

# Development at West Kowloon Cultural District

Monthly Environmental Monitoring and Audit (EM&A) Report for September 2016

October 2016

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October 2016

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

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Date

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Date

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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 Foundation Works (Contract No.: CC/2015/3A/014) at West Kowloon Cultural District (WKCD) (The Project) as part of the WKCD development. The Project Proponent is the West Kowloon Cultural District Authority (WKCDA). The construction works and EM&A programme for M+ Museum and Lyric Theatre Complex commenced on 31 October 2015 and 1 March 2016 respectively.

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

This Monthly EM&A Report presents the monitoring works at both the main works of M+ Museum and foundation works of Lyric Theatre Complex conducted from 1 September to 30 September 2016.

### **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 1, 9, 15, 22 and 29 September 2016 for M+ Museum and 7, 14, 21 and 28 September 2016 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.

### **Record of Complaints**

No environmental complaint was recorded in the reporting month.

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

No notification of summons and successful prosecution were recorded in the reporting month.

### **Future Key Issues**

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

- Excavation
- Construction of composite columns
- Construction of slab
- Construction of columns & walls

- Construction of sump pits
- Construction of basement structure

The major site works at Lyric Theatre Complex scheduled to be commissioned in the coming month include:

- H-Pile Construction
- Bored Pile Construction
- Excavation and lateral support

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 Foundation Works (Contract No.: CC/2015/3A/014) 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, semitransparent vertical plane, housing education facilities, a public restaurant and museum offices. At ground and lower levels, generous access will be provided to the park and other West Kowloon Cultural District facilities, alongside a public resource centre, theatres, retail and dining, and back-ofhouse 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 both the main works of M+ Museum and foundation works of Lyric Theatre Complex conducted from 1 September to 30 September 2016. 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:

Excavation

3

- Construction of composite columns
- Construction of slab
- Construction of columns & walls
- Construction of sump pits
- Construction of basement structure

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

- H-Pile Construction
- Bored Pile Construction
- Excavation and lateral support

The Construction Works Programmes of M+ Museum and Lyric Theatre Complex are provided in **Appendix B**. A layout plan of the Project is provided in **Figure 1**. Please refer to **Table 4.3** on the status of the environmental licenses.

### 1.4 Summary of EM&A Requirements

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**.

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	AM2A – Austin Road West opposite to The Harbourside Tower 1	At least once every 6 days
	1-Hour TSP	AM2A – Austin Road West opposite to The Harbourside Tower 1	At least 3 times every 6 days
Noise	Leq, 30 minutes	NM1A- Podium level of The Harbourside Tower 1	Weekly
Landscape & Visual	Monitor implementation of proposed mitigation measures during the construction stage	As described in Table 9.1 and 9.2 of the EM&A Manual	Bi-weekly

Table 1.1: Summary of Impact EM&A Requirements

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

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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. 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 AM2A 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)
AM2A	Austin Road West opposite to The Harbourside Tower 1

### 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
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Equipment	Model		
24-hour TSP monitoring			
High Volume Sampler	TE-5170 (Serial No.: 0767 and 8919)		
Calibrator	TE-5025A (Orifice I.D.: 2454)		
1-hour TSP monitoring			
Portable direct reading dust meter	Sibata LD-3B (Serial No.: 245834)		

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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.</li>

### **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	L <sub>eq</sub> (30 min), L <sub>90</sub> (30 min) & L <sub>10</sub> (30 min)	Once every week
(0700-1900 hours)		

### 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	Podium floor of 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-18 (Serial No.00360030)	Rion NC-73 (Serial No.10997142)		

### 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 recalibration or repair of the equipment.
- During the monitoring period, the L<sub>eq</sub>, L<sub>10</sub> and L<sub>90</sub> 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 ConstructionPhase

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.

#### **Monitoring Results** 3

#### 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 AM2A are summarised in Table 3.1. Graphical plots of the monitoring results are shown in **Appendix G**.

Monitoring Station	Monitoring Date	Start Time	1-hour TSP (µg/m3)			Range	Action	Limit
			1st Result	2nd Result	3rd Result	(µg/m3)	Level (µg/m3)	Level (µg/m3)
	06-Sep-16	10:42	52	49	55			
	12-Sep-16	10:42	55	59	60	_		
AM1	17-Sep-16	8:05	69	74	77	49-102	273.7	500
	23-Sep-16	10:50	80	88	97			
	29-Sep-16	10:50	84	94	102			
	06-Sep-16	10:52	60	58	64			
	12-Sep-16	10:52	61	58	61	_		
AM2A	17-Sep-16	8:15	74	90	70	58-103	274.2	500
	23-Sep-16	11:02	82	91	101			
	29-Sep-16	11:00	85	95	103			

#### 3.2.2 24-hour TSP

Results of 24-hour TSP at the monitoring location AM1 and AM2A 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 (μg/m3)	Range (µg/m3)	Action Level (μg/m3)	Limit Level (µg/m3)		
	06-Sep-16	10:40	52					
	12-Sep-16	10:40	52	-				
AM1	17-Sep-16	08:00	58	52-60	143.6	260		
	23-Sep-16	10:52	60					
	29-Sep-16	10:48	57					
	06-Sep-16	Suspended due to Electricity Issue						
	12-Sep-16	10:55	61	-				
AM2A	17-Sep-16	08:17	64	58-64	151.1	260		
	23-Sep-16	11:04	58	-				
	29-Sep-16	11:00	63	-				

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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 <b>Appendix G</b> .

Monitoring Date	Start Time	End Time	Leq (30 mins), dB(A)	Limit Level for Leq (dB(A))
06-Sep-16	14:00	14:30	68.3	
12-Sep-16	14:00	14:30	69.2	
23-Sep-16	14:00	14:30	69.5	- 75
29-Sep-16	14:00	14:30	69.3	-

Table 3.3:	Summary of noise monitorin	g results during normal weekdays
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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).

Construction works were extended to holidays on 4, 11, 18 and 25 September 2016. Additional monitoring was carried out during the restricted hours on 4, 11, 18 and 25 September 2016. The measured  $L_{eq}$  (30 mins) is in the range of 67.6 – 69.2 dB(A). Construction Noise Permit for the works carried out during restricted hours was obtained and listed in **Table 4.3**.

### 3.4 Landscape and Visual Impact

Landscape and visual impact inspections were conducted as part of the weekly site inspections on 1, 15 and 29 September 2016 for M+ Museum and 14 and 28 September 2016 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 are 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 1, 9, 15, 22 and 29 September 2016. The joint site inspection with IEC, ET, ER and Contractor was held on 9 September 2016. All observations have been recorded in the site inspection checklist and passed to the Contractor together with the appropriate recommended mitigation measures where necessary. The key observations from the site inspections and associated recommendations are summarized in **Table 4.1**.

Inspection Date	Parameter	Observation / Recommendation	Contactor's Responses / Action(s) Undertaken	Close-out (Date)
12 Aug 2016	Waste management	The chemical store was observed without lock. The contractor was reminded to provide lock and improve the access to the chemical store.	Lock for the chemical store was provided.	1 Sep 2016
12 Aug 2016	Water quality	The contractor was reminded to enhance the wastewater treatment at wetsep no. 2 and 5.	De-sludging was conducted at wetsep no.5, but sludge and algae was still observed at wetsep no. 2 and also at no. 4 on 1 Sep 2016. The contractor has arranged de- sludging at wetsep no. 2 and 4.on 9 Sep 2016.	9 Sep 2016
12 Aug 2016	Waste management	The contractor was reminded to provide drip trays for all containers in site area. The contractor was also reminded to replace the drip trays near wetsep no.4 with a larger one as the drip tray was observed not sufficient.	The contractor has removed chemicals previously observed without drip trays.	9 Sep 2016
25 Aug 2016	Water quality	The contractor was reminded to provide an updated drainage layout plan at each wetsep.	Updated drainage layout plan at each wetsep was provided.	1 Sep 2016
25 Aug 2016	Water quality	The contractor to provide wheel washing at bar bending yard.	Wheel washing at bar bending yard was provided.	1 Sep 2016
25 Aug 2016	Air quality	The contractor was reminded to enhance water spraying at bar bending yard as the ground was observed dry and dusty.	Water spraying frequency was increased at bar bending yard.	1 Sep 2016
25 Aug 2016	Water quality	The contractor was reminded to remove stagnant water at B1 slab.	Stagnant water at B1 slab was removed.	1 Sep 2016
25 Aug 2016	Water quality	Leakage of muddy water was observed for a pipe at Gate 3. The contractor was reminded to rectify it and ensure the muddy water was treated before discharging.	The pipe at gate 3 has been sealed.	1 Sep 2016
1 Sep 2016	Water quality	Overflow was observed at wetsep no. 5. The contractor was reminded to ensure sufficient capacity of wetseps to avoid site runoff to the harbour.	The contractor has rectified the overflow problem at wetsep no.5 and added a new wetsep no.6.	9 Sep 2016
1 Sep 2016	Water quality	Effluent at discharge point at ICP	N/A	N/A

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<sup>\</sup>moting \overlap \ove

Inspection Date	Parameter	Observation / Recommendation	Contactor's Responses / Action(s) Undertaken	Close-out (Date)
		and all wetseps at M+ was checked and found visually clear comparing with standard solution and in acceptable pH range.		
9 Sep 2016	Waste management	Stagnant water was observed in drip trays due to early rainfall. The contractor was reminded to remove the stagnant water more frequently.	The contractor has removed stagnant water previously observed in drip trays	21 Sep 2016
9 Sep 2016	Others	The contractor was reminded to enhance tree protection for trees located near seafront as the current protection was observed not enough.	The contractor has provided tree protection for trees located near seafront.	14 Sep 2016
9 Sep 2016	Waste management	The contractor was reminded to provide proper bunding/ secondary containment for chemical containers to avoid chemical leakage as improper storage of chemicals was observed.	The contractor has provided drip tray for chemicals stored in the chemical store.	22 Sep 2016
9 Sep 2016	Water quality	All wetseps in M+ and discharge point at ICP was checked, the effluent quality was observed visually clear comparing to standard solution and within acceptable pH range.	N/A	N/A
15 Sep 2016	Air quality	The contractor was reminded to enhance water spraying for stockpile at A11 and haul road near wetsep no.5.	The contractor has enhanced water spraying frequency for the stockpile at A11 and the haul road near wetsep no.5.	21 Sep 2016
15 Sep 2016	Water quality	The contractor was reminded to clearly label the pipes to indicate pipe flow for easy checking.	The contractor has clearly labelled the pipes to indicate the pipe flow.	21 Sep 2016
15 Sep 2016	Air quality	The contractor was reminded to well cover the cement bags at B1.	The contractor has well covered the cement bags.	21 Sep 2016
15 Sep 2016	Waste management	Chemical drums and containers were observed without driptrays. The contractor was reminded to provide drip trays or remove the chemicals off site.	The contractor has removed the chemicals previously observed with drip tray off site.	22 Sep 2016
15 Sep 2016	Water quality	Effluent at ICP discharge point and all wetseps at M+ was checked and found visually clear comparing to standard solution and within acceptable pH range.	N/A	N/A
22 Sep 2016	Water quality	Overflow was observed at wetsep no.3. The contractor was reminded to rectify it as soon as possible. The contractor was also reminded to review the capacity of wetseps and ensure all wastewater is properly treated before discharge.	The contractor has rectified the overflow problem previously observed at wetsep no.3.	28 Sep 2016
22 Sep 2016	Waste management	Chemicals without drip tray and chemicals stored in not appropriate container was observed at DCS. The contractor was reminded to provide drip tray or remove the chemicals off site if not in use and provide proper container for chemicals.	The contractor has removed the chemical containers previously found without drip tray and chemicals stored in improper containers off site.	28 Sep 2016
22 Sep 2016	Waste management	Stagnant water and mixture was observed at drip tray near wetsep no. 3 and drip tray of generator near ICP. The contractor was reminded to remove the mixture	Stagnant water and mixture of chemical waste previously observed in drip tray near wetsep no.3 and drip tray of generator have been removed. The	28 Sep 2016

Inspection Date	Parameter	Observation / Recommendation	Contactor's Responses / Action(s) Undertaken	Close-out (Date)
		and treat it as chemical waste. The empty chemical containers should be removed off site from the drip tray.	contractor has also removed eth empty chemical container off site.	
22 Sep 2016	Waste management	Refuse was observed on the ground at ICP. The contractor was reminded to remove the refuse and maintain good house-keeping.	The contractor has removed the refuse previously found on the ground of ICP.	28 Sep 2016
22 Sep 2016	Water quality	Effluent at ICP discharge point and wetseps at M+ was checked and was visually clear comparing with standard solution and within acceptable pH range.	N/A	N/A
22 Sep 2016	Others	The contractor was reminded to provide proper tree protection for the trees near seafront as the protection was observed not enough.	The contractor has provided proper tree protection for trees near seafront.	28 Sep 2016
29 Sep 2016	Waste management	The contractor was reminded to remove the stagnant water at drip trays more frequently.	Follow-up status will be provided in the next reporting month	On-going
29 Sep 2016	Water quality	Sand was found leaking out from the sand bags near the seafront. The contractor was reminded to replace all the broken sand bags.	Follow-up status will be provided in the next reporting month	On-going
29 Sep 2016	Waste management	Chemical containers and drums were found without drip trays near DCS, near wetsep no.1 nad A10. Oil pipes were also found on the ground near wetsep no.1 and soil was found contaiminated. The contratcor waas reminded to provide drip trays for all chemical containers/ drums and oil pipes, and remove the contaminated soil as chemical waste.	Follow-up status will be provided in the next reporting month	On-going
29 Sep 2016	Water quality	The effleuent discharge quality at ICP and wetseps at M+ were checked and found visually clear comparing to the standard solution and within acceptable pH range.	N/A	N/A

### 4.1.2 Lyric Theatre Complex

Construction phase weekly site inspections were carried out on 7, 14, 21 and 28 September 2016. The joint site inspection with IEC, ET, ER and Contractor was held on 21 September 2016. No noncompliance was recorded during the site inspection. All observations have been recorded in the site inspection checklist and passed to the Contractor together with the appropriate recommended mitigation measures where necessary. The key observations from the site inspections and associated recommendations are summarized in **Table 4.2**.

