Area - Raised Floor Setting Out/Pedestals	18	19-Jul-19	13-Aug-19	10-Jul-19 A	21-Nov-19	-83	100%	85%															
3540	TW_L4_Z01_RF.Area - Close ceiling (Open Cell Metal) incl. Cut-Outs (excl. offices)	18	02-Aug-19	13-Aug-19	10-Jul-19 A	19-Dec-19	-107	100%	49.54%															
3498	TW_L4_Z01_RF.Area - Raised Floor MEP Containment/Wiring MEP 2nd fix	24	02-Aug-19	29-Aug-19	01-Aug-19 A	28-Nov-19	-75	100%	85%															
3499	TW_L4_Z01_RF.Area - Raised Floor Base Panels	30	22-Aug-19	05-Sep-19	05-Aug-19 A	05-Dec-19	-75	100%	85%															
3520	TW_L4_Z01_RF.Offices - Wall Painting	5	26-Sep-19	02-Oct-19	09-Sep-19 A	06-Nov-19	-29	100%	25%															
3495	TW_L4_Z01_RF.Area - MEP final fix (excl. offices)	36	07-Aug-19	20-Aug-19	16-Sep-19 A	12-Dec-19	-95	100%	80%															
3515	TW_L4_Z01_RF.Offices - MEP 2nd & final fix (offices)	20	12-Sep-19	26-Sep-19	16-Sep-19 A	23-Nov-19	-48	100%	80%															
11554d	*TW_L4_Z01_RF.Area - CAI-395 Novec Gaseous Fire Suspension Sys (change fr A	6			21-Oct-19 A	07-Nov-19			50%															
3514	TW_L4_Z01_RF.Offices - Close ceiling (Open Cell Metal) incl. Cut-Outs	12	26-Aug-19	10-Sep-19	25-Nov-19	07-Dec-19	-73	100%	0%															
3516	TW_L4_Z01_RF.Area - Final floor finishes (timber flooring)	21	20-Sep-19	16-Oct-19	02-May-20	26-May-20	-180	100%	0%															
3534	TW_L4_Z01_RF.Area - Bamboo Capping	6	17-Oct-19	23-Oct-19	27-May-20	02-Jun-20	-180	100%	0%															
3521	TW_L4_Z01_RF.Area - All Other Finishes / Make Good & Clean	12	17-Oct-19	30-Oct-19	27-May-20	09-Jun-20	-180	100%	0%															
10370	TW_L4_Z01_RE.Area - Sprinkler baffle plates and left out/ temp. panel fixing	6			04-Nov-19*	09-Nov-19			0%															
3545	TW_L4_Z01_RF.Offices - SR3 doors & ironmong	6	27-May-19	31-May-19	20-Jan-20*	03-Feb-20	-198	100%	0%															
<b>BoH Plant Rooms, Corridors &amp; Lift Lobbies - TW_L4_Z02</b>																								
3533	TW_L4_Z02_BoH - Dry Wall Frame & Board (one side)	11	23-Apr-19	02-May-19	23-Jan-19 A	13-Nov-19	-162	100%	70%															
3526	TW_L4_Z02_BoH - MEP 1st fix	11	02-Jul-19	05-Aug-19	04-Mar-19 A	13-Nov-19	-83	100%	95%															
3528	TW_L4_Z02_BoH - MEP 2nd fix	20	06-Aug-19	26-Aug-19	01-Apr-19 A	23-Nov-19	-74	100%	95%															
3538	TW_L4_Z02_BoH - Dry Wall MEP Services/Conduits MEP 1st fix	13	03-May-19	16-May-19	10-Jun-19 A	16-Nov-19	-153	100%	95%															
3541	TW_L4_Z02_BoH - Close Dry Wall	17	17-May-19	23-May-19	15-Jul-19 A	20-Nov-19	-150	100%	70%															
3527	TW_L4_Z02_BoH - Seal Wall Opening	17	06-Aug-19	12-Aug-19	02-Sep-19 A	20-Nov-19	-83	100%	80%															
3529	TW_L4_Z02_BoH - Door Frame & Plastering of Perimeter Edges	17	06-Aug-19	14-Aug-19	02-Sep-19 A	20-Nov-19	-81	100%	60%															
3537	TW_L4_Z02_BoH - Wall Epoxy/Emulsion Paint	23	27-Aug-19	12-Sep-19	09-Sep-19 A	27-Nov-19	-62	100%	25%															
3539	TW_L4_Z02_BoH - MEP final fix	23	27-Aug-19	02-Sep-19	16-Sep-19 A	27-Nov-19	-71	100%	20%															
3535	TW_L4_Z02_BoH - Floor sealer	24	12-Sep-19	13-Sep-19	23-Sep-19 A	28-Nov-19	-62	100%	50%															
3524	TW_L4_Z02_BoH - Misc Metal Works / Access Panels	23	13-Aug-19	19-Aug-19	01-Oct-19 A	27-Nov-19	-83	100%	38%															
3522	TW_L4_Z02_BoH - Door / Ironmong / Hose Reel Cabs	26	27-Aug-19	06-Sep-19	07-Oct-19 A	30-Nov-19	-70	100%	33.33%															
3523	TW_L4_Z02_BoH - All Other Finishes / Make Good & Clean	12	07-Sep-19	21-Sep-19	25-Nov-19	07-Dec-19	-64	100%	0%															
<b>Level 5</b>																								
<b>ABWF &amp; MEP Works</b>																								
<b>Raised Floor Area (Offices, Concourse, Lobbies) - TW_L5_Z01</b>																								
3984	TW_L5_Z01_RF.Area - MEP 1st fix (rem works @ 10 Sep 2018) - Part 2	6	01-Jun-19	29-Jun-19	01-Apr-19 A	07-Nov-19	-108	100%	95%															
3985	TW_L5_Z01_RF.Area - MEP 2nd fix	18	09-Jul-19	29-Jul-19	15-Apr-19 A	21-Nov-19	-96	100%	95%															
3987	TW_L5_Z01_RF.Area - Raised Floor Setting Out/Pedestals	24	16-Jul-19	08-Aug-19	01-Aug-19 A	28-Nov-19	-93	100%	90%															
3988	TW_L5_Z01_RF.Area - Raised Floor MEP Containment/Wiring MEP 1st, 2nd fix	30	30-Jul-19	26-Aug-19	07-Aug-19 A	05-Dec-19	-84	100%	90%															
3989	TW_L5_Z01_RF.Area - MEP final fix (excl. offices)	24	03-Aug-19	16-Aug-19	16-Sep-19 A	28-Nov-19	-86	100%	80%															
3990	TW_L5_Z01_RF.Area - Raised Floor Base Panels	36	19-Aug-19	02-Sep-19	16-Sep-19 A	12-Dec-19	-84	100%	87%															
11554e	*TW_L5_Z01_RF.Area - CAI-395 Novec Gaseous Fire Suspension Sys (change fr A	12			08-Nov-19	21-Nov-19			0%															
4364	TW_L5_Z01_RF.Area - Close ceiling (Open Cell Metal) incl. Cut-Out (excl. offices)	10	30-Jul-19	09-Aug-19	29-Nov-19	10-Dec-19	-102	100%	0%															
3997	TW_L5_Z01_RF.Area - Final floor finishes (timber flooring)	20	18-Sep-19	12-Oct-19	02-May-20	25-May-20	-182	100%	0%															
4309	TW_L5_Z01_RF.Area - Bamboo Capping	6	14-Oct-19	19-Oct-19	26-May-20	01-Jun-20	-182	100%	0%															
3998	TW_L5_Z01_RF.Offices - Glass Partition & Doors/Ironmong	18	15-Oct-19	19-Oct-19	01-Jul-19 A	26-Nov-19	-32	100%	45%															
3994	TW_L5_Z01_RF.Offices - MEP 2nd & final fix (offices)	20	10-Sep-19	24-Sep-19	16-Sep-19 A	25-Nov-19	-51	100%	80%															
3993	TW_L5_Z01_RF.Offices - Dry Wall MEP Services/Conduits (MEP 1st fix)	9	03-Sep-19	17-Sep-19	16-Sep-19 A	11-Nov-19	-45	100%	90%															
3995	TW_L5_Z01_RF.Offices - Close Dry Wall	15	18-Sep-19	21-Sep-19	23-Sep-19 A	18-Nov-19	-47	100%	90%															
3996	TW_L5_Z01_RF.Offices - Wall Painting	20	23-Sep-19	27-Sep-19	01-Oct-19 A	25-Nov-19	-48	100%	25%															
3992	TW_L5_Z01_RF.Offices - Close ceiling (Open Cell Metal) incl. Cut-Outs	13	23-Aug-19	06-Sep-19	29-Nov-19	13-Dec-19	-81	100%	0%															
4550	TW_L5_Z01_RF.Offices - Fixed Furniture	6	18-Oct-19	24-Oct-19	14-May-20	20-May-20	-168	100%	0%															
3999	TW_L5_Z01_RF.Area - All Other Finishes / Make Good & Clean	12	18-Oct-19	31-Oct-19	26-May-20	08-Jun-20	-178	100%	0%															
11547	TW_L5_Z01_RE.Area - Sprinkler baffle plates and left out/ temp. panel fixing	6			04-Nov-19*	09-Nov-19			0%															
11553	TW_L5_Z01_RF.Offices - SR3 door & ironmong	3			20-Jan-20*	22-Jan-20			0%															
<b>BoH Plant Rooms, Corridors &amp; Lift Lobbies - TW_L5_Z02</b>																								
4116	TW_L5_Z02_BoH - Dry Wall Frame & Board (one side)	11	03-May-19	11-May-19	23-Jan-19 A	13-Nov-19	-154	100%	95%															
4102	TW_L5_Z02_BoH - MEP 1st fix	6	02-Jul-19	05-Aug-19	04-Mar-19 A	07-Nov-19	-78	100%	95%															
4105	TW_L5_Z02_BoH - MEP 2nd fix	23	06-Aug-19	26-Aug-19	01-Apr-19 A	27-Nov-19	-77	100%	95%															
4315	TW_L5_Z02_BoH - Dry Wall MEP Services/Conduits MEP 1st fix	17	13-May-19	25-May-19	01-Jun-19 A	20-Nov-19	-148	100%	95%															
4122	TW_L5_Z02_BoH - Close Dry Wall	20	27-May-19	01-Jun-19	15-Jul-19 A	23-Nov-19	-145	100%	80%															
4103	TW_L5_Z02_BoH - Seal Wall Opening	12	06-Aug-19	12-Aug-19	02-Sep-19 A	14-Nov-19	-78	100%	80%															
4106	TW_L5_Z02_BoH - Door Frame & Plastering of Perimeter Edges	12	06-Aug-19	14-Aug-19	02-Sep-19 A	14-Nov-19	-76	100%	81.25%															
4347	TW_L5_Z02_BoH - MEP Final Fix	29	13-Sep-19	20-Sep-19	16-Sep-19 A	04-Dec-19	-62	100%	20%															
4108	TW_L5_Z02_BoH - Door / Ironmong / Hose Reel Cabs	35	27-Aug-19	06-Sep-19	01-Oct-19 A	11-Dec-19	-79	100%	25%															
4104	TW_L5_Z02_BoH - Misc Metal Works / Access Panels	26	27-Aug-19	02-Sep-19	01-Oct-19 A	30-Nov-19	-74	100%	50%															
4135	TW_L5_Z02_BoH - Wall Epoxy/Emulsion Paint	26	27-Aug-19	12-Sep-19	02-Oct-19 A	30-Nov-19	-65	100%	25%															
4109	TW_L5_Z02_BoH - All Other Finishes / Make Good & Clean	12	17-Sep-19	30-Sep-19	05-Dec-19	18-Dec-19	-66	100%	0%															
4133	TW_L5_Z02_BoH - Floor sealer	2	21-Sep-19	23-Sep-19	05-Dec-19	06-Dec-19	-62	100%	0%															
<b>Toilets - TW_L5_Z03</b>																								
4132	TW_L5_Z03_Toilet - MEP 1st fix Ceiling	6	06-May-19	01-Jun-19	01-Apr-19 A	07-Nov-19	-131	100%	95%															
4113	TW_L5_Z03_Toilet - MEP 1st fix Dry Wall	6	30-Apr-19	14-May-19	10-Jun-19 A	07-Nov-19	-147	100%	95%															
4118	TW_L5_Z03_Toilet - MEP 2nd fix	12	24-Jun-19	15-Jul-19	10-Jun-19 A	15-Nov-19	-10																	











ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020															
										2019			Qtr 1			Qtr 2			Qtr 3						
										Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep				
<b>BoH Plant Rooms, Corridors &amp; Lift Lobbies - TW_L12_Z02</b>																									
3556	TW_L12_Z02_BoH - MEP 1st fix	6	11-Mar-19	15-Apr-19	06-May-19 A	07-Nov-19	-171	100%	60%																
3563	TW_L12_Z02_BoH - Dry Wall Frame & Board (one side)	6	22-Jul-19	30-Jul-19	06-May-19 A	07-Nov-19	-83	100%	72%																
3558	TW_L12_Z02_BoH - MEP 2nd fix	16	31-Jul-19	20-Aug-19	22-Jul-19 A	21-Nov-19	-77	100%	30%																
3555	TW_L12_Z02_BoH - Wall & Ceiling Sealer	3	04-Mar-19	08-Mar-19	05-Aug-19 A	04-Nov-19	-199	100%	17%																
3559	TW_L12_Z02_BoH - Door Frame & Plastering of Perimeter Edges	12	16-Apr-19	24-Apr-19	24-Apr-19 A	14-Nov-19	-169	100%	13.33%																
3567	TW_L12_Z02_BoH - Dry Wall MEP Services/Conduits MEP 1st fix	12	31-Jul-19	13-Aug-19	23-Sep-19 A	14-Nov-19	-77	100%	13%																
3569	TW_L12_Z02_BoH - Close Dry Wall	15	14-Aug-19	20-Aug-19	25-Sep-19 A	18-Nov-19	-74	100%	12.07%																
3554	TW_L12_Z02_BoH - Misc Metal Works / Access Panels	21	21-Aug-19	27-Aug-19	27-Aug-19 A	25-Nov-19	-74	100%	57%																
3561	TW_L12_Z02_BoH - Lobbies & Corr Ceiling Rods/ Grids	6	16-Apr-19	22-Apr-19	08-Nov-19	14-Nov-19	-171	100%	0%																
3557	TW_L12_Z02_BoH - Seal Wall Opening	3	16-Apr-19	22-Apr-19	12-Nov-19	14-Nov-19	-171	100%	0%																
3552	TW_L12_Z02_BoH - Door / Ironmong / Hose Reel Cabs	10	21-Aug-19	31-Aug-19	22-Nov-19	03-Dec-19	-77	100%	0%																
3562	TW_L12_Z02_BoH - Lobbies & Corr Close ceiling (board) incl. Cut-Outs	10	21-Aug-19	31-Aug-19	22-Nov-19	03-Dec-19	-77	100%	0%																
3566	TW_L12_Z02_BoH - Wall Epoxy/Emulsion Paint	8	21-Aug-19	29-Aug-19	22-Nov-19	30-Nov-19	-77	100%	0%																
3568	TW_L12_Z02_BoH - MEP final fix	6	30-Aug-19	05-Sep-19	28-Nov-19	04-Dec-19	-74	100%	0%																
3553	TW_L12_Z02_BoH - All Other Finishes / Make Good & Clean	12	02-Sep-19	16-Sep-19	30-Nov-19	13-Dec-19	-74	100%	0%																
3564	TW_L12_Z02_BoH - Floor sealer	2	06-Sep-19	07-Sep-19	05-Dec-19	06-Dec-19	-74	100%	0%																
<b>Toilets - TW_L12_Z03</b>																									
3651	TW_L12_Z03_Toilet - MEP 1st fix Ceiling	9	07-May-19	03-Jun-19	02-May-19 A	11-Nov-19	-133	100%	10%																
3638	TW_L12_Z03_Toilet - Seal Wall Opening	11	04-Mar-19	06-Mar-19	16-Sep-19 A	13-Nov-19	-209	100%	20%																
3647	TW_L12_Z03_Toilet - Dry Wall Frame & One Side Board	7	23-Apr-19	30-Apr-19	01-Oct-19 A	08-Nov-19	-159	100%	90%																
3637	TW_L12_Z03_Toilet - MEP 1st fix Dry Wall	12	02-May-19	15-May-19	02-Nov-19	15-Nov-19	-153	100%	0%																
3632	TW_L12_Z03_Toilet - Dry Wall Frame & Board - DR63 (external)	12	06-Jun-19	20-Jun-19	09-Nov-19	22-Nov-19	-129	100%	0%																
3635	TW_L12_Z03_Toilet - Ceiling Rods/ Grids	4	20-Jun-19	24-Jun-19	12-Nov-19	15-Nov-19	-120	100%	0%																
3640	TW_L12_Z03_Toilet - Door Frame	2	04-Jun-19	05-Jun-19	12-Nov-19	13-Nov-19	-133	100%	0%																
3639	TW_L12_Z03_Toilet - MEP 2nd fix	18	25-Jun-19	16-Jul-19	16-Nov-19	06-Dec-19	-120	100%	0%																
3649	TW_L12_Z03_Toilet - Dry Wall Closing Board	5	16-May-19	21-May-19	18-Nov-19	22-Nov-19	-154	100%	0%																
3636	TW_L12_Z03_Toilet - Close ceiling (board) incl. Cut-Outs	6	17-Jul-19	23-Jul-19	05-Dec-19	11-Dec-19	-118	100%	0%																
3650	TW_L12_Z03_Toilet - Ceiling Finishes (painting)	4	24-Jul-19	27-Jul-19	12-Dec-19	16-Dec-19	-118	100%	0%																
3641	TW_L12_Z03_Toilet - MEP final fix	6	29-Jul-19	03-Aug-19	17-Dec-19	23-Dec-19	-118	100%	0%																
8782	TW_L12_Z03_Toilet - Conc flr curing, polishing & install protection	30	30-Sep-19	12-Nov-19	21-Dec-19	04-Feb-20	-63	72.22%	0%																
3644	TW_L12_Z03_Toilet - Wall finishes (tiling)	12	13-Nov-19	26-Nov-19	21-Jan-20	11-Feb-20	-57	0%	0%																
3634	TW_L12_Z03_Toilet - All Other Finishes / Make Good & Clean	12	29-Nov-19	12-Dec-19	08-Feb-20	21-Feb-20	-52	0%	0%																
3645	TW_L12_Z03_Toilet - Sanitary ware & fittings	6	27-Nov-19	03-Dec-19	12-Feb-20	18-Feb-20	-57	0%	0%																
3633	TW_L12_Z03_Toilet - Door / Ironmong	2	04-Dec-19	05-Dec-19	17-Feb-20	18-Feb-20	-55	0%	0%																
<b>Level 13</b>																									
<b>ABWF &amp; MEP Works</b>																									
<b>FoH Areas (Offices, Concourse &amp; Lobbies) - TW_L13_Z01</b>																									
3780	TW_L13_Z01_FoH - MEP 1st fix	9	26-Feb-19	23-Apr-19	02-May-19 A	13-Nov-19	-169	100%	80%																
3785	TW_L13_Z01_FoH - MEP 2nd fix	17	24-Apr-19	15-May-19	15-Jul-19 A	20-Nov-19	-157	100%	25%																
3778	TW_L13_Z01_FoH - Ceiling Sealer	6	08-Dec-18	14-Dec-18	04-Nov-19*	09-Nov-19	-268	100%	0%																
3786	TW_L13_Z01_FoH - MEP final fix	12	14-Aug-19	27-Aug-19	21-Nov-19	04-Dec-19	-82	100%	0%																
3787	TW_L13_Z01_FoH - Doors/Ironmong	2	21-Aug-19	22-Aug-19	21-Nov-19	22-Nov-19	-76	100%	0%																
3788	TW_L13_Z01_FoH - Wall finishes (painting or sealer)	5	21-Aug-19	26-Aug-19	21-Nov-19	26-Nov-19	-76	100%	0%																
3790	TW_L13_Z01_FoH - All Other Finishes / Make Good & Clean	12	26-Aug-19	09-Sep-19	22-Jan-20	12-Feb-20	-123	100%	0%																
<b>BoH Plant Rooms, Corridors &amp; Lift Lobbies - TW_L13_Z02</b>																									
3575	TW_L13_Z02_BoH - MEP 1st fix	7	13-Apr-19	18-May-19	06-May-19 A	08-Nov-19	-144	100%	60%																
3582	TW_L13_Z02_BoH - Dry Wall Frame & Board (one side)	7	29-Jul-19	02-Aug-19	06-May-19 A	08-Nov-19	-81	100%	50%																
3574	TW_L13_Z02_BoH - Wall & Ceiling Sealer	5	06-Apr-19	11-Apr-19	12-Aug-19 A	06-Nov-19	-173	100%	5%																
3584	TW_L13_Z02_BoH - Wall Plastering/ Rendering	13	29-Mar-19	15-Apr-19	15-Apr-19 A	15-Nov-19	-178	100%	5%																
3577	TW_L13_Z02_BoH - MEP 2nd fix	17	03-Aug-19	23-Aug-19	19-Aug-19 A	22-Nov-19	-75	100%	20%																
3578	TW_L13_Z02_BoH - Door Frame & Plastering of Perimeter Edges	10	20-May-19	28-May-19	16-Sep-19 A	15-Nov-19	-142	100%	13.33%																
3586	TW_L13_Z02_BoH - Dry Wall MEP Services/Conduits MEP 1st fix	8	03-Aug-19	16-Aug-19	16-Aug-19 A	15-Nov-19	-75	100%	10%																
3573	TW_L13_Z02_BoH - Misc Metal Works / Access Panels	21	24-Aug-19	30-Aug-19	14-Oct-19 A	26-Nov-19	-72	100%	36%																
3576	TW_L13_Z02_BoH - Seal Wall Opening	6	20-May-19	25-May-19	09-Nov-19	15-Nov-19	-144	100%	0%																
3580	TW_L13_Z02_BoH - Lobbies & Corr Ceiling Rods/ Grids	6	20-May-19	25-May-19	09-Nov-19	15-Nov-19	-144	100%	0%																
3585	TW_L13_Z02_BoH - Wall Epoxy/Emulsion Paint	12	24-Aug-19	10-Sep-19	16-Nov-19	29-Nov-19	-66	100%	0%																
3588	TW_L13_Z02_BoH - Close Dry Wall	3	17-Aug-19	20-Aug-19	16-Nov-19	19-Nov-19	-75	100%	0%																
3571	TW_L13_Z02_BoH - Door / Ironmong / Hose Reel Cabs	10	24-Aug-19	04-Sep-19	23-Nov-19	04-Dec-19	-75	100%	0%																
3581	TW_L13_Z02_BoH - Lobbies & Corr Close ceiling (board) incl. Cut-Outs	10	24-Aug-19	04-Sep-19	23-Nov-19	04-Dec-19	-75	100%	0%																
3587	TW_L13_Z02_BoH - MEP final fix	6	11-Sep-19	18-Sep-19	27-Nov-19	03-Dec-19	-63	100%	0%																
3572	TW_L13_Z02_BoH - All Other Finishes / Make Good & Clean	12	13-Sep-19	27-Sep-19	29-Nov-19	12-Dec-19	-63	100%	0%																
3583	TW_L13_Z02_BoH - Floor sealer	2	19-Sep-19	20-Sep-19	04-Dec-19	05-Dec-19	-63	100%	0%																
<b>Toilets (FoH &amp; BoH) - TW_L13_Z03</b>																									
3671	TW_L13_Z03_Toilet - MEP 1st fix Ceiling	17	21-May-19	18-Jun-19	02-May-19 A	20-Nov-19	-129	100%	10%																
3652	TW_L13_Z03_Toilet - Wall Plastering (internal & external)	25	21-Jun-19	05-Jul-19	01-Oct-19 A	29-Nov-19	-123	100%	50%																
3667	TW_L13_Z03_Toilet - Dry Wall Frame & One Side Board	10	02-May-19	14-May-19	01-Oct-19 A	12-Nov-19	-151	100%	20%																
3658	TW_L13_Z03_Toilet - Seal Wall Opening	19	09-Apr-19	11-Apr-19	14-Oct-19 A	22-Nov-19	-187	100%	40%																
3668	TW_L13_Z03_Toilet - MEP 1st fix Block Wall	8	29-Mar-19	08-Apr-19	04-Nov-19*	12-Nov-19	-181	100%	0%																
3657	TW_L13_Z03_Toilet - MEP 1st fix Dry Wall	12	15-May-19	28-May-19	06-Nov-19	19-Nov-19	-145	100%	0%																
3669	TW_L13_Z03_Toilet - Dry Wall Closing Board	8	29-May-19	06-Jun-19	20-Nov																				











ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020														
										Qtr 4			Qtr 1			Qtr 2			Qtr 3					
										Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep			
11584	CSF_L2_Z01_FoH - Mobile Screen Installation	11			17-Jun-20	30-Jun-20		0%	0%															
11578	CSF_L2_Z01_FoH - Vertical Carousel System Installation	11			03-Oct-20	15-Oct-20		0%	0%															
5679	CSF_L2_Z01_FoH - MEP 2nd fix	10	05-Jul-19	25-Jul-19	15-Apr-19 A	12-Nov-19	-91	100%	95.27%															
5682	CSF_L2_Z01_FoH - MEP 2nd fix Gypsum Block wall	8	04-May-19	24-May-19	24-Apr-19 A	09-Nov-19	-140	100%	95%															
5683	CSF_L2_Z01_FoH - Doors/Ironmong	12	26-Aug-19	31-Aug-19	24-Jun-19 A	14-Nov-19	-61	100%	75%															
5680	CSF_L2_Z01_FoH - MEP final fix	17	19-Aug-19	31-Aug-19	29-Jul-19 A	20-Nov-19	-66	100%	76%															
5685	CSF_L2_Z01_FoH - Gypsum Block Wall (Remaining Works)	10	25-May-19	30-May-19	16-Oct-19 A	12-Nov-19	-137	100%	50%															
5686	CSF_L2_Z01_FoH - Wall finishes (painting or sealer)	12	03-Aug-19	24-Aug-19	28-Oct-19 A	15-Nov-19	-68	100%	75%															
10880b	CSF_L2_Z01_FoH - AFA Detectors Change - Abortive & Installation Works (CAI 39E)	9			28-Oct-19 A	11-Nov-19		0%	50%															
5687	CSF_L2_Z01_FoH - All Other Finishes / Make Good & Clean	12	26-Aug-19	07-Sep-19	11-Nov-19	23-Nov-19	-63	100%	0%															
5689	CSF_L2_Z01_FoH - Floor Sealer	4	26-Aug-19	30-Aug-19	13-Nov-19	18-Nov-19	-66	100%	0%															
5714	CSF_L2_Z01_FoH - MEP final fix Install Gas Suppression Cyl (delay to just before F)	12	06-Dec-19	19-Dec-19	02-Jan-20	15-Jan-20	-21	0%	0%															
<b>Corridors with Suspended Ceilings - CSF_L2_Z02</b>																								
5703	CSF_L2_Z02_Corr - Gypsum Block wall MEP Services/Conduits (MEP 1st fix)	6	06-May-19	18-May-19	15-Apr-19 A	07-Nov-19	-143	100%	94%															
5697	CSF_L2_Z02_Corr - MEP 2nd fix	10	05-Jul-19	18-Jul-19	22-Apr-19 A	12-Nov-19	-97	100%	96.73%															
5701	CSF_L2_Z02_Corr - All Other Finishes (DOOR) / Make Good & Clean	20	07-Aug-19	13-Aug-19	24-Jun-19 A	30-Nov-19	-91	100%	60%															
5693	CSF_L2_Z02_Corr - MEP final fix	16	03-Aug-19	09-Aug-19	29-Jul-19 A	19-Nov-19	-84	100%	84%															
5699	CSF_L2_Z02_Corr - Ceiling & Wall Paint	22	27-Jul-19	02-Aug-19	28-Oct-19 A	26-Nov-19	-96	100%	90%															
5700	CSF_L2_Z02_Corr - Floor Sealer	3	03-Aug-19	06-Aug-19	26-Nov-19	28-Nov-19	-95	100%	0%															
<b>BOH (GL B-B+; 5'-6" &amp; G.L. F, 4'+5") - CSF_L2_Z03</b>																								
6278	CSF_L2_Z03_BoH - MEP Rms @ G.L. F MEP works (1st, 2nd & final fix)	12	28-Jun-19	26-Jul-19	27-May-19 A	14-Nov-19	-92	100%	86%															
5705	CSF_L2_Z03_BoH - MEP final fix	14	15-May-19	21-May-19	29-Jul-19 A	18-Nov-19	-150	100%	82%															
6279	CSF_L2_Z03_BoH - MEP Rms @ G.L. F Access Panels	12	27-Jul-19	02-Aug-19	23-Sep-19 A	16-Nov-19	-88	100%	33%															
5708	CSF_L2_Z03_BoH - Wall Epoxy Paint (Remaining Works)	7	26-Dec-18	03-Jan-19	21-Oct-19 A	08-Nov-19	-252	100%	90%															
5709	CSF_L2_Z03_BoH - Floor Sealer	1	04-Jan-19	04-Jan-19	09-Nov-19	09-Nov-19	-252	100%	0%															
5710	CSF_L2_Z03_BoH - All Other Finishes (DOOR) / Make Good & Clean	6	03-Aug-19	09-Aug-19	19-Nov-19	25-Nov-19	-89	100%	0%															
<b>AHU Room - CSF_L2_Z04</b>																								
5721	CSF_L2_Z04_AHU - MEP 2nd fix	8	26-Feb-19	11-Mar-19	15-Apr-19 A	09-Nov-19	-202	100%	93.49%															
5718	CSF_L2_Z04_AHU - MEP final fix (Wild Air Stage 1)	16	08-Apr-19	24-Apr-19	27-May-19 A	19-Nov-19	-173	100%	86%															
5723	CSF_L2_Z04_AHU - Floor Sealer	10	23-Apr-19	24-Apr-19	24-Jun-19 A	12-Nov-19	-167	100%	75%															
5724	CSF_L2_Z04_AHU - All Other Finishes (DOOR) / Make Good & Clean	22	22-Apr-19	27-Apr-19	24-Jun-19 A	26-Nov-19	-176	100%	50%															
<b>Level 3</b>																								
<b>ABWF &amp; MEP Works</b>																								
<b>FoH Areas (Storages, Offices, Lift Lobby etc) - CSF_L3_Z01</b>																								
11581	CSF_L3_Z01_FoH - Museum Storage System Installation	38			19-Mar-20	04-May-20		0%	0%															
5628	CSF_L3_Z01_FoH - Gypsum Block wall MEP Services/Conduits (MEP 1st fix)	4	26-Apr-19	10-May-19	18-Feb-19 A	05-Nov-19	-148	100%	95%															
5623	CSF_L3_Z01_FoH - MEP 2nd fix	6	05-Jul-19	25-Jul-19	15-Apr-19 A	07-Nov-19	-87	100%	93.75%															
5626	CSF_L3_Z01_FoH - MEP 2nd fix Gypsum Block wall	6	04-May-19	24-May-19	15-Apr-19 A	07-Nov-19	-138	100%	92%															
5624	CSF_L3_Z01_FoH - MEP final fix	11	06-Aug-19	19-Aug-19	29-Jul-19 A	14-Nov-19	-72	100%	82%															
5627	CSF_L3_Z01_FoH - Doors/Ironmong	14	13-Aug-19	19-Aug-19	09-Sep-19 A	16-Nov-19	-74	100%	80%															
5632	CSF_L3_Z01_FoH - Floor Sealer / Self Levelling Screed	8	13-Aug-19	17-Aug-19	09-Sep-19 A	09-Nov-19	-70	100%	75%															
10880c	CSF_L3_Z01_FoH - AFA Detectors Change - Abortive & Installation Works (CAI 39E)	10			28-Oct-19 A	12-Nov-19		0%	50%															
5631	CSF_L3_Z01_FoH - All Other Finishes / Make Good & Clean	12	13-Aug-19	26-Aug-19	08-Nov-19	21-Nov-19	-72	100%	0%															
5658	CSF_L3_Z01_FoH - MEP final fix Install Gas Suppression Cyl (delay to just before F)	12	08-Nov-19	21-Nov-19	02-Jan-20	15-Jan-20	-45	0%	0%															
<b>Corridors with Suspended Ceilings - CSF_L3_Z02</b>																								
5636	CSF_L3_Z02_Corr - MEP final fix	13	03-Aug-19	09-Aug-19	29-Jul-19 A	20-Nov-19	-85	100%	72%															
5641	CSF_L3_Z02_Corr - Close ceiling (board) incl. Cut-Outs	9	19-Jul-19	26-Jul-19	14-Oct-19 A	11-Nov-19	-89	100%	90%															
5642	CSF_L3_Z02_Corr - Ceiling & Wall Paint	10	27-Jul-19	02-Aug-19	28-Oct-19 A	13-Nov-19	-85	100%	90%															
5643	CSF_L3_Z02_Corr - Floor Sealer	3	03-Aug-19	06-Aug-19	14-Nov-19	16-Nov-19	-85	100%	0%															
5644	CSF_L3_Z02_Corr - All Other Finishes (DOOR) / Make Good & Clean	6	07-Aug-19	13-Aug-19	18-Nov-19	23-Nov-19	-85	100%	0%															
<b>BOH (GL B-B+; 5'-6" &amp; G.L. F, 4'+5") - CSF_L3_Z03</b>																								
5656	CSF_L3_Z03_BoH - Gypsum Block wall MEP Services/Conduits (MEP 1st fix)	4	09-May-19	22-May-19	15-Apr-19 A	05-Nov-19	-138	100%	93%															
5650	CSF_L3_Z03_BoH - MEP 2nd fix	8	11-Dec-18	24-Dec-18	22-Apr-19 A	09-Nov-19	-260	100%	93.04%															
5648	CSF_L3_Z03_BoH - MEP final fix	12	01-Jun-19	08-Jun-19	27-May-19 A	14-Nov-19	-132	100%	83%															
6275	CSF_L3_Z03_BoH - MEP Rms @ G.L. F MEP works (1st, 2nd & final fix)	14	14-Jun-19	12-Jul-19	29-Jul-19 A	16-Nov-19	-106	100%	78%															
6276	CSF_L3_Z03_BoH - MEP Rms @ G.L. F Access Panels	16	13-Jul-19	19-Jul-19	16-Sep-19 A	23-Nov-19	-106	100%	50%															
5660	CSF_L3_Z03_BoH - Access Panels for MEP Rooms	9	22-Apr-19	23-Apr-19	23-Sep-19 A	13-Nov-19	-169	100%	50%															
5652	CSF_L3_Z03_BoH - Wall Epoxy Paint	6	25-May-19	31-May-19	11-Nov-19	16-Nov-19	-140	100%	0%															
5653	CSF_L3_Z03_BoH - Floor Sealer	1	01-Jun-19	01-Jun-19	18-Nov-19	18-Nov-19	-140	100%	0%															
5654	CSF_L3_Z03_BoH - All Other Finishes (DOOR) / Make Good & Clean	6	20-Jul-19	26-Jul-19	22-Nov-19	28-Nov-19	-104	100%	0%															
<b>AHU Room - CSF_L3_Z04</b>																								
5665	CSF_L3_Z04_AHU - MEP 2nd fix	8	26-Feb-19	11-Mar-19	15-Apr-19 A	09-Nov-19	-202	100%	93.87%															
5662	CSF_L3_Z04_AHU - MEP final fix (Wild Air Stage 1)	16	08-Apr-19	24-Apr-19	30-May-19 A	19-Nov-19	-173	100%	88%															
5667	CSF_L3_Z04_AHU - Floor Sealer	10	22-May-19	23-May-19	10-Jun-19 A	12-Nov-19	-143	100%	92.69%															
5668	CSF_L3_Z04_AHU - All Other Finishes (DOOR) / Make Good & Clean	6	21-May-19	27-May-19	20-Nov-19	26-Nov-19	-152	100%	0%															
<b>Level 4</b>																								
<b>ABWF &amp; MEP Works</b>																								
<b>FoH Areas (Storages, Offices, Lift Lobby etc) - CSF_L4_Z01</b>																								
11585	CSF_L4_Z01_FoH - Mobile Screen Installation	11			17-Jun-20	30-Jun-20		0%	0%															
5573	CSF_L4_Z01_FoH - Gypsum Block wall MEP Services/Conduits (MEP 1st fix)	4	26-Apr-19	10-May-19	08-Apr-19 A	05-Nov-19	-148	100%	88%															
5571	CSF_L4_Z01_FoH - MEP 2nd fix Gypsum Block wall	6	26-Apr-19	17-May-19	15-Apr-19 A	09-Nov-19	-146	100%	86%															
5568	CSF_L4_Z01_FoH - MEP 2nd fix	8	17-Jul-19	06-Aug-19	22-Apr-19 A	09-Nov-19	-79	100%	94.29%															
5580	CSF_L4_Z01_FoH - Perimeter Gypsum Block Wall Plaster/Skim Coat	8	18-Jun-19	03-Jul-19	27-May-19 A	09-Nov-19	-108	100%	95%															
5574	CSF_L4_Z01_FoH - Gypsum Block Wall	8	18-May-19	22-May-19	24-Jun-19 A	11-Nov-19	-143	100%	90%															
5569	CSF_L4_Z01_FoH - MEP final fix	18	17-Aug-19																					



ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020												
										Qtr 4			Qtr 1			Qtr 2			Qtr 3			
										Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
5528	CSF_L5_Z02_Corr - Floor Sealer	3	03-Aug-19	06-Aug-19	25-Nov-19	27-Nov-19	-94	100%	0%													
<b>BOH (GL B'B'+; 5'-6' &amp; G.L.F, 4'+5'+) - CSF_L5_Z03</b>																						
5543	CSF_L5_Z03_BoH - Gypsum Block wall MEP Services/Conduits (MEP 1st fix)	6	09-May-19	22-May-19	19-Apr-19 A	07-Nov-19	-140	100%	91%													
5537	CSF_L5_Z03_BoH - MEP 2nd fix	10	25-Jun-19	09-Jul-19	22-Apr-19 A	12-Nov-19	-105	100%	94.32%													
5534	CSF_L5_Z03_BoH - MEP final fix	14	17-Jul-19	23-Jul-19	29-Jul-19 A	18-Nov-19	-98	100%	85%													
6268	CSF_L5_Z03_BoH - MEP Rms @ G.L. F MEP works (1st, 2nd & final fix)	18	24-Jul-19	20-Aug-19	29-Jul-19 A	21-Nov-19	-77	100%	89%													
6269	CSF_L5_Z03_BoH - MEP Rms @ G.L. F Access Panels	20	21-Aug-19	27-Aug-19	18-Oct-19 A	23-Nov-19	-73	100%	33%													
5538	CSF_L5_Z03_BoH - Wall Epoxy Paint	11	10-Jul-19	16-Jul-19	21-Oct-19 A	14-Nov-19	-101	100%	75%													
5539	CSF_L5_Z03_BoH - Floor Sealer	1	17-Jul-19	17-Jul-19	15-Nov-19	15-Nov-19	-101	100%	0%													
5540	CSF_L5_Z03_BoH - All Other Finishes (DOOR) / Make Good & Clean	6	28-Aug-19	03-Sep-19	25-Nov-19	30-Nov-19	-73	100%	0%													
<b>AHU Room - CSF_L5_Z04</b>																						
5553	CSF_L5_Z04_AHU - MEP 2nd fix	12	19-Jun-19	29-Jun-19	15-Apr-19 A	14-Nov-19	-115	100%	92.77%													
5559	CSF_L5_Z04_AHU - Plaster on Foamglas Insulation	10	04-May-19	21-May-19	17-Jun-19 A	12-Nov-19	-145	100%	80%													
5549	CSF_L5_Z04_AHU - MEP final fix (Wild Air Stage 1)	16	29-Jun-19	15-Jul-19	29-Jul-19 A	19-Nov-19	-107	100%	76%													
5554	CSF_L5_Z04_AHU - Wall Epoxy Paint	13	29-Jun-19	06-Jul-19	21-Oct-19 A	16-Nov-19	-111	100%	50%													
5556	CSF_L5_Z04_AHU - All Other Finishes (DOOR) / Make Good & Clean	6	10-Jul-19	16-Jul-19	16-Nov-19	22-Nov-19	-108	100%	0%													
5555	CSF_L5_Z04_AHU - Floor Sealer	2	08-Jul-19	09-Jul-19	18-Nov-19	19-Nov-19	-111	100%	0%													
<b>Level 6</b>																						
<b>ABWF &amp; MEP Works</b>																						
<b>FoH Areas (Storages, Offices, Lift Lobby etc) - CSF_L6_Z01</b>																						
11586	CSF_L6_Z01_FoH - Lab Furniture & Loose Furniture Installation @ Paper Scroll & :	38			18-Apr-20	02-Jun-20		0%	0%													
5792	CSF_L6_Z01_FoH - MEP 1st fix	3	03-Jun-19	16-Jul-19	08-Apr-19 A	04-Nov-19	-92	100%	96.93%													
5793	CSF_L6_Z01_FoH - MEP 2nd fix	16	17-Jul-19	06-Aug-19	29-Apr-19 A	19-Nov-19	-87	100%	86.19%													
5795	CSF_L6_Z01_FoH - Dry Wall Frame & Board (one side)	8	31-May-19	15-Jun-19	10-Jun-19 A	09-Nov-19	-122	100%	90%													
5805	CSF_L6_Z01_FoH - Perimeter Gypsum Foamglas Insulation	6	31-May-19	19-Jun-19	10-Jun-19 A	08-Nov-19	-118	100%	90%													
5803	CSF_L6_Z01_FoH - Floor Screed (Remaining Works)	2	12-Dec-18	19-Dec-18	17-Jun-19 A	04-Nov-19	-259	100%	95%													
5806	CSF_L6_Z01_FoH - Perimeter Gypsum Block Wall	12	20-Jun-19	03-Jul-19	17-Jun-19 A	15-Nov-19	-113	100%	85.02%													
5798	CSF_L6_Z01_FoH - Dry Wall MEP Services/Conduits (MEP 1st fix)	12	05-Jun-19	19-Jun-19	22-Jul-19 A	14-Nov-19	-123	100%	89%													
5796	CSF_L6_Z01_FoH - MEP 2nd fix Dry Wall	18	13-Jun-19	04-Jul-19	29-Jul-19 A	21-Nov-19	-117	100%	86%													
6130	CSF_L6_Z01_FoH - Ceiling Grids incl. support frame for Glass & Movable Partition	32	11-Jul-19	26-Jul-19	19-Aug-19 A	11-Dec-19	-115	100%	10%													
5794	CSF_L6_Z01_FoH - MEP final fix	30	02-Sep-19	16-Sep-19	18-Sep-19 A	07-Dec-19	-69	100%	40%													
5800	CSF_L6_Z01_FoH - Wall finishes (painting or sealer)	26	07-Aug-19	28-Aug-19	14-Oct-19 A	30-Nov-19	-78	100%	70%													
5799	CSF_L6_Z01_FoH - Close Dry Wall	20	05-Jul-19	16-Jul-19	18-Oct-19 A	23-Nov-19	-109	100%	90%													
5797	CSF_L6_Z01_FoH - Doors/Ironmong	28	29-Aug-19	04-Sep-19	28-Oct-19 A	03-Dec-19	-74	100%	30%													
5807	CSF_L6_Z01_FoH - Perimeter Gypsum Block Wall Plaster/Skim Coat	22	04-Jul-19	12-Jul-19	28-Oct-19 A	26-Nov-19	-114	100%	30%													
5802	CSF_L6_Z01_FoH - Ceiling & Column Sealer	2	10-Dec-18	11-Dec-18	01-Nov-19	02-Nov-19	-265	100%	0%													
6132	CSF_L6_Z01_FoH - Close ceiling (panels)	8	07-Aug-19	31-Aug-19	29-Nov-19	07-Dec-19	-81	100%	0%													
6227	CSF_L6_Z01_FoH - Glass Partition & Doors/Ironmong	6	02-Sep-19	07-Sep-19	29-Nov-19	05-Dec-19	-73	100%	0%													
6229	CSF_L6_Z01_FoH - Roller Blind System Inst'n	9	02-Sep-19	11-Sep-19	06-Feb-20	15-Feb-20	-123	100%	0%													
5801	CSF_L6_Z01_FoH - All Other Finishes / Make Good & Clean	12	20-Sep-19	04-Oct-19	04-Mar-20	18-Mar-20	-132	100%	0%													
5804	CSF_L6_Z01_FoH - Floor Sealer / Resin Floor	3	29-Aug-19	31-Aug-19	07-Mar-20*	11-Mar-20	-153	100%	0%													
<b>Corridors with Suspended Ceilings - CSF_L6_Z02</b>																						
5811	CSF_L6_Z02_Corr - MEP 1st fix	8	03-Jun-19	24-Jun-19	22-Apr-19 A	09-Nov-19	-115	100%	92.8%													
5813	CSF_L6_Z02_Corr - MEP 2nd fix	13	05-Jul-19	18-Jul-19	17-Jun-19 A	20-Nov-19	-104	100%	83.56%													
5808	CSF_L6_Z02_Corr - MEP final fix	19	03-Aug-19	09-Aug-19	29-Jul-19 A	27-Nov-19	-91	100%	56%													
5810	CSF_L6_Z02_Corr - Ceiling Rods Setting Out & Install	10	13-Dec-18	15-Dec-18	19-Aug-19 A	13-Nov-19	-270	100%	60%													
5812	CSF_L6_Z02_Corr - Ceiling Grids	12	25-Jun-19	29-Jun-19	26-Aug-19 A	16-Nov-19	-116	100%	60%													
5814	CSF_L6_Z02_Corr - Close ceiling (board) incl. Cut-Outs	16	19-Jul-19	26-Jul-19	14-Oct-19 A	23-Nov-19	-100	100%	60%													
5815	CSF_L6_Z02_Corr - Ceiling & Wall (painting & sealer)	18	27-Jul-19	02-Aug-19	28-Oct-19 A	26-Nov-19	-96	100%	20%													
5817	CSF_L6_Z02_Corr - All Other Finishes (DOOR) / Make Good & Clean	6	07-Aug-19	13-Aug-19	25-Nov-19	30-Nov-19	-91	100%	0%													
5816	CSF_L6_Z02_Corr - Floor Sealer	3	03-Aug-19	06-Aug-19	26-Nov-19	28-Nov-19	-95	100%	0%													
<b>BOH (GL B'B'+; 5'-6' &amp; G.L.F, 4'+5'+) - CSF_L6_Z03</b>																						
5822	CSF_L6_Z03_BoH - MEP 2nd fix	10	25-Jun-19	09-Jul-19	29-Apr-19 A	12-Nov-19	-105	100%	93.67%													
5827	CSF_L6_Z03_BoH - Gypsum Blockwork Advanced Works MEP Services/Conduits (I	4	26-Apr-19	10-May-19	20-May-19 A	05-Nov-19	-148	100%	88%													
6264	CSF_L6_Z03_BoH - MEP Rms @ G.L. F Builder's Works (Gypsum Block Wall, Dry	12	04-Jul-19	24-Jul-19	22-Jul-19 A	15-Nov-19	-95	100%	45.01%													
6265	CSF_L6_Z03_BoH - MEP Rms @ G.L. F MEP works (1st, 2nd & final fix)	20	25-Jul-19	21-Aug-19	22-Jul-19 A	23-Nov-19	-78	100%	83%													
5819	CSF_L6_Z03_BoH - MEP final fix	19	17-Jul-19	23-Jul-19	29-Jul-19 A	26-Nov-19	-105	100%	68%													
6266	CSF_L6_Z03_BoH - MEP Rms @ G.L. F Access Panels	22	22-Aug-19	28-Aug-19	21-Oct-19 A	26-Nov-19	-74	100%	33.33%													
5823	CSF_L6_Z03_BoH - Wall Epoxy/ Emulsion Paint	6	10-Jul-19	16-Jul-19	13-Nov-19	19-Nov-19	-105	100%	0%													
5824	CSF_L6_Z03_BoH - Floor Sealer	1	17-Jul-19	17-Jul-19	20-Nov-19	20-Nov-19	-105	100%	0%													
5825	CSF_L6_Z03_BoH - All Other Finishes (DOOR) / Make Good & Clean	6	29-Aug-19	04-Sep-19	23-Nov-19	29-Nov-19	-71	100%	0%													
<b>AHU Room - CSF_L6_Z04</b>																						
5835	CSF_L6_Z04_AHU - MEP 1st fix	10	03-Jun-19	24-Jun-19	08-Apr-19 A	12-Nov-19	-117	100%	85.39%													
5836	CSF_L6_Z04_AHU - MEP 2nd fix	20	25-Jun-19	09-Jul-19	22-Apr-19 A	23-Nov-19	-115	100%	78.24%													
5833	CSF_L6_Z04_AHU - MEP final fix incl. cladding/ insulation	28	10-Jul-19	26-Jul-19	29-Jul-19 A	03-Dec-19	-108	100%	48%													
5837	CSF_L6_Z04_AHU - Wall Epoxy Paint	24	10-Jul-19	16-Jul-19	14-Oct-19 A	28-Nov-19	-113	100%	80%													
5842	CSF_L6_Z04_AHU - Plaster on Foamglas Insulation	8	09-May-19	21-May-19	16-Oct-19 A	09-Nov-19	-143	100%	30%													
5838	CSF_L6_Z04_AHU - Floor Sealer	2	17-Jul-19	18-Jul-19	29-Nov-19	30-Nov-19	-113	100%	0%													
5839	CSF_L6_Z04_AHU - All Other Finishes (DOOR) / Make Good & Clean	6	24-Jul-19	30-Jul-19	30-Nov-19	06-Dec-19	-108	100%	0%													
<b>Toilets - CSF_L6_Z05</b>																						
6154	CSF_L6_Z05_Toilet - MEP 1st fix Ceiling	10	03-Jun-19	27-Jun-19	17-Jun-19 A	12-Nov-19	-114	100%	88.39%													
6155	CSF_L6_Z05_Toilet - Dry Wall Frame & Board (one side)	6	26-Apr-19	03-May-19	24-Jun-19 A	07-Nov-19	-156	100%	25.01%													
6156	CSF_L6_Z05_Toilet - Dry Wall MEP Services/Conduits (MEP 1st fix)	8	30-Apr-19	14-May-19	15-Jul-19 A	11-Nov-19	-150	100%	85%													
6143	CSF_L6_Z05_Toilet - MEP 2nd fix	18	11-Jul-19	24-Jul-19	31-Jul-19 A	22-Nov-19	-101	100%	64.45%													
8787	CSF_L6_Z05_Toilet - Conc fir curing, polishing & install protection	13	12-Aug-19	23-Sep-19	02-Sep-19 A	15-Nov-19	-44	100%														







ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020																								
										Qtr 4			Qtr 1			Qtr 2			Qtr 3															
											Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep												
<b>Initial Works, Establishment &amp; Miscellaneous</b>																																		
14238f	RDE - Architectural Lightings Installation (C46)	12	10-Feb-20	22-Feb-20	14-May-20	27-May-20	-79	0%	0%																									
9699	RDE_ABWF - Sealer/Screened MH16 opening L1-L5	30	25-Oct-19	28-Nov-19	16-Dec-19	21-Jan-20	-44	20%	0%																									
9701	RDE_MEP - Minor MEP Works MH16 opening L1-L5	30	08-Nov-19	12-Dec-19	31-Dec-19	12-Feb-20	-44	0%	0%																									
<b>Level GF</b>																																		
<b>ABWF &amp; MEP Works</b>																																		
<b>FoH Areas (Retail, Passenger Lift Lobbies &amp; Terrace) - RDE_GF_Z01</b>																																		
4691	RDE_GF_Z01_FoH - MEP 1st fix (Part 1)	14	16-Jan-19	05-Mar-19	07-Jan-19 A	16-Nov-19	-213	100%	66%																									
4692	RDE_GF_Z01_FoH - MEP 2nd fix	35	30-Sep-19	29-Oct-19	02-Sep-19 A	11-Dec-19	-37	100%	41%																									
4691a	RDE_GF_Z01_FoH - MEP 1st fix (Part 2)	18			18-Nov-19	07-Dec-19		0%	0%																									
4693	RDE_GF_Z01_FoH - MEP final fix	18	30-Oct-19	19-Nov-19	12-Dec-19	03-Jan-20	-37	11.11%	0%																									
4698	RDE_GF_Z01_FoH - Floor Sealer	5	20-Nov-19	25-Nov-19	04-Jan-20	09-Jan-20	-37	0%	0%																									
4746	RDE_GF_Z01_FoH - Glass Partition installation	26	05-Dec-19	11-Dec-19	16-Jan-20	22-Feb-20	-54	0%	0%																									
4694	RDE_GF_Z01_FoH - All Other Finishes / Make Good & Clean	12	19-Nov-19	02-Dec-19	17-Feb-20	29-Feb-20	-68	0%	0%																									
<b>BoH Plant Rooms, Corridors, FS &amp; Service Lift Lobbies - RDE_GF_Z02</b>																																		
4686	RDE_GF_Z02_BoH - Wet Trades (plaster/screed/ceiling sealer/wall_sealer/undercoat)	16	29-Dec-18	15-Jan-19	07-Jan-19 A	19-Nov-19	-251	100%	60%																									
4680	RDE_GF_Z02_BoH - MEP 2nd fix	29	10-May-19	30-May-19	01-Apr-19 A	12-Dec-19	-163	100%	76%																									
4682	RDE_GF_Z02_BoH - Lobbies & Corr Ceiling Rods/ Grids	24	20-Feb-19	23-Feb-19	12-Aug-19 A	28-Nov-19	-231	100%	5%																									
4679	RDE_GF_Z02_BoH - Seal Wall Opening	14	20-Feb-19	26-Feb-19	02-Sep-19 A	26-Nov-19	-227	100%	30%																									
4681	RDE_GF_Z02_BoH - Door Frame & Plastering of Perimeter Edges	6	27-Feb-19	04-Mar-19	02-Oct-19 A	07-Nov-19	-206	100%	55.55%																									
4675	RDE_GF_Z02_BoH - Door / Ironmong / Hose Reel Cabs	7	31-May-19	08-Jun-19	13-Dec-19	20-Dec-19	-163	100%	0%																									
4684	RDE_GF_Z02_BoH - Lobbies & Corr Close ceiling (board) incl. Cut-Outs	7	31-May-19	08-Jun-19	13-Dec-19	20-Dec-19	-163	100%	0%																									
4688	RDE_GF_Z02_BoH - MEP final fix	12	24-Sep-19	09-Oct-19	13-Dec-19	27-Dec-19	-67	100%	0%																									
4687	RDE_GF_Z02_BoH - Wall epoxy/ emulsion paint final coat	4	10-Jun-19	13-Jun-19	21-Dec-19	26-Dec-19	-163	100%	0%																									
4685	RDE_GF_Z02_BoH - Floor sealer	2	13-Jun-19	14-Jun-19	26-Dec-19	27-Dec-19	-163	100%	0%																									
4676	RDE_GF_Z02_BoH - All Other Finishes / Make Good & Clean	12	02-Oct-19	16-Oct-19	13-Jan-20	03-Feb-20	-85	100%	0%																									
4677	RDE_GF_Z02_BoH - Misc Metal Works / Access Panels	6	31-May-19	06-Jun-19	13-Jan-20	18-Jan-20	-187	100%	0%																									
<b>Level 1</b>																																		
<b>ABWF &amp; MEP Works</b>																																		
<b>FoH Areas (Retail, Passenger Lift Lobbies &amp; Terrace) - RDE_L1_Z01</b>																																		
4736	RDE_L1_Z01_FoH - MEP 2nd fix	21	07-Nov-19	04-Dec-19	02-May-19 A	25-Nov-19	8	0%	85%																									
4735a	RDE_L1_Z01_FoH - MEP 1st fix (Part 2)	18			01-Nov-19	21-Nov-19		0%	0%																									
4737	RDE_L1_Z01_FoH - MEP final fix	18	05-Dec-19	26-Dec-19	06-Dec-19	27-Dec-19	-1	0%	0%																									
4741	RDE_L1_Z01_FoH - Floor Sealer	4	27-Dec-19	31-Dec-19	28-Dec-19	02-Jan-20	-1	0%	0%																									
10116	RDE_L1_Z01_FoH - Glass Partition installation	26			18-Jan-20	25-Feb-20		0%	0%																									
4738	RDE_L1_Z01_FoH - All Other Finishes / Make Good & Clean	12	24-Dec-19	08-Jan-20	19-Feb-20	03-Mar-20	-40	0%	0%																									
<b>BoH Plant Rooms, Corridors, FS &amp; Service Lift Lobbies - RDE_L1_Z02</b>																																		
4713	RDE_L1_Z02_BoH - Wet Trades (plaster/screed/C&W_sealer/undercoat)	14	29-Mar-19	15-Apr-19	16-Nov-18 A	16-Nov-19	-179	100%	78%																									
4708	RDE_L1_Z02_BoH - MEP 2nd fix	32	25-Oct-19	14-Nov-19	01-Apr-19 A	07-Dec-19	-20	33.33%	74%																									
4709	RDE_L1_Z02_BoH - Door Frame & Plastering of Perimeter Edges	14	15-May-19	21-May-19	12-Aug-19 A	16-Nov-19	-149	100%	52%																									
4704	RDE_L1_Z02_BoH - Misc Metal Works / Access Panels	46	15-Nov-19	21-Nov-19	02-Sep-19 A	18-Jan-20	-48	0%	63%																									
4711	RDE_L1_Z02_BoH - Lobbies & Corr Close ceiling (board) incl. Cut-Outs	15	22-Nov-19	28-Nov-19	07-Oct-19 A	11-Dec-19	-11	0%	30%																									
4715	RDE_L1_Z02_BoH - MEP final fix	12	15-Nov-19	28-Nov-19	12-Dec-19	26-Dec-19	-23	0%	0%																									
4702	RDE_L1_Z02_BoH - Door / Ironmong / Hose Reel Cabs	8	15-Nov-19	23-Nov-19	16-Jan-20	24-Jan-20	-51	0%	0%																									
4703	RDE_L1_Z02_BoH - All Other Finishes / Make Good & Clean	12	27-Nov-19	10-Dec-19	18-Jan-20	08-Feb-20	-43	0%	0%																									
4714	RDE_L1_Z02_BoH - Wall epoxy/ emulsion paint final coat	3	29-Nov-19	02-Dec-19	20-Jan-20	22-Jan-20	-42	0%	0%																									
4712	RDE_L1_Z02_BoH - Floor sealer	2	02-Dec-19	03-Dec-19	22-Jan-20	23-Jan-20	-42	0%	0%																									
<b>Toilets - RDE_L1_Z03</b>																																		
4723	RDE_L1_Z03_Toilet - MEP 2nd fix	6	06-Mar-19	19-Mar-19	01-Apr-19 A	23-Nov-19	-207	100%	92%																									
4730	RDE_L1_Z03_Toilet - Cubicle partitions & sanitary ware & fittings	17	13-Apr-19	19-Apr-19	17-Jun-19 A	20-Nov-19	-178	100%	40%																									
4722	RDE_L1_Z03_Toilet - Seal Wall Opening	14	08-Dec-18	11-Dec-18	01-Aug-19 A	16-Nov-19	-277	100%	50%																									
4724	RDE_L1_Z03_Toilet - Door Frame	6	16-Feb-19	18-Feb-19	12-Aug-19 A	07-Nov-19	-218	100%	75%																									
4733	RDE_L1_Z03_Toilet - Ceiling finishes final coat	3	27-Mar-19	29-Mar-19	25-Nov-19	27-Nov-19	-201	100%	0%																									
4725	RDE_L1_Z03_Toilet - MEP final fix	6	24-Sep-19	30-Sep-19	06-Dec-19	12-Dec-19	-61	100%	0%																									
4718	RDE_L1_Z03_Toilet - Door / Ironmong	2	30-Sep-19	02-Oct-19	16-Jan-20	17-Jan-20	-89	100%	0%																									
4719	RDE_L1_Z03_Toilet - All Other Finishes / Make Good & Clean	1	03-Oct-19	10-Oct-19	03-Feb-20	03-Feb-20	-90	100%	0%																									
<b>Level 2</b>																																		
<b>ABWF &amp; MEP Works</b>																																		
<b>FoH Areas (RDE, Passenger Lift Lobbies &amp; Terrace) - RDE_L2_Z01</b>																																		
4780	RDE_L2_Z01_FoH - MEP 2nd fix	30	10-May-19	06-Jun-19	01-Apr-19 A	05-Dec-19	-151	100%	80%																									
4779a	RDE_L2_Z01_FoH - MEP 1st fix (Part 2) (after refuse chute closure)	18			01-Nov-19	21-Nov-19		0%	0%																									
4796	RDE_L2_Z01_FoH - Terrace Balustrade (base frame & glass)	30	27-Jun-19	04-Jul-19	18-Nov-19*	21-Dec-19	-143	100%	0%																									
4781	RDE_L2_Z01_FoH - MEP final fix	18	24-Sep-19	16-Oct-19	06-Dec-19	27-Dec-19	-61	100%	0%																									
4785	RDE_L2_Z01_FoH - Floor Sealer	4	17-Oct-19	22-Oct-19	28-Dec-19	03-Jan-20	-61	100%	0%																									
4782	RDE_L2_Z01_FoH - All Other Finishes / Make Good & Clean	12	15-Oct-19	29-Oct-19	13-Jan-20	03-Feb-20	-75	100%	0%																									
<b>BoH Plant Rooms, Corridors, FS &amp; Service Lift Lobbies - RDE_L2_Z02</b>																																		
4758	RDE_L2_Z02_BoH - Wet Trades (plaster/screed/C&W_sealer/undercoat)	14	18-Mar-19	02-Apr-19	19-Nov-18 A	16-Nov-19	-189	100%	78%																									
4753	RDE_L2_Z02_BoH - MEP 2nd fix	32	03-Jul-19	23-Jul-19	01-Apr-19 A	07-Dec-19	-115	100%	74%																									
4750	RDE_L2_Z02_BoH - Misc Metal Works / Access Panels	63	24-Jul-19	30-Jul-19	01-Aug-19 A	15-Jan-20	-140	100%	82%																									
4752	RDE_L2_Z02_BoH - Seal Wall Opening	22	03-Jul-19	09-Jul-19	01-Aug-19 A	26-Nov-19	-117	100%	85%																									
4754	RDE_L2_Z02_BoH - Door Frame & Plastering of Perimeter Edges	25	03-Jul-19	09-Jul-19	16-Sep-19 A	29-Nov-19	-120	100%	54%																									
4748	RDE_L2_Z02_BoH - Door / Ironmong / Hose Reel Cabs	35	24-Jul-19	01-Aug-19	23-Sep-19 A	11-Dec-19	-110	100%	10%																									
4756	RDE_L2_Z02_BoH - Lobbies & Corr Close ceiling (board) incl. Cut-Outs	15	24-Jul-19	01-Aug-19	23-Sep-19 A	11-Dec-19	-110	100%	30%																									
4760	RDE_L2_Z02_BoH - MEP final fix	12	30-Sep-19	15-Oct-19	09-Dec-19	21-Dec-																												







ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020														
										Qtr 4			Qtr 1			Qtr 2			Qtr 3					
										Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep			
4948	RDE_L7_Z02_BoH - MEP final fix	12	30-Oct-19	12-Nov-19	06-Dec-19	19-Dec-19	-32	16.67%	0%															
4947	RDE_L7_Z02_BoH - Wall epoxy/ emulsion paint final coat	3	10-Aug-19	13-Aug-19	11-Dec-19	13-Dec-19	-102	100%	0%															
4945	RDE_L7_Z02_BoH - Floor sealer	2	13-Aug-19	14-Aug-19	13-Dec-19	14-Dec-19	-102	100%	0%															
4937	RDE_L7_Z02_BoH - All Other Finishes / Make Good & Clean	7	06-Nov-19	19-Nov-19	18-Jan-20	03-Feb-20	-56	0%	0%															
<b>Toilets - RDE_L7_Z03</b>																								
4965	RDE_L7_Z03_Toilet - MEP 1st fix Ceiling	13	10-Jun-19	04-Jul-19	09-Sep-19 A	15-Nov-19	-112	100%	29%															
10004	RDE_L7_Z03_Toilet - Dry Wall Frame & One Side Board	12			06-Nov-19	19-Nov-19		0%	0%															
4958	RDE_L7_Z03_Toilet - Floor Screed	4	18-Feb-19	21-Feb-19	20-Nov-19	23-Nov-19	-229	100%	0%															
4956	RDE_L7_Z03_Toilet - Door Frame	2	05-Jul-19	06-Jul-19	25-Nov-19	26-Nov-19	-119	100%	0%															
4963	RDE_L7_Z03_Toilet - MEP 1st fix Dry Wall	8	14-Feb-19	22-Feb-19	25-Nov-19	03-Dec-19	-236	100%	0%															
10005	RDE_L7_Z03_Toilet - Dry Wall Closing Board	6			04-Dec-19	10-Dec-19		0%	0%															
4954	RDE_L7_Z03_Toilet - Seal Wall Opening	3	23-Feb-19	26-Feb-19	11-Dec-19	13-Dec-19	-242	100%	0%															
4960	RDE_L7_Z03_Toilet - Finishes Walls & Floor Tiling	10	12-Oct-19	23-Oct-19	11-Dec-19	21-Dec-19	-51	100%	0%															
4952	RDE_L7_Z03_Toilet - Ceiling Rods/ Grids	4	13-Jul-19	17-Jul-19	14-Dec-19	18-Dec-19	-129	100%	0%															
4955	RDE_L7_Z03_Toilet - MEP 2nd fix	12	18-Jul-19	31-Jul-19	19-Dec-19	03-Jan-20	-129	100%	0%															
4961	RDE_L7_Z03_Toilet - Cubicle partitions & sanitary ware & fittings	6	24-Oct-19	30-Oct-19	23-Dec-19	30-Dec-19	-51	100%	0%															
4950	RDE_L7_Z03_Toilet - Door / Ironmong	2	31-Oct-19	01-Nov-19	31-Dec-19	02-Jan-20	-51	50%	0%															
4953	RDE_L7_Z03_Toilet - Close ceiling (board) incl. Cut-Outs	7	01-Aug-19	08-Aug-19	04-Jan-20	11-Jan-20	-129	100%	0%															
4957	RDE_L7_Z03_Toilet - MEP final fix	6	24-Oct-19	30-Oct-19	13-Jan-20	18-Jan-20	-67	100%	0%															
4964	RDE_L7_Z03_Toilet - Ceiling finishes final coat	3	09-Aug-19	12-Aug-19	13-Jan-20	15-Jan-20	-129	100%	0%															
4951	RDE_L7_Z03_Toilet - All Other Finishes / Make Good & Clean	6	02-Nov-19	08-Nov-19	20-Jan-20	03-Feb-20	-65	0%	0%															
<b>Level 8</b>																								
<b>ABWF &amp; MEP Works</b>																								
<b>FoH Areas (Office/ OACF, Passenger Lift Lobbies &amp; Terrace) - RDE_L8_Z01</b>																								
5907	RDE_L8_Z01_FoH - MEP 1st fix (Part 1)	8	17-Jan-19	06-Mar-19	03-Jun-19 A	15-Nov-19	-211	100%	83%															
5911	RDE_L8_Z01_FoH - Ceiling/Wall/Columns Sealer	5	04-Jan-19	09-Jan-19	03-Jun-19 A	06-Nov-19	-245	100%	55%															
5912	RDE_L8_Z01_FoH - Wall/Columns Protection	6	10-Jan-19	16-Jan-19	10-Jun-19 A	08-Nov-19	-241	100%	55%															
5914	RDE_L8_Z01_FoH - Terrace Balustrade (base frame & glass)	44	03-Aug-19	09-Aug-19	05-Aug-19 A	21-Dec-19	-112	100%	70%															
5908	RDE_L8_Z01_FoH - MEP 2nd fix	37	06-Jul-19	02-Aug-19	09-Sep-19 A	13-Dec-19	-111	100%	18%															
5907a	RDE_L8_Z01_FoH - MEP 1st fix (Part 2)	18			16-Nov-19	06-Dec-19		0%	0%															
5909	RDE_L8_Z01_FoH - MEP final fix	18	24-Sep-19	16-Oct-19	14-Dec-19	06-Jan-20	-68	100%	0%															
5913	RDE_L8_Z01_FoH - Floor Sealer	4	17-Oct-19	22-Oct-19	07-Jan-20	11-Jan-20	-68	100%	0%															
5910	RDE_L8_Z01_FoH - All Other Finishes / Make Good & Clean	5	15-Oct-19	29-Oct-19	21-Jan-20	03-Feb-20	-75	100%	0%															
<b>BoH Plant Rooms, Corridors, FS Lift Lobby - RDE_L8_Z02</b>																								
4985	RDE_L8_Z02_BoH - Wet Trades (plaster/screed/C&W_sealer/undercoat)	14	15-Apr-19	30-Apr-19	02-May-19 A	16-Nov-19	-166	100%	68%															
4978	RDE_L8_Z02_BoH - MEP 1st fix	26	17-Jun-19	15-Jul-19	03-Jun-19 A	30-Nov-19	-116	100%	67%															
4980	RDE_L8_Z02_BoH - MEP 2nd fix	42	16-Jul-19	05-Aug-19	09-Sep-19 A	19-Dec-19	-114	100%	18%															
4981	RDE_L8_Z02_BoH - Door Frame & Plastering of Perimeter Edges	29	16-Jul-19	20-Jul-19	23-Sep-19 A	04-Dec-19	-114	100%	50%															
4979	RDE_L8_Z02_BoH - Seal Wall Opening	32	16-Jul-19	22-Jul-19	07-Oct-19 A	07-Dec-19	-116	100%	40%															
4977	RDE_L8_Z02_BoH - Misc Metal Works / Access Panels	63	06-Aug-19	12-Aug-19	08-Oct-19 A	15-Jan-20	-129	100%	50%															
4982	RDE_L8_Z02_BoH - Lobbies & Corr Ceiling Rods/ Grids	4	16-Jul-19	19-Jul-19	02-Dec-19	05-Dec-19	-116	100%	0%															
4975	RDE_L8_Z02_BoH - Door / Ironmong / Hose Reel Cabs	7	06-Aug-19	13-Aug-19	20-Dec-19	28-Dec-19	-114	100%	0%															
4983	RDE_L8_Z02_BoH - Lobbies & Corr Close ceiling (board) incl. Cut-Outs	4	06-Aug-19	09-Aug-19	20-Dec-19	24-Dec-19	-114	100%	0%															
4987	RDE_L8_Z02_BoH - MEP final fix	12	30-Oct-19	12-Nov-19	20-Dec-19	04-Jan-20	-44	16.67%	0%															
4986	RDE_L8_Z02_BoH - Wall epoxy/ emulsion paint final coat	3	10-Aug-19	13-Aug-19	26-Dec-19	28-Dec-19	-114	100%	0%															
4984	RDE_L8_Z02_BoH - Floor sealer	2	13-Aug-19	14-Aug-19	28-Dec-19	30-Dec-19	-114	100%	0%															
4976	RDE_L8_Z02_BoH - All Other Finishes / Make Good & Clean	12	06-Nov-19	19-Nov-19	13-Jan-20	03-Feb-20	-56	0%	0%															
<b>Toilets - RDE_L8_Z03</b>																								
5906	RDE_L8_Z03_Toilet - MEP 1st fix Ceiling	15	17-Jun-19	11-Jul-19	14-Oct-19 A	22-Nov-19	-112	100%	31%															
10006	RDE_L8_Z03_Toilet - Dry Wall Frame & One Side Board	12			16-Nov-19	29-Nov-19		0%	0%															
5904	RDE_L8_Z03_Toilet - MEP 1st fix Dry Wall	8	19-Apr-19	27-Apr-19	30-Nov-19	09-Dec-19	-187	100%	0%															
4998	RDE_L8_Z03_Toilet - Floor Screed	4	23-Apr-19	26-Apr-19	10-Dec-19	13-Dec-19	-192	100%	0%															
10007	RDE_L8_Z03_Toilet - Dry Wall Closing Board	6			10-Dec-19	16-Dec-19		0%	0%															
4995	RDE_L8_Z03_Toilet - Door Frame	2	12-Jul-19	13-Jul-19	14-Dec-19	16-Dec-19	-130	100%	0%															
4993	RDE_L8_Z03_Toilet - Seal Wall Opening	3	29-Apr-19	02-May-19	17-Dec-19	19-Dec-19	-193	100%	0%															
5901	RDE_L8_Z03_Toilet - Finishes Walls & Floor Tiling	10	02-Oct-19	14-Oct-19	17-Dec-19	28-Dec-19	-64	100%	0%															
4991	RDE_L8_Z03_Toilet - Ceiling Rods/ Grids	4	20-Jul-19	24-Jul-19	20-Dec-19	24-Dec-19	-128	100%	0%															
4994	RDE_L8_Z03_Toilet - MEP 2nd fix	12	25-Jul-19	07-Aug-19	26-Dec-19	09-Jan-20	-128	100%	0%															
5902	RDE_L8_Z03_Toilet - Cubicle partitions & sanitary ware & fittings	6	15-Oct-19	21-Oct-19	30-Dec-19	06-Jan-20	-64	100%	0%															
4989	RDE_L8_Z03_Toilet - Door / Ironmong	2	22-Oct-19	23-Oct-19	07-Jan-20	08-Jan-20	-64	100%	0%															
4992	RDE_L8_Z03_Toilet - Close ceiling (board) incl. Cut-Outs	7	08-Aug-19	09-Aug-19	10-Jan-20	17-Jan-20	-133	100%	0%															
4997	RDE_L8_Z03_Toilet - MEP final fix	6	15-Oct-19	21-Oct-19	18-Jan-20	24-Jan-20	-80	100%	0%															
5905	RDE_L8_Z03_Toilet - Ceiling finishes final coat	3	10-Aug-19	13-Aug-19	18-Jan-20	21-Jan-20	-133	100%	0%															
4990	RDE_L8_Z03_Toilet - All Other Finishes / Make Good & Clean	6	24-Oct-19	30-Oct-19	03-Feb-20	08-Feb-20	-78	100%	0%															
<b>Level 9</b>																								
<b>ABWF &amp; MEP Works</b>																								
<b>FoH Areas (Office/ OACF, Passenger Lift Lobbies &amp; Terrace) - RDE_L9_Z01</b>																								
5946	RDE_L9_Z01_FoH - MEP 1st fix (Part 1)	13	18-Feb-19	30-Mar-19	17-Jun-19 A	15-Nov-19	-190	100%	88%															
5950	RDE_L9_Z01_FoH - Ceiling/Wall/Columns Sealer	4	29-Jan-19	02-Feb-19	01-Jul-19 A	05-Nov-19	-223	100%	70%															
5953	RDE_L9_Z01_FoH - Terrace Balustrade (base frame & glass)	44	03-Aug-19	09-Aug-19	08-Jul-19 A	21-Dec-19	-112	100%	70%															
5951	RDE_L9_Z01_FoH - Wall/Columns Protection	6	11-Feb-19	16-Feb-19	01-Aug-19 A	08-Nov-19	-220	100%	65%															
5947	RDE_L9_Z01_FoH - MEP 2nd fix	37	06-Jul-19	02-Aug-19	14-Oct-19 A	13-Dec-19	-111	100%	14.01%															
5946a	RDE_L9_Z01_FoH - MEP 1st fix (Part 2)	18			16-Nov-19	06-Dec-19		0%	0%															
5948	RDE_L9_Z01_FoH - MEP final fix	18	24-Sep-19	16-Oct-19	14-Dec-19	06-Jan-20	-68	100%	0%															
5952	RDE_L9_Z01_FoH - Floor Sealer	4	17-Oct-19	22-Oct-19	07-Jan-20																			







ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020														
										2019			Qtr 1			Qtr 2			Qtr 3					
										Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep			
10017	RDE_L13_Z03_Toilet - Dry Wall Closing Board	6			14-Jan-20	20-Jan-20		0%	0%															
5190	RDE_L13_Z03_Toilet - Seal Wall Opening	3	20-Jun-19	22-Jun-19	21-Jan-20	23-Jan-20	-178	100%	0%															
5196	RDE_L13_Z03_Toilet - Finishes Walls & Floor Tiling	10	20-Sep-19	02-Oct-19	21-Jan-20	08-Feb-20	-101	100%	0%															
5188	RDE_L13_Z03_Toilet - Ceiling Rods/ Grids	4	27-Jul-19	31-Jul-19	24-Jan-20	05-Feb-20	-150	100%	0%															
5191	RDE_L13_Z03_Toilet - MEP 2nd fix	12	01-Aug-19	14-Aug-19	06-Feb-20	19-Feb-20	-150	100%	0%															
5197	RDE_L13_Z03_Toilet - Cubicle partitions & sanitary ware & fittings	6	03-Oct-19	10-Oct-19	10-Feb-20	15-Feb-20	-101	100%	0%															
5186	RDE_L13_Z03_Toilet - Door / Ironmong	2	11-Oct-19	12-Oct-19	17-Feb-20	18-Feb-20	-101	100%	0%															
5189	RDE_L13_Z03_Toilet - Close ceiling (board) incl. Cut-Outs	7	15-Aug-19	22-Aug-19	20-Feb-20	27-Feb-20	-150	100%	0%															
5193	RDE_L13_Z03_Toilet - MEP final fix	6	03-Oct-19	10-Oct-19	28-Feb-20	05-Mar-20	-117	100%	0%															
5201	RDE_L13_Z03_Toilet - Ceiling finishes final coat	3	23-Aug-19	26-Aug-19	28-Feb-20	02-Mar-20	-150	100%	0%															
5187	RDE_L13_Z03_Toilet - All Other Finishes / Make Good & Clean	6	14-Oct-19	19-Oct-19	06-Mar-20	12-Mar-20	-115	100%	0%															
<b>Level 14</b>																								
<b>Structural</b>																								
4471	RDE_L14_ST - 14F to 14.5F staircase ST-73 & ST-74	9	04-Jun-19	14-Jun-19	01-Nov-19	11-Nov-19	-124	100%	0%															
4472	RDE_L14_ST - 14.5F to 15F staircase ST-73 & ST-74	9	15-Jun-19	25-Jun-19	12-Nov-19	21-Nov-19	-124	100%	0%															
<b>ABWF &amp; MEP Works</b>																								
<b>FoH Areas (Offices, Passenger Lift Lobbies &amp; Terrace) - RDE_L14_Z01</b>																								
5242	RDE_L14_Z01_FoH - MEP 1st fix	12	06-Jul-19	16-Aug-19	16-Sep-19 A	29-Nov-19	-87	100%	3%															
5246	RDE_L14_Z01_FoH - Ceiling/Wall/Columns Sealer	5	22-Jun-19	27-Jun-19	04-Nov-19*	08-Nov-19	-111	100%	0%															
5247	RDE_L14_Z01_FoH - Wall/Columns Protection	6	28-Jun-19	05-Jul-19	09-Nov-19	15-Nov-19	-111	100%	0%															
5243	RDE_L14_Z01_FoH - MEP 2nd fix	7	11-Oct-19	07-Nov-19	12-Feb-20	19-Feb-20	-80	75%	0%															
5244	RDE_L14_Z01_FoH - MEP final fix	18	08-Nov-19	28-Nov-19	20-Feb-20	11-Mar-20	-80	0%	0%															
5249	RDE_L14_Z01_FoH - Terrace Balustrade (base frame & glass)	6	08-Nov-19	14-Nov-19	20-Feb-20	26-Feb-20	-80	0%	0%															
5245	RDE_L14_Z01_FoH - All Other Finishes / Make Good & Clean	12	27-Nov-19	11-Dec-19	10-Mar-20	24-Mar-20	-80	0%	0%															
5248	RDE_L14_Z01_FoH - Floor Sealer	4	29-Nov-19	04-Dec-19	12-Mar-20	17-Mar-20	-80	0%	0%															
<b>BoH Plant Rooms, Corridors, FS Lift Lobby - RDE_L14_Z02</b>																								
5222	RDE_L14_Z02_BoH - Wet Trades (plaster/screed/C&W_sealer/undercoat)	14	05-Aug-19	20-Aug-19	04-Nov-19*	19-Nov-19	-75	100%	0%															
5215	RDE_L14_Z02_BoH - MEP 1st fix	24	02-Sep-19	30-Sep-19	20-Nov-19	17-Dec-19	-65	100%	0%															
5217	RDE_L14_Z02_BoH - MEP 2nd fix	18	02-Oct-19	23-Oct-19	16-Dec-19	07-Jan-20	-63	100%	0%															
5216	RDE_L14_Z02_BoH - Seal Wall Opening	6	02-Oct-19	09-Oct-19	18-Dec-19	24-Dec-19	-65	100%	0%															
5218	RDE_L14_Z02_BoH - Door Frame & Plastering of Perimeter Edges	5	02-Oct-19	08-Oct-19	18-Dec-19	23-Dec-19	-65	100%	0%															
5219	RDE_L14_Z02_BoH - Lobbies & Corr Ceiling Rods/ Grids	4	02-Oct-19	05-Oct-19	18-Dec-19	21-Dec-19	-65	100%	0%															
5220	RDE_L14_Z02_BoH - Lobbies & Corr Close ceiling (board) incl. Cut-Outs	4	31-Oct-19	04-Nov-19	08-Jan-20	11-Jan-20	-57	25%	0%															
5224	RDE_L14_Z02_BoH - MEP final fix	12	04-Nov-19	16-Nov-19	08-Jan-20	21-Jan-20	-54	0%	0%															
5212	RDE_L14_Z02_BoH - Door / Ironmong / Hose Reel Cabs	7	24-Oct-19	31-Oct-19	13-Jan-20	20-Jan-20	-67	100%	0%															
5214	RDE_L14_Z02_BoH - Msc Metal Works / Access Panels	6	24-Oct-19	30-Oct-19	13-Jan-20	18-Jan-20	-67	100%	0%															
5223	RDE_L14_Z02_BoH - Wall epoxy/ emulsion paint final coat	3	05-Nov-19	07-Nov-19	13-Jan-20	15-Jan-20	-57	0%	0%															
5213	RDE_L14_Z02_BoH - All Other Finishes / Make Good & Clean	12	11-Nov-19	23-Nov-19	15-Jan-20	05-Feb-20	-54	0%	0%															
5221	RDE_L14_Z02_BoH - Floor sealer	2	07-Nov-19	08-Nov-19	15-Jan-20	16-Jan-20	-57	0%	0%															
<b>Toilets - RDE_L14_Z03</b>																								
5238	RDE_L14_Z03_Toilet - Conc kerbs, steel posts & block wall	11	22-Jun-19	05-Jul-19	04-Nov-19*	15-Nov-19	-111	100%	0%															
5235	RDE_L14_Z03_Toilet - W'proof/Testing & Protective Screed	7	05-Aug-19	12-Aug-19	12-Nov-19	19-Nov-19	-82	100%	0%															
5239	RDE_L14_Z03_Toilet - MEP 1st fix Block Wall	8	09-Aug-19	17-Aug-19	16-Nov-19	25-Nov-19	-82	100%	0%															
5234	RDE_L14_Z03_Toilet - Floor Screed	4	13-Aug-19	16-Aug-19	20-Nov-19	23-Nov-19	-82	100%	0%															
5241	RDE_L14_Z03_Toilet - MEP 1st fix Ceiling	21	02-Sep-19	26-Sep-19	25-Nov-19	18-Dec-19	-69	100%	0%															
5230	RDE_L14_Z03_Toilet - Seal Wall Opening	3	19-Aug-19	21-Aug-19	26-Nov-19	28-Nov-19	-82	100%	0%															
5232	RDE_L14_Z03_Toilet - Door Frame	2	27-Sep-19	28-Sep-19	19-Dec-19	20-Dec-19	-69	100%	0%															
5225	RDE_L14_Z03_Toilet - Wall Plastering (internal & external)	5	30-Sep-19	05-Oct-19	21-Dec-19	27-Dec-19	-69	100%	0%															
5228	RDE_L14_Z03_Toilet - Ceiling Rods/ Grids	4	08-Oct-19	11-Oct-19	28-Dec-19	02-Jan-20	-69	100%	0%															
5236	RDE_L14_Z03_Toilet - Finishes Walls & Floor Tiling	10	07-Nov-19	18-Nov-19	28-Dec-19	09-Jan-20	-43	0%	0%															
5231	RDE_L14_Z03_Toilet - MEP 2nd fix	12	12-Oct-19	25-Oct-19	03-Jan-20	16-Jan-20	-69	100%	0%															
5237	RDE_L14_Z03_Toilet - Cubicle partitions & sanitary ware & fittings	6	19-Nov-19	25-Nov-19	10-Jan-20	16-Jan-20	-43	0%	0%															
5226	RDE_L14_Z03_Toilet - Door / Ironmong	2	26-Nov-19	27-Nov-19	17-Jan-20	18-Jan-20	-43	0%	0%															
5229	RDE_L14_Z03_Toilet - Close ceiling (board) incl. Cut-Outs	7	26-Oct-19	02-Nov-19	17-Jan-20	18-Jan-20	-69	71.43%	0%															
5233	RDE_L14_Z03_Toilet - MEP final fix	6	19-Nov-19	25-Nov-19	03-Feb-20	08-Feb-20	-56	0%	0%															
5240	RDE_L14_Z03_Toilet - Ceiling finishes final coat	3	04-Nov-19	06-Nov-19	03-Feb-20	05-Feb-20	-69	0%	0%															
5227	RDE_L14_Z03_Toilet - All Other Finishes / Make Good & Clean	6	28-Nov-19	04-Dec-19	10-Feb-20	15-Feb-20	-54	0%	0%															
<b>Level 15</b>																								
<b>Structural</b>																								
4478	RDE_L15_ST - 15F to 15.5F staircase ST-73 & ST-74	9	23-Jul-19	01-Aug-19	22-Nov-19	02-Dec-19	-102	100%	0%															
4479	RDE_L15_ST - 15.5F to 15MF staircase ST-73 & ST-74	9	02-Aug-19	12-Aug-19	03-Dec-19	12-Dec-19	-102	100%	0%															
<b>ABWF &amp; MEP Works</b>																								
<b>FoH Areas (RDE/ Auction House, Passenger Lift Lobbies &amp; Terrace) - RDE_L15_Z01</b>																								
5286	RDE_L15_Z01_FoH - Ceiling/Wall/Columns Sealer	4	06-Aug-19	09-Aug-19	28-Nov-19	02-Dec-19	-95	100%	0%															
5287	RDE_L15_Z01_FoH - Wall/Columns Protection	6	10-Aug-19	16-Aug-19	03-Dec-19	09-Dec-19	-95	100%	0%															
5282	RDE_L15_Z01_FoH - MEP 1st fix	36	17-Aug-19	28-Sep-19	10-Dec-19	22-Jan-20	-95	100%	0%															
5358	RDE_L15_Z01_FoH - Dry Wall Frame & Board (one side)	17	19-Oct-19	07-Nov-19	08-Feb-20	27-Feb-20	-87	64.71%	0%															
5283	RDE_L15_Z01_FoH - MEP 2nd fix	24	19-Oct-19	15-Nov-19	11-Feb-20	09-Mar-20	-89	45.83%	0%															
5359	RDE_L15_Z01_FoH - Dry Wall MEP Services/Conduits (MEP 1st fix)	12	29-Oct-19	11-Nov-19	18-Feb-20	02-Mar-20	-87	25%	0%															
5360	RDE_L15_Z01_FoH - Close Dry Wall	12	12-Nov-19	25-Nov-19	03-Mar-20	16-Mar-20	-87	0%	0%															
5284	RDE_L15_Z01_FoH - MEP final fix	18	16-Nov-19	06-Dec-19	10-Mar-20	30-Mar-20	-89	0%	0%															
5289	RDE_L15_Z01_FoH - Terrace Balustrade (base frame & glass)	6	16-Nov-19	22-Nov-19	10-Mar-20	16-Mar-20	-89	0%	0%															
5329	RDE_L15_Z01_FoH - Terrace Timber flooring	6	23-Nov-19	29-Nov-19	17-Mar-20	23-Mar-20	-89	0%	0%															
9766	RDE_L15_Z01_FoH - Dry wall finishes (paint)	8	26-Nov-19	04-Dec-19	17-Mar-20	25-Mar-20	-87	0%	0%															
5285	RDE_L15_Z01_FoH - All Other Finishes / Make Good & Clean	12	05-Dec-19	1																				







ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020														
										2019			Qtr 1			Qtr 2			Qtr 3					
										Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep			
<b>ST-72</b>																								
4633	RDE_ST-72 - MEP 1st fix, 2nd fix	12	24-Dec-18	12-Feb-19	08-Apr-19 A	14-Nov-19	-229	100%	80%															
4638	RDE_ST-72 - All Other Finishes (DOOR) / Make Good & Clean	12	22-Mar-19	04-Apr-19	08-Nov-19	21-Nov-19	-191	100%	0%															
<b>ST-73</b>																								
4643	RDE_ST-73 - MEP 1st fix, 2nd fix	50	26-Aug-19	09-Oct-19	02-May-19 A	30-Dec-19	-69	100%	65%															
4642	RDE_ST-73 - Floor Screed	46	19-Aug-19	18-Sep-19	10-Jun-19 A	24-Dec-19	-81	100%	69.99%															
4645	RDE_ST-73 - Permanent Hand Rail	44	16-Oct-19	30-Oct-19	17-Jun-19 A	21-Dec-19	-45	100%	79.01%															
4646	RDE_ST-73 - Stair Nosing Tile	49	18-Oct-19	01-Nov-19	24-Jun-19 A	28-Dec-19	-48	92.31%	68.75%															
4648	RDE_ST-73 - All Other Finishes (DOOR) / Make Good & Clean	50	16-Nov-19	29-Nov-19	24-Jun-19 A	07-Jan-20	-31	0%	10%															
4641	RDE_ST-73 - Ceiling Dust Sealer	4	12-Aug-19	10-Sep-19	16-Sep-19 A	05-Nov-19	-45	100%	68.75%															
<b>ST-74</b>																								
4653	RDE_ST-74 - MEP 1st fix, 2nd fix	58	26-Aug-19	09-Oct-19	02-May-19 A	11-Jan-20	-79	100%	65%															
4652	RDE_ST-74 - Floor Screed	49	19-Aug-19	18-Sep-19	10-Jun-19 A	07-Jan-20	-91	100%	69.99%															
4655	RDE_ST-74 - Permanent Hand Rail	54	16-Oct-19	30-Oct-19	17-Jun-19 A	04-Jan-20	-55	100%	79.01%															
4656	RDE_ST-74 - Stair Nosing Tile	58	18-Oct-19	01-Nov-19	24-Jun-19 A	10-Jan-20	-58	92.31%	70%															
4658	RDE_ST-74 - All Other Finishes (DOOR) / Make Good & Clean	62	16-Nov-19	29-Nov-19	24-Jun-19 A	18-Jan-20	-41	0%	10%															
4651	RDE_ST-74 - Ceiling Dust Sealer	4	12-Aug-19	10-Sep-19	09-Sep-19 A	05-Nov-19	-45	100%	56.25%															
<b>Inter-Floor Stair L9 to L12</b>																								
4787	RDE_FoH - Inter-Floor Stair L9 to L12 - Installation Works	63	24-Nov-18	29-Nov-18	02-Jan-20	23-Mar-20	-387	100%	0%															
<b>Testing &amp; Commissioning</b>																								
<b>HVAC</b>																								
7645	RDE_MEP_Wild_Air - AHU SAT & LMCP SAT	26	20-Dec-19	21-Jan-20	19-Mar-20	18-Apr-20	-68	0%	0%															
7643	RDE_MEP_Wild_Air - Hydraulic Test (CWS/CWR) & Pipes Flushing w/ Water Sample	24	06-Jan-20	10-Feb-20	28-Mar-20	25-Apr-20	-64	0%	0%															
7646	RDE_MEP_Wild_Air - Start Up AHU @ Each Level	12	22-Jan-20	12-Feb-20	20-Apr-20	04-May-20	-68	0%	0%															
7647	RDE_MEP_Wild_Air - Air Flow Test	24	13-Feb-20	11-Mar-20	05-May-20	01-Jun-20	-68	0%	0%															
7648	RDE_MEP_Wild_Air - AHU Performance Test	12	12-Mar-20	25-Mar-20	02-Jun-20	15-Jun-20	-68	0%	0%															
7651	RDE_MEP_Wild_Air - Air System Balancing	36	26-Mar-20	27-Jun-20	16-Jun-20	29-Jul-20	-26	0%	0%															
<b>Electrical &amp; Controls</b>																								
2129	RDE_POW - Test FSD Lifts with Permanet Power	3	20-Jan-20	20-Jan-20	12-Feb-20	14-Feb-20	-16	0%	0%															
7660	RDE_POW - Power & Distribution Insulation/Polarity Checks	36	24-Dec-19	13-Feb-20	07-Apr-20	19-May-20	-80	0%	0%															
7662	RDE_POW - Power & Distribution Functional Components Test	36	09-Jan-20	27-Feb-20	21-Apr-20	02-Jun-20	-80	0%	0%															
7656	RDE_POW - Lighting & Control T&C	24	14-Feb-20	12-Mar-20	20-May-20	16-Jun-20	-80	0%	0%															
7659	RDE_POW - BMS Systems Test	24	14-Feb-20	12-Mar-20	20-May-20	16-Jun-20	-80	0%	0%															
7653	RDE_POW - UPS T&C	12	28-Feb-20	12-Mar-20	03-Jun-20	16-Jun-20	-80	0%	0%															
7657	RDE_POW - IT Systems Test	12	28-Feb-20	12-Mar-20	03-Jun-20	16-Jun-20	-80	0%	0%															
7658	RDE_POW - AV Systems Test	12	28-Feb-20	12-Mar-20	03-Jun-20	16-Jun-20	-80	0%	0%															
<b>Plumbing &amp; Drainage</b>																								
7649	RDE_P&D - Hydraulic Tests P&D	48	15-Nov-19	11-Jan-20	04-Mar-20	29-Apr-20	-85	0%	0%															
<b>Fire Services</b>																								
7650	RDE_FS - FS Hydraulic Test Pipe Works	36	29-Nov-19	11-Jan-20	26-Feb-20	08-Apr-20	-67	0%	0%															
7663	RDE_FS - FS Power & Controls Insulation/Continuity/Polarity Checks	36	24-Dec-19	13-Feb-20	30-Mar-20	12-May-20	-74	0%	0%															
7665	RDE_FS - Sprinkler System Test	24	16-Jan-20	20-Feb-20	09-Apr-20	07-May-20	-64	0%	0%															
7666	RDE_FS - AFA Devices Loop & Functional Test	24	23-Jan-20	27-Feb-20	21-Apr-20	19-May-20	-68	0%	0%															
7667	RDE_FS - Genset Test	12	07-Feb-20	20-Feb-20	28-Apr-20	12-May-20	-68	0%	0%															
<b>EXTERNAL WORKS</b>																								
<b>Construction</b>																								
<b>IPA - Portion 1</b>																								
4275	EXT_Port1 - EVA granite bett paving finishing (Defer start date to use as Temp Hau	24	01-Aug-19	28-Aug-19	02-Dec-19*	30-Dec-19	-102	100%	0%															
<b>IPA - Portion 4</b>																								
4299	EXT_Port4 - Fresh waterpipe final connection	12	19-Dec-18	19-Dec-18	27-May-19 A	14-Nov-19	-268	100%	84.98%															
4307	EXT_Port4 - EVA granite bett paving	24	01-Aug-19	28-Aug-19	16-Sep-19 A	28-Nov-19	-76	100%	10%															
<b>Along Buildings boundary</b>																								
4263	EXT_ABB - Gas Main (along RDE/CSF bldg)	18	02-Nov-19	02-Dec-19	09-Sep-19 A	21-Nov-19	9	0%	90%															
4268	EXT_ABB - Construct Drainage slot & outlet along footpath	36	22-Oct-19	02-Dec-19	08-Nov-19	19-Dec-19	-15	25%	0%															
4269	EXT_ABB - Reinstatement of footpath w/ U channel	36	03-Dec-19	15-Jan-20	20-Dec-19	10-Feb-20	-15	0%	0%															
4267	EXT_ABB - Construct new road Junct. w/ sprinkler pipes/FTNS	13	16-Aug-19	12-Sep-19	16-Sep-19 A	15-Nov-19	-52	100%	30%															
4266	EXT_ABB - Ext'l storm drainage (along M+ & Lyric Theatre)	12	11-Sep-19	25-Oct-19	16-Sep-19 A	14-Nov-19	-17	100%	20%															
4264	EXT_ABB - Pump cell modification (Elements cooling mains access & vent shaft)	8	31-Dec-18	21-Jan-19	16-Sep-19 A	09-Nov-19	-238	100%	60%															
4262	EXT_ABB - Soil filling & final formation	18	08-Mar-19	28-Mar-19	08-Oct-19 A	28-Nov-19	-203	100%	20%															
5003	EXT_ABB - (M+/1'-11+ & A-M+/6'-1 Lay granite bett paving	60	29-Aug-19	23-Nov-19	17-Oct-19 A	11-Jan-20	-40	72.22%	10%															
5001	EXT_ABB - A-M+/13+14+ Lay and compact sub-base	75	29-Mar-19	27-Jun-19	29-Nov-19	05-Mar-20	-203	100%	0%															
5002	EXT_ABB - A-M+/13+14+ Lay concrete planks	48	01-Nov-19	27-Dec-19	06-Mar-20*	02-May-20	-99	0%	0%															
<b>COMPLETION STATUTORY INSPECTIONS &amp; APPROVALS</b>																								
<b>Basement, Podium, M+ Tower &amp; CSF Building</b>																								
<b>CLP/HKE; EMSD</b>																								
1756	Lifts & Esc - EMSD Inspection	24	30-Nov-19	28-Dec-19	18-Feb-20	16-Mar-20	-59	0%	0%															
7427	Fireman's Lifts - EMSD Inspection	24	21-Sep-19	22-Oct-19	09-Dec-19	07-Jan-20	-65	100%	0%															
<b>DSD</b>																								
1167	Drainage - Last Manhole Connection	12	03-Dec-19	16-Dec-19	20-Dec-19	04-Jan-20	-15	0%	0%															
1168	Drainage - DSD Audit Checked	12	03-Dec-19	16-Dec-19	20-Dec-19	04-Jan-20	-15	0%	0%															
1169	Drainage - Inspection of Last Manhole	6	17-Dec-19	23-Dec-19	06-Jan-20	11-Jan-20	-15	0%	0%															
<b>WSD</b>																								
1172	Plumbing/Potable/Flushing Water - W.A. Inspection	6	15-Oct-19	21-Oct-19	13-Jan-20	18-Jan-20	-75	100%	0%															
1174	Plumbing/Potable/Flushing Water - Water Connection & Water Meter Installaiton	6	29-Oct-19	04-Nov-19	04-Feb-20	10-Feb-20	-75	50%	0%															
1190	Plumbing/Potable/Flushing Water - WSD Inspection	36	05-Nov-19	16-Dec-19	11-Feb-20	23-Mar-20	-75	0%	0%															
7454	FS Water - W.A. Inspection	6	26-Oct-19	01-Nov-19	20-Jan-20	03-Feb-20	-71	83.33%	0%															
7455	FS Water - Water Connection & Water Meter Installaiton	6	02-Nov-19	08-Nov-19	04-Feb-20	10-Feb-20	-71	0%	0%															
7455	FS Water - WSD Inspection	24	09-Nov-19	06-Dec-19	11-Feb-20	09-Mar-20	-71	0%	0%															
<b>FSD &amp; BD</b>																								
1164	DG - FSD Regional Office Inspection	12	16-Aug-19	29-Aug-19	07-Nov-19*	20-Nov-19	-68	100%	0%															
FSD2a	FSD - FSD MAIN Inspection/Re-Inspection/Remedial Works - CSF	18	19-Dec-19	10-Jan-20	18-Jan-20	15-Feb-20	-24	0%	0%															
FSD2	FSD - FSD MAIN Inspection/Re-Inspection/Remedial Works - BASEMENT & PODIU	36	20-Dec-19	23-Mar-20	24-Mar-20	06-May-20	-36	0%	0%															

# **Lyric Theatre Complex**

Activity ID	Activity Name	Start Date	Finish Date	2019		2020	
				Nov 23	Dec 24	Jan 25	Feb 26
<b>L1 Contract for Lyric Theatre Complex (3MRP)</b>							
<b>Cost Centre B - Excavation and Lateral Support (ELS) Stage 2</b>							
<b>Excavation and ELS Works (Stage 2)</b>							
CB162000	[North - Area 3 & 4] Excavate to Formation Level -9.6 mPD (46,575 cu.m)	18-Apr-19A	30-Oct-19A				
CB162100	[North - Area 3 & 4] Pile Head Treatment (52 nr BP)	09-May-19A	23-Nov-19A	■			
CB161020	[South - Area 1 & 2] Install 5th Layer of Strut S5	09-Jul-19A	23-Nov-19A	■			
CB161030	[South - Area 1 & 2] Excavate South / West Soil Berm to -12.4mPD (18,145 cu.m)	27-Nov-19A	02-Jan-20		■		
CB161060	[South - Area 1 & 2] Excavate East Soil Berm to -12.0mPD (9,750 cu.m)	12-Dec-19*	04-Jan-20		■		
CB161040	[South - Area 1 & 2] Pile Head Treatment at South / West (22 nr BP)	17-Dec-19	16-Jan-20		■		
CB161070	[South - Area 1 & 2] Install 6th Layer of Strut S6	19-Dec-19	11-Jan-20		■		
CB161100	[South - Area 1 & 2] Excavate East Berm to Formation Level -14.2mPD (4,750 cu.m)	06-Jan-20	29-Jan-20			■	
CB161200	[South - Area 1 & 2] Pile Head Treatment at East (14 nr BP)	16-Jan-20	08-Feb-20			■	
CB161210	[South/North] BA14 Completion of ELS - BD Submission & Acknowledgement	29-Jan-20	04-Feb-20				■
<b>Cost Centre C - Basement</b>							
<b>Cost Centre C1 - Essential Basement Structure (Excl. AET Protection &amp; Box Culvert)</b>							
CC102420	[Area 6 - L06] Construct B1-B1M Columns & Structural Walls	07-Dec-18A	04-Dec-19	■			
CC102430	[Area 6 - L06] Construct B1M Beam & Slab	14-Jan-19A	09-Dec-19	■			
CC100100	[South - L01] Blinding Layer for Pile Cap / B2 Slab at Central Portion	30-Apr-19A	31-Oct-19A				
CC100200	[South - L01] Construct Central Pile Cap / B2 Slab at -11.3mPD & -14.2mPD	09-May-19A	09-Nov-19A	■			
CC102510	[Area 6 - L06] Construct B1M-GF Columns & Structural Walls	13-May-19A	11-Dec-19	■			
CC101400	[North - L04] Blinding Layer for Pile Cap / B2 Slab	12-Jun-19A	23-Nov-19A	■			
CC101500	[North - L04] Construct Pile Cap / B2 Slab at -9.6mPD	22-Jun-19A	06-Dec-19	■			
CC100420	[South - L01] Construct Central B2-B1 Columns & Structural Walls	02-Oct-19A	31-Dec-19	■			
CC101700	[North - L04] Construct B2-B1 Columns & Structural Walls	07-Nov-19A	19-Feb-20	■			
CC101600	[North - L04] Remove Strut Layer S4	02-Dec-19	08-Jan-20		■		
CC100440	[South - L01] Construct Central B1 Beam & Slab	02-Dec-19	22-Jan-20		■		

■ Remaining Work  
■ Critical Remaining Work  
■ Actual Work  
◆ Milestone



Project ID: L13MRP-20191130  
 Layout: L1-3MRP (Env)  
 Page: 1 of 3

**West Kowloon Cultural District Authority**  
**L1 Contract for Lyric Theatre Complex & Extended Basement**  
**Three Month Rolling Programme (3MRP) - Status as of 30 Nov 2019**





Activity ID	Activity Name	Start Date	Finish Date	2019		2020	
				Nov	Dec	Jan	Feb
				23	24	25	26
CC102600	[Area 6 - L06] Modify Pile Wall for Connection M+ Basement	12-Dec-19	12-Feb-20				
CC102520	[Area 6 - L06] Construct GF Beam & Slab (South & Northeast)	12-Dec-19	12-Feb-20				
CC100510	[South - L01] Construct B1-B1M Central Columns & Structural Walls	02-Jan-20	22-Feb-20				
CC100210	[South - L01] Blinding Layer for Pile Cap / B2 Slab at South / West	06-Jan-20	29-Jan-20				
CC100220	[South - L01] Construct South / West Pile Cap / B2 Slab at -12.4mPD	08-Jan-20	19-Feb-20				
CC101780	[North - L04] Construct B1 Beam & Slab	13-Jan-20	11-Mar-20				
CC100520	[South - L01] Construct B1M Central Beam & Slab	23-Jan-20	14-Mar-20				
CC100290	[South - L01] Blinding Layer for Pile Cap / B2 Slab at East	03-Feb-20	15-Feb-20				
CC100300	[South - L01] Construct East Pile Cap / B2 Slab at -14.2mPD	05-Feb-20	07-Mar-20				
CC100560	[South - L01] Construct B1M-GF Central Columns & Structural Walls	24-Feb-20	16-Apr-20				
<b>Cost Centre D - Public Infrastructure Works (PIW)</b>							
<b>Cost Centre D2 - Austin Road West Lay-by</b>							
<b>Cost Centre D2.1 Roadworks and Remaining</b>							
<b>MC30-Ch.170 to MC30-Ch.150</b>							
CD210730	MC30-Ch170-150: Roadworks & Footpath	30-Jan-19A	03-Jan-20				
CD210750	MC30-Ch170-150: Install Street Furniture & Lighting	04-Jan-20	24-Jan-20				
<b>MC30-Ch.150 to MC30-Ch.100</b>							
CD210630	MC30-Ch150-100: Roadworks & Footpath	13-Feb-19A	16-Dec-19				
CD210650	MC30-Ch150-100: Install Street Furniture & Lighting	29-Jan-20	18-Feb-20				
<b>MC30-Ch.100 to MC30-Ch.50</b>							
CD210530	MC30-Ch100-50: Roadworks & Footpath	11-Jul-19A	10-Jan-20				
CD210535	MC30-Ch100-50: Maintenance Staircase	06-Jan-20	29-Jan-20				
CD210550	MC30-Ch100-50: Install Street Furniture & Lighting	19-Feb-20	10-Mar-20				
<b>MC30-Ch.50 to MC30-Ch.00</b>							
CD210420	MC30-Ch50-00: DN450 Freshwater (0+64 - 0+14)	14-Mar-19A	03-Jan-20				
CD210425	MC30-Ch50-00: DN450 Salt Water (0+062 - 0+12)	14-Mar-19A	03-Jan-20				
CD210430	MC30-Ch50-00: Roadworks & Footpath	13-Jan-20*	02-Mar-20				

 Remaining Work  Critical Remaining Work  Actual Work   Milestone	Project ID: L13MRP-20191130 Layout: L1-3MRP (Env) Page: 2 of 3	<p align="center"><b>West Kowloon Cultural District Authority</b>  <b>L1 Contract for Lyric Theatre Complex &amp; Extended Basement</b>  <b>Three Month Rolling Programme (3MRP) - Status as of 30 Nov 2019</b></p>	
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Activity ID	Activity Name	Start Date	Finish Date	2019		2020	
				Nov	Dec	Jan	Feb
				23	24	25	26
<b>MC20-Ch.140 to MC20-Ch.100</b>							
CD210310	MC20-Ch140-100: Road Drainage (WL1.12 to WL1.9)	06-Jun-19A	10-Jan-20				
CD210320	MC20-Ch140-100: DN450 Freshwater (0+14 - 0+00)	11-Jan-20	24-Jan-20				
CD210325	MC20-Ch140-100: DN450 Salt Water (0+12 - 0+00)	11-Jan-20	24-Jan-20				
<b>Cost Centre D2.2 Drainage</b>							
<b>MC20-Ch.140 to MC20-Ch.00</b>							
CD220190	MC20-Ch140-00: 1800mm dia Drainage (SF1.1 to SF1.1A) - 30m	02-Jul-19A	03-Jan-20				
<b>MC20-Ch.120 to MC20-Ch.100 (MH SF_1.1 to SF_1.1B)</b>							
CD201910	MC20-Ch140-00: 1800mm dia Drainage (SF1.1 to SF1.1B) - Trail Pit & Break Retaining Wall	06-Jul-19A	09-Dec-19				
CD201920	MC20-Ch140-00: 1800mm dia Drainage (SF1.1 to SF1.1B) - Sheet Pile	04-Dec-19	17-Dec-19				
CD201930	MC20-Ch140-00: 1800mm dia Drainage (SF1.1 to SF1.1B) - Excavation & ELS	14-Dec-19	07-Jan-20				
CD201940	MC20-Ch140-00: 1800mm dia Drainage (SF1.1 to SF1.1B) - Install Drainage Pipe	28-Dec-19	11-Jan-20				
CD201950	MC20-Ch140-00: 1800mm dia Drainage (SF1.1 to SF1.1B) - Construct Manhole	31-Dec-19	16-Jan-20*				