Table	e 4.2:	Summ	nary of	i Site Ir	nspect	ions a	nd Reco	mm	en	dat	ior	ns f	or Lyrio	: Th	eatre Co	omplex	,
		_	-					_				_					

Inspection Date	Parameter	Observation / Recommendation	Contactor's Responses / Action(s) Undertaken	Close-out (Date)
31 Aug 2016	Water quality	Turbid water was observed at the wetsep near site entrance. The contractor was reminded to desludge more frequently to ensure good efficiency of wetsep.	More frequent desludge of the Wetsep near site entrance was arranged.	1 Sep 2016
7 Sep 2016	Waste management	Oil stains were observed on the ground. The Contractor was reminded to remove the oil stain	The oil stain was removed.	14 Sep 2016

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\moting \ProjectHong Kong\ENL\PROJECTS\363512 WKCD M+ Superstructure\05 Deliverables\02 Monthly EM&A Report\(11) Monthly EM&A Report for Sep 2016\Rev. 1\Monthly EM&A Report for Sep 2016\Rev. 1\Monthly EM&A Report for Sep 2016\_v1.docx

Inspection Date	Parameter	Observation / Recommendation and handle them as chemical	Contactor's Responses / Action(s) Undertaken	Close-out (Date)
14 Sep 2016	Air quality	waste. Haul road was observed dry near area L02 and L03. The contractor was reminded to increase water spraying frequency at that area.	Increased water spray frequency was provided for haul road near area L02 and L03.	15 Sep 2016
14 Sep 2016	Waste management	A drip tray was filled up with stagnant water. The contractor was reminded to clean the drip tray and treat as chemical waste.	Stagnant water in drip tray was cleared and designated as chemical waste.	15 Sep 2016
21 Sep 2016	Waste management	A mixture of stagnant water and oil was accumulated in a drip tray. The Contractor was reminded to clear the mixture from the drip tray and treat as chemical waste.	The mixture from the drip tray was cleared.	28 Sep 2016
21 Sep 2016	Water quality	Site runoff was accumulated inside the trench near the sea front. The Contractor was reminded to monitor the site runoff and provide additional pump(s) as necessary to prevent overflow.	The site runoff inside the trench near the sea front was continuously removed.	28 Sep 2016
28 Sep 2016	Waste management	A mixture of chemical and algae was found accumulated in the drip tray of the generator near area L01. The contractor was reminded to clear the mixture and treat as chemical waste.	Follow-up status will be provided in the next reporting month	On-going
28 Sep 2016	Noise	The panel of the power pack near area L02 was found open. The contractor was reminded to close the panel to reduce the noise level.	Follow-up status will be provided in the next reporting month	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, 197.91 ton and 802.17 ton of inert C&D material were disposed of as public fill to Tuen Mun Area 38 and Tseung Kwan O Area 137 Public Fill respectively, while 107.9 ton of general refuse was disposed of at SENT landfill. 104.2 ton of metals, 0 ton of paper/cardboard packaging, 0 ton of plastic and 45.5 ton of timber were collected by recycling contractors in the reporting month. 0 ton of inert C&D materials was reused on site. 5,648.0 ton of inert C&D materials were reused in other projects and 53.9 ton of inert C&D materials were disposed to sorting facility. 0.2 ton 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 M+ Museum in the reporting month are shown in **Appendix I**.

### 4.2.2 Lyric Theatre Complex

As advised by the Contractor, 3043.0 ton and 10628.2 ton of inert C&D material were disposed of as public fill to Tuen Mun Area 38 and Tseung Kwan O Area 137 respectively, while 12.4 ton of general refuse was disposed of at SENT landfill. 59.8 ton of metals, 0 ton of paper/cardboard packaging, 0 ton of plastic and 0 ton of timber were collected by recycling contractors in the reporting month. 0 ton of

inert C&D materials was reused on site. 0 ton of inert C&D materials was reused in other projects. 1.6 ton of chemical wastes 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 **Table 4.3 and Table 4.4**.

### 4.3.1 M+ Museum

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

Permit / License	Valid	Period	Status	Remarks
No. / Notification / Reference No.	From To			
Chemical Waste Produ	cer Registration			
5213-217-H2913-45	05-Nov-15		Valid	
Billing Account Constr	uction Waste Dispos	al		
7023393	13-Oct-15		Account Active	
Construction Noise Per	rmit			
GW-RE0637-16	30-Jun-16	29-Dec-16	cancelled on 23-Sep- 16	
GW-RE0930-16	23-Sep-16	22-Mar-16	Valid	
Wastewater Discharge	License			
WT00023633-2016	4-Mar-16	31-Mar-21	Valid	
Notification under Air F	Pollution Control (Co	nstruction Dust) Reg	gulation	
394083	7-Oct-15		Notified	

### 4.3.2 Lyric Theatre Complex

### Table 4.4:Status of Environmental Submissions, Licenses and Permits for Lyric TheatreComplex

Permit / License	Valid	Period	Status	Remarks
No. / Notification / Reference No.	From	То	_	
Chemical Waste Produ	cer Registration			
5213-217-G2347-39	17-Feb-16		Valid	
Billing Account Constr	uction Waste Dispos	al		
7024189	25-Jan-16		Account Active	
<b>Construction Noise Per</b>	rmit			
GW-RE0402-16	25-Apr-16	24-Oct-16	Valid	
Wastewater Discharge	License			
WT00023648-2016	9-Mar-16	31-Mar-21	Valid	
Notification under Air F	Pollution Control (Co	nstruction Dust) Regu	ulation	
398075	18-Jan-16		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

### **Chemical and Waste Management**

- All chemicals stored on site should be provided with drip trays.
- Chemical waste in drip trays should be frequently removed.
- All chemicals should be kept proper containers and clearly labelled.
- Good housekeeping of site should be maintained.

### **Air Quality**

- Maintain high standard of housekeeping to prevent emission of fugitive dust.
- Dusty materials stored on site should be well covered to reduce dust impact.
- Enhance water spraying for haul roads to reduce dust impact.

### Water Quality

- Wetsep units should be regularly checked to ensure proper function and adequate capacity of the system to treat wastewater or runoff before discharge.
- All wastewater or site runoff must be treated in wastewater treatment facilities before discharge.
- All pipes should be clearly labelled to indicate the pipe flow.
- All stagnant water in site area should be properly collected and treated before discharge.
- Ensure no leakage of sand bags which act as preventive measures to prevent site runoff from entering the harbour

### Others

- Proper tree protection should be provided to trees

### 4.4.2 Lyric Theatre Complex

### **Chemical and Waste Management**

- Drip trays should be kept in good condition.
- Chemical waste in drip trays should be frequently removed and ensure no leakage of oil/ chemicals from machines.

### Air Quality

- Enhance water spraying frequency to reduce dust impact.

### Noise

- The panel of the power pack should be always closed.

### Water Quality

- No leakage of site runoff from the site near site boundary should be ensured.

### 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 August 2016	14 September 2016

### 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 this 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 prosecution 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 scheduled to be commissioned in the coming month include:

- Excavation
- Construction of composite columns
- Construction of slab
- Construction of columns & walls
- Construction of sump pits
- Construction of basement structure

### 7.1.2 Lyric Theatre Complex

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

- H-Pile Construction
- Bored Pile Construction
- Excavation and lateral support

### 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 Therate Complex foundation works 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 Leq, 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.

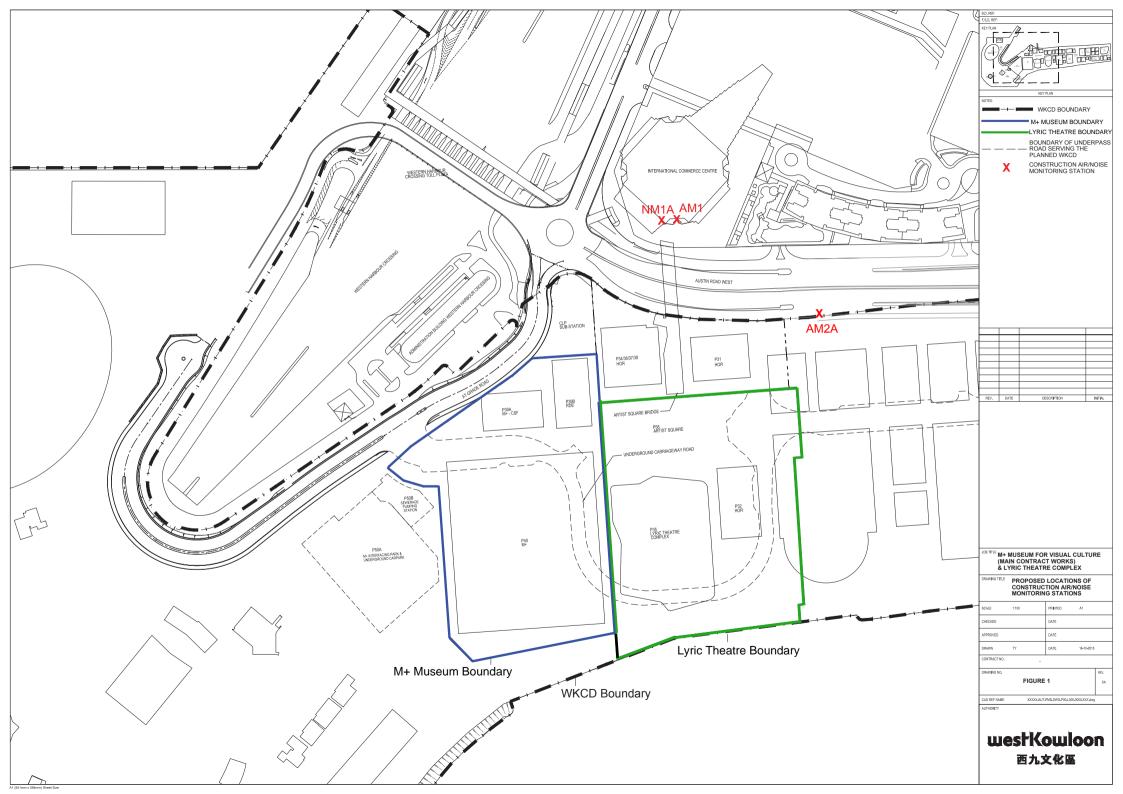
No environmental complaint and no notifications of summons or successful prosecution were received during the reporting month.

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

### 8.2 **Recommendations**

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

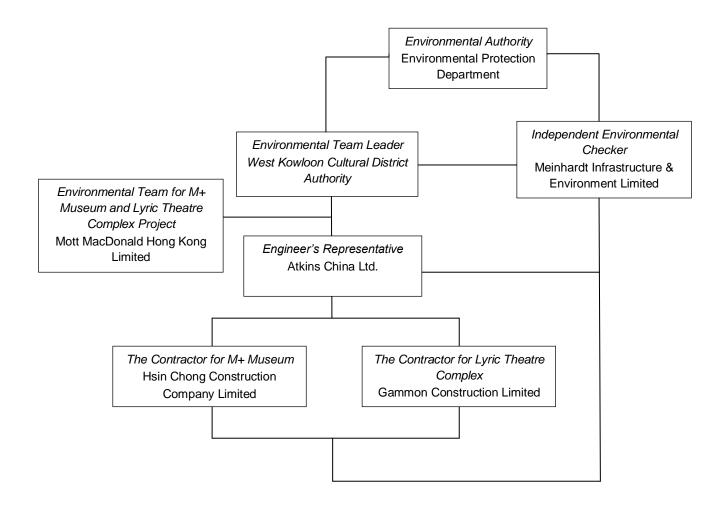
# Figure 1 Site Layout Plan and Monitoring Stations



# Appendices

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	Prosecutions	36

## A. Project Organisation



#### Table A-1: Contact information

Company Name	Role	Name	Telephone
Atkins China Ltd.	Senior Resident Engineer	Mr. Alfred Lee	5401 7289
Meinhardt Infrastructure & Environment Limited	IEC	Mr. Fredrick Leong	2859 1739
Hsin Chong Construction Company Limited	Environmental Manager	Mr. Leo Chow	9266 6855
Gammon Construction Limited	Environmental Manager	Ms. Michelle Tang	9267 8866
Mott MacDonald Hong Kong Ltd.	Contractor's Environmental Team Leader	Mr Brandon Wong	2828 5875
West kowloon Cultural District Authority	Senior Environmental Specialist	Mr. Brian Tam	2200 0059

### **B. Tentative Construction Programme**

# M+ Museum

Activity ID	Activity Name	Ori. Dur.	BaseLine Start BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish √ariance	Current Float	31	Aug 07	gust 20 14		September 2016           28         04         11         18
(3MRP-1	1) Three Months Rolling Programme	Sta	tus at 31 Aug		-								
_ \	t Key Dates & Milestones												
	-												
Contract CP02	Contract Period (1218 days)	1216	26-Sep-15 23-Jan-19	26-Sen-15 A	20-Feb-19	28%	-28	-26					
	e of Milesones										-		
	tre A - Preliminaries and General Requirements												
MSA.06	Compliance Review to the CA's satisfaction on Project Time & C	0	31-Aug-16		31-Aug-16	0%	0	6					Compliance Revi
MSA.07	Compliance Review to the CA's satisfaction on Project Time & C	0	30-Sep-16		30-Sep-16	0%	0	6					
	tre B - M+												
MSB.04	Complete Pile Caps for Trusses 1, 2 & 5 (t=M9)	0	31-Aug-16		18-Aug-16 A	100%	0				٠		Complete Pile Ca
MSB.05	Complete all Columns, Structural Cores and other work necessa	0	31-Oct-16		31-Oct-16	0%	0	28			,		
MSB.03	Complete Excavation to 100% of Overall Volume of Bulk Excav	0	31-Oct-16		31-Oct-16	0%	0	28					
	tre C - Public Works and Tunnel Protection Wor	ke											
MSC.03	Complete Pile Caps for Trusses 1, 2 & 5 (t=M9)	0	31-Aug-16		31-Aug-16 A	100%	0						Complete Pile Ca
MSC.02	First delivery of major Truss Steelwork elements to the Site for	0	30-Sep-16		30-Sep-16	0%	0	29					
MSC.04i	Complete of all work necessary for commencement of erection	0	31-Oct-16		31-Oct-16	0%	0	28					-
MSC.04ii	Complete all Columns, Structural Cores and other work necessa	0	31-Oct-16		31-Oct-16	0%	0	28					
MSC.01	Obtain Notice of No Objection from Contract Administrator for a	0	31-Oct-16		31-Oct-16	0%	0	28					
Interface	-												
Access D													
AD1180	M16 - Lyric Interface South (2nd access) (30Jun16)	0	15-Aug-16	22-Aug-16 A		100%	-7				<b>◇</b>	◆ M16	Lyric Interface So
AD1160	M15 - M+ / Lyric Staircase (2nd access) (30Jun16)	0	15-Aug-16	22-Aug-16 A		100%	-7				<b>♦</b>	♦ M15	M+ / Lyric Stairca
AD1350	M39 - Lyric Waterfront / through ESS Compound (Subject to G	0	31-Aug-16	31-Aug-16 A		100%	0						M39 - Lyric Wate
AD1420	M45 - At-grade Road Footpath along M+ Basement (from PIW)	0	31-Aug-16	31-Aug-16		0%	0	341					M45 - At-grade F
AD1530	M70 - Arts Pavilion Area on M+ side of M+ / Park Interface (t.b	0	31-Aug-16	31-Aug-16		0%	0	878					M70 - Arts Pavili
AD1340	M38 - Lyric Waterfront (Part of MTR Area A1) (from Lyric) (31A	0	31-Aug-16	31-Aug-16 A		100%	0						M38 - Lyric Wate
AD1410	M44 - At-grade Road Footpath at ICP / SPS Frontage (from PIW	0	31-Aug-16	31-Aug-16		0%	0	386					M44 - At-grade F
AD1380	M42 - Lyric Waterfront East of Barging Point	0	01-Oct-16	30-Aug-16 A		100%	32						•
AD1370	M41 - Lyric Waterfront at Barging Point (Part of MTR Area 3) (F	0	01-Oct-16	30-Aug-16 A		100%							•
AD1110	M12 - Lyric Interface North (2nd access) (30Nov16)	0	09-Oct-16	09-Oct-16		0%	0	68					
Vacation	Date												-
VD1240	M22 - ICP/SPS Frontage within At-grade Road (H/O to PIW) (30	0	31-Aug-16		31-Aug-16	0%	0	-114					M22 - ICP/SPS F
	Schedule (Refer to Interface Schedule - App	end	ix D1 20-Nov-201	5)	-								
	atre Complex and Extended Basement (Lyric)	Circ		•/									
	erface North of AEL												
IF1020	Complete excavation north of AEL for B2/F slab and vacate M12	0	02-Sep-16		02-Sep-16	0%	0	85					S Complete exca
IF1060	Take possession of M12 for external wall construction	0	14-Oct-16	14-Oct-16		0%	0	63					
Along Inte	erface South of AEL												
IF1050	Take possession of M38 and M39	0	31-Aug-16	31-Aug-16 A		100%	0						Take possession
				-								. <u> </u>	
<ul> <li>Baseline Mile</li> <li>Primary Base</li> </ul>			Cultural District Autho	•				F	1	HSIN CHO	新昌		Date
♦ ♦ Milestone	(3MRP-11) Three	M	onths Rolli	ing Pr	ogran	nme	Э		- `		10		14-Jun-16 (3MRP-08) Mont 13-Jul-16 (3MRP-09) Mont
Non-Critical				U	0	_							08-Aug-16 (3MRP-10) Mon
Actual Work	Status	at	31 Aug 20	JID				1					08-Sep-16 (3MRP-11) Mon

### Page 1 of 28

16			Octob	er 2016			Nove	ember 2	016	1	mber 2016
3	25	02	09	16	23	30	06	13	20	27	7 04

ew to the CA's satisfaction on Project Time & Construction PMg Compliance Review to the CA's satisfaction on Project T

aps for Trusses 1, 2 & 5 (t=M9), Complete Pile Caps for Trusses Complete all Columns, Structur Complete Excavation to 100%

aps for Trusses 1, 2 & 5 (t=M9), Complete Pile Caps for Trusses First delivery of major Truss Steelwork elements to the Complete of all work necessary Complete all Columns, Structu Obtain Notice of No Objection f

buth (2nd access) (30Jun16), M16 - Lyric Interface South (2nd access) (30Jun16), M15 - M+ / Lyric Staircase (2nd a serfront / through ESS Compound (Subject to Gov't Approval - S
Road Footpath along M+ Basement (from PIW) (01Jun2016), N
ion Area on M+ side of M+ / Park Interface (t.b.a.), M70 - Arts
erfront (Part of MTR Area A1) (from Lyric) (31Aug2016), M38 Road Footpath at ICP / SPS Frontage (from PIW) (01Jun2016),
M42 - Lyric Waterfront East of Barging Point, M42 - Lyric
M41 - Lyric Waterfront at Barging Point (Part of MTR Area A1)

8 M12 - Lyric Interface North (2nd access) (30Nov

rontage within At-grade Road (H/O to PIW) (30Nov2015), M22

vation north of AEL for B2/F slab and vacate M12, Complete ex **\$** Take possession of M12 for external wall con

of M38 and M39, Take possession of M38 and M39, 31-Aug-1

CMWP-10		
Revision	Checked	Approved
nthly Update Status at 31 May 2016	Jojo	Ricky Lau / Chris Chau
nthly Update Status at 30 June 2016	Jojo	Ricky Lau / Chris Chau
nthly Update Status at 31 July 2016	Jojo	Ricky Lau / Chris Chau
nthly Update Status at 31 July 2016	Chris Silcock	Ricky Lau / Chris Chau

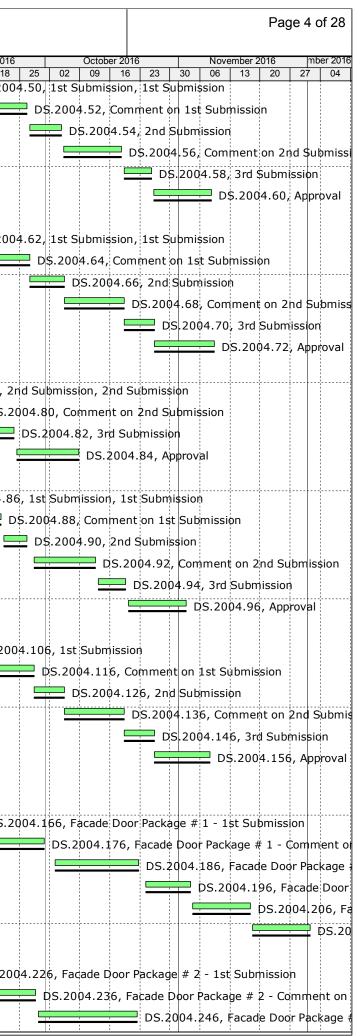
Prepared on 08-S	Sep-16	(3MRP-11	) T	hree M	onths	Rolling	g Progr	amr	ne	Sta	tus	at 3	1 A	ug 2	016								Page	2 of 28
ctivity ID	Activity Name		Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish Varianc	Currer	nt 31	August 2 07 14		28 04	eptember 2		25 02		tober 2016 9   16		Nov 30 06	vember 201		mber 2010 27 04
DCS Basem	nent Area		2 411			otait		- compil	Failurio							10	20 02						20 2	
IF1030	Take possession of	M15 and M16 after pipe piles and grouting t	0	31-Aug-16		22-Aug-16 A		100%	9				•	<b>T</b> ake	possessi	on of	M15 and	d M1€	5 after r	pipe pile	s and gro	outing b	y Lyric	Contrac
Grid 6 & 12	Area																							
IF1038	Complete Core Wall	s on PC96 to G/F Level	0		22-Sep-16		22-Sep-16	0%	0	855						<b>8</b> C	omplete	Core	Walls c	on PC96	to G/F L	evel, Co	mplete	Core W
IF1036	Complete PC109 &	Basement Road Wall between PC109 & 116	0		26-Sep-16		26-Sep-16	0%	0	851						2	Comple	ete PC	2109 &	Basem	ent Road	Wall be	tween	PC109 8
IF1039	Complete Basemen	Road Wall between PC96, 103 & 105 to G/	0		03-Nov-16		03-Nov-16	0%	0	813	_										💲 Com	plete Bas	sement	Road V
IF1034	Complete External	Nall from B1/F to G/F Level between Grid 6	0		25-Nov-16		25-Nov-16	0%	0	791													Co	mplete
<b>PIW Phase</b>	1									,														
Civil & Struc	ctual Interface wi	th PIW At-Grade Road																						
M+ North W	lest Boundary																							
IF2095	Submit Hoarding De	esign for BD Approval	30	31-Aug-16	29-Sep-16	31-Aug-16	29-Sep-16	0%	0	624							<b></b> IF20	)95, S	Submit	Hoardin	ig Design	ı for BD	Approv	al
IF2090	Take possession of	the At-grade road footway within M45	0	31-Aug-16		31-Aug-16		0%	0	624				Take	possessi	on of	the At-g	Jrade	road fo	otway v	vithin M4	5, Take	posses	sion of
Interface Ca	ar Park Utilities V	/orks																						
IF2180	Construct U/G utilit	ies connections from footway to ICP/SPS	70	30-Jun-16	17-Oct-16	06-Jun-16 A	30-Sep-16	50%	9	60									IF:	2180, C	onstruct	U/G uti	lities co	onnectio
IF2190	Complete pavement	t interface with At-grade road	10	03-Oct-16	18-Oct-16	03-Oct-16	18-Oct-16	0%	0	60									💻 IF	2190,	Complete	e pavem	ent int	erface w
IF2200	Remove hoarding a	ong footway & vacate footway	5	20-Oct-16	25-Oct-16	20-Oct-16	25-Oct-16	0%	0	60									_	💻 IF2	200, Ren	nove ho	arding	along fo
Sewage Pur	mp Station																							
IF2290	Construction of SPS	Structure incl Building Services, ABWF and	361	19-May-16	16-Oct-17	20-May-16	03-Oct-17	10%	8	-65								—			<u> </u>			<b></b>
Drainage In	terface with PIW																				(			
IF2360	PIW vacate M04, M	21, M45 (by others)	0		17-Nov-16		31-Aug-16 A	100%	79					<b>Y</b>							(	🔶 PI	W vaca	ate M04
Water Main	Interface with PI	W																						
IF2370	Take possession of	At-grade road within Portion M45	0	31-Aug-16		31-Aug-16		0%	0	838				Take	possessi	on of	At-grade	e road	l within	Portion	M45, Ta	ake poss	ession	of At-gr
IF2380	Remove hoarding fi	xed to the sheet pile	5	02-Sep-16	08-Sep-16	02-Sep-16	08-Sep-16	0%	0	604					IF2380	, Rem	nove hoa	arding	, fixed t	o the sl	neet pile			
IF2390	Install hoarding on	road-side edge of footway (500mm clearand	12	09-Sep-16	26-Sep-16	09-Sep-16	26-Sep-16	0%	0	604							IF2390	), Ins	tall hoa	arding o	n road-si	de edge	of foot	.way (50
IF2400	Construct two DN15	50 DI fresh water, and one DN100 DI salt w	12	27-Sep-16	17-Oct-16	27-Sep-16	17-Oct-16	0%	0	604										2400, C	onstruct	two DN	150 DI	fresh w
IF2410	Pressure test, Remo	ove blank flange and make final connections	1	18-Oct-16	18-Oct-16	18-Oct-16	18-Oct-16	0%	0	604									IF	2410,	Pressure	test, Re	move l	əlank fla
IF2420	Backfill pipes to the	footway formation levels	1	20-Oct-16	20-Oct-16	20-Oct-16	20-Oct-16	0%	0	604										1 1	, Backfill		1	
IF2430	Complete WSD wor	ks for At-grade road (8Jul17)	0		20-Oct-16		20-Oct-16	0%	0	827									\$	Comple	te WSD \	works fo	r At-gr	ade roac
Towngas In	terface with PIW																				(			
IF2440	Take possession of	At-grade road within Portion M44	0	31-Aug-16		31-Aug-16		0%	0	692				Take						1	M44, Ta		ession	of At-gr
IF2450	Trench excavation f	or gas pipe installation	5	02-Sep-16	08-Sep-16	02-Sep-16	08-Sep-16	0%	0	499					IF2450	, Trer	ich exca	vatio	n for ga	ıs pipe i	nstallatio	h		
IF2460		M+ & RDE building gas main (by Towngas)	130	09-Sep-16	27-Feb-17	09-Sep-16	27-Feb-17	0%	0	499												<u> </u>		
Power Inter	face with PIW																				(			
IF2230	Take possession of	the completed At-grade road pavement in M	0	31-Aug-16		31-Aug-16		0%	0	689				Take	possessi	on of	the com	pleter	d At-gr	ade roa	d paveme	ent in M	44, Tal	ke posse
IF2240		or laying 11kV & 132kV cable by CLP	73	02-Sep-16	09-Dec-16	02-Sep-16	09-Dec-16	0%	0	497								—						
Telecoms Ir	nterface with PIW																				1			
IF2500	Take possession of	the completed At-grade road pavement in M	0	31-Aug-16		31-Aug-16		0%	0	386				Take	possessi	on of	the com	plete	d At-gr	ade roa	d paveme	ent in M	44, Tal	ke posse
IF2510	Excavate trenches	or laying telecom ducts	5	02-Sep-16	08-Sep-16	02-Sep-16	08-Sep-16	0%	0	276					IF2510	, Exca	avate tre	enche	s for la	ying tel	ecom du	cts		
IF2520	Lay ducts & leave c	onnecting ends for PIW drawpit consstructio	72	09-Sep-16	14-Dec-16	09-Sep-16	14-Dec-16	0%	0	276				┦										
	nterface with PIW																							
IF4010	Construct the DN37	5 sewer drain within Austin Road West and	50	29-Feb-16	03-May-16	05-Dec-15 A	30-Sep-16	90%	-98	615											DN375 s			
IF4020	Vacate L08, L19 to	Lyric foundation contractor	0		30-Sep-16		30-Sep-16	0%	0	847				-			8 Vac	ate L(	08, L19	) to Lyri	c founda	tion con	tractor	, Vacate
		Pipes Interface with PIW																						
IF4100	Take Possession of	M15,M16, M38 & M39	0	02-Sep-16		02-Sep-16		0%	0	395				<b>8</b> Take	e Posses	sion c	of M15,M	116, 1	138 & 1	439, Та	ke Posse	ssion of	M15,N	116, M3

Prepared on 08-Sep-16 (3MPP\_11)