Remaining Work  
 Critical Remaining Work  
 Actual Work  
 Milestone

Project ID: L13MRP-20191130  
 Layout: L1-3MRP (Env)  
 Page: 3 of 3

**West Kowloon Cultural District Authority**  
**L1 Contract for Lyric Theatre Complex & Extended Basement**  
**Three Month Rolling Programme (3MRP) - Status as of 30 Nov 2019**



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



**Event****Action**

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

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

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

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

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



## E. Monitoring Schedule

# NOVEMBER 2019

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5 AM1, AM2B - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	6 L1 Landscape & Visual Inspection	7	8	9
10	11 AM1, AM2B - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	12 M+ Landscape & Visual Inspection	13	14	15 AM1, AM2B - 24hrTSP, 1hr TSP x3	16
17	18	19	20 L1 Landscape & Visual Inspection	21 AM1, AM2B - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	22	23
24	25	26 M+ Landscape & Visual Inspection	27 AM1, AM2B - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	28	29	30
		Notes: AM1 - International Commerce Centre (ICC) AM2B - 1st Floor of Gammon's Site Office NM1A - International Commerce Centre (ICC)				

# DECEMBER 2019

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<b>1</b>	<b>2</b>	<b>3</b> AM1, AM2B - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
<b>8</b>	<b>9</b> AM1, AM2B - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b> AM1, AM2B - 24hrTSP, 1hr TSP x3	<b>14</b>
<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b> AM1, AM2B - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	<b>19</b>	<b>20</b>	<b>21</b>
<b>22</b>	<b>23</b>	<b>24</b> AM1, AM2B - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>
<b>29</b>	<b>30</b> AM1, AM2B - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	<b>31</b>				
		<b>Notes:</b> 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 : 04/10/2019

Sampler

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

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454  
 Service Date : 25 February 2019  
 Slope (m) : 2.07076  
 Intercept (b) : -0.02917  
 Correlation Coefficient(r) : 1.00000

Standard Condition

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

Calibration Condition

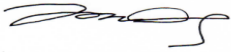
Pa (hpa) : 1014  
 Ta(K) : 300

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1   18 holes	10.2	3.185	1.552	60	59.83
2   13 holes	7.6	2.749	1.342	50	49.86
3   10 holes	6.0	2.443	1.194	40	39.89
4   7 holes	3.8	1.944	0.953	26	25.93
5   5 holes	2.4	1.545	0.760	16	15.95

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): 56.553                      Intercept(b): -27.312                      Correlation Coefficient(r): 0.9990

Checked by:   
 Magnum Fan

Date: 08/10/2019

High-Volume TSP Sampler  
5-Point Calibration Record

Location : AM2B (Gammon Office)  
 Calibrated by : K.T.Ho  
 Date : 20/09/2019

Sampler

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

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454  
 Service Date : 25 February 2019  
 Slope (m) : 2.07076  
 Intercept (b) : -0.02917  
 Correlation Coefficient(r) : 1.00000

Standard Condition

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

Calibration Condition

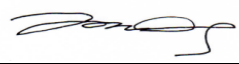
Pa (hpa) : 1005  
 Ta(K) : 303

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1   18 holes	12.2	3.450	1.680	60	59.27
2   13 holes	8.6	2.897	1.413	50	49.39
3   10 holes	6.0	2.420	1.183	40	39.51
4   7 holes	4.0	1.976	0.968	26	25.68
5   5 holes	2.6	1.593	0.783	18	17.78

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): 47.432      Intercept(b): -18.850      Correlation Coefficient(r): 0.9950

Checked by:   
 \_\_\_\_\_  
 Magnum Fan

Date: 22/09/2019



High-Volume TSP Sampler  
5-Point Calibration Record

Location : AM2B (Gammon Office)  
 Calibrated by : K.T.Ho  
 Date : 20/11/2019

Sampler

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

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454  
 Service Date : 25 February 2019  
 Slope (m) : 2.07076  
 Intercept (b) : -0.02917  
 Correlation Coefficient(r) : 1.00000

Standard Condition

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

Calibration Condition

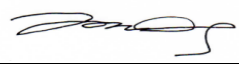
Pa (hpa) : 1023  
 Ta(K) : 292

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1   18 holes	12.6	3.604	1.754	62	62.94
2   13 holes	9.4	3.113	1.517	50	50.76
3   10 holes	7.2	2.724	1.330	40	40.61
4   7 holes	4.6	2.177	1.066	34	34.52
5   5 holes	3.0	1.758	0.863	22	22.33

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): 47.432      Intercept(b): -18.850      Correlation Coefficient(r): 0.9950

Checked by:   
 \_\_\_\_\_  
 Magnum Fan

Date: 23/11/2019



RECALIBRATION

DUE DATE:

February 25, 2020

# Certificate of Calibration

## Calibration Certification Information

Cal. Date: February 25, 2019      Rootsmeter S/N: 438320      Ta: 294      °K  
 Operator: Jim Tisch      Pa: 762.0      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	1.4400	3.2	2.00
2	3	4	1	1.0200	6.4	4.00
3	5	6	1	0.9120	7.9	5.00
4	7	8	1	0.8700	8.8	5.50
5	9	10	1	0.7180	12.8	8.00

## Data Tabulation

Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left( \frac{Pa}{Pstd} \right) \left( \frac{Tstd}{Ta} \right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H \left( \frac{Ta}{Pa} \right)}$ (y-axis)
1.0120	0.7028	1.4257	0.9958	0.6915	0.8784
1.0077	0.9880	2.0162	0.9916	0.9722	1.2423
1.0057	1.1028	2.2542	0.9896	1.0851	1.3889
1.0045	1.1546	2.3642	0.9885	1.1362	1.4567
0.9992	1.3916	2.8513	0.9832	1.3694	1.7569
<b>QSTD</b>	<b>m= 2.07076</b>		<b>QA</b>	<b>m= 1.29667</b>	
	<b>b= -0.02917</b>			<b>b= -0.01797</b>	
	<b>r= 1.00000</b>			<b>r= 1.00000</b>	

## Calculations

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

## Standard Conditions

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

## RECALIBRATION

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



## ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

### SUB-CONTRACTING REPORT

CONTACT	: MR K.W. FAN	WORK ORDER	: <b>HK1864495</b>
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	: 11-DEC-2018
		DATE OF ISSUE	: 28-DEC-2018
PROJECT	: ----	NO. OF SAMPLES	: 1
		CLIENT ORDER	: ----

#### General Comments

- Sample(s) were received in ambient condition.
- Sample(s) analysed and reported on as received basis.
- 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

General Manager

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 : HK1864495  
SUB-BATCH : 1  
CLIENT : ENVIROTECH SERVICES CO.  
PROJECT : ---



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK1864495-001	S/N: 235780	Equipments	11-Dec-2018	S/N: 235780

## Equipment Verification Report (TSP)

### Equipment Calibrated:

Type: Laser Dust monitor  
 Manufacturer: Sibata LD-3B  
 Serial No. 235780  
 Equipment Ref: Nil  
 Job Order HK1864495

### Standard Equipment:

Standard Equipment: Higher Volume Sampler  
 Location & Location ID: AUES office (calibration room)  
 Equipment Ref: HVS 018  
 Last Calibration Date: 21 September 2018

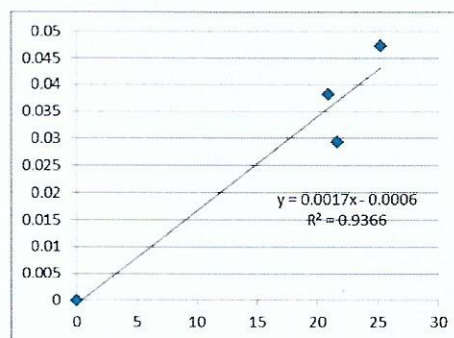
### Equipment Verification Results:

Testing Date: 17&18 December 2018

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in mg/m <sup>3</sup> (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
2hr03min	12:20 ~ 14:23	18.0	1022.2	0.038	2557	20.9
2hr14min	09:11 ~ 11:25	18.1	1022.2	0.029	2891	21.6
2hr14min	11:33 ~ 13:47	18.1	1022.2	0.047	3379	25.3

### Linear Regression of Y or X

Slope (K-factor): 0.0017  
 Correlation Coefficient 0.9678  
 Date of Issue 28 December 2018



### Remarks:

- Strong** Correlation ( $R > 0.8$ )
- Factor 0.0017 should be applied for TSP monitoring

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

Operator : Fai So Signature : *Fai So* Date : 28 December 2018

QC Reviewer : Ben Tam Signature : *Ben Tam* Date : 28 December 2018

# ALS Technichem (HK) Pty Ltd



## ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

### SUB-CONTRACTING REPORT

CONTACT	: MR K.W. FAN	WORK ORDER	: <b>HK1864496</b>
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	: 11-DEC-2018
		DATE OF ISSUE	: 28-DEC-2018
PROJECT	: ----	NO. OF SAMPLES	: 1
		CLIENT ORDER	: ----

#### General Comments

- Sample(s) were received in ambient condition.
- Sample(s) analysed and reported on as received basis.
- 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

General Manager

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](http://www.alsglobal.com)



WORK ORDER : HK1864496  
SUB-BATCH : 1  
CLIENT : ENVIROTECH SERVICES CO.  
PROJECT : ----



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK1864496-001	S/N: 627784	Equipments	11-Dec-2018	S/N: 627784

## Equipment Verification Report (TSP)

### Equipment Calibrated:

Type: Laser Dust monitor  
Manufacturer: Sibata LD-3B  
Serial No. 6Z7784  
Equipment Ref: Nil  
Job Order HK1864496

### Standard Equipment:

Standard Equipment: Higher Volume Sampler  
Location & Location ID: AUES office (calibration room)  
Equipment Ref: HVS 018  
Last Calibration Date: 21 September 2018

### Equipment Verification Results:

Testing Date: 17&18 December 2018

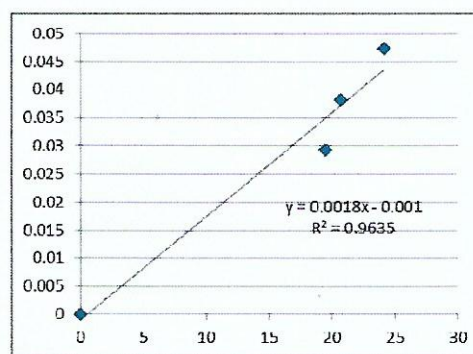
Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in mg/m <sup>3</sup> (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
2hr03min	12:20 ~ 14:23	18.0	1022.2	0.038	2533	20.7
2hr14min	09:11 ~ 11:25	18.1	1022.2	0.029	2601	19.4
2hr14min	11:33 ~ 13:47	18.1	1022.2	0.047	3232	24.2


### Linear Regression of Y or X


Slope (K-factor): 0.0018  
Correlation Coefficient 0.9816  
Date of Issue 28 December 2018

### Remarks:

1. **Strong** Correlation ( $R > 0.8$ )
  2. Factor 0.0018 should be applied for TSP monitoring
- \*If  $R < 0.5$ , repair or re-verification is required for the equipment



Operator: Fai So Signature:  Date: 28 December 2018

QC Reviewer: Ben Tam Signature:  Date: 28 December 2018

# 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.

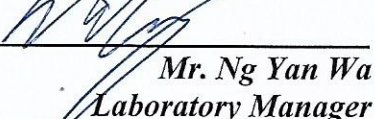
The test equipment used for calibration are traceable to National Standards via:

- 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

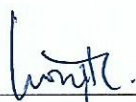
DATE OF TEST / 測試日期 : 26 May 2019

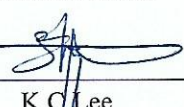
## TEST RESULTS / 測試結果

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.	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.

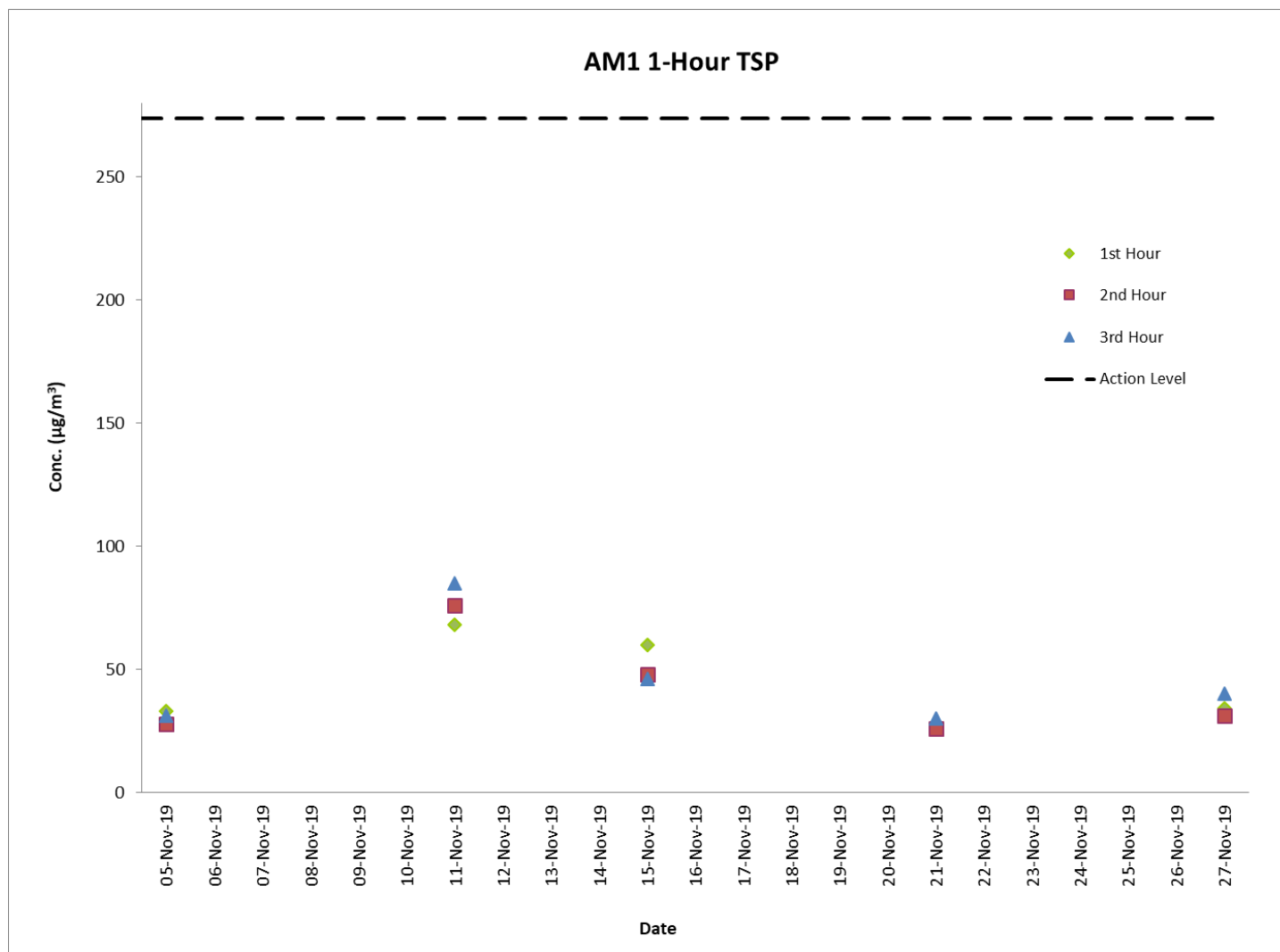
## G. Graphical Plots of the Monitoring Results



**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 <sup>st</sup> Hour	2 <sup>nd</sup> Hour	3 <sup>rd</sup> Hour		
05-Nov-19	Sunny	13:20	-	16:20	33	28	31	273.7	500
11-Nov-19	Sunny	8:12	-	11:12	68	76	85	273.7	500
15-Nov-19	Sunny	13:22	-	16:22	60	48	46	273.7	500
21-Nov-19	Sunny	13:18	-	16:18	28	26	30	273.7	500
27-Nov-19	Sunny	8:18	-	11:18	34	31	40	273.7	500

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

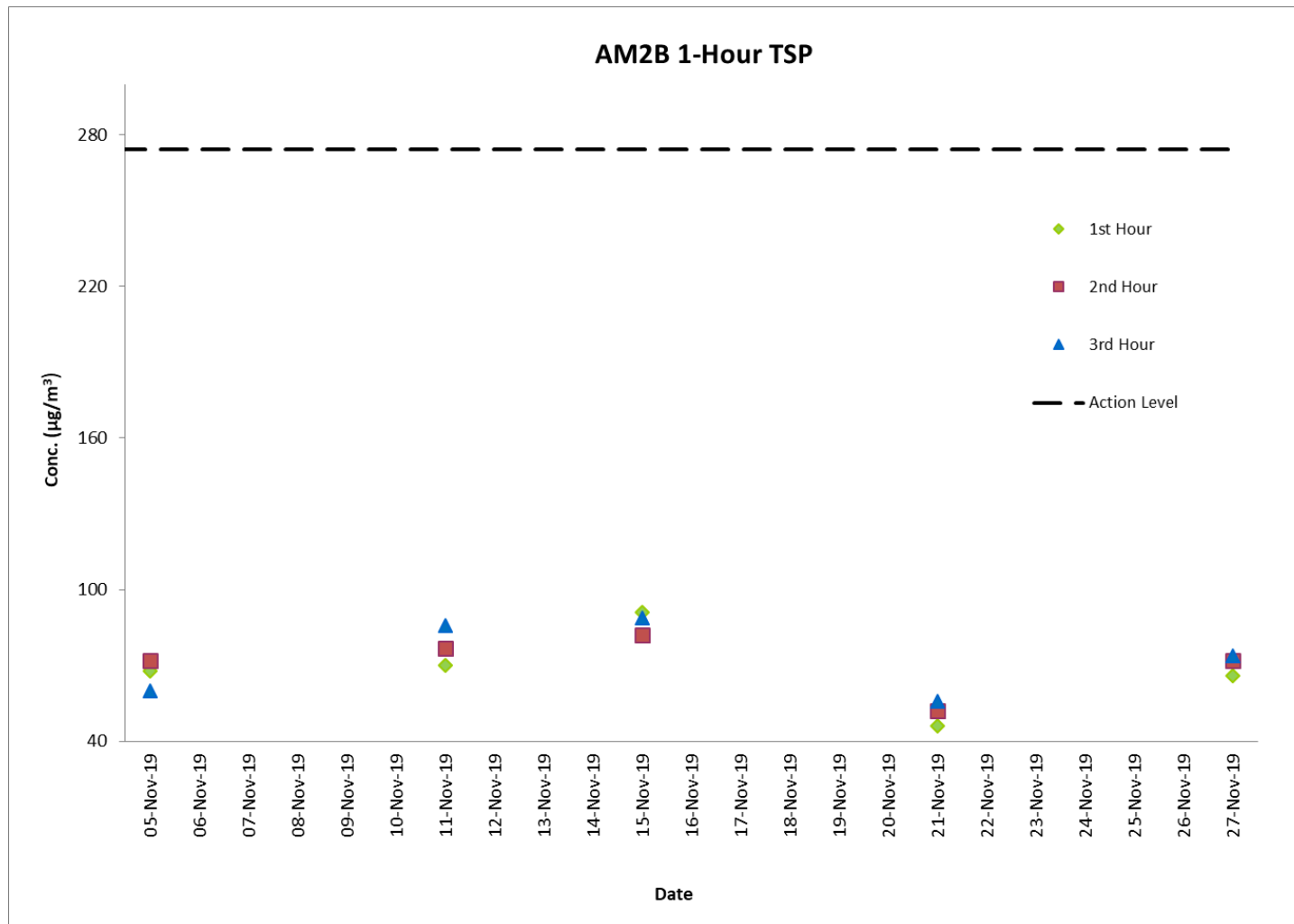


**Air Quality Monitoring Result at Station AM2B (1-hour TSP)**

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 <sup>st</sup> Hour	2 <sup>nd</sup> Hour	3 <sup>rd</sup> Hour		
05-Nov-19	Sunny	13:29	-	16:29	68	72	60	274.2	500
11-Nov-19	Sunny	8:26	-	11:26	70	77	86	274.2	500
15-Nov-19	Sunny	13:36	-	16:36	91	82	89	274.2	500
21-Nov-19	Sunny	13:32	-	16:32	46	52	56	274.2	500
27-Nov-19	Sunny	8:32	-	11:32	66	72	74	274.2	500



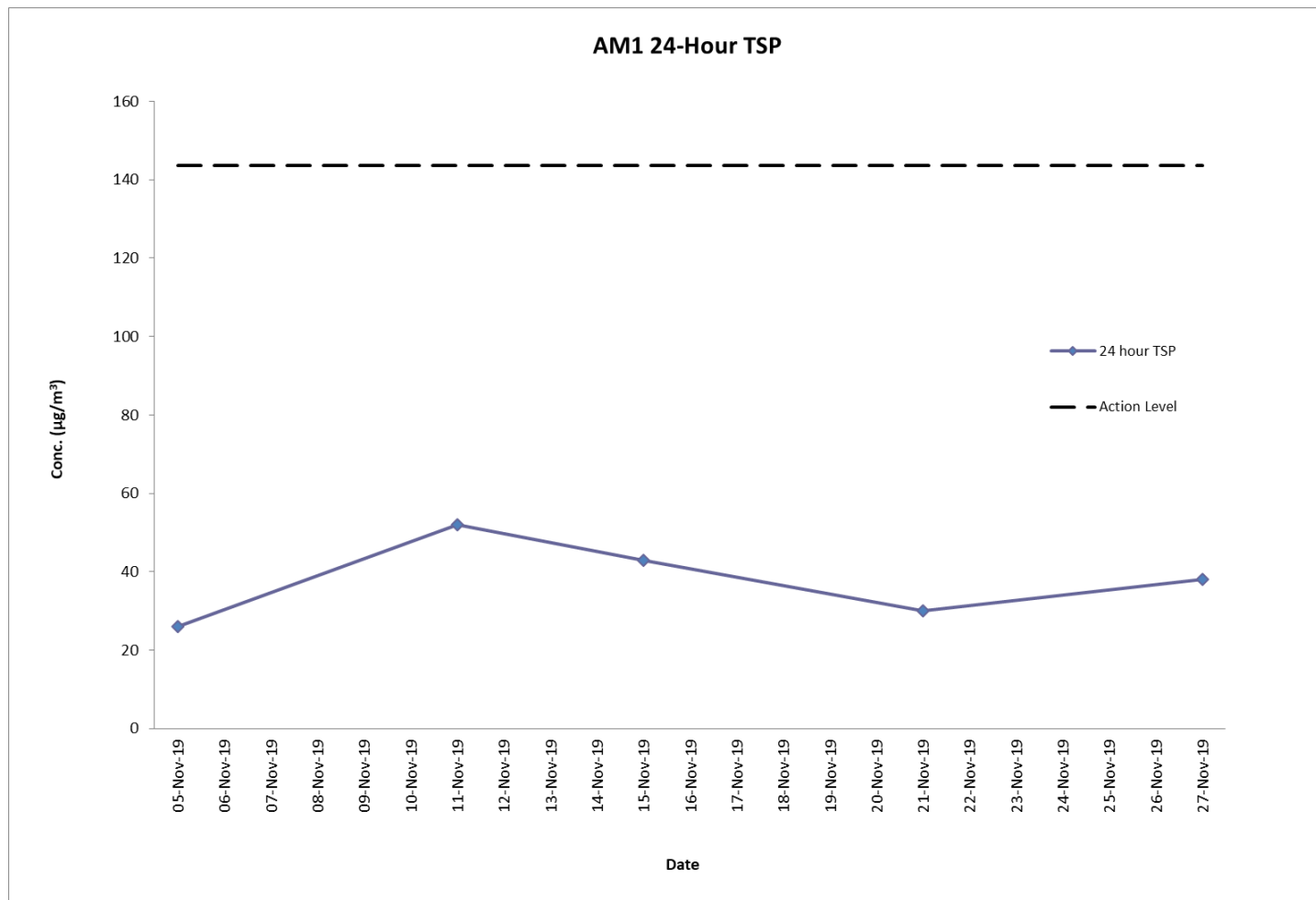
### Graphical Presentation of Air Quality Monitoring Result at Station AM2B (1-hour TSP)



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

Start		Finish		Filter Weight (g)		Elapsed Time Reading (hrs)		Sampling Time (hrs)	Flow Rate (m <sup>3</sup> /min)			Conc. (µg/m <sup>3</sup> )	Weather Condition	Action Level (µg/m <sup>3</sup> )	Limit Level (µg/m <sup>3</sup> )
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
05-Nov-19	8:18	06-Nov-19	8:18	2.7198	2.7652	20960.38	20984.38	24	1.23	1.23	1.23	26	Sunny	143.6	260
11-Nov-19	8:10	12-Nov-19	8:10	2.7024	2.7949	20984.38	21008.38	24	1.23	1.23	1.23	52	Sunny	143.6	260
15-Nov-19	8:20	16-Nov-19	8:20	2.7003	2.7763	21008.38	21032.38	24	1.23	1.23	1.23	43	Sunny	143.6	260
21-Nov-19	8:16	22-Nov-19	8:16	2.7026	2.7556	21032.38	21056.38	24	1.23	1.23	1.23	30	Sunny	143.6	260
27-Nov-19	8:16	28-Nov-19	8:16	2.7056	2.7725	21056.38	21080.38	24	1.23	1.23	1.23	38	Sunny	143.6	260