ivity ID								1		1 -		1 0010			
	Activity Name		Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish √ariance	Current Float	Aug 31 07	ust 2016 14 21	28	Septembe	er 2016 18
IF4110	Install two DN600 S	Seawater Intake mains, DN100 Chorinationa	120	02-Sep-16	09-Feb-17	02-Sep-16	09-Feb-17	0%	0	395					
Summary I	Facade Progra	amme													
Major Key I	Milestone Date	S													
SMS.1010	Start of Embeds Ins	stallation at M+ Podium	0	11-Oct-16		11-Oct-16		0%	0	837					
<b>Pre-Constr</b>	uction, Procure	ements & Bulk Production													
SUM.0050	Facade - Material Su	ubmission	205	31-Mar-16	03-Dec-16	22-Oct-15 A	29-Sep-16	80%	54	41					
SUM.0060	Facade - Visual Mod	:k-Up	231	31-Mar-16	06-Jan-17	27-Oct-15 A	18-Nov-16	70%	39	73					
SUM.0020	Facade - Shop Draw	vings	145	31-Mar-16	22-Sep-16	05-Mar-16 A	09-Nov-16	30%	-38	127					
SUM.0030	Facade - Embed BD	Submission	204	26-Apr-16	30-Dec-16	14-Mar-16 A	12-Jan-17	50%	-10	36					
SUM.0040	Facade - BD Submis	ssion	180	15-Jul-16	22-Feb-17	05-Jun-16 A	13-Apr-17	10%	-43	242					
SUM.0080	Facade - Performan	ce Test Mock-Up	263	31-Aug-16	22-Jul-17	31-Aug-16	22-Jul-17	0%	0	138					
SUM.0025	Facade Door - Shop	Drawings	79	31-Aug-16	03-Dec-16	31-Aug-16	03-Dec-16	0%	0	12			Z		
SUM.0070	Facade - Production	Mock-Up	172	30-Sep-16	05-May-17	30-Sep-16	05-May-17	0%	0	84					
M+ RC Stru	icture		,			· · · · ·									
M+ Podium															
SUM.0100	Podium - B1/Floor S	Slab Structure	215	31-Mar-16	15-Dec-16	15-Mar-16 A	22-Nov-16	30%	20	85					
SUM.0110	Podium - Grd/Flr Sla	ab Structure	272	11-Oct-16	08-Sep-17	11-Oct-16	08-Sep-17	0%	0	70					
SUM.0120	Podium - 1st/Flr Sla	ab Structure	260	10-Nov-16	25-Sep-17	10-Nov-16	25-Sep-17	0%	0	392					
Prelimina	ries														
Pre-Constr	ruction - Desig	gn & Procurements													
		odium (By Permasteelisa)													
												· · · /			
Facade Shop	p Drawing Submi	ssion													
Facade Shop		ssion										/		 	
-	de	ssion	11	18-Aug-16	30-Aug-16	18-Aug-16 A	12-Sep-16	0%	-11	107				 <b>D</b> S	6.2004
Tower Facad	<b>de</b> Approval	ssion	11	18-Aug-16	30-Aug-16	18-Aug-16 A	12-Sep-16	0%	-11	107		-		 <b>D</b> S	6.2004
Tower Faca DS.2004.12 Podium Fac	<b>de</b> Approval	ssion	11			18-Aug-16 A 30-Jul-16 A		0%		107 30				DS.2004	
Tower Faca DS.2004.12 Podium Fac	de Approval cade		<u> </u>	20-Aug-16		30-Jul-16 A									
Tower Faca           DS.2004.12           Podium Fac           DS.2004.18	de Approval cade 2nd Submission		6	20-Aug-16 06-Sep-16	26-Aug-16	30-Jul-16 A 06-Sep-16	05-Sep-16	20%	-8	30					4.18, 2
Tower Faca           DS.2004.12           Podium Fac           DS.2004.18           DS.2004.20	de Approval cade 2nd Submission Comment on 2nd S		6 11	20-Aug-16 06-Sep-16 20-Sep-16	26-Aug-16 19-Sep-16 26-Sep-16	30-Jul-16 A 06-Sep-16	05-Sep-16 19-Sep-16	20% 0%	-8 0	30 30			-		4.18, 2
Tower Faca           DS.2004.12           Podium Fac           DS.2004.18           DS.2004.20           DS.2004.22           DS.2004.24	de Approval cade 2nd Submission Comment on 2nd S 3rd Submission Approval		6 11 6 12	20-Aug-16 06-Sep-16 20-Sep-16 27-Sep-16	26-Aug-16 19-Sep-16 26-Sep-16	30-Jul-16 A 06-Sep-16 20-Sep-16	05-Sep-16 19-Sep-16 26-Sep-16	20% 0% 0%	-8 0 0	30 30 30					4.18, 2
Tower Faca           DS.2004.12           Podium Fac           DS.2004.18           DS.2004.20           DS.2004.22           DS.2004.24	de Approval cade 2nd Submission Comment on 2nd S 3rd Submission Approval	ubmission inked & Straight B1/F & G/F),CW-01	6 11 6 12	20-Aug-16 06-Sep-16 20-Sep-16 27-Sep-16	26-Aug-16 19-Sep-16 26-Sep-16 12-Oct-16	30-Jul-16 A 06-Sep-16 20-Sep-16	05-Sep-16 19-Sep-16 26-Sep-16	20% 0% 0%	-8 0 0	30 30 30				DS.2004	4.18, 2
Tower Faca           DS.2004.12           Podium Fac           DS.2004.18           DS.2004.20           DS.2004.22           DS.2004.24           Glass Wall v	de Approval cade 2nd Submission Comment on 2nd S 3rd Submission Approval with T Mullion (K	ubmission inked & Straight B1/F & G/F),CW-01	6 11 6 12	20-Aug-16 06-Sep-16 20-Sep-16 27-Sep-16 3d 10-Aug-16	26-Aug-16 19-Sep-16 26-Sep-16 12-Oct-16 20-Aug-16	30-Jul-16 A 06-Sep-16 20-Sep-16 27-Sep-16	05-Sep-16 19-Sep-16 26-Sep-16 12-Oct-16	20% 0% 0% 0%	-8 0 0	30 30 30 30				DS.2004	4.18, DS.
Tower Faca           DS.2004.12           Podium Fac           DS.2004.18           DS.2004.20           DS.2004.22           DS.2004.24           Glass Wall           DS.2004.28	de Approval ade 2nd Submission Comment on 2nd S 3rd Submission Approval with T Mullion (K Comment on 1st Su	ubmission inked & Straight B1/F & G/F),CW-01 Ibmission	6 11 6 12 a to 0 10	20-Aug-16 06-Sep-16 20-Sep-16 27-Sep-16 <b>3d</b> 10-Aug-16 10-Sep-16	26-Aug-16 19-Sep-16 26-Sep-16 12-Oct-16 20-Aug-16	30-Jul-16 A 06-Sep-16 20-Sep-16 27-Sep-16 30-Jul-16 A 10-Sep-16	05-Sep-16 19-Sep-16 26-Sep-16 12-Oct-16 09-Sep-16	20% 0% 0% 0% 5%		30 30 30 30 30 30				DS.2004	4.18, 2 DS
Tower Faca           DS.2004.12           Podium Fac           DS.2004.18           DS.2004.20           DS.2004.22           DS.2004.24           Glass Wall V           DS.2004.28           DS.2004.30	de Approval cade 2nd Submission Comment on 2nd S 3rd Submission Approval with T Mullion (K Comment on 1st Su 2nd Submission	ubmission inked & Straight B1/F & G/F),CW-01 Ibmission	6 11 6 12 <b>a to 0</b> 10 5	20-Aug-16 06-Sep-16 20-Sep-16 27-Sep-16 <b>3d</b> 10-Aug-16 10-Sep-16 19-Sep-16	26-Aug-16 19-Sep-16 26-Sep-16 12-Oct-16 20-Aug-16 15-Sep-16	30-Jul-16 A 06-Sep-16 20-Sep-16 27-Sep-16 30-Jul-16 A 10-Sep-16 19-Sep-16	05-Sep-16 19-Sep-16 26-Sep-16 12-Oct-16 09-Sep-16 15-Sep-16	20% 0% 0% 0% 5% 0%	8 0 0 0 -17 0	30 30 30 30 30 30 3 3 3				DS.2004	4.18, 2 DS
Tower Faca           DS.2004.12           Podium Fac           DS.2004.18           DS.2004.20           DS.2004.22           DS.2004.24           Glass Wall           DS.2004.28           DS.2004.30           DS.2004.32	de Approval ade 2nd Submission Comment on 2nd S 3rd Submission Approval with T Mullion (K Comment on 1st Su 2nd Submission Comment on 2nd S	ubmission inked & Straight B1/F & G/F),CW-01 Ibmission	6 11 6 12 <b>a to 0</b> 10 5 10	20-Aug-16 06-Sep-16 20-Sep-16 27-Sep-16 <b>3d</b> 10-Aug-16 19-Sep-16 30-Sep-16	26-Aug-16 19-Sep-16 26-Sep-16 12-Oct-16 20-Aug-16 15-Sep-16 30-Sep-16	30-Jul-16 A 06-Sep-16 20-Sep-16 27-Sep-16 30-Jul-16 A 10-Sep-16 19-Sep-16 30-Sep-16	05-Sep-16 19-Sep-16 26-Sep-16 12-Oct-16 09-Sep-16 15-Sep-16 30-Sep-16	20% 0% 0% 0% 0% 5% 0% 0%	8 0 0 0 -17 0 0	30 30 30 30 30 30 3 3 3 3 3				DS.2004	4.18, 2 DS
Tower Faca           DS.2004.12           Podium Fac           DS.2004.18           DS.2004.20           DS.2004.22           DS.2004.24           Glass Wall v           DS.2004.28           DS.2004.30           DS.2004.32           DS.2004.32	de         Approval         ade         2nd Submission         Comment on 2nd S         3rd Submission         Approval         with T Mullion (K         Comment on 1st Su         2nd Submission         Comment on 2nd S         3rd Submission         Comment on 1st Su         2nd Submission         Comment on 2nd S         3rd Submission         Approval	ubmission <b>inked &amp; Straight B1/F &amp; G/F),CW-01</b> ubmission ubmission	6 11 6 12 <b>a to 0</b> 10 5 10 7 12	20-Aug-16 06-Sep-16 20-Sep-16 27-Sep-16 <b>3d</b> 10-Aug-16 10-Sep-16 30-Sep-16 11-Oct-16	26-Aug-16 19-Sep-16 26-Sep-16 12-Oct-16 20-Aug-16 15-Sep-16 30-Sep-16 08-Oct-16	30-Jul-16 A 06-Sep-16 20-Sep-16 27-Sep-16 30-Jul-16 A 10-Sep-16 19-Sep-16 30-Sep-16	05-Sep-16 19-Sep-16 26-Sep-16 12-Oct-16 09-Sep-16 15-Sep-16 30-Sep-16 08-Oct-16	20% 0% 0% 0% 5% 5% 0% 0%	8 0 0 0 -17 0 0 0	30 30 30 30 30 3 3 3 3 3 3 3				DS.2004	4.18, 2 DS
Tower Faca           DS.2004.12           Podium Fac           DS.2004.18           DS.2004.20           DS.2004.22           DS.2004.24           Glass Wall v           DS.2004.28           DS.2004.30           DS.2004.32           DS.2004.32	de         Approval         ade         2nd Submission         Comment on 2nd S         3rd Submission         Approval         with T Mullion (K         Comment on 1st Su         2nd Submission         Comment on 2nd S         3rd Submission         Comment on 1st Su         2nd Submission         Comment on 2nd S         3rd Submission         Approval	ubmission inked & Straight B1/F & G/F),CW-01 Ibmission	6 11 6 12 <b>a to 0</b> 10 5 10 7 12	20-Aug-16 06-Sep-16 20-Sep-16 27-Sep-16 <b>3d</b> 10-Aug-16 10-Sep-16 19-Sep-16 30-Sep-16 11-Oct-16	26-Aug-16 19-Sep-16 26-Sep-16 12-Oct-16 20-Aug-16 15-Sep-16 30-Sep-16 08-Oct-16	30-Jul-16 A 06-Sep-16 20-Sep-16 27-Sep-16 30-Jul-16 A 10-Sep-16 19-Sep-16 30-Sep-16	05-Sep-16 19-Sep-16 26-Sep-16 12-Oct-16 09-Sep-16 15-Sep-16 30-Sep-16 08-Oct-16 24-Oct-16	20% 0% 0% 0% 5% 5% 0% 0%	8 0 0 0 -17 0 0 0	30 30 30 30 30 3 3 3 3 3 3 3				DS.2004	4.18, : DS 004.2 DS.20
Tower Faca         DS.2004.12         Podium Fac         DS.2004.18         DS.2004.20         DS.2004.22         DS.2004.24         Glass Wall         DS.2004.28         DS.2004.30         DS.2004.32         DS.2004.34         DS.2004.34         DS.2004.36	de Approval ade 2nd Submission Comment on 2nd S 3rd Submission Approval with T Mullion (K Comment on 1st Su 2nd Submission Comment on 2nd S 3rd Submission Approval with Precast Mul	ubmission inked & Straight B1/F & G/F),CW-01 ubmission ubmission	6 11 6 12 <b>a to 0</b> 10 5 10 7 12 <b>nd 07</b>	20-Aug-16 06-Sep-16 20-Sep-16 27-Sep-16 3d 10-Aug-16 10-Sep-16 30-Sep-16 11-Oct-16	26-Aug-16 19-Sep-16 26-Sep-16 12-Oct-16 20-Aug-16 15-Sep-16 30-Sep-16 08-Oct-16 24-Oct-16	30-Jul-16 A 06-Sep-16 20-Sep-16 27-Sep-16 30-Jul-16 A 10-Sep-16 19-Sep-16 30-Sep-16 11-Oct-16	05-Sep-16 19-Sep-16 26-Sep-16 12-Oct-16 09-Sep-16 15-Sep-16 30-Sep-16 08-Oct-16 24-Oct-16	<ul> <li>20%</li> <li>0%</li> <li>0%</li> <li>0%</li> <li>5%</li> <li>0%</li> <li>0%</li> <li>0%</li> <li>0%</li> <li>0%</li> <li>0%</li> <li>0%</li> <li>0%</li> </ul>	8 0 0 0 -17 0 0 0 0 0	30 30 30 30 30 3 3 3 3 3 3 3				DS.2004	4.18, : DS 004.2 DS.20
Tower Faca         DS.2004.12         Podium Fac         DS.2004.18         DS.2004.20         DS.2004.22         DS.2004.24         Glass Wall         DS.2004.28         DS.2004.30         DS.2004.32         DS.2004.34         DS.2004.34         DS.2004.34         DS.2004.34         DS.2004.36	de Approval Comment on 2nd S Approval Comment on 2nd S Approval Approval With T Mullion (K Comment on 1st Su 2nd Submission Comment on 2nd S 3rd Submission Approval With Precast Mull 1st Submission	ubmission inked & Straight B1/F & G/F),CW-01 ubmission ubmission	6 11 6 12 a to 0 10 5 10 7 12 nd 07 10	20-Aug-16 06-Sep-16 20-Sep-16 27-Sep-16 3d 10-Aug-16 10-Sep-16 19-Sep-16 30-Sep-16 11-Oct-16	26-Aug-16 19-Sep-16 26-Sep-16 12-Oct-16 20-Aug-16 15-Sep-16 30-Sep-16 30-Sep-16 24-Oct-16	30-Jul-16 A 06-Sep-16 20-Sep-16 27-Sep-16 30-Jul-16 A 10-Sep-16 19-Sep-16 30-Sep-16 30-May-16 06-Sep-16	05-Sep-16 19-Sep-16 26-Sep-16 12-Oct-16 09-Sep-16 15-Sep-16 30-Sep-16 24-Oct-16	<ul> <li>20%</li> <li>0%</li> <li>70%</li> </ul>		30 30 30 30 30 30 3 3 3 3 3 3 3 26				DS.2004	4.18, DS 004.2 DS.20
Tower Faca           DS.2004.12           Podium Fac           DS.2004.18           DS.2004.20           DS.2004.22           DS.2004.24           Glass Wall           DS.2004.28           DS.2004.30           DS.2004.32           DS.2004.32           DS.2004.34           DS.2004.34           DS.2004.36           Glass Wall           DS.2004.38           DS.2004.40	de Approval ade 2nd Submission Comment on 2nd S 3rd Submission Approval with T Mullion (K Comment on 1st Su 2nd Submission Comment on 2nd S 3rd Submission Approval with Precast Mull 1st Submission Comment on 1st Su	ubmission <b>inked &amp; Straight B1/F &amp; G/F),CW-01</b> Ibmission <b>lion &amp; Caremic Mullion,CW-04-05d a</b> Ibmission	6 11 6 12 <b>a to 0</b> 10 5 10 7 12 <b>nd 07</b> 10 10	20-Aug-16 06-Sep-16 20-Sep-16 27-Sep-16 3d 10-Aug-16 10-Sep-16 30-Sep-16 30-Sep-16 30-May-16 06-Sep-16 19-Sep-16	26-Aug-16 19-Sep-16 26-Sep-16 12-Oct-16 20-Aug-16 15-Sep-16 30-Sep-16 30-Sep-16 24-Oct-16 24-Oct-16 10-Jun-16 17-Sep-16	30-Jul-16 A 06-Sep-16 20-Sep-16 27-Sep-16 30-Jul-16 A 10-Sep-16 19-Sep-16 30-Sep-16 11-Oct-16 30-May-16 06-Sep-16	05-Sep-16 19-Sep-16 26-Sep-16 12-Oct-16 09-Sep-16 15-Sep-16 30-Sep-16 24-Oct-16 24-Oct-16 05-Sep-16 17-Sep-16	<ul> <li>20%</li> <li>20%</li> <li>0%</li> <li>0%</li> <li>0%</li> <li>0%</li> <li>0%</li> <li>0%</li> <li>0%</li> <li>70%</li> <li>0%</li> <li>0%</li> </ul>	8 0 0 0 0 -17 0 0 0 0 0 0 0 0 -72 0	30 30 30 30 30 30 3 3 3 3 3 3 3 26 26				DS.2004	4.18, : DS.20
Tower Faca           DS.2004.12           Podium Fac           DS.2004.18           DS.2004.20           DS.2004.22           DS.2004.24           Glass Wall           DS.2004.28           DS.2004.30           DS.2004.32           DS.2004.34           DS.2004.38           DS.2004.34           DS.2004.34           DS.2004.34           DS.2004.34           DS.2004.36           Glass Wall           DS.2004.38           DS.2004.40           DS.2004.42	de Approval Comment on 2nd S Comment on 1st Su Comment on 1st Su Comment on 1st Su Comment on 2nd S Comment on 2nd S Comment on 2nd S Comment on 1st Su Comment	ubmission <b>inked &amp; Straight B1/F &amp; G/F),CW-01</b> Ibmission <b>lion &amp; Caremic Mullion,CW-04-05d a</b> Ibmission	6 11 6 12 <b>a to 0</b> 10 5 10 7 12 <b>nd 07</b> 10 10 10 6	20-Aug-16 06-Sep-16 20-Sep-16 27-Sep-16 3d 10-Aug-16 10-Sep-16 19-Sep-16 30-Sep-16 11-Oct-16 30-May-16 06-Sep-16 19-Sep-16 27-Sep-16	26-Aug-16 19-Sep-16 26-Sep-16 12-Oct-16 20-Aug-16 15-Sep-16 30-Sep-16 08-Oct-16 24-Oct-16 10-Jun-16 17-Sep-16 24-Sep-16	30-Jul-16 A 06-Sep-16 20-Sep-16 27-Sep-16 30-Jul-16 A 10-Sep-16 19-Sep-16 30-Sep-16 11-Oct-16 30-May-16 06-Sep-16 19-Sep-16 27-Sep-16	05-Sep-16 19-Sep-16 26-Sep-16 12-Oct-16 09-Sep-16 15-Sep-16 30-Sep-16 08-Oct-16 24-Oct-16 17-Sep-16 17-Sep-16	<ul> <li>20%</li> <li>0%</li> </ul>		30 30 30 30 30 30 3 3 3 3 3 3 3 26 26 26 26				DS.2004	4.18, : DS.20
Tower Faca           DS.2004.12           Podium Fac           DS.2004.18           DS.2004.20           DS.2004.22           DS.2004.24           Glass Wall           DS.2004.28           DS.2004.30           DS.2004.32           DS.2004.34           DS.2004.35           Glass Wall           DS.2004.34           DS.2004.34           DS.2004.34           DS.2004.34           DS.2004.34           DS.2004.34           DS.2004.34           DS.2004.34           DS.2004.34	de         Approval         ade         2nd Submission         Comment on 2nd S         3rd Submission         Approval         with T Mullion (K         Comment on 1st Su         2nd Submission         Comment on 1st Su         2nd Submission         Comment on 2nd S         3rd Submission         Comment on 2nd S         3rd Submission         Approval         with Precast Mull         1st Submission         Comment on 1st Su         2nd Submission         Comment on 1st Su         Comment on 2nd S	ubmission <b>inked &amp; Straight B1/F &amp; G/F),CW-01</b> Ibmission <b>lion &amp; Caremic Mullion,CW-04-05d a</b> Ibmission	6 11 6 12 <b>a to 0</b> 10 5 10 7 12 <b>nd 07</b> 10 10 10 6	20-Aug-16 06-Sep-16 20-Sep-16 27-Sep-16 3d 10-Aug-16 10-Sep-16 30-Sep-16 30-Sep-16 11-Oct-16 30-May-16 06-Sep-16 19-Sep-16 19-Sep-16 12-Oct-16	26-Aug-16 19-Sep-16 26-Sep-16 12-Oct-16 20-Aug-16 15-Sep-16 30-Sep-16 30-Sep-16 24-Oct-16 24-Oct-16 17-Sep-16 17-Sep-16 11-Oct-16	30-Jul-16 A 06-Sep-16 20-Sep-16 27-Sep-16 30-Jul-16 A 10-Sep-16 19-Sep-16 30-Sep-16 11-Oct-16 30-May-16 19-Sep-16 19-Sep-16 19-Sep-16 12-Oct-16	05-Sep-16 19-Sep-16 26-Sep-16 12-Oct-16 09-Sep-16 15-Sep-16 30-Sep-16 24-Oct-16 24-Oct-16 17-Sep-16 17-Sep-16 24-Sep-16 11-Oct-16	<ul> <li>20%</li> <li>20%</li> <li>0%</li> </ul>	8 0 0 0 -17 0 0 0 0 0 0 -72 0 0 0 0	30 30 30 30 30 30 3 3 3 3 3 3 3 3 3 26 26 26 26 26				DS.2004	4.18, : DS.20

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repared on 08		(3MRP-1)	1) I	nree M	onths	Kolling	g Progra	amn	nes	Stat	us	at 3	1 AI	ug 2	<b>U16</b>
vity ID	Activity Name	I	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish √ariance	Current Float	31 (	August 20 07   14		28 04	September 201
DS.2004.50	1st Submission		10	31-May-16	-	27-May-16	12-Sep-16	30%	-77	20					DS.20
DS.2004.52	Comment on 1st Su	Ibmission	10	14-Sep-16	26-Sep-16	14-Sep-16	26-Sep-16	0%	0	20				4	
DS.2004.54	2nd Submission		6	27-Sep-16	04-Oct-16	27-Sep-16	04-Oct-16	0%	0	20					
DS.2004.56	Comment on 2nd S	ubmission	11	05-Oct-16	18-Oct-16	05-Oct-16	18-Oct-16	0%	0	20					
DS.2004.58	3rd Submission		6	19-Oct-16	25-Oct-16	19-Oct-16	25-Oct-16	0%	0	20				-	
DS.2004.60	Approval		12	26-Oct-16	08-Nov-16	26-Oct-16	08-Nov-16	0%	0	20				┛	
Garden Ga	allery Ceramic Cla	dding & Ceiling,CE-03a,03b,03c													
DS.2004.62	1st Submission		10	30-Apr-16	12-May-16	17-Apr-16 A	12-Sep-16	90%	-101	82					DS.200
DS.2004.64	Comment on 1st Su	ıbmission	11	13-Sep-16	27-Sep-16	13-Sep-16	27-Sep-16	0%	0	82				4	
DS.2004.66	2nd Submission		6	27-Sep-16	05-Oct-16	27-Sep-16	05-Oct-16	0%	0	82				-	
DS.2004.68	Comment on 2nd S	ubmission	11	05-Oct-16	19-Oct-16	05-Oct-16	19-Oct-16	0%	0	82					
DS.2004.70	3rd Submission		6	19-Oct-16	26-Oct-16	19-Oct-16	26-Oct-16	0%	0	82					
DS.2004.72	Approval		12	26-Oct-16	09-Nov-16	26-Oct-16	09-Nov-16	0%	0	82					
L3 Storefr	ont,CW-08a,08b														
DS.2004.78			5	10-Aug-16	15-Aug-16	22-Jul-16 A	02-Sep-16	70%	-16	153				DS	.2004.78, 2
DS.2004.80	Comment on 2nd S	ubmission	11	03-Sep-16	15-Sep-16	03-Sep-16	15-Sep-16	0%	0	153				<b>↓</b> 💻	DS.2
DS.2004.82	3rd Submission		6	17-Sep-16	23-Sep-16	17-Sep-16	23-Sep-16	0%	0	153					<u> </u>
DS.2004.84	Approval		12	24-Sep-16	08-Oct-16	24-Sep-16	08-Oct-16	0%	0	153					
Strip Glaz	ing at Skylight Gal	lery L3 & Plaza Skylight,CW10,SK-(	)1.02									_			
DS.2004.86		,,,,,,, .	10	31-May-16	11-Jun-16	14-May-16	07-Sep-16	50%	-73	81			++		DS.2004.8
DS.2004.88	Comment on 1st Su	Ibmission	10	08-Sep-16	20-Sep-16	08-Sep-16	20-Sep-16	0%	0	81				ļ	
DS.2004.90			5	· ·		21-Sep-16	26-Sep-16	0%	0	81					
DS.2004.92	Comment on 2nd S	ubmission	11	· ·	12-Oct-16	· ·	12-Oct-16	0%	0	81					
DS.2004.94			6	13-Oct-16		•	19-Oct-16	0%	0	121					
DS.2004.96				20-Oct-16			02-Nov-16	0%	0	121					
		ng FAC-LV-01b (Additional Scope)			01 10	10 000 10	02 10	0.10							
	1st Submission		11	31-Aug-16	13-Sep-16	31-Aug-16*	13-Sep-16	0%	0	102					D\$.20
	.6 Comment on 1st Su	Ihmission	12		28-Sep-16		28-Sep-16	0%	0	102					
	6 2nd Submission		5	-	05-Oct-16		05-Oct-16	0%	0	102					
	6 Comment on 2nd S	uhmission	11	05-Oct-16			19-Oct-16	0%	0	102					
	6 3rd Submission		6	19-Oct-16			26-Oct-16	0%	0	102					
DS.2004.14			11		08-Nov-16		08-Nov-16	0%	0	102					
		a Submission (Additional Works)	11	20 000 10	00 1100 10	20 000 10	00 100 10	0 /0	U	102					
	•	gs Submission (Additional Works)	N4	on /Total =	<b>52</b> noo)										
	-	<pre>ilazed Doors Bet Ceramic Concrete ge # 1 - 1st Submission</pre>		01-Sep-16	•	01 Son 16*	15-Sep-16	0.0%	0	14					DS.2
		ge # 1 - Comment on 1st Submission		•	· ·	17-Sep-16	30-Sep-16	0%	0	14					
		·	12	-			•								
		ge # 1 - 2nd Submission	17	03-Oct-16			22-Oct-16	0%	0	14					
		ge # 1 - Comment on 2nd Submission	10		03-Nov-16		03-Nov-16	0%	0	14					
		ge # 1 - 3rd Submission	12			04-Nov-16	17-Nov-16	0%	0	14					
	16 Facade Door Packag		12			18-Nov-16	01-Dec-16	0%	0	14					
		liding Door in L3 Storefront (Total :			•	24.4	10.0	0.01	-						
		ge # 2 - 1st Submission	12		·	31-Aug-16*	13-Sep-16	0%	0	16					D\$.20
		ge # 2 - Comment on 1st Submission	12	-		14-Sep-16	28-Sep-16	0%	0	16					
DS.2004.24	46 Facade Door Packag	ge # 2 - 2nd Submission	18	29-Sep-16	22-Oct-16	29-Sep-16	22-Oct-16	0%	0	16					



### (3MRP-11) Three Months Rolling Programme Status at 31 Aug 2016

Activ	ity ID Activity	ty Name		Ori.	BaseLine Start	BaseLine	Forecast / Actual	Forcast / Actual	%	Finish 0	Current		Aug	ust 20′	6		Ser	otember 2016
		-		Dur.		Finish	Start	Finish	Compl.	Variance	Float	31	07	14	21	28	04	11 18
			e # 2 - Comment on 2nd Submission	11		04-Nov-16	22-Oct-16	04-Nov-16	0%	0	16							
			e # 2 - 3rd Submission	11		17-Nov-16		17-Nov-16	0%	0	16							
	DS.2004.276 Facad				17-Nov-16	30-Nov-16	1/-Nov-16	30-Nov-16	0%	0	16							
		-	ving Door at L3 Cafe (Total = 1 no M	lanua	-													
			e # 3 - 1st Submission	12			31-Aug-16*	13-Sep-16	0%	0	27							D\$.200
			e # 3 - Comment on 1st Submission	12	-	28-Sep-16	-	28-Sep-16	0%	0	27							
			e # 3 - 2nd Submission	12		15-Oct-16		15-Oct-16	0%	0	27							
		5	e # 3 - Comment on 2nd Submission	12		29-Oct-16	15-Oct-16	29-Oct-16	0%	0	27							
		-	e # 3 - 3rd Submission	5		04-Nov-16	29-Oct-16	04-Nov-16	0%	0	27							
	DS.2004.336 Facad	ide Door Package	e # 3 - Approval	11	04-Nov-16	17-Nov-16	04-Nov-16	17-Nov-16	0%	0	27							
		-	ving Door Mounted in GW with T-M	ullion		-												
	DS.2004.346 Facad	ide Door Package	e # 4 - 1st Submission	14			01-Sep-16*	19-Sep-16	0%	0	14	1						
	DS.2004.356 Facad	ide Door Package	e # 4 - omment on 1st Submission	12		04-Oct-16	20-Sep-16	04-Oct-16	0%	0	14							_
	DS.2004.366 Facad	de Door Package	e # 4 - 2nd Submission	14		21-Oct-16	05-Oct-16	21-Oct-16	0%	0	14	1						
			e # 4 - Comment on 2nd Submission	13	22-Oct-16	05-Nov-16	22-Oct-16	05-Nov-16	0%	0	14							
	DS.2004.386 Facad	ide Door Package	e # 4 - 3rd Submission	10	07-Nov-16	17-Nov-16	07-Nov-16	17-Nov-16	0%	0	14							
	DS.2004.396 Facac	ide Door Package	e # 4 - Approval	12	18-Nov-16	01-Dec-16	18-Nov-16	01-Dec-16	0%	0	14							
	Facade Door Pac	ckage # 5: La	rge Double Door at B1/F Transform	aer R	oom (Tota	l = 1 no ma	anual)											
	DS.2004.406 Facac	ide Door Package	e # 5 - 1st Submission	14	01-Sep-16	19-Sep-16	01-Sep-16*	19-Sep-16	0%	0	24	1						
	DS.2004.416 Facac	ide Door Package	e # 5 - Comment on 1st Submission	12	19-Sep-16	04-Oct-16	19-Sep-16	04-Oct-16	0%	0	24							
	DS.2004.426 Facad	ide Door Package	e # 5 - 2nd Submission	11	04-Oct-16	18-Oct-16	04-Oct-16	18-Oct-16	0%	0	24							
	DS.2004.436 Facad	ide Door Package	e # 5 - Comment on 2nd Submission	10	19-Oct-16	29-Oct-16	19-Oct-16	29-Oct-16	0%	0	24							
	DS.2004.446 Facad	ide Door Package	e # 5 - 3rd Submission	6	31-Oct-16	05-Nov-16	31-Oct-16	05-Nov-16	0%	0	24							
	DS.2004.456 Facad	ide Door Package	e # 5 - Approval	12	07-Nov-16	19-Nov-16	07-Nov-16	19-Nov-16	0%	0	24							
	Facade Door Pac	ckage # 6: B1	I/F Exit Doors (Total = 7 nos manua	I)														
	DS.2004.466 Facad	ide Door Package	e # 6 - 1st Submission	13	01-Sep-16	17-Sep-16	01-Sep-16*	17-Sep-16	0%	0	24							DS.
	DS.2004.476 Facac	ide Door Package	e # 6 - Comment on 1st Submission	10	19-Sep-16	29-Sep-16	19-Sep-16	29-Sep-16	0%	0	24	1						_
	DS.2004.486 Facad	ide Door Package	e # 6 - 2nd Submission	12	30-Sep-16	15-Oct-16	30-Sep-16	15-Oct-16	0%	0	24	1						
	DS.2004.496 Facac	ide Door Package	e # 6 - Comment on 2nd Submission	12	17-Oct-16	29-Oct-16	17-Oct-16	29-Oct-16	0%	0	24							
	DS.2004.506 Facad	ide Door Package	e # 6 - 3rd Submission	6	31-Oct-16	05-Nov-16	31-Oct-16	05-Nov-16	0%	0	24							
	DS.2004.516 Facad	ide Door Package	e # 6 - Approval	12	07-Nov-16	19-Nov-16	07-Nov-16	19-Nov-16	0%	0	24							
	Facade Door Pac	ckage # 7: Ga	arden Gallery Door (Total = 2 nos m	anua	l)													
	DS.2004.526 Facad	ide Door Package	e # 7 - 1st Submission	12	31-Aug-16	13-Sep-16	31-Aug-16*	13-Sep-16	0%	0	28					F	=	DS.200
	DS.2004.536 Facad	de Door Package	e # 7 - Comment on 1st Submission	12	14-Sep-16	28-Sep-16	14-Sep-16	28-Sep-16	0%	0	28							
	DS.2004.546 Facad	ide Door Package	e # 7 - 2nd Submission	12	29-Sep-16	15-Oct-16	29-Sep-16	15-Oct-16	0%	0	28							
	DS.2004.556 Facad	ide Door Package	e # 7 - Comment on 2nd Submission	11	15-Oct-16	28-Oct-16	15-Oct-16	28-Oct-16	0%	0	28							
	DS.2004.566 Facac	ide Door Package	e # 7 - 3rd Submission	6	28-Oct-16	04-Nov-16	28-Oct-16	04-Nov-16	0%	0	28							
	DS.2004.576 Facac	ide Door Package	e # 7 - Approval	10	04-Nov-16	16-Nov-16	04-Nov-16	16-Nov-16	0%	0	28							
	Facade Door Pac	ckage # 8: Do	oor Loacted at Metal Claddings (Tot	al = 2	0 nos man	ual)												
	DS.2004.586 Facad	ide Door Package	e # 8 - 1st Submission	11	01-Sep-16	14-Sep-16	01-Sep-16*	14-Sep-16	0%	0	32						<b>—</b>	<u> </u>
	DS.2004.596 Facac	de Door Package	e # 8 - Comment on 1st Submission	12	15-Sep-16	29-Sep-16	15-Sep-16	29-Sep-16	0%	0	32							
	DS.2004.606 Facac	ide Door Package	e # 8 - 2nd Submission	6	30-Sep-16	07-Oct-16	30-Sep-16	07-Oct-16	0%	0	32							
	DS.2004.616 Facac	ide Door Package	e # 8 - Comment on 2nd Submission	11	08-Oct-16	21-Oct-16	08-Oct-16	21-Oct-16	0%	0	32							
	DS.2004.626 Facac	ide Door Package	e # 8 - 3rd Submission	6	22-Oct-16	28-Oct-16	22-Oct-16	28-Oct-16	0%	0	32							
				1	1				-				. 1		<u> </u>		<u>`</u>	'