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

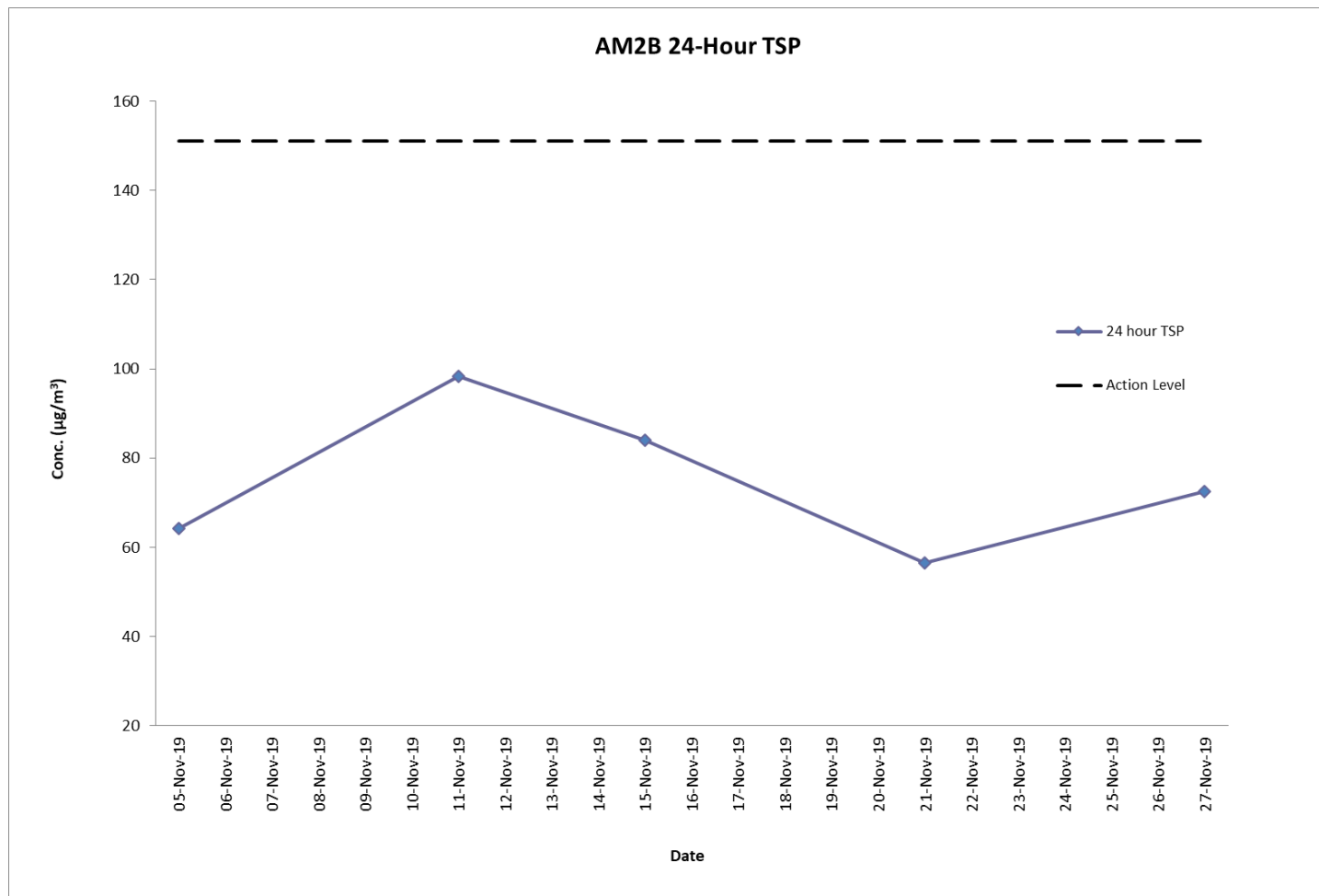




**Air Quality Monitoring Result at Station AM2B (24-hour TSP)**

Start		Finish		Filter Weight (g)		Elapsed Time Reading (hrs)		Sampling Time (hrs)	Flow Rate (m <sup>3</sup> /min)			Conc. (µg/m <sup>3</sup> )	Weather Condition	Action Level (µg/m <sup>3</sup> )	Limit Level (µg/m <sup>3</sup> )
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
05-Nov-19	8:27	06-Nov-19	8:27	2.6875	2.8060	20515.05	20539.05	24	1.28	1.28	1.28	64	Sunny	151.1	260
11-Nov-19	8:24	12-Nov-19	8:24	2.7256	2.9070	20539.05	20563.05	24	1.28	1.28	1.28	98	Fine	151.1	260
15-Nov-19	8:34	16-Nov-19	8:34	2.7047	2.8597	20563.05	20587.05	24	1.28	1.28	1.28	84	Cloudy	151.1	260
21-Nov-19	8:30	22-Nov-19	8:30	2.6917	2.7957	20587.05	20611.05	24	1.28	1.28	1.28	56	Fine	151.1	260
27-Nov-19	8:30	28-Nov-19	8:30	2.7040	2.8378	20611.05	20635.05	24	1.28	1.28	1.28	73	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 <sub>10</sub> , dB(A)	Measured L <sub>90</sub> , dB(A)	L <sub>eq</sub> (30 min.)*, dB(A)
05-Nov-19	10:35	67.9	63.4	69
05-Nov-19	10:40	66.2	62.1	
05-Nov-19	10:45	66.9	62.8	
05-Nov-19	10:50	68.4	64.0	
05-Nov-19	10:55	67.0	63.2	
05-Nov-19	11:00	68.1	64.7	
11-Nov-19	10:35	67.4	63.1	69
11-Nov-19	10:40	68.0	64.2	
11-Nov-19	10:45	69.2	65.7	
11-Nov-19	10:50	68.3	64.7	
11-Nov-19	10:55	66.7	62.2	
11-Nov-19	11:00	67.9	63.9	
21-Nov-19	10:36	67.4	63.9	69
21-Nov-19	10:41	69.0	65.4	
21-Nov-19	10:46	68.7	64.1	
21-Nov-19	10:51	66.4	62.7	
21-Nov-19	10:56	68.1	64.5	
21-Nov-19	11:01	67.9	63.9	
27-Nov-19	10:27	68.1	64.1	69
27-Nov-19	10:32	67.1	63.5	
27-Nov-19	10:37	66.2	62.7	
27-Nov-19	10:42	67.5	63.4	
27-Nov-19	10:47	66.4	62.8	
27-Nov-19	10:52	67.9	63.9	

**Remarks:**

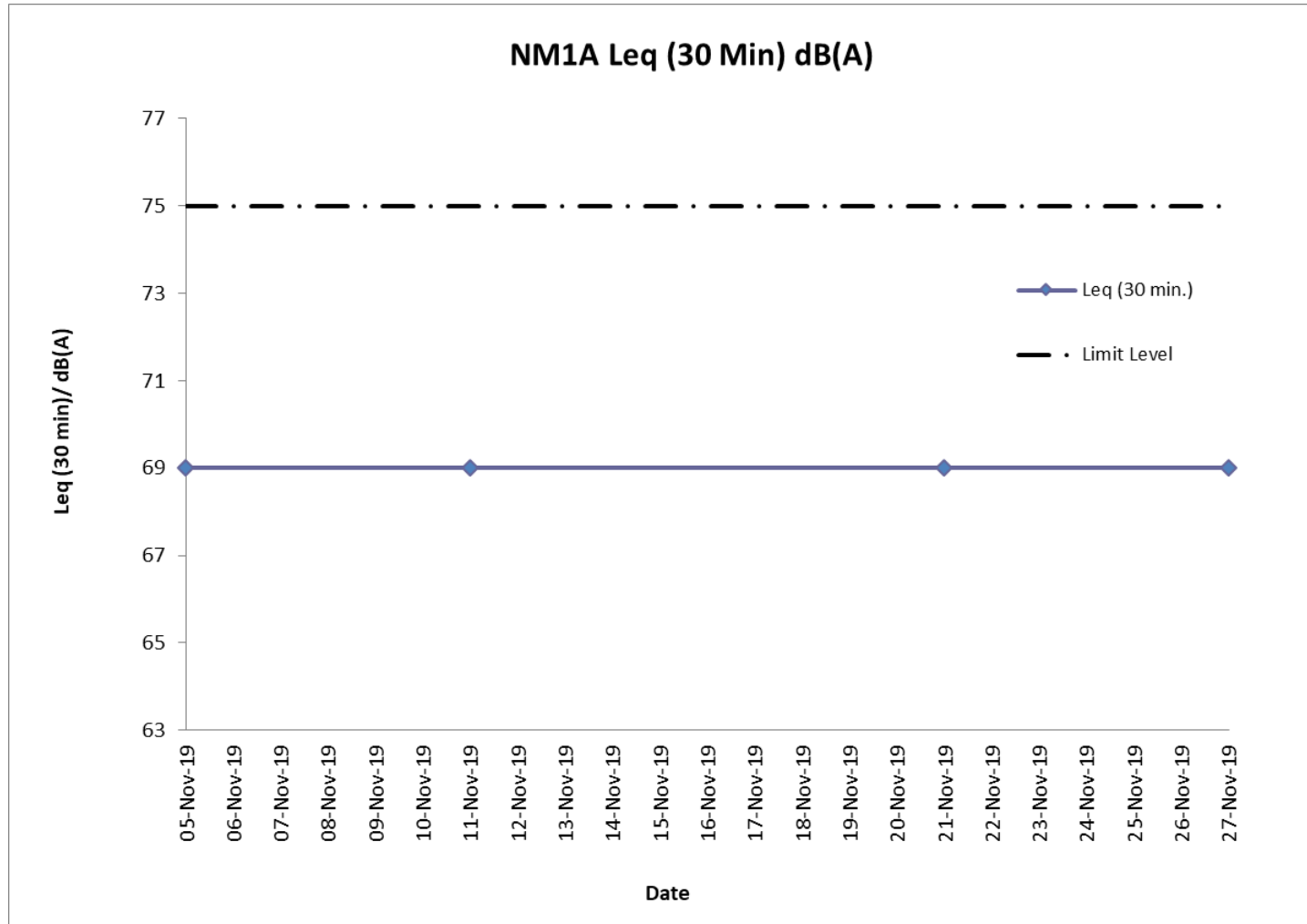
\* +3dB (A) correction was applied to free-field measurement.



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



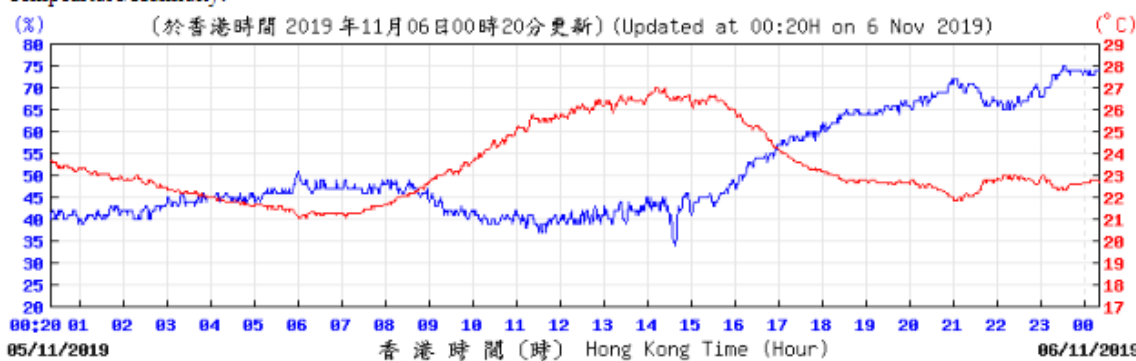
### Graphical Presentation Noise Monitoring Result at Station NM1A



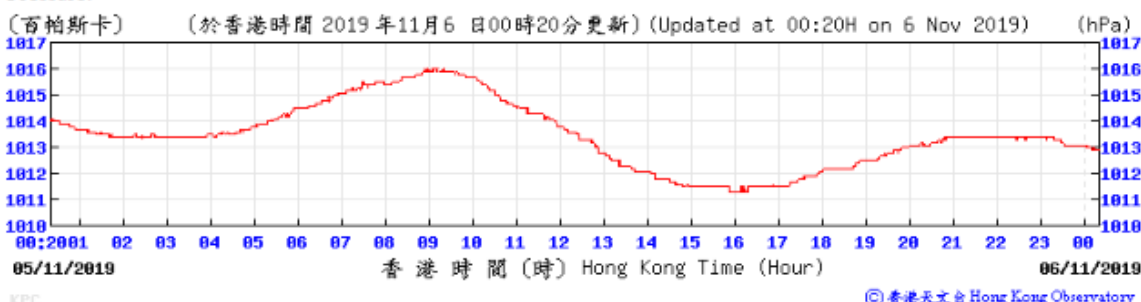
## **H. Meteorological Data Extracted from Hong Kong Observatory**

Extract of Meteorological Observations for King's Park Automatic Weather Station, November 2019

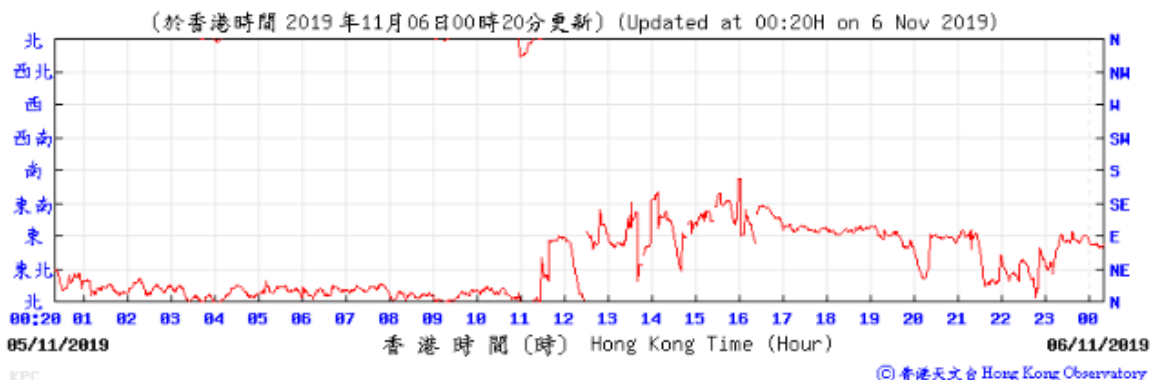
Temperature/Humidity:



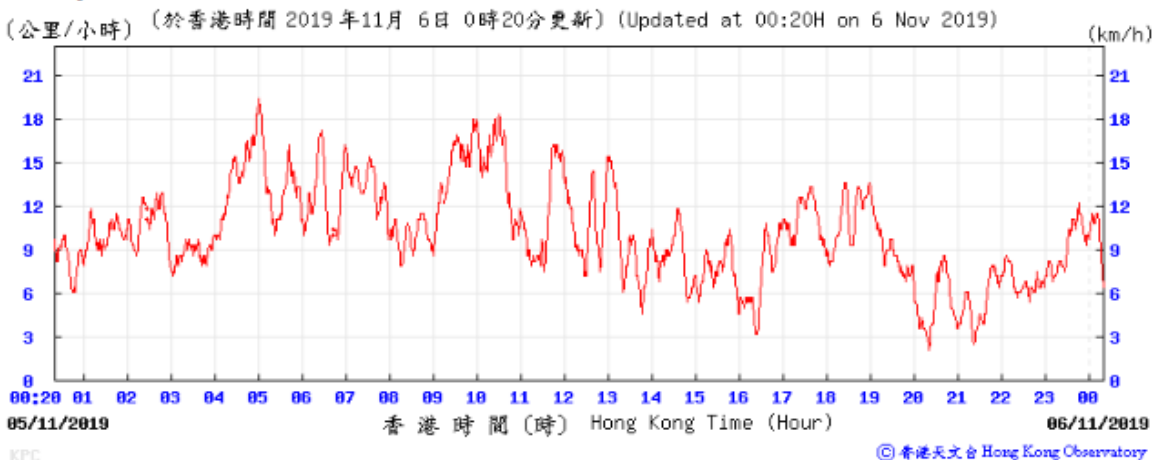
Pressure:



Wind Direction:

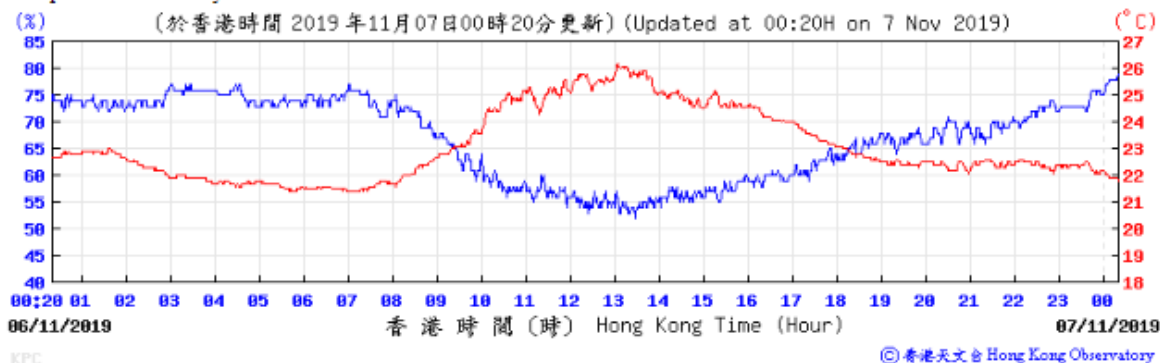


Wind Speed:

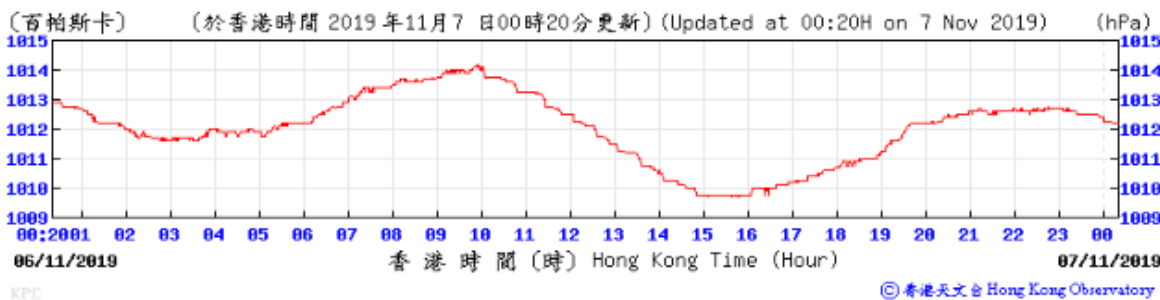




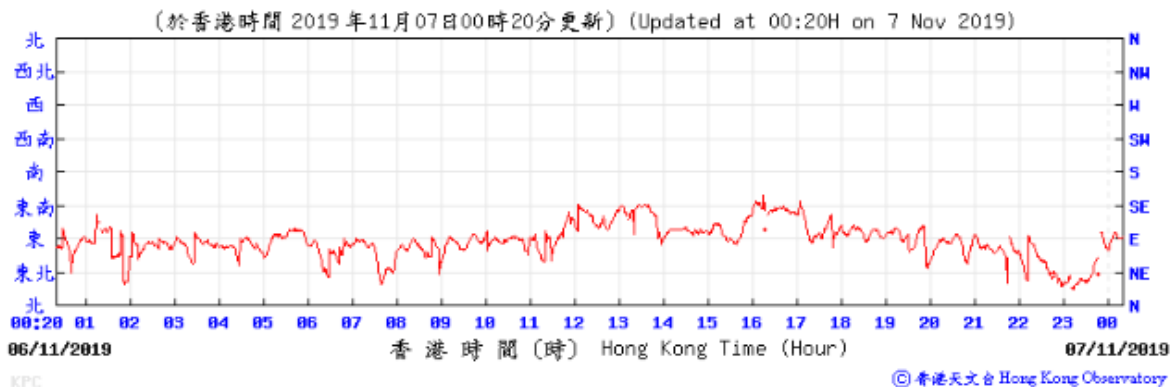
Temperature Humidity:



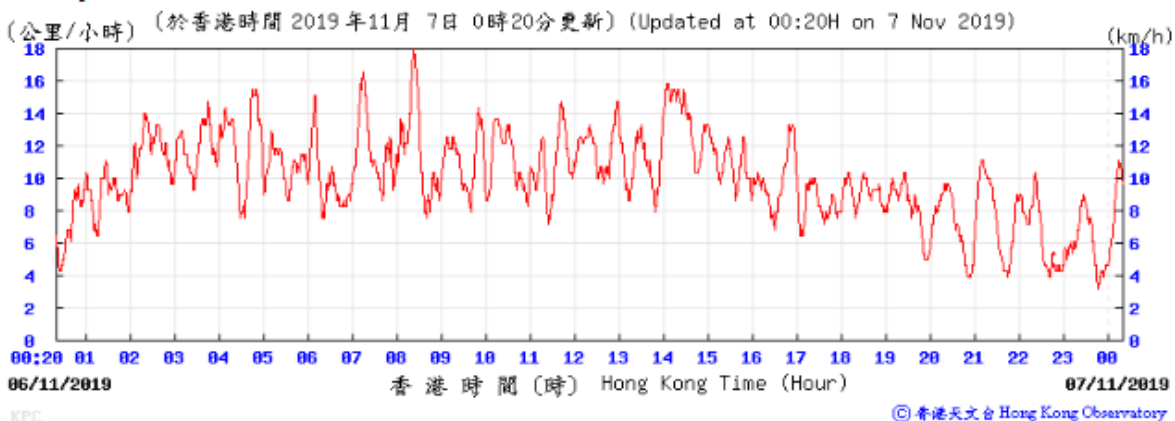
Pressure:



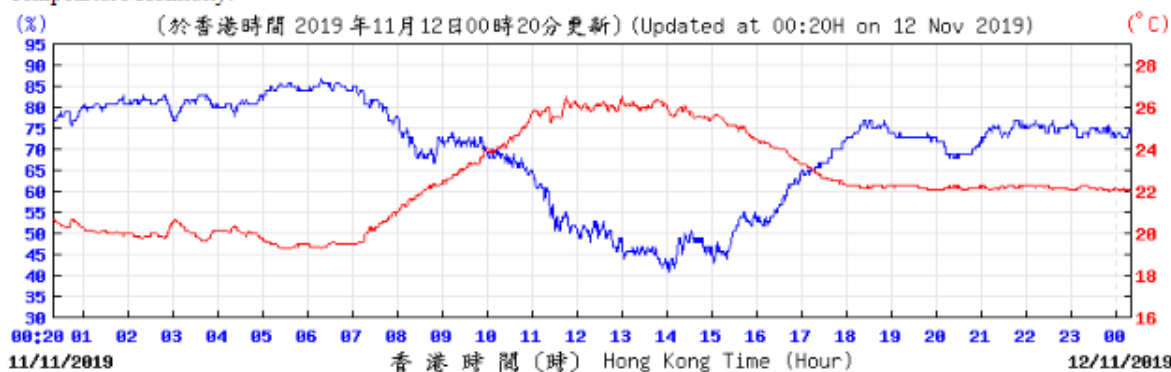
Wind Direction:



Wind Speed:

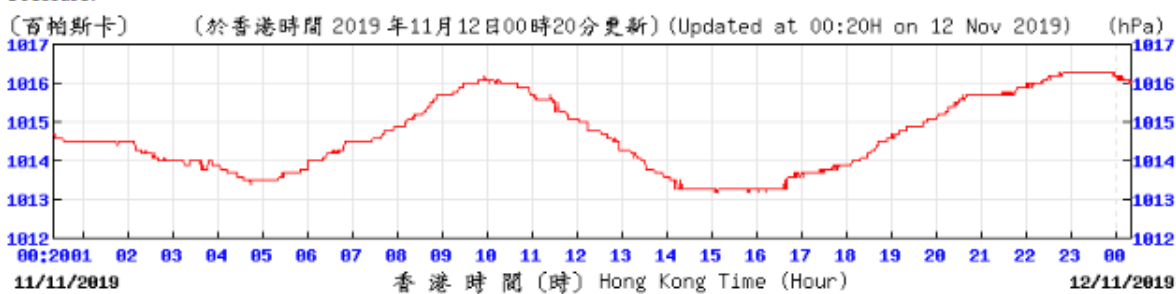


Temperature/Humidity:



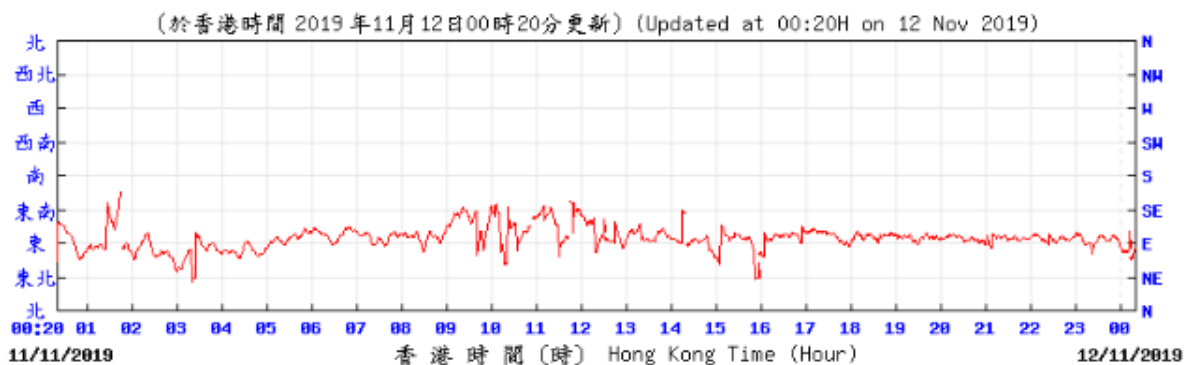
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Pressure:



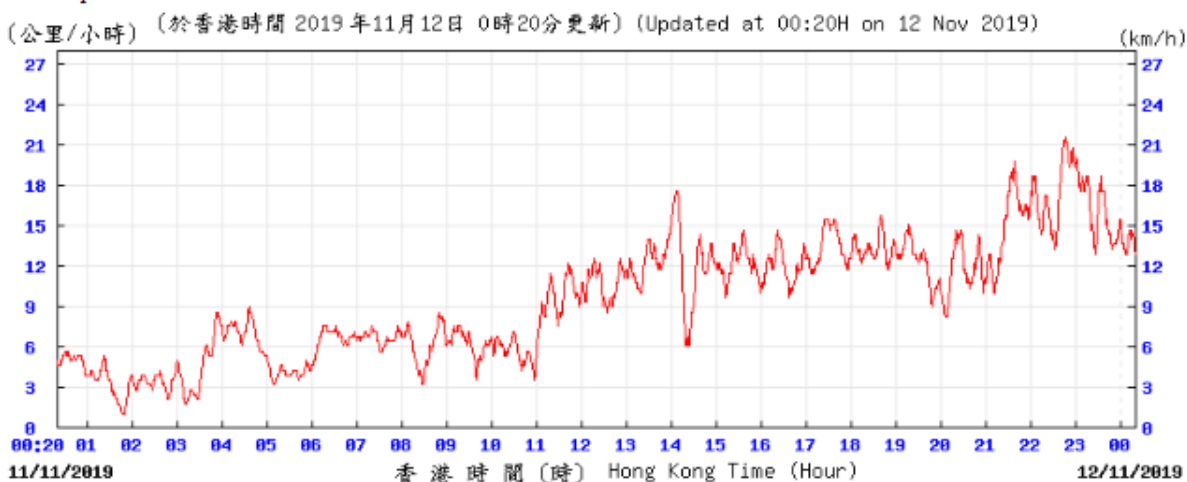
© 香港天文台 Hong Kong Observatory

Wind Direction:



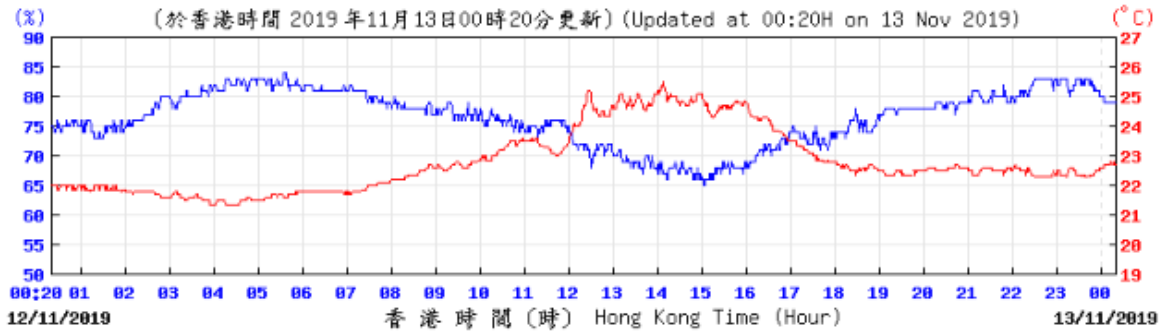
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Wind Speed:



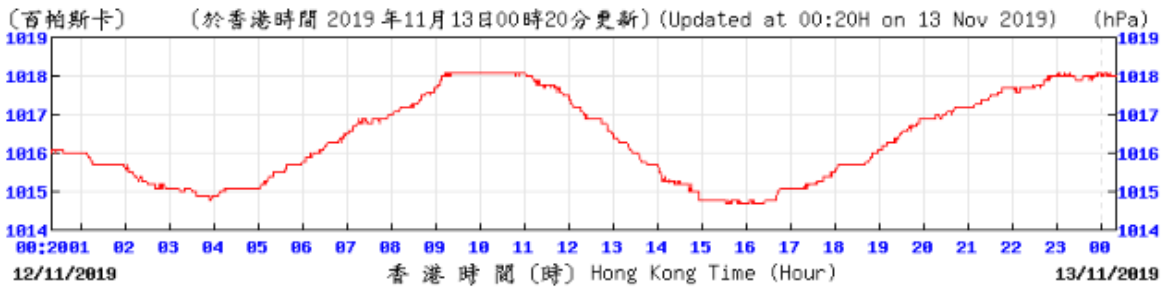
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Temperature/Humidity:



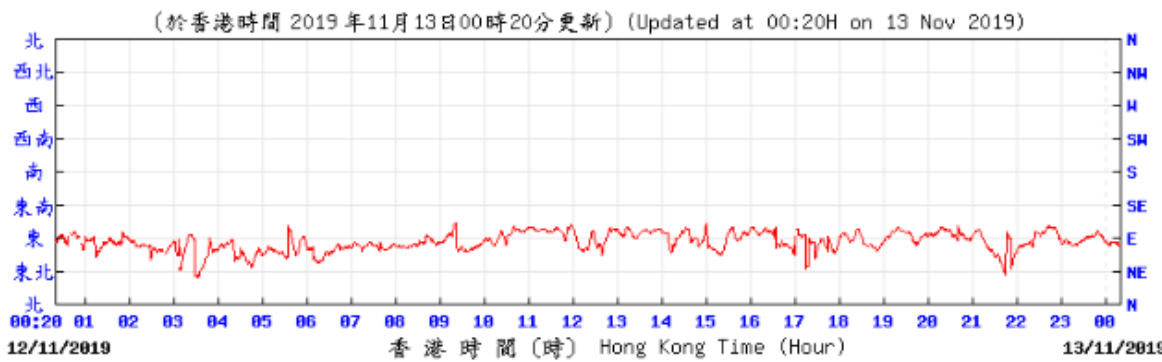
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Pressure:



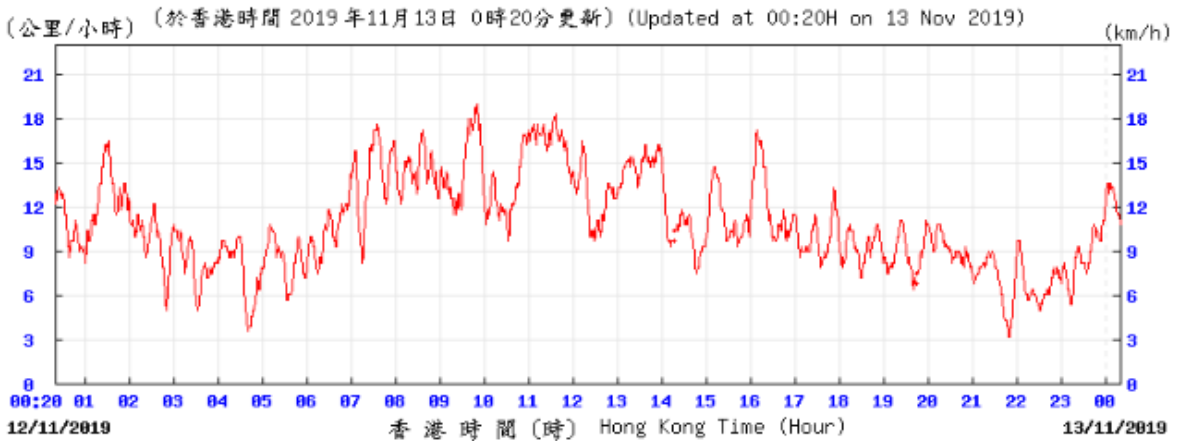
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Wind Direction:



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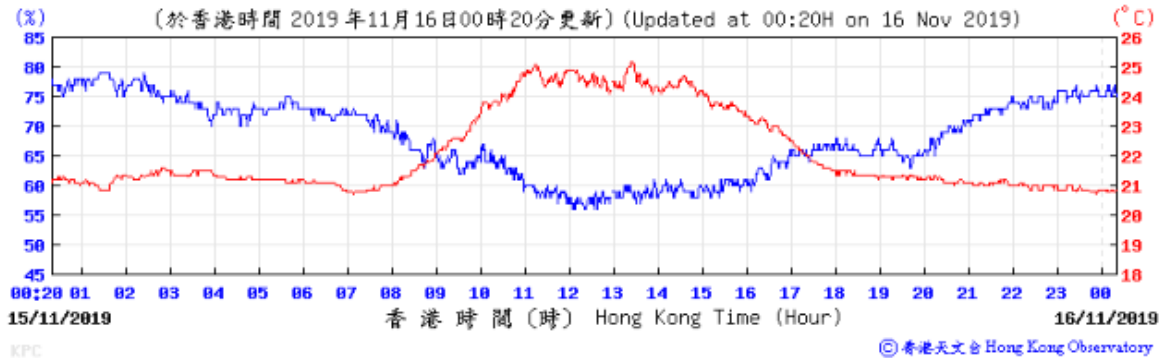
Wind Speed:



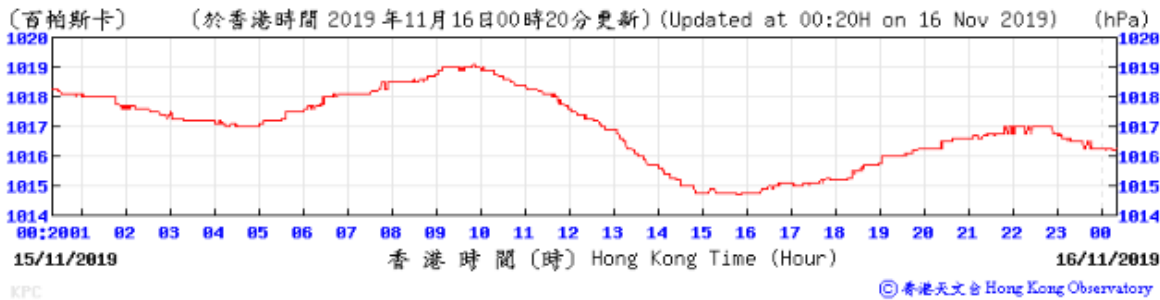
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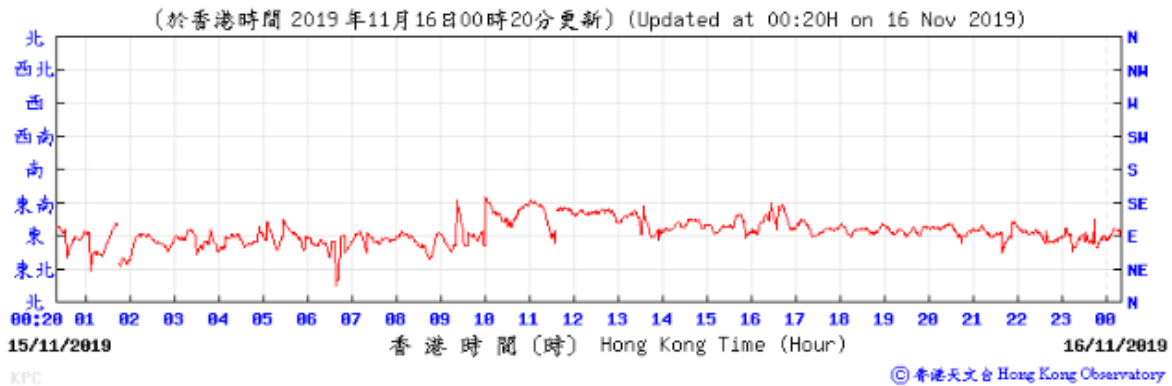
Temperature/Humidity:



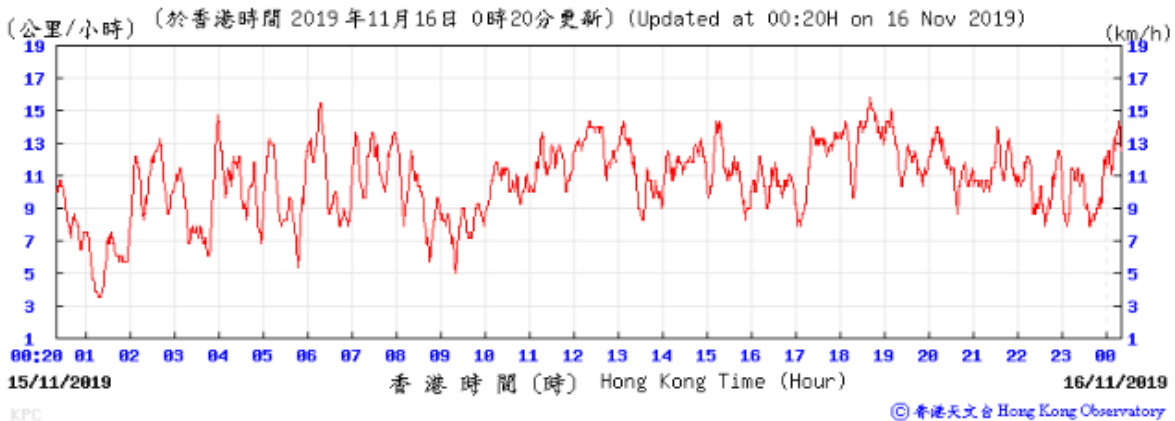
Pressure:



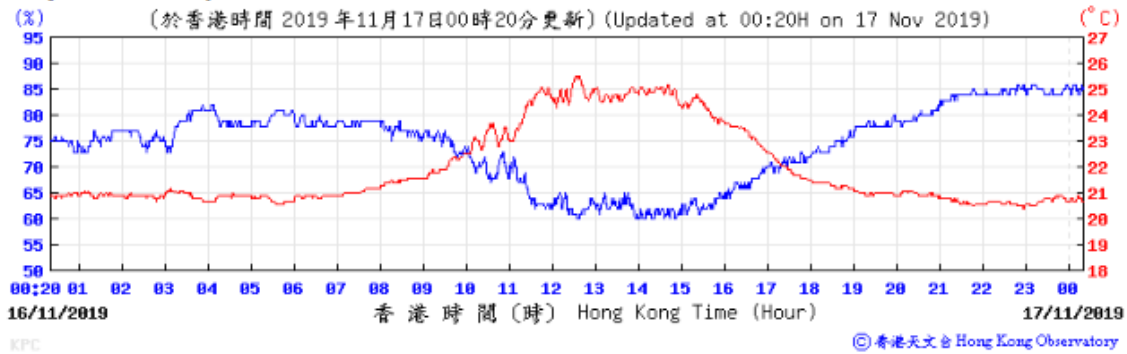
Wind Direction:



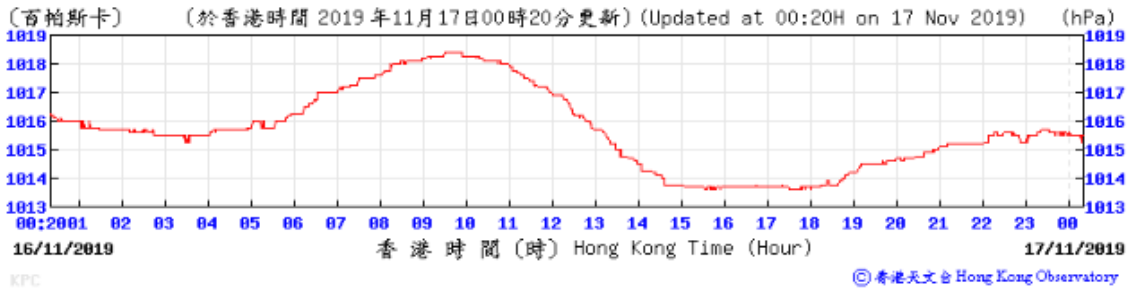
Wind Speed:



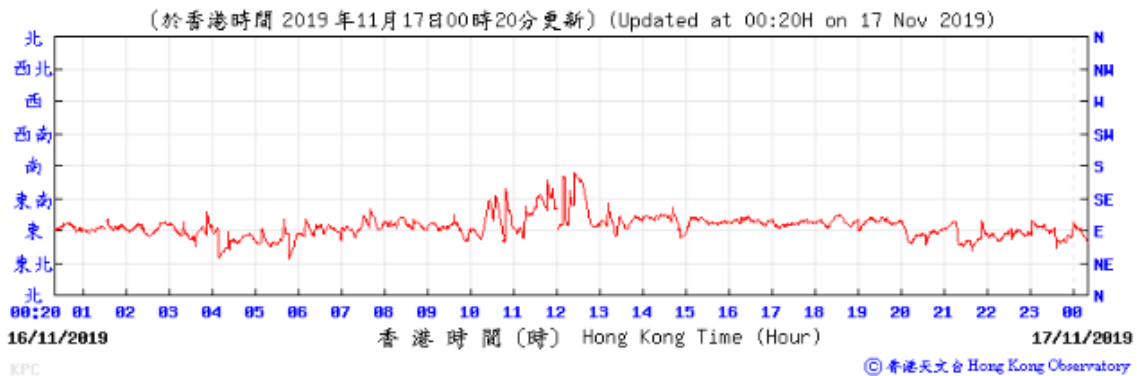
Temperature/Humidity:



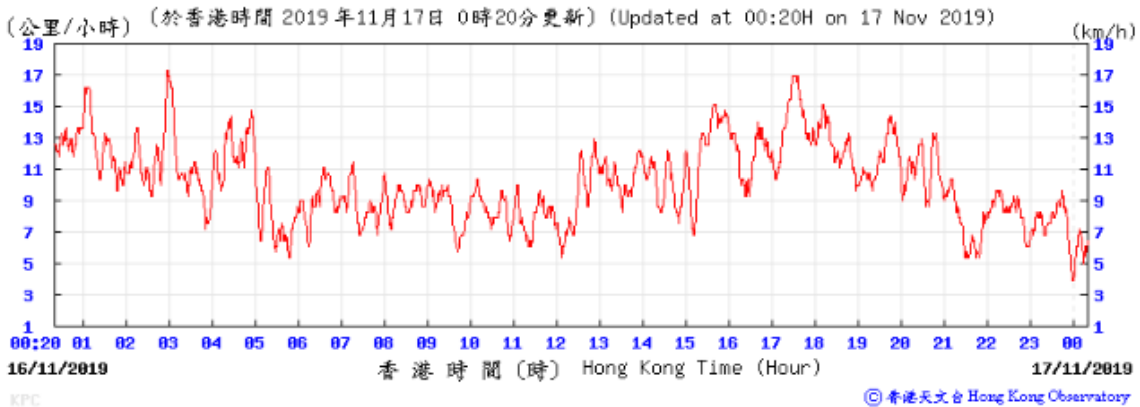
Pressure:



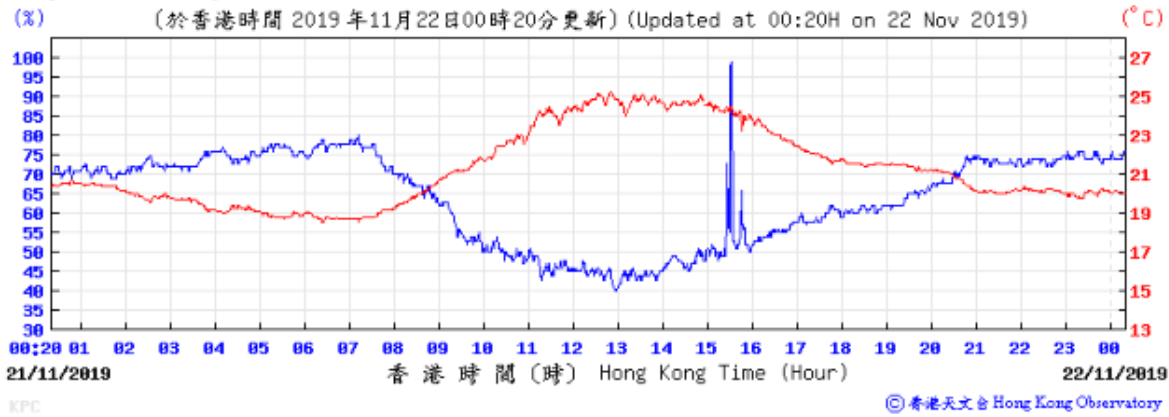
Wind Direction:



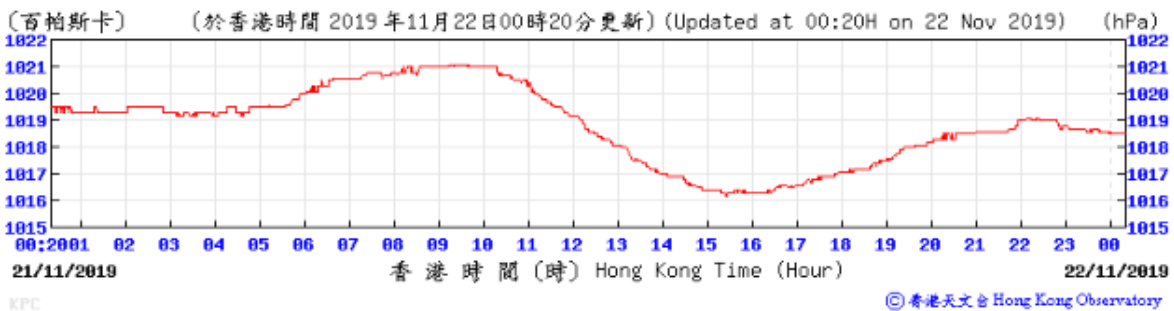
Wind Speed:



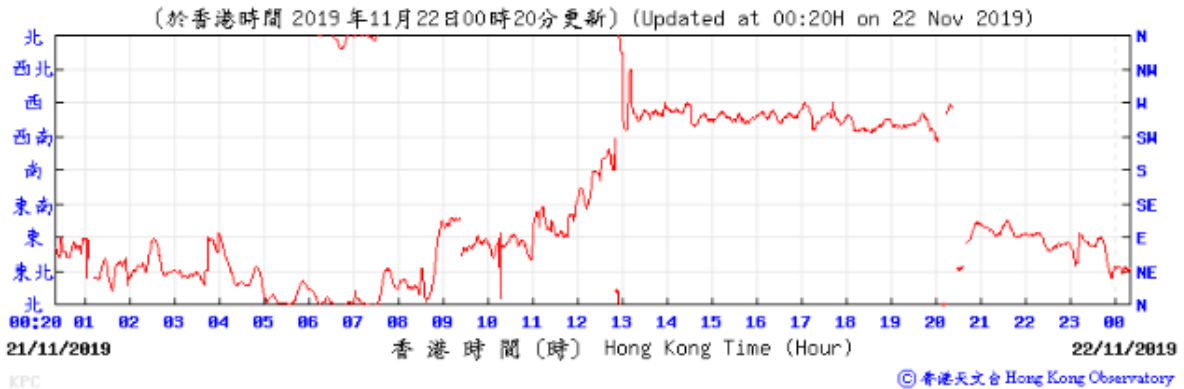
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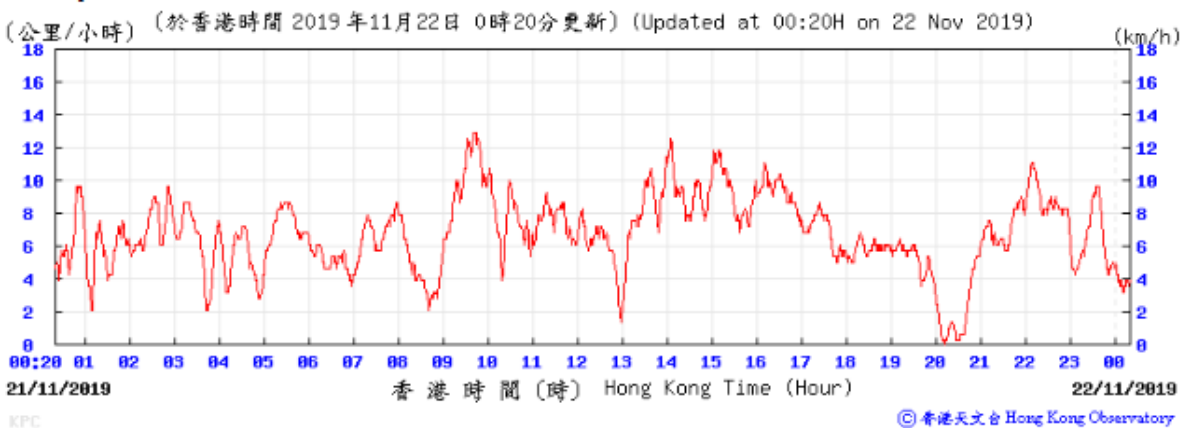
Pressure:



Wind Direction:

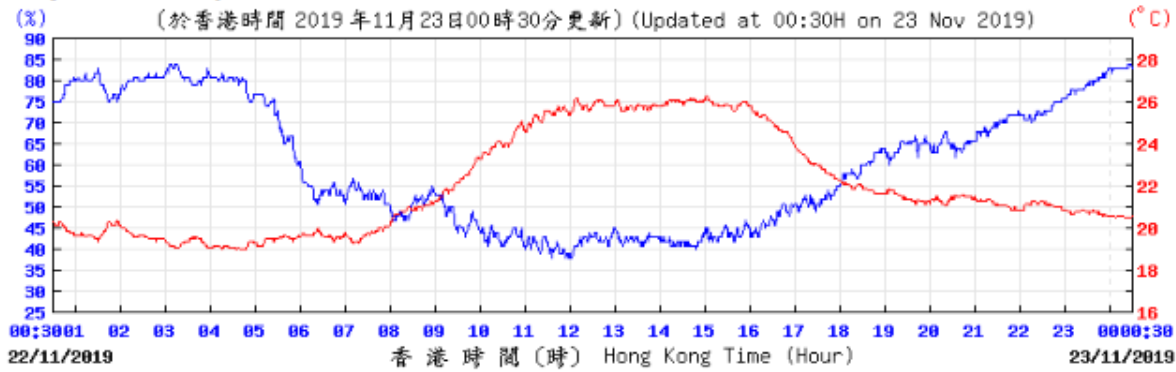


Wind Speed:



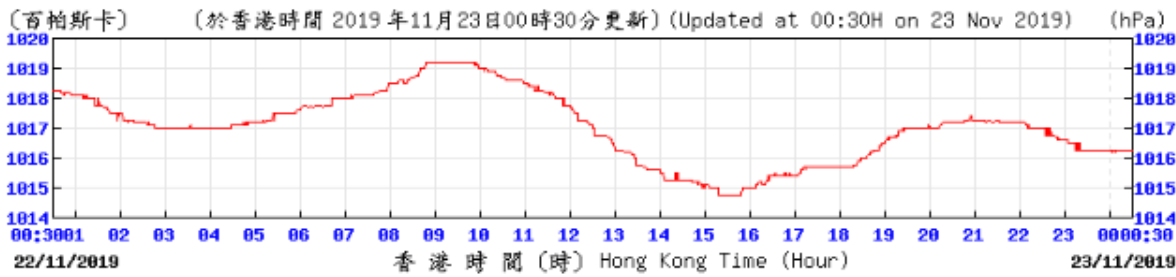


Temperature/Humidity:



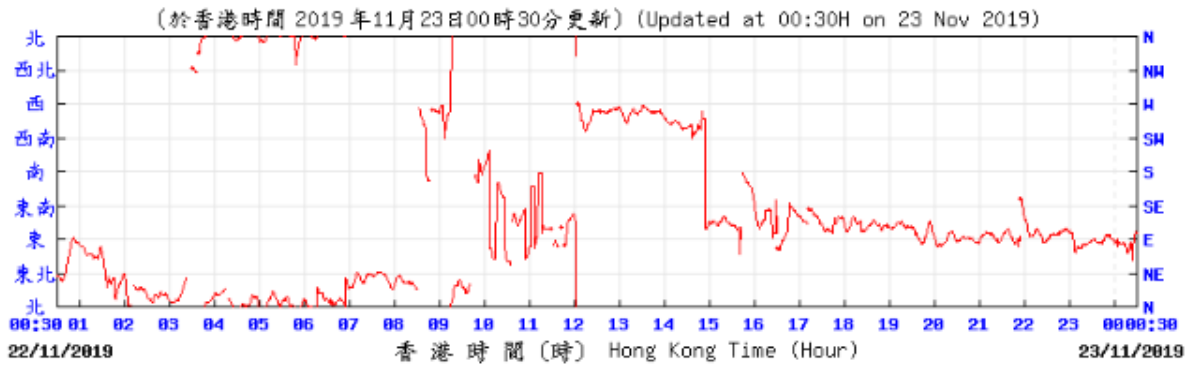
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Pressure:



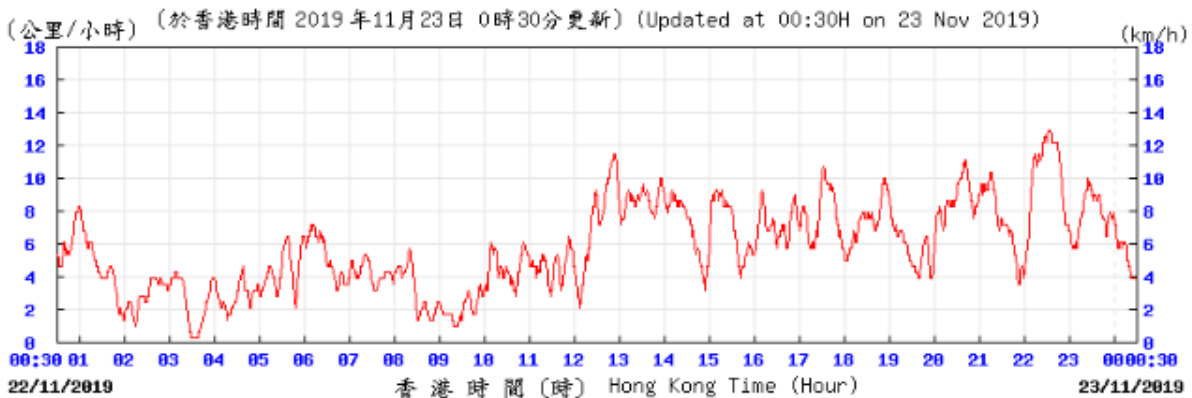
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Wind Direction:



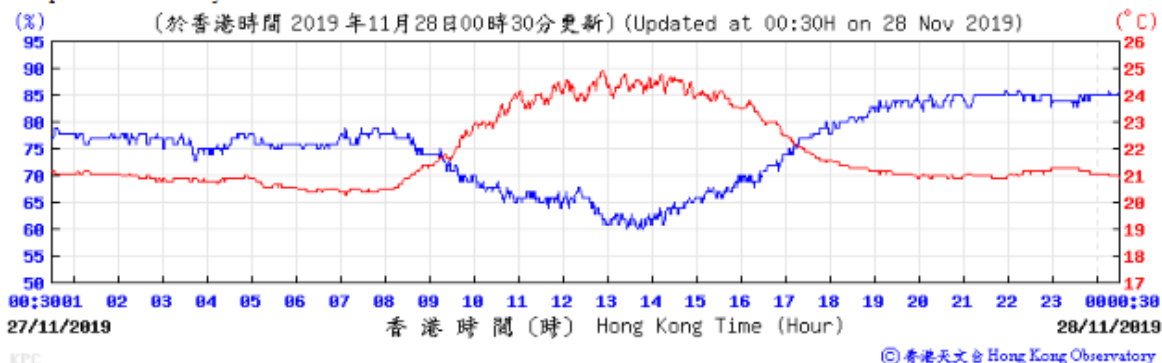
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Wind Speed:

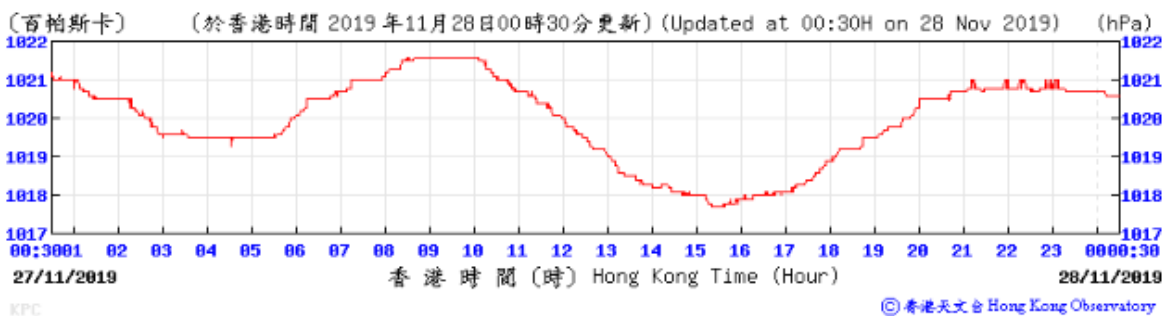


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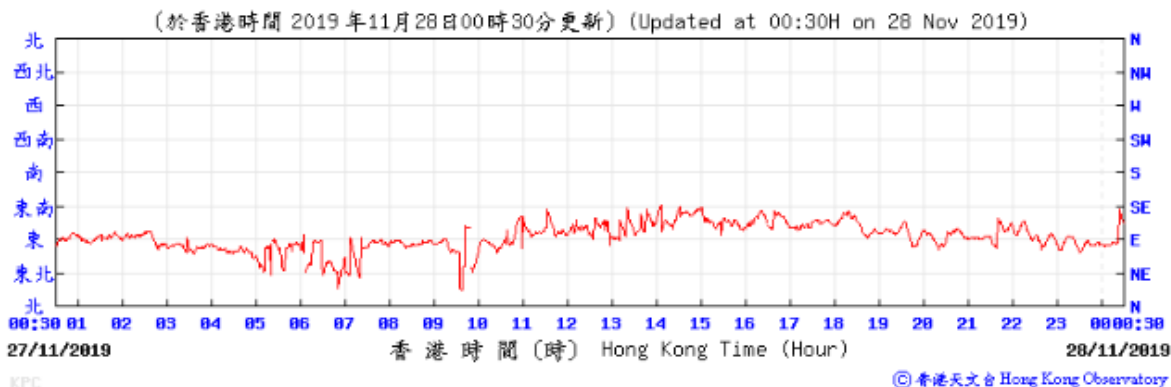
Temperature/Humidity:



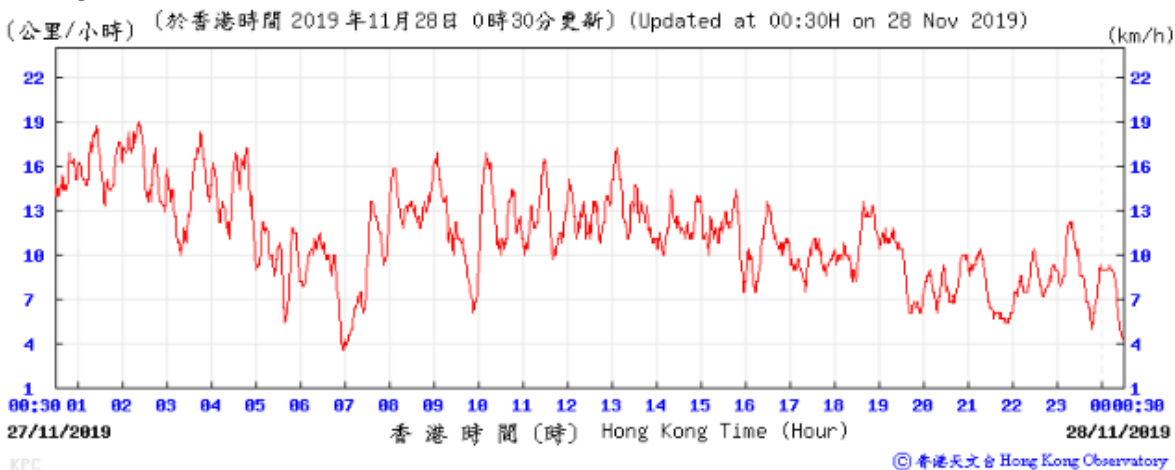
Pressure:



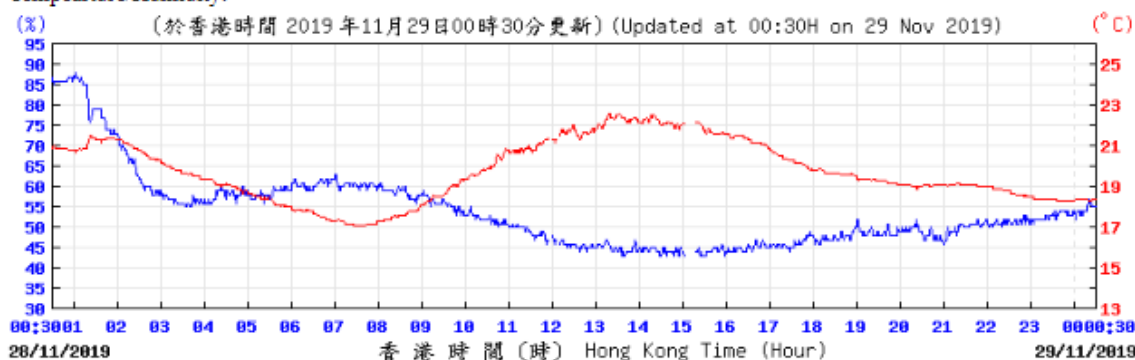
Wind Direction:



Wind Speed:

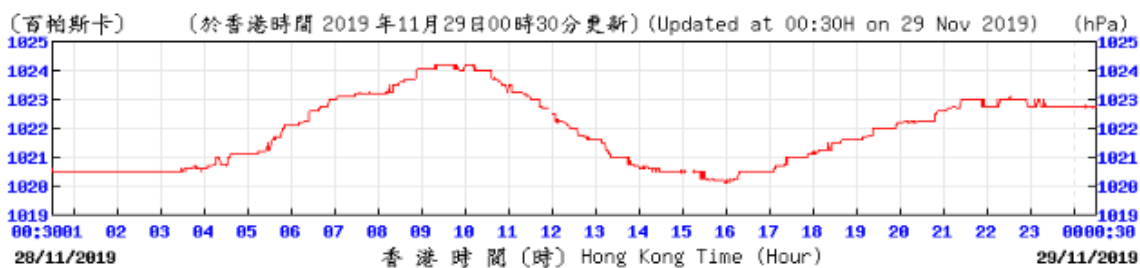


Temperature/Humidity:



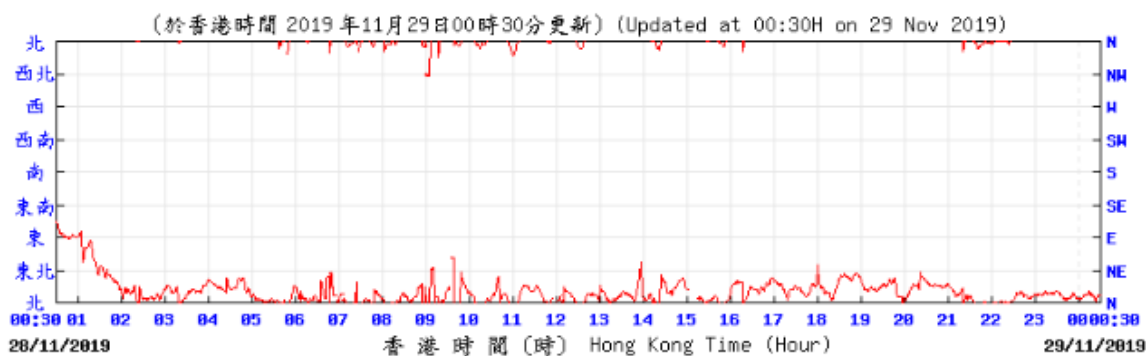
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Pressure:



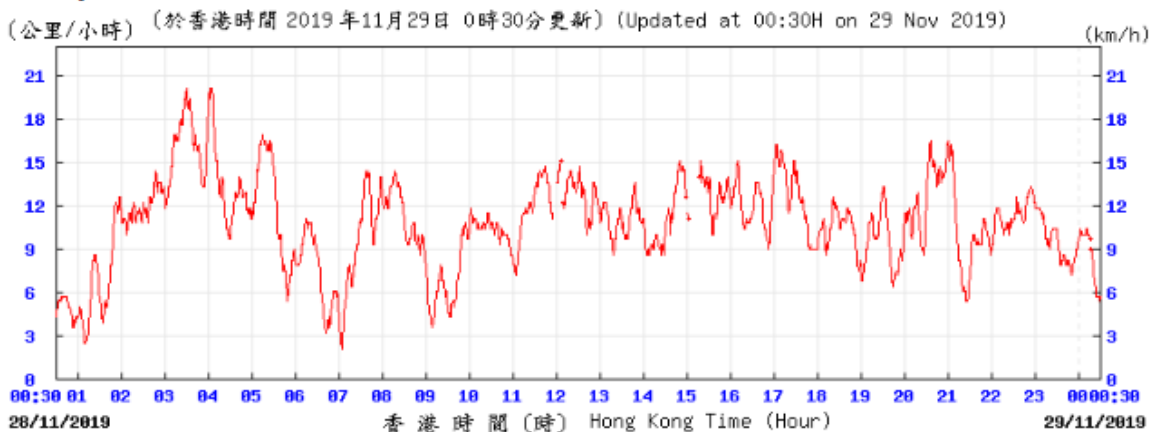
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Wind Direction:



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Wind Speed:



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# 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)
<b>2015</b>													
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
<b>2016</b>													
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
<b>2017</b>													
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	50.9	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	52.3	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	374.8	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	948.5	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	903.6	0.8	0.0	320.0	0.0	241.9



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)
Sub-total (2017)	12453.0	0.0	0.0	3168.0	6522.6	2762.4	0.0	2985.3	8.9	0.0	1921.1	0.2	1855.5
<b>2018</b>													
Jan	1015.3	0.0	0.0	0.0	574.1	441.2	0.0	773.3	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	34.0	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	39.5	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	60.1	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	37.0	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	47.0	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	15.2	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	0.0	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	129.3	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	45.8	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	256.7	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	1437.9	9.9	0.0	1335.0	0.0	2270.2
<b>2019</b>													
Jan	1632.5	0.0	0.0	153.6	572.3	906.6	0.0	192.1	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	43.4	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	31.8	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	48.9	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	81.0	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	123.4	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	57.1	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	1.5	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	46.7	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	94.7	0.0	0.0	450.0	0.4	657.7
Nov	681.1	0.0	0.0	192.0	263.0	226.1	0.0	11.0	0.7	0.0	380.0	0.0	659.8
Sub-total (2019)	7808.1	0.0	0.0	1276.3	3440.6	3091.1	0.0	731.5	6.3	0.0	2600.0	1.9	5863.2
<b>Total</b>	<b>246566.3</b>	<b>0.0</b>	<b>25232.0</b>	<b>141932.1</b>	<b>68410.0</b>	<b>10992.2</b>	<b>0.0</b>	<b>6072.1</b>	<b>27.5</b>	<b>0.0</b>	<b>6256.2</b>	<b>3.2</b>	<b>10984.3</b>

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:

0.0 tonnes, 94.41 tonnes, 168.56 tonnes, 226.11 tonnes of inert C&D material were disposed of as public fill to Chai Wan Public Fill Barging Point, Fill Bank at Tuen Mun Area 38, Fill Bank at Tseung Kwan O Area 137 and Sorting Facilities at Tseung Kwan O Area 137 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

# **Lyric Theatre Complex**



**Table I-2: Monthly Waste Flow Table for Lyric Theatre Complex**

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facility	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
<b>2016</b>													
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
<b>2017</b>													
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

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)
<b>2018</b>													
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	4837.3	0.0	0.0	4641.2	109.2	87.0	174.6	40.0	0.0	0.0	0.0	0.0	179.2
Oct	19021.9	0.0	0.0	11301.0	7564.7	156.1	0.0	106.3	0.4	0.0	0.0	0.0	528.5
Nov	104165.3	0.0	0.0	79811.6	24348.4	5.3	0.0	54.5	0.0	0.6	0.0	0.0	31.5
Dec	62987.1	0.0	0.0	51284.4	11697.1	5.6	0.0	95.1	0.0	0.6	0.0	0.0	65.9
Sub-total (2018)	449532.1	0.0	0.0	368984.8	80293.2	254.0	553.9	669.7	0.5	2.4	0.0	0.5	943.7
<b>2019</b>													
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	66763.1	0.0	0.0	24009.7	42742.5	10.9	59.2	11.9	0.0	0.9	0.0	0.0	35.3
Jul	36606.6	0.0	0.0	1632.7	34947.9	26.0	64.4	120.7	0.0	0.0	0.0	0.0	57.9
Aug	2512.9	0.0	0.0	0.0	2485.1	27.8	31.9	40.2	0.0	0.8	0.0	0.0	66.3
Sep	4103.2	0.0	0.0	0.0	4074.2	28.9	95.2	19.0	0.0	0.6	0.0	0.0	127.4
Oct	6954.9	0.0	0.0	0.0	6928.7	26.1	15.9	11.4	0.2	1.0	0.0	0.6	223.6
Nov	5319.2	0.0	0.0	0.0	5289.0	30.3	0.0	8.9	0.0	0.0	0.0	0.0	151.6
Sub-total (2019)	311998.2	0.0	0.0	153666.0	158182.0	150.1	938.9	718.3	0.6	4.6	0.0	0.6	860.0
<b>Total</b>	<b>935762.1</b>	<b>0.0</b>	<b>0.0</b>	<b>541701.9</b>	<b>393632.7</b>	<b>427.5</b>	<b>1492.8</b>	<b>1909.4</b>	<b>2.2</b>	<b>8.5</b>	<b>0.0</b>	<b>12.5</b>	<b>2132.6</b>

Note:  
- 2,140.35 tonnes and 3,148.60 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.

## **J. Environmental Mitigation Measures – Implementation Status**



**Table J-1: Environmental Mitigation Measures Implementation Status**

EM&A Ref.	Recommendation Measures	Implementation Stage	
		M+ Museum	Lyric Theatre Complex
<b>Air Quality Impact (Construction)</b>			
2.1 & 10.3.1	<p><b>General Dust Control Measures</b></p> <p>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)</p>	✓	✓
2.1 & 10.3.1	<p><b>Best Practice For Dust Control</b></p> <p>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:</p> <p><i>Good Site Management</i></p> <ul style="list-style-type: none"> <li>• 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.</li> </ul> <p><i>Disturbed Parts of the Roads</i></p> <ul style="list-style-type: none"> <li>• Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or</li> <li>• Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet.</li> </ul> <p><i>Exposed Earth</i></p> <ul style="list-style-type: none"> <li>• Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seating with latex, vinyl, bitumen within six months after the last construction activity on the site or part of the site where the exposed earth lies.</li> </ul> <p><i>Loading, Unloading or Transfer of Dusty Materials</i></p> <ul style="list-style-type: none"> <li>• All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet.</li> </ul>	✓	✓
		✓	✓
		✓	✓
		N/A	N/A
		✓	✓

EM&A Ref.	Recommendation Measures	Implementation Stage	
		M+ Museum	Lyric Theatre Complex
	<i>Debris Handling</i>		
	<ul style="list-style-type: none"> <li>Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides.</li> </ul>	Obs	✓
	<ul style="list-style-type: none"> <li>Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped.</li> </ul>	✓	✓
	<i>Transport of Dusty Materials</i>		
	<ul style="list-style-type: none"> <li>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.</li> </ul>	✓	✓
	<i>Wheel washing</i>		
	<ul style="list-style-type: none"> <li>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.</li> </ul>	✓	✓
	<i>Use of vehicles</i>		
	<ul style="list-style-type: none"> <li>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.</li> </ul>	✓	✓
	<ul style="list-style-type: none"> <li>Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels.</li> </ul>	✓	✓
	<ul style="list-style-type: none"> <li>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.</li> </ul>	✓	✓
	<i>Site hoarding</i>		
	<ul style="list-style-type: none"> <li>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.</li> </ul>	✓	✓
2.1 & 10.3.1	<p><b>Best Practicable Means for Cement Works (Concrete Batching Plant)</b></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"> <li>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</li> </ul>	✓	✓

EM&A Ref.	Recommendation Measures	Implementation Stage	
		M+ Museum	Lyric Theatre Complex
	Emission Limits		
	<ul style="list-style-type: none"> <li>All emissions to air, other than steam or water vapour, shall be colourless and free from persistent mist or smoke</li> </ul>	✓	✓
	Engineering Design/Technical Requirements		
	<ul style="list-style-type: none"> <li>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</li> </ul>	✓	✓
-	<p><b>Non-Road Mobile Machinery (NRMM):</b></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>	✓	Obs
<b>Noise Impact (Construction)</b>			
3.1 & 10.4.1	<p><b>Good Site Practice</b></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"> <li>only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works;</li> <li>machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum</li> <li>plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs;</li> <li>mobile plant should be sited as far away from NSRs as possible; and</li> <li>material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities.</li> </ul>	✓	✓
3.1 & 10.4.1	<p><b>Adoption of Quieter PME</b></p> <p>The recommended quieter PME adopted in the assessment were taken from the EPD's QPME Inventory and "Sound Power Levels of Other Commonly Used PME" are presented in <b>Table 4.26</b> in the EIA report. It should be noted that the silenced PME selected for assessment can be found in Hong Kong.</p>	✓	✓

EM&A Ref.	Recommendation Measures	Implementation Stage	
		M+ Museum	Lyric Theatre Complex
3.1 & 10.4.1	<b>Use of Movable Noise Barriers</b> 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.	N/A	✓
3.1 & 10.4.1	<b>Use of Noise Enclosure/ Acoustic Shed</b> 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.	N/A	✓
3.1 & 10.4.1	<b>Use of Noise Insulating Fabric</b> 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.	N/A	✓
3.1 & 10.4.1	<b>Scheduling of Construction Works outside School Examination Periods</b> During construction phase, the contractor should liaise with the educational institutions (including NSRs LCS and CRGPS) to obtain the examination schedule and avoid the noisy construction activities during school examination periods.	N/A	N/A
<b>Water Quality Impact (Construction)</b>			
4.1 & 10.5.1	<b>Construction site runoff and drainage</b> 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: <ul style="list-style-type: none"> <li>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;</li> <li>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.</li> </ul>	✓	✓
		✓	✓



EM&A Ref.	Recommendation Measures	Implementation Stage	
		M+ Museum	Lyric Theatre Complex
	<ul style="list-style-type: none"> <li>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.</li> </ul>	✓	Obs/Rem
	<ul style="list-style-type: none"> <li>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.</li> </ul>	✓	✓
	<ul style="list-style-type: none"> <li>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.</li> </ul>	✓	✓
	<ul style="list-style-type: none"> <li>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.</li> </ul>	✓	✓
	<ul style="list-style-type: none"> <li>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.</li> </ul>	✓	✓
	<ul style="list-style-type: none"> <li>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.</li> </ul>	✓	✓
	<ul style="list-style-type: none"> <li>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.</li> </ul>	N/A	N/A
	<p><b>Barging facilities and activities</b></p> <p>Recommendations for good site practices during operation of the proposed barging point include:</p> <ul style="list-style-type: none"> <li>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;</li> </ul>	N/A	N/A

EM&A Ref.	Recommendation Measures	Implementation Stage	
		M+ Museum	Lyric Theatre Complex
	<ul style="list-style-type: none"> <li>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;</li> <li>All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; and</li> <li>Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site.</li> </ul>	N/A	N/A
4.1 & 10.5.1	<p><b>Sewage effluent from construction workforce</b></p> <p>Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.</p>	✓	✓
4.1 & 10.5.1	<p><b>General construction activities</b></p> <ul style="list-style-type: none"> <li>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.</li> <li>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.</li> </ul>	✓	✓
<b>Waste Management Implications (Construction)</b>			
6.1 & 10.7.1	<p><b>Good Site Practices</b></p> <p>Recommendations for good site practices during the construction activities include:</p> <ul style="list-style-type: none"> <li>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</li> <li>Training of site personnel in proper waste management and chemical handling procedures</li> <li>Provision of sufficient waste disposal points and regular collection of waste</li> <li>Appropriate measures to minimise windblown litter and dust/odour during transportation of waste by either covering trucks or by transporting wastes in enclosed containers</li> <li>Provision of wheel washing facilities before the trucks leaving the works area so as to minimise dust introduction to public roads</li> <li>Well planned delivery programme for offsite disposal such that adverse environmental impact from transporting the inert or non-inert C&amp;D materials is not anticipated</li> </ul>	✓	✓

EM&A Ref.	Recommendation Measures	Implementation Stage	
		M+ Museum	Lyric Theatre Complex
6.1 & 10.7.1	<p><b>Waste Reduction Measures</b></p> <p>Recommendations to achieve waste reduction include:</p> <ul style="list-style-type: none"> <li>Sort inert C&amp;D material to recover any recyclable portions such as metals</li> <li>Segregation and storage of different types of waste in different containers or skips to enhance reuse or recycling of materials and their proper disposal</li> <li>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</li> <li>Proper site practices to minimise the potential for damage or contamination of inert C&amp;D materials</li> <li>Plan the use of construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of wastes</li> </ul>	<p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p>	<p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p>
6.1 & 10.7.1	<p><b>Inert and Non-inert C&amp;D Materials</b></p> <p>In order to minimise impacts resulting from collection and transportation of inert C&amp;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&amp;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"> <li>The surplus inert C&amp;D material will be disposed of at the Government's PFRFs for beneficial use by other projects in Hong Kong.</li> <li>Liaison with the CEDD Public Fill Committee (PFC) on the allocation of space for disposal of the inert C&amp;D materials at PFRF is underway. No construction work is allowed to proceed until all issues on management of inert C&amp;D materials have been resolved and all relevant arrangements have been endorsed by the relevant authorities including PFC and EPD.</li> <li>The C&amp;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.</li> <li>In order to monitor the disposal of inert and non-inert C&amp;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 &amp; 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.</li> </ul>	<p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p>	<p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p>

EM&A Ref.	Recommendation Measures	Implementation Stage	
		M+ Museum	Lyric Theatre Complex
6.1 & 10.7.1	<p><b>Chemical Waste</b></p> <ul style="list-style-type: none"> <li>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.</li> <li>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.</li> </ul>	✓	Obs/Rem
6.1 & 10.7.1	<p><b>General Refuse</b></p> <p>General refuse should be stored in enclosed bins or compaction units separated from inert C&amp;D materials. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from inert C&amp;D materials. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.</p>	✓	✓
<b>Land Contamination (Construction)</b>			
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"> <li>To minimize the chance for construction workers to come into contact with any contaminated materials, bulk earth-moving excavation equipment should be employed;</li> <li>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;</li> <li>Stockpiling of contaminated excavated materials on site should be avoided as far as possible;</li> </ul>	N/A	N/A
		N/A	N/A
		N/A	N/A



EM&A Ref.	Recommendation Measures	Implementation Stage	
		M+ Museum	Lyric Theatre Complex
	<ul style="list-style-type: none"> <li>The use of contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out;</li> <li>Vehicles containing any contaminated excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater;</li> <li>Truck bodies and tailgates should be sealed to stop any discharge;</li> <li>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;</li> <li>Speed control for trucks carrying contaminated materials should be exercised;</li> <li>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</li> <li>Maintain records of waste generation and disposal quantities and disposal arrangements.</li> </ul>	N/A	N/A
<b>Ecological Impact (Construction)</b>			
No mitigation measure is required.			
<b>Landscape and Visual Impact (Construction)</b>			
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	N/A
Table 9.1 & 10.8 (CM2)	Compensatory tree planting shall be incorporated to the proposed project and maximize the new tree, shrubs and other vegetation planting to compensate tree felled and vegetation removed. Also, implementation of compensatory planting should be of a ratio not less than 1:1 in terms of quality and quantity within the site.	N/A	N/A
Table 9.1 & 10.8 (CM3)	Buffer trees for screening purposes to soften the hard architectural and engineering structures and facilities.	N/A	N/A
Table 9.1 & 10.8 (CM4)	Softscape treatments such as vertical green wall panel /planting of climbing and/or weeping plants, etc, to maximize the green coverage and soften the hard architectural and engineering structures and facilities.	N/A	N/A
Table 9.1 & 10.8 (CM5)	Roof greening by means of intensive and extensive green roof to maximize the green coverage and improve aesthetic appeal and visual quality of the building/structure.	N/A	N/A
Table 9.1 & 10.8 (CM6)	Sensitive streetscape design should be incorporated along all new roads and streets.	N/A	N/A
Table 9.1 & 10.8 (CM7)	Structure, ornamental planting shall be provided along amenity strips to enhance the landscape quality.	N/A	N/A

EM&A Ref.	Recommendation Measures	Implementation Stage	
		M+ Museum	Lyric Theatre Complex
Table 9.1 & 10.8 (CM8)	Landscape design shall be incorporated to architectural and engineering structures in order to provide aesthetically pleasing designs.	N/A	N/A
Table 9.1 (CM9)	Minimize the structure of marine facilities to be built on the seabed and foreshore in order to minimize the affected extent to the waterbody	N/A	N/A
Table 9.2 & 10.9 (MCP1)	Use of decorative screen hoarding/boards	✓	✓
Table 9.2 & 10.9 (MCP2)	Early introduction of landscape treatments	N/A	N/A
Table 9.2 & 10.9 (MCP3)	Adoption of light colour for the temporary ventilation shafts for the basement during the transition period.	N/A	N/A
Table 9.2 & 10.9 (MCP4)	Control of night time lighting	N/A	N/A
Table 9.2 & 10.9 (MCP5)	Use of greenery such as grass cover for the temporary open areas will help achieve the visual balance and soften the hard edges of the structures.	N/A	N/A

- 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	0	0	0
From 1 March 2016 to end of the reporting month	10	0	0