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 November 2016
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 DS.2004.256, Facade Door 💻 DS.2004 266, Fa \_\_\_\_\_ DS.200 2004.286, Facade Door Package # 3 - 1st Submission DS.2004.296, Facade Door Package # 3 - Comment on DS.2004.306, Facade Door Package # 3 -📕 DS.2004.316, Facade Door Pack DS.2004.326, Facade Door DS.2004 336, Fa DS.2004.346, Facade Door Package # 4 - 1st Submission 🔜 DS.2004.356, Facade Door Package # 4 - omment DS.2004.366, Facade Door Package # 🔜 DS.2004.376, Facade Dod \_\_\_\_ DS.2004 386, Fa DS.20 DS 2004.406, Facade Door Package # 5 - 1st Submission 📃 DS.2004.416, Facade Door Package # 5 - ¢ommen DS.2004 426, Facade Door Package # 5 DS.2004.436, Facade Door Pac DS.2004.446, Facade Dod \_\_\_\_\_ DS.2004.456, S.2004.466, Facade Door Package # 6 - 1st Submission DS.2004.476, Facade Door Package # 6 - Comment on DS.2004.486, Facade Door Package # 6 -💻 DS.2004.496, Facade Door Pacl DS.2004.506, Facade Dod \_\_\_\_\_ DS.2004.516, 2004.526, Facade Door Package # 7 - 1st Submission DS.2004.536, Facade Door Package # 7 - Comment on DS.2004.546, Facade Door Package # 7 -📕 DS.2004.556, Facade Door Pack DS.2004.566, Facade Door \_\_\_\_\_ DS.2004.576, Fac Ļ. 2004.586, Facade Door Package # 8 - 1st Submission DS.2004.596, Facade Door Package # 8 - Comment on

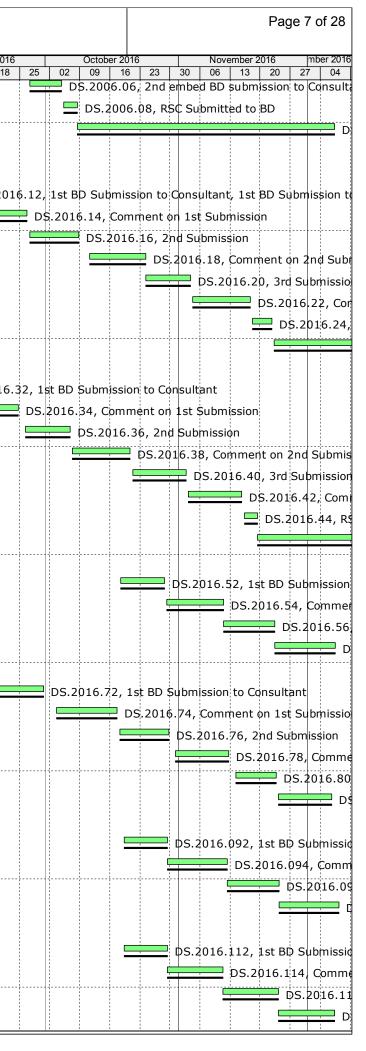
> DS.2004.606, Facade Door Package # 8 - 2nd St DS.2004.616, Facade Door Package # DS.2004.626, Facade Door Pack

Prepared	on	08-Sep-16
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				Unuis	Rolling	riogia			Jia		ug z							
/ ID	Activity Name	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish √ariance	Current Float		28 04	September		October 02 09		Novembe 30 06 13		mbei 27
DS.2004.636	6 Facade Door Package # 8 - Approval	11	29-Oct-16	10-Nov-16	29-Oct-16	10-Nov-16	0%	0	32							DS.	2004.636,	, Fa
Facade Do	or Package # 9: G/F Access Door in Ceramic Tube (	Total =	8 nos)															
DS.2004.646	6 Facade Door Package # 9 - 1st Submission	12	01-Sep-16	15-Sep-16	01-Sep-16*	15-Sep-16	0%	0	25				S.2004.646	, Facade D	oor Packag	e # 9 - 1st S	ubmission	
DS.2004.656	6 Facade Door Package # 9 - Comment on 1st Submission	12	15-Sep-16	30-Sep-16	15-Sep-16	30-Sep-16	0%	0	25			=		S.2004.65	6, Facade I	oor Package	e # 9 - ¢om	nme
DS.2004.666	6 Facade Door Package # 9 - 2nd Submission	12	03-Oct-16	17-Oct-16	03-Oct-16	17-Oct-16	0%	0	25				-		DS.2004.0	66, Facade	Door Packa	age
DS.2004.676	6 Facade Door Package # 9 - Comment on 2nd Submission	11	18-Oct-16	29-Oct-16	18-Oct-16	29-Oct-16	0%	0	25							S.2004.676	5, Facade D	200
DS.2004.686	6 Facade Door Package # 9 - 3rd Submission	6	31-Oct-16	05-Nov-16	31-Oct-16	05-Nov-16	0%	0	25						4	DS.200	4.686, Fac	ad
DS.2004.696	6 Facade Door Package # 9 - Approval	11	07-Nov-16	18-Nov-16	07-Nov-16	18-Nov-16	0%	0	25								DS.2004	4.6
acade Do	or Package # 10: B1/F Carriageway Access Panel /	Doors (	Total = 24 r	nos)														
DS.2004.706	6 Facade Door Package # 10 - 1st Submission	12	01-Sep-16	15-Sep-16	01-Sep-16*	15-Sep-16	0%	0	12			<b></b> ¢	S.2004.706	, Facade D	oor Packag	e # 10 - 1st	Submissior	n
DS.2004.716	6 Facade Door Package # 10 - Comment on 1st Submission	11	15-Sep-16	29-Sep-16	15-Sep-16	29-Sep-16	0%	0	12			=	D:	5.2004.71	5, Facade D	oor Package	# 10 - Con	mm
DS.2004.726	6 Facade Door Package # 10 - 2nd Submission	18	30-Sep-16	22-Oct-16	30-Sep-16	22-Oct-16	0%	0	12					· · ·	<b></b> DS.20	04.726, Fac	ade Door P	<b>'</b> ack
DS.2004.736	6 Facade Door Package # 10 - Comment on 2nd Submission	12	24-Oct-16	05-Nov-16	24-Oct-16	05-Nov-16	0%	0	12							<b></b> DS.200	4.736, Fac	cad
DS.2004.746	6 Facade Door Package # 10 - 3rd Submission	12	07-Nov-16	19-Nov-16	07-Nov-16	19-Nov-16	0%	0	12								<b></b> DS.200	)4.
DS.2004.756	6 Facade Door Package # 10 - Approval	12	21-Nov-16	03-Dec-16	21-Nov-16	03-Dec-16	0%	0	12									P
Facade Do	or Package # 11: CSF Bldg (Total = 2 nos)							1										
DS.2004.766	6 Facade Door Package # 11 - 1st Submission	12	01-Sep-16	15-Sep-16	01-Sep-16*	15-Sep-16	0%	0	26			<b></b> ¢	S.2004.766	, Facade D	oor Packag	e # 11 - 1st	Submissio	'n
DS.2004.776	6 Facade Door Package # 11 - Comment on 1st Submission	12	17-Sep-16	30-Sep-16	17-Sep-16	30-Sep-16	0%	0	26			-		S.2004.77	6, Facade I	oor Package	e # 11 - Co	Jmr
DS.2004.786	6 Facade Door Package # 11 - 2nd Submission	11	03-Oct-16	15-Oct-16	03-Oct-16	15-Oct-16	0%	0	26						DS.2004.78	6, Facade D	oor Packag	ge i
DS.2004.796	6 Facade Door Package # 11 - Comment on 2nd Submission	10	17-Oct-16	27-Oct-16	17-Oct-16	27-Oct-16	0%	0	26	-				[		.2004.796,	Facade Do	or
DS.2004.806	6 Facade Door Package # 11 - 3rd Submission	6	28-Oct-16	03-Nov-16	28-Oct-16	03-Nov-16	0%	0	26							DS.2004	.806, Faca	ide
DS.2004.816	6 Facade Door Package # 11 - Approval	12	04-Nov-16	17-Nov-16	04-Nov-16	17-Nov-16	0%	0	26								DS.2004	1.8
	or Package # 12: B1/F Smoke Vent Panel (Total = 1	no)																
	6 Facade Door Package # 12 - 1st Submission		01-Sep-16	15-Sep-16	01-Sep-16*	15-Sep-16	0%	0	24				S.2004.826	5, Facade D	oor Packag	e # 12 - 1st	Submissio	'n
DS.2004.836	6 Facade Door Package # 12 - Comment on 1st Submission			-	17-Sep-16	29-Sep-16	0%	0	24	-		ļ		5.2004.83	5, Facade D	oor Package	# 12 - Con	mm
	6 Facade Door Package # 12 - 2nd Submission	12	30-Sep-16	15-Oct-16	30-Sep-16	15-Oct-16	0%	0	24	-					DS.2004.84	6, Facade D	oor Packag	ge #
	6 Facade Door Package # 12 - Comment on 2nd Submission				17-Oct-16	29-Oct-16	0%	0	24							S.2004.856	5, Facade D	200
	6 Facade Door Package # 12 - 3rd Submission	6			31-Oct-16	05-Nov-16	0%	0	24								, 4.866, Fac	
	6 Facade Door Package # 12 - Approval				07-Nov-16	19-Nov-16	0%	0	24	_					T		<b>D</b> S.200	
	Submission	12	0, 10, 10	19 1101 10	0, 10, 10	19 1101 10	0 /0	Ű										
I+ Podium																		
	n (B1/F) - Embed Submission																	
	BD Submission & Approval	60	11-Aug-16	09-Oct-16	16-Jul-16 A	03-Sep-16	30%	36	16					DS.2	005.10. BD	Submission	& Approva	al. F
	Preparation of BD Consent Application		-		05-Sep-16	09-Sep-16	0%	0	12	_		DS 20	05.12, Prep				c, , pp. or u	1
	BD Consent Application	30		-	10-Sep-16	09-Oct-16	0%	0	16							Consent Ap	plication	
	n (G/F to 3/F) - Embed Submission	50	10 Sep 10	09 000 10	10 560 10	09 000 10	0 /0	0	10					U.J.Z	005.14, 50	consent Ap	pheaelon	
	RSC Submitted to BD	3	31-Aug-16	02-Son-16	31-Aug-16	02-Sep-16	0%	0	6			2005.2	2, RSC Subn	nitted to BI	<b>`</b>			
	BD Submission & Approval	60	-	•	03-Sep-16	02-3ep-10 01-Nov-16	0%	0	7				_,		-	DS.2005.2	4. BD Sub	mie
	Preparation of BD Consent Application	6			03-Sep-16 02-Nov-16	01-Nov-16	0%	0	6								005.26, Pre	
	BD Consent Application				02-Nov-16	08-Nov-16 08-Dec-16	0%	0	7								555.20, FI	
		30	03-1107-10	00-Dec-10	03-110-10	00-Dec-10	0 70	U	/									
1+ Tower	(A/E to DE/E) Embed Submission																	
	(4/F to RF/F) - Embed Submission	4.4	21 Aug 10	12 Car 16	21 Aug 10	12 Can 16	0.07	0	27				2006 02 1	t ophad	Daubmine		tanto	
	1st embed BD submission to Consultants			-	31-Aug-16	12-Sep-16	0%	0	37							on to Consul		
JS.2006.04	1st embed BD submission Comments	11	13-Sep-16	∠o-Sep-16	13-Sep-16	26-Sep-16	0%	0	37				US.2	.000.04,1	st einded Bl	) submissior	i comment	ιS

Prepared	on	08-Sep-16
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DS.2006.08 DS.2006.10 <b>BD Submissi</b> <b>Tower Preca</b> DS.2016.12 DS.2016.14 DS.2016.16 DS.2016.18 DS.2016.20	Activity Name 2nd embed BD subr RSC Submitted to B BD Submission & Ap on, Consent & A st Unitized Faca 1st BD Submission Comment on 1st Su 2nd Submission Comment on 2nd Su	pproval pproval de to Consultant	Ori. Dur. 6 3 60 40 10	05-Oct-16	BaseLine Finish 04-Oct-16 08-Oct-16 07-Dec-16	Forecast / Actual Start 27-Sep-16 05-Oct-16 08-Oct-16	Forcast / Actual Finish 04-Oct-16 08-Oct-16	% Compl. 0% 0%	Finish Variance 0 0	Current Float 37 37	31	Aug 07	ust 2016 14 21	28 04	ptember 2016 11 18
DS.2006.08 DS.2006.10 <b>BD Submissi</b> <b>Tower Preca</b> DS.2016.12 DS.2016.14 DS.2016.16 DS.2016.18 DS.2016.20	RSC Submitted to B BD Submission & Ap on, Consent & A st Unitized Faca 1st BD Submission Comment on 1st Su 2nd Submission	D pproval <b>opproval</b> de to Consultant	3 60	05-Oct-16	08-Oct-16	05-Oct-16	08-Oct-16								
DS.2006.10 BD Submissi Tower Preca DS.2016.12 DS.2016.14 DS.2016.16 DS.2016.18 DS.2016.20	BD Submission & Ap on, Consent & A st Unitized Faca 1st BD Submission Comment on 1st Su 2nd Submission	pproval pproval de to Consultant	60					0%	0	37			· · · · ·		
BD Submissi Tower Preca DS.2016.12 DS.2016.14 DS.2016.16 DS.2016.18 DS.2016.20	on, Consent & A st Unitized Faca 1st BD Submission Comment on 1st Su 2nd Submission	pproval de to Consultant		08-Oct-16	07-Dec-16	08-0ct-16				57					1
Tower Preca           DS.2016.12           DS.2016.14           DS.2016.16           DS.2016.18           DS.2016.20	st Unitized Faca 1st BD Submission Comment on 1st Su 2nd Submission	<b>de</b> to Consultant	10			00 000 10	07-Dec-16	0%	0	45				4	
DS.2016.12 DS.2016.14 DS.2016.16 DS.2016.18 DS.2016.20	1st BD Submission Comment on 1st Su 2nd Submission	to Consultant	10												
DS.2016.14 DS.2016.16 DS.2016.18 DS.2016.20	Comment on 1st Su 2nd Submission		10												
DS.2016.16 DS.2016.18 DS.2016.20	2nd Submission	Ibmission		15-Jul-16	27-Jul-16	05-Jun-16 A	12-Sep-16	60%	-40	30					DS.201
DS.2016.18 DS.2016.20			11	13-Sep-16	26-Sep-16	13-Sep-16	26-Sep-16	0%	0	30					
DS.2016.20	Comment on 2nd S		10	27-Sep-16	08-Oct-16	27-Sep-16	08-Oct-16	0%	0	30					
		ubmission	11	11-Oct-16	24-Oct-16	11-Oct-16	24-Oct-16	0%	0	30					
	3rd Submission		10	24-Oct-16	03-Nov-16	24-Oct-16	03-Nov-16	0%	0	30					
DS.2016.22	Comment on 3rd Su	Jbmission	12	04-Nov-16	17-Nov-16	04-Nov-16	17-Nov-16	0%	0	30					
DS.2016.24	RSE Submitted to B	D	4	18-Nov-16	22-Nov-16	18-Nov-16	22-Nov-16	0%	0	30					
DS.2016.26	BD Submission & Ap	oproval	60	23-Nov-16	21-Jan-17	23-Nov-16	21-Jan-17	0%	0	37					
Podium Pred	cast Unitized Fac	ade													
DS.2016.32	1st BD Submission	to Consultant	9	31-Aug-16	09-Sep-16	31-Aug-16*	09-Sep-16	0%	0	93					DS.2016.
DS.2016.34	Comment on 1st Su	ıbmission	12	10-Sep-16	24-Sep-16	10-Sep-16	24-Sep-16	0%	0	93					
DS.2016.36	2nd Submission		9	26-Sep-16	06-Oct-16	26-Sep-16	06-Oct-16	0%	0	93					
DS.2016.38	Comment on 2nd S	ubmission	11	07-Oct-16	20-Oct-16	07-Oct-16	20-Oct-16	0%	0	93					
DS.2016.40	3rd Submission		11	21-Oct-16	02-Nov-16	21-Oct-16	02-Nov-16	0%	0	93					
DS.2016.42	Comment on 3rd Su	Jbmission	11	03-Nov-16	15-Nov-16	03-Nov-16	15-Nov-16	0%	0	93					
DS.2016.44	RSE Submitted to B	D	3	16-Nov-16	19-Nov-16	16-Nov-16	19-Nov-16	0%	0	93					
DS.2016.46	BD Submission & Ap	oproval	60	19-Nov-16	18-Jan-17	19-Nov-16	18-Jan-17	0%	0	116					
Glass Wall v	vith T Mullion (K	inked & Straight B1/F & G/F),CW-0	1a-03d												
DS.2016.52	1st BD Submission	to Consultant	10	18-Oct-16	28-Oct-16	18-Oct-16	28-Oct-16	0%	0	93					
DS.2016.54	Comment on 1st Su	ibmission	11	29-Oct-16	11-Nov-16	29-Oct-16	11-Nov-16	0%	0	93					
DS.2016.56	2nd Submission		10	11-Nov-16	23-Nov-16	11-Nov-16	23-Nov-16	0%	0	93					
DS.2016.58	Comment on 2nd S	ubmission	12	23-Nov-16	07-Dec-16	23-Nov-16	07-Dec-16	0%	0	93					
Glass Wall v	vith Precast Mull	lion & Ceramic Mullion,CW-04 to 0	id and	07											_
	1st BD Submission		10			20-Sep-16*	30-Sep-16	0%	0	87					
DS.2016.74	Comment on 1st Su	ibmission	11		17-Oct-16		17-Oct-16	0%	0	87					
DS.2016.76	2nd Submission		11		29-Oct-16		29-Oct-16	0%	0	87					
DS.2016.78	Comment on 2nd S	ubmission	12		12-Nov-16		12-Nov-16	0%	0	87					
DS.2016.80	3rd Submission		9		23-Nov-16		23-Nov-16	0%	0	87					
DS.2016.82	Comment on 3rd Su		11		06-Dec-16	24-Nov-16	06-Dec-16	0%	0	87					
		ubes & with Perforated Cladding,Cl													
	1st BD Submission		9			19-Oct-16*	29-Oct-16	0%	0	88					
	Comment on 1st Su	Ibmission	12		12-Nov-16		12-Nov-16	0%	0	88					
	2nd Submission		10		24-Nov-16		24-Nov-16	0%	0	88					
	Comment on 2nd S		12	24-Nov-16	08-Dec-16	24-Nov-16	08-Dec-16	0%	0	88					
	-	dding & Ceiling,CE-3a,3b,3c													
	1st BD Submission		9			19-Oct-16*	29-Oct-16	0%	0	163					
	Comment on 1st Su	Ibmission	11		11-Nov-16		11-Nov-16	0%	0	163				-	
	2nd Submission		11		24-Nov-16		24-Nov-16	0%	0	163					
DS.2016.118	Comment on 2nd S	ubmission	11	24-Nov-16	07-Dec-16	24-Nov-16	07-Dec-16	0%	0	163					



ity ID	Activity Name		Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish √ariance	Current Float	31	Aug 07	gust 201 14	16 21	28		eptember 11	er 2016 18
L3 Storefrom	nt,CW-08a,08b																	
DS.2016.132	1st BD Submission	to Consultant	10	03-Sep-16	14-Sep-16	03-Sep-16	14-Sep-16	0%	0	274								S.201
DS.2016.134	Comment on 1st Su	Ibmission	12	14-Sep-16	29-Sep-16	14-Sep-16	29-Sep-16	0%	0	274								<u> </u>
DS.2016.136	2nd Submission		10	29-Sep-16	13-Oct-16	29-Sep-16	13-Oct-16	0%	0	274								
DS.2016.138	Comment on 2nd S	ubmission	11	13-Oct-16	26-Oct-16	13-Oct-16	26-Oct-16	0%	0	274								
DS.2016.140	3rd Submission		10	26-Oct-16	07-Nov-16	26-Oct-16	07-Nov-16	0%	0	274								
DS.2016.142	Comment on 3rd Su	Jbmission	12	07-Nov-16	21-Nov-16	07-Nov-16	21-Nov-16	0%	0	274								
DS.2016.144	RSE Submitted to B	D	3	21-Nov-16	24-Nov-16	21-Nov-16	24-Nov-16	0%	0	274								
DS.2016.146	BD Submission & A	pproval	60	24-Nov-16	23-Jan-17	24-Nov-16	23-Jan-17	0%	0	340	[							
Strip Glazin	g at Skylight Gal	lery L3 & Plaza Skylight,CW-10,SK-0	1,02															
	1st BD Submission	• • • • •	10	14-Oct-16	25-Oct-16	14-0ct-16*	25-Oct-16	0%	0	203								
DS.2016.154	Comment on 1st Su	Ibmission	12	26-Oct-16	08-Nov-16	26-Oct-16	08-Nov-16	0%	0	203								
DS.2016.156	2nd Submission		10	08-Nov-16	19-Nov-16	08-Nov-16	19-Nov-16	0%	0	203								
	Comment on 2nd S	ubmission	11	21-Nov-16	03-Dec-16	21-Nov-16	03-Dec-16	0%	0	203			·					
	mission & Appro		_															
	nple Submission																	
DS.2018.28	Facade Door - Glass		36	09-Nov-16	20-Dec-16	09-Nov-16	20-Dec-16	0%	0	12								
DS.2018.38		Frame & Ironmogery sample submission	36		20 Dec 10		20 Dec 10	0%	0	12								
Material Ap			50	05 1107 10	20 Dec 10	05 1107 10	20 Dec 10	0 /0	Ū	12					<u> </u>			
DS.2020.14	Low-e Glass Sample		208	21-Dec-15	05-Sen-16	21-Dec-15 A	29-Sep-16	90%	-20	41					i de la constante de la consta			
DS.2020.14		ass Wall With T- Mullion)	200		•	21 Dec 15 A 21-Dec-15 A	29-Sep-16	90%	57	32					3	<u> </u>	<b></b>	<u> </u>
DS.2020.10	Approval for Terraco		11			27-Dec-15 A	29-Sep-16	80%	-114						#			
DS.2020.12		, conduits , trucking , wiring , junction box	11	-		20-Dec-15 A	29-Sep-10 29-Sep-16	80%										
		r, conduits, tracking, winng, junction boy	TT	30-Api-10	10-May-10	20-Dec-13 A	29-3ep-10	80 %	-114	05								
Visual Mock																		
	de Panel Visual N	лоск Ор																
Terracotta	Dreduction of Dress	st Panel & Delivery to site	27	22 Aug 16	06 Oct 16	22 Aug 16 A	15 Cap 16	00/	10	25								
		st Pariel & Delivery to site	37	23-Aug-16	06-001-16	23-Aug-16 A	15-Sep-16	0%	16	25								
Installation		- Aug-	0	17 Car 16		17 Car 16		0.01	0	25								Hando
	Handover of Workin	-	0	17-Sep-16	10 Car 16	17-Sep-16	10.0 10	0%	0	25								
	Installation on Mocl	•	2	· ·	•	17-Sep-16	19-Sep-16	0%	0	25								
	Glazing and Sealant	••	3		22-Sep-16		22-Sep-16	0%	0	25								
		val of Visual Mock Up	11	23-Sep-16	06-Oct-16	23-Sep-16	06-Oct-16	0%	0	25								-
	nell Mock Up																	
	cade Panel Visua	I Mock Up																
Terracotta				1														
	Production of Precas	st Panel & Delivery	40	23-Sep-16	01-Nov-16	23-Sep-16	01-Nov-16	0%	0	23								
Installation																		
DS.2021.56	Handover of Workin	g Area	0	02-Nov-16		02-Nov-16		0%	0	20							_	
DS.2021.58	Installation on Mocl	< Up	4	02-Nov-16	05-Nov-16	02-Nov-16	05-Nov-16	0%	0	20								
DS.2021.59	Inspection & Approv	val of Visual Mock Up	11	07-Nov-16	18-Nov-16	07-Nov-16	18-Nov-16	0%	0	20								
	or Ceramic Clad	ding , Glass Wall with Ceramic Mulli	on &	Concrete I	Mullion													
Ground Flo											, i		, 1	. :	· 11	i.	4 1	( I
	CUp Drawing Sub																	
Visual Mock			13	31-Aug-16	14-Sep-16	31-Aug-16	14-Sep-16	0%	0	45							<b>—</b> P	S.202

			Pag	ge 8 of 28
16 October 20 8 25 02 09 16		Nove 30 06	ember 2016	mber 2016 27 04
2016.132, 1st BD Sub	mission to	o Consulta	ant	
DS.2016.134,	Commen	t on 1st S	ubmission	
DS.	2016.136	, 2nd Sul	omission	
	DS	2016.13	8, Commei	nt on 2nd S
		DS	.2016.140	, 3rd Submi
			DS	2016.142
			<b>_</b> I	DS.2016.14
	DS.	2016.152	2, 1st BD S	ubmission t
			5.2016.154	1, Commen
			: :	016.156, 2
			_	DS.2
DS.2020.14, L	ow-e Glas	s Sample	s. Iow-e G	lass Sample
			.,	D
DS.2020.12, A	Approval fo	or Terraco	tta Colour.	Approval fo
DS.2020.10, L				
	igning 5			, clucking
DS 2021	22 Produ	uction of	Procast Par	el & Delive
03.2021	.22,1100		recaser ar	
andover of Working Are	a Hando	vor of Wo	rking Aroa	17-Son-16
DS.2021.26, Installati			ikiiig Alea,	17-3eb-10
DS.2021.28, Glazin			cation	
				Vieupl Mad
03.2021	.50, mspe		approvar or	Visual Mock
			1 E 4 Dred	
		U5.202	1.34, Prod	uction of Pr
		♦ Ubnder	or of Mart	
			<u> </u>	ing Area, H
		DS.2		stallation c
			US.2	021.59, Ins
2021.77, Drawing App	roval			

ID	Activity Name	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish		Finish C /ariance I		Ai 31 07	ugust 201	6 21	28	Septemb 04 11	ber 2016	25	October 02 09
DS.2021.78	Coated Glass producion	60	31-Mar-16		02-Mar-16 A	-	90%		54	31 07	14	21	20				Coated Gla
Terracotta																	
DS.2021.88	Production & delivery of Terracotta to Precast Factory	12	30-Apr-16	17-May-16	24-Mar-16 A	22-Sep-16	90%	-106	13						茾 c	os.20	21.88, Prod
DS.2021.90	Production of Precast Panel & Delivery	30	23-Sep-16	22-Oct-16	23-Sep-16	22-Oct-16	0%	0	18				-		=		
Installation		1															
DS.2021.94	Installation on Frame	8	24-Oct-16	01-Nov-16	24-Oct-16	01-Nov-16	0%	0	15								
DS.2021.96	Glazing & Sealant Application	2	02-Nov-16	03-Nov-16	02-Nov-16	03-Nov-16	0%	0	15								
DS.2021.97	Inspection & Approval of Visual Mock Up	10	03-Nov-16	15-Nov-16	03-Nov-16	15-Nov-16	0%	0	15								
Hybrid Mocl	c Up																
Glass Wall	with T-Mullion,CW-02a,02b																
Ordering &	Production of Hybrid Mock Up Mateial																
DS.2021.118	Production of Steel Frame and Alum Cladding	30	16-May-16	20-Jun-16	02-Mar-16 A	02-Sep-16	90%	-62	22				P P	S.2021.	118, Pr	roduc	tion of Ste
Installation	of Mock Up Sample																
DS.2021.124	Installation of Steel Frame and Flashing	10	31-Aug-16	10-Sep-16	31-Aug-16	10-Sep-16	0%	0	22					1			Installatior
DS.2021.120	Glazing	2	12-Sep-16	13-Sep-16	12-Sep-16	13-Sep-16	0%	0	22					<b>C</b>	\$.202	1.126	5, Glazing
DS.2021.128	Application of Structural Sealant	2	13-Sep-16	15-Sep-16	13-Sep-16	15-Sep-16	0%	0	22						DS.202	21.12	28, Applica
DS.2021.98	Inspection & Approval of Visual Mock Up	10	19-Sep-16	30-Sep-16	19-Sep-16	30-Sep-16	0%	0	22								DS.2021.9
L3 Storefro	nt,CW-08																
Shopdrawin	g Submission																
DS.2021.146	Approval of Visual Mock Up Drawing	13	15-Jun-16	30-Jun-16	11-May-16	03-Sep-16	50%	-54	114				<b></b>	DS.2021	.146, 4	۹pro	val of Visu
Ordering &	Production of Hybrid Mock Up Mateial																
DS.2021.152	Production of Steel Frame and Alum Cladding	36	05-Apr-16	19-May-16	04-Mar-16 A	15-Sep-16	70%	-100	99						DS.20	21.1	52, Produc
Installation	of Mock Up Sample																
DS.2021.158	Installation of Steel Frame and Flashing	6	17-Sep-16	23-Sep-16	17-Sep-16	23-Sep-16	0%	0	99				-			1	021.158,1
DS.2021.160	Install Glazing	2	23-Sep-16	26-Sep-16	23-Sep-16	26-Sep-16	0%	0	99						- i - i	- i i	.2021.160
DS.2021.162	Application of Structural Sealant	2	26-Sep-16	27-Sep-16	26-Sep-16	27-Sep-16	0%	0	99								5.2021.16
DS.2021.163	Inspection & Approval of Visual Mock Up	11	29-Sep-16	14-Oct-16	29-Sep-16	14-Oct-16	0%	0	99							-	
Garden Gal	ley Visual Mock Up,ce-03a,03c																
Visual Mock	Up Drawing Submission																
DS.2021.174	Approval of Sample of Terracotta	4	23-Aug-16	26-Aug-16	23-Aug-16 A	26-Aug-16 A	100%	0					25.207	21.174,	Approv	al of §	Sample of
DS.2021.172	Approval on Shop Drawings	10	31-Aug-16	10-Sep-16	31-Aug-16*	10-Sep-16	0%	0	89					DS.	.2021.1	172,	Approval o
Terracotta																	
DS.2021.176	Production of Terracotta	24	08-Sep-16	07-Oct-16	08-Sep-16	07-Oct-16	0%	0	89						<u> </u>		DS.2
DS.2021.178	Delivery of Terracotta to Precast Factory	1	20-Oct-16	20-Oct-16	20-Oct-16	20-Oct-16	0%	0	89								
Installation																	
DS.2021.18	Delivery of ceramic precast mullion to site	2	21-Oct-16	22-Oct-16	21-Oct-16	22-Oct-16	0%	0	89								
DS.2021.188	Installation of Terracotta on Mock-up	6	25-Oct-16	31-Oct-16	25-Oct-16	31-Oct-16	0%	0	89								
Production I	lock Up																
Tower Preca	st Facade Panels w/ Percast Concrete , Terraco	tta, lighti	ng & Curtai	n Wall													
Tower Faca	de - Ordering & Production of Material																
DS.2022.4	Sealant Ordering ( Typical two weeks time, tailor made nee	d th 12	11-Oct-16	24-Oct-16	11-Oct-16*	24-Oct-16	0%	0	142								
										1		1		1			, I
Tower Faca	de - Glass Production & Fabrication																

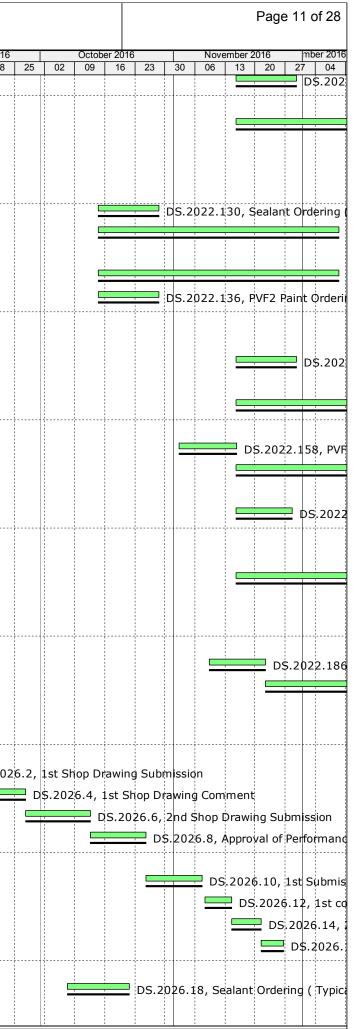
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D	\$.202	21.78	, Coat	ed Gla	ass p	roduci	on, C	bated	Glass	prod	ucior	۱
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		DS.20	21.8	B, Pro	duct	iọn & d	lelive	y of T	errac	otta t	o Pre	ecast F
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2021.1	18 F	roduc	tion c	f Stee	el Fra	me an	d Alu	m Cla	ddina	Pro	ductio	on of S
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DS.	2021.	124.	Instal	lation	of S	teel Fr	ame a	and Fl	ashin	q		
	L	1									·	
	5.202	21.120	5, Gla	zing								
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			DS.20	021.9	8, Ir	nspecti	on & .	Appro	val of	Visua	al Mo	ck Up
2021.	146,	Appro	val of	Visua	il Mo	ck Up I	Drawi	ng, A	pprov	al of \	visua	I Mock
		-										
;	ÞS.20	021.1	52, Pr	oduct	tion o	of Stee	l Fran	he an	d Alur	n Cla	dding	, Prod
		-										
		DS.2	021.1	58, I	nstal	lation a	of Ste	el Fra	me ai	hd Fla	shin	g
	<b>-</b>		2021	160	Inc						+	
	-	1	: :		1	tall Gla						
		<b>_</b> D	S.202	1.162	Ż, Ap	plicatio	on of	Struct	ural S	Sealai	nt	
						0021 1	62 T	hanna	tion 9	Ann		of Vicu
		1			05.2	2021.1	05,1	lispec		c App	ovai	
174, 4	ppro	al of	Samp	le of T	Terra	cotta,	Appro	val of	Sam	ple of	Terr	acotta
	2021	172	Δnnro	val or	She	op Drav	vinas					
		1, 2,	, ppi o	vui oi			vings					
		:		DS.2	021	176, P	roduc	tion o	of Terr	acott	a	
		}			1			1	1		1	
					•	DS.20	21.1	78, D	eliver	y of T	errac	cotta to
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Prepared on 08-Sep-16 (3MRP-11) Three Months Rolling Programme Status at 31 Aug 2016 Activity ID Forecast / Actual Finish Curren September 2016 Activity Name Basel ine Forcast / Actual August 2016 Ori. Dur. BaseLine Start Compl. Variance Float Finish Start Finish DS.2022.12 Die Making 21 13-Oct-16 05-Nov-16 13-Oct-16\* 05-Nov-16 0% 0 96 DS.2022.16 Aluminium Extrusion Production 12 09-Nov-16 22-Nov-16 09-Nov-16 22-Nov-16 0% 0 96 DS.2022.14 PVF2 Paint Ordering 12 09-Nov-16 22-Nov-16 09-Nov-16 22-Nov-16 96 0% 0 DS.2022.18 Application of PVF2 Coating 6 28-Nov-16 03-Dec-16 28-Nov-16 03-Dec-16 0% 0 96 Tower Facade - Terracotta DS.2022.22 Ordering of Terracotta 07-Oct-16 20-Oct-16 07-Oct-16 20-Oct-16 0% 0 110 10 20-Oct-16 12-Dec-16 20-Oct-16 DS.2022.24 Die Making of Terracotta 45 12-Dec-16 0% 0 110 DS.2022.26 Productioin & delivery of Terracotta Mockup Sample 45 03-Nov-16 28-Dec-16 03-Nov-16 28-Dec-16 0 110 0% Tower Facade - Precast Concrete Facade Tower Facade - Precast Facade Die Making DS.2022.28 Tower Facade Precast Concrete Mould Making 45 07-Oct-16 29-Nov-16 07-Oct-16 29-Nov-16 0% 88 0 Podium Precast Facade Panel w/ Percast Concrete, Terracotta & Curtain Wall **Podium Facade - Ordering & Production of Material** Podium Facade - Glass Production & Fabrication 19-Nov-16 02-Dec-16 19-Nov-16\* 02-Dec-16 73 DS.2022.42 Sealant Ordering (Typical two weeks time, tailor made need th 12 0% 0 DS.2022.44 Coated Glass Production 48 19-Nov-16 17-Jan-17 19-Nov-16 17-Jan-17 0% 25 0 Podium Facade - Curtain Wall glazed panel production and Fabricatioin DS.2022.48 Die Making 48 19-Nov-16 17-Jan-17 19-Nov-16 17-Jan-17 0% 0 20 DS.2022.46 PVF2 Paint Ordering 12 19-Nov-16 02-Dec-16 19-Nov-16 02-Dec-16 0 68 0% Podium Facade - Terracotta DS.2022.58 Ordering of Terracotta 10 13-Oct-16 24-Oct-16 13-Oct-16 24-Oct-16 0% 0 30 DS.2022.60 Die Making of Terracotta 45 35 25-Oct-16 08-Dec-16 25-Oct-16 08-Dec-16 0% 0 Podium Facade - Precast Concrete Facade Podium Facade - Percast Facade Die Making 45 19-Nov-16 02-Jan-17 19-Nov-16 02-Jan-17 DS.2022.64 Percast Concrete Mould Making 0% 0 58 Kinked Glass Wall with T Mullion and reflective Glass at B1,CW-02b Kinked Glass Wall with T Mullion - Ordering & Production of Material Kinked Glass Wall with T Mullion - Glass Production & Fabrication DS.2022.78 Coated Glass Production 48 30-Sep-16 28-Nov-16 30-Sep-16 28-Nov-16 0% 0 27 DS.2022.76 Sealant Ordering (Typical two weeks time, tailor made need th 12 25-Oct-16 07-Nov-16 25-Oct-16\* 07-Nov-16 57 0% 0 12 28-Nov-16 12-Dec-16 28-Nov-16 DS.2022.80 Fabrication of Insulated Glass Panel 12-Dec-16 0% 0 27 Kinked Glass Wall with T Mullion - Curtain Wall glazed panel production and Fabricatioin DS.2022.86 Order of Paint 24 30-Sep-16 31-Oct-16 30-Sep-16 31-Oct-16 58 0% 0 DS.2022.84 PVF2 Paint Ordering 12 30-Sep-16 17-Oct-16 30-Sep-16 17-Oct-16 0% 0 70 DS.2022.82 Die Making 48 25-Oct-16 19-Dec-16 25-Oct-16 19-Dec-16 0% 0 3 DS.2022.90 Fabrication of T Steel Mullions 17 31-Oct-16 18-Nov-16 31-Oct-16 18-Nov-16 58 0% 0 DS.2022.93 Painting of Steel Mullion 6 19-Nov-16 25-Nov-16 19-Nov-16 58 25-Nov-16 0% 0 **Glass Wall with Percast Concrete Mullion, CW-07 Glass Wall with PC Mullion - Ordering & Production of Material Glass Production & Fabrication** DS.2022.104 Sealant Ordering (Typical two weeks time, tailor made need th 12 15-Nov-16 29-Nov-16 15-Nov-16\* 164 29-Nov-16 0% 0 DS.2022.106 Coated Glass Production 48 15-Nov-16 13-Jan-17 15-Nov-16\* 0 13-Jan-17 0% 116 Glass Wall glazed panel production and Fabricatioin DS.2022.112 Die Making 48 15-Nov-16 13-Jan-17 15-Nov-16\* 13-Jan-17 0% 0 111

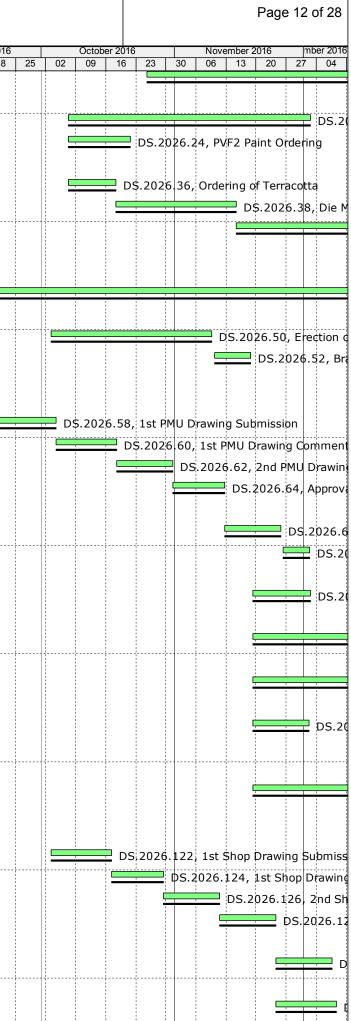


Prepared on 08-Sep-16	
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stivity ID	Activity Name		Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	Compl.	Finish Variance	Current Float	31		14	 28	04	11	18
DS.2022.11	10 PVF2 Paint Ordering		12	15-Nov-16	29-Nov-16	15-Nov-16*	29-Nov-16	0%	0	159							
Precast Co	oncrete Mullion																
DS.2022.12	20 Production Precast (	Concrete Moulding	24	15-Nov-16	13-Dec-16	15-Nov-16*	13-Dec-16	0%	0	131							
L3 Storefro	ont,CW-08																
L3 Storefro	ont - Ordering & P	Production of Material															
Glass Proc	Juction & Fabricatio	n															
DS.2022.13	30 Sealant Ordering(1	Typical two weeks time, tailor made need th	12	14-Oct-16	28-Oct-16	14-Oct-16	28-Oct-16	0%	0	203				 			
DS.2022.13	32 Coated Glass Produc	ction	48	14-Oct-16	09-Dec-16	14-Oct-16	09-Dec-16	0%	0	155							
Glass Wall	glazed panel prod	uction and Fabricatioin				<u> </u>											
	38 Die Making		48	14-Oct-16	09-Dec-16	14-Oct-16	09-Dec-16	0%	0	149							
DS.2022.13	36 PVF2 Paint Ordering		12	14-Oct-16	28-Oct-16	14-Oct-16	28-Oct-16	0%	0	197							
G/F Facade	- Precast Concre	te Tubes, Ceramic Rows Rainscree	n Cla	dding. Cer	amic Prec	ast Mull								 			
		oduction of Material		, contraction of the second													
		Typical two weeks time, tailor made need th	12	15-Nov-16	29-Nov-16	15-Nov-16*	29-Nov-16	0%	0	43							
	e - Glass Production			10 1101 10	25 20	10		0.10	U U								
	54 Coated Glass produc		48	15-Nov-16	13-1an-17	15-Nov-16	13-Jan-17	0%	0	29							
				15 100 10	15 5011 17	15 100 10	15 541 17	0 70	U	25				 			
	58 PVF2 Paint Ordering	azed panel production and Fabricatioin	12	02-Nov-16	15 Nov 16	02 Nov 16	15-Nov-16	0%	0	83							
									Ŭ								
	50 Die Making		48	12-NOA-10	13-Jan-17	15-Nov-16	13-Jan-17	0%	0	24							
	e - Terracotta																
L	58 Ordering of Terracot		11	15-Nov-16	28-Nov-16	15-Nov-16*	28-Nov-16	0%	0	20				 			
	e - Precast Concre	te Facade															
	Precast Facade Die Making		÷					<i>,</i>	,								
DS.2022.1	7 Percast Concrete Mo	ould Making	50	15-Nov-16	16-Jan-17	15-Nov-16*	16-Jan-17	0%	0	15							
Garden Ga	llery,CE-03a,03c																
Garden Ga	allery - Ordering &	Production of Material															
Garden Ga	allery - Terracotta																
DS.2022.18	36 Ordering of Terracot	ta	11	09-Nov-16	22-Nov-16	09-Nov-16	22-Nov-16	0%	0	82							
DS.2022.18	38 Die Making of Terra	cotta	36	22-Nov-16	06-Jan-17	22-Nov-16	06-Jan-17	0%	0	82							
Performanc	e Testing Mock U	р															
Tower Prec	ast Facade Panel	s w/ Precast Concrete , Terracotta, I	ightir	ng & Curtai	n Wall												
	ade - Drawing Sub		•	•										 			
DS.2026.2	1st Shop Drawing S		11	31-Aug-16	13-Sep-16	31-Aug-16	13-Sep-16	0%	0	37						<b>_</b> D\$	5.202
DS.2026.4	1st Shop Drawing C	omment	11	13-Sep-16	27-Sep-16	13-Sep-16	27-Sep-16	0%	0	37							
DS.2026.6	2nd Shop Drawing S		11	-	12-Oct-16		12-Oct-16	0%	0	37							
DS.2026.8	· · ·	ance Mock Up Drawing	11	· · · · · · · · · · · · · · · · · · ·	25-Oct-16	-	25-Oct-16	0%	0	37							i
		of Testing Proposal		12 000 10	25 000 10	12 000 10	25 000 10	0,10	Ū	37				 			
	1st Submission of T	• •	11	25-Oct-16	07-Nov-16	25-0ct-16	07-Nov-16	0%	0	328							:
		esting rioposal	11							328							
DS.2026.12		Fasting Dyamood	6		14-Nov-16		14-Nov-16	0%	0	328							
DS.2026.14			6		21-Nov-16		21-Nov-16	0%	0	328							
	Approval of Testing	·	6	21-Nov-16	26-Nov-16	21-Nov-16	26-Nov-16	0%	0	328				 			
		Production of Material															
		Typical two weeks time, tailor made need th	12	07-Oct-16	21-Oct-16	07-Oct-16	21-Oct-16	0%	0	111							
Tower Fac	ade - Glass Produc	tion & Fabrication															



Activi	ity ID	Activity Name		Ori.	BaseLine Start	BaseLine	Forecast / Actual	Forcast / Actual	%		Current	<u>.</u>	<u> </u>	just 201			Septemb	
	DS.2026.26	Coated Glass Produ	ction	Dur. 48	25-Oct-16	Finish 20-Dec-16	Start 25-Oct-16	Finish 20-Dec-16	Compl.	Variance 0	Float 37	31	07	14	21	28	04 11	18
			glazed panel production and Fabricatioi	n														
	DS.2026.22			48	07-Oct-16	02-Dec-16	07-Oct-16	02-Dec-16	0%	0	47							
	DS.2026.24	PVF2 Paint Ordering	g	12	07-Oct-16	21-Oct-16	07-Oct-16*	21-Oct-16	0%	0	95							
	Tower Facad	de - Terracotta																
	DS.2026.36	Ordering of Terraco	tta	11	07-Oct-16	18-Oct-16	07-Oct-16	18-Oct-16	0%	0	30							
	DS.2026.38	Die Making of Terra	icotta	24	18-Oct-16	15-Nov-16	18-Oct-16	15-Nov-16	0%	0	26							
	DS.2026.40	Productioin & delive	ery of Terracotta Mockup Sample	24	15-Nov-16	13-Dec-16	15-Nov-16	13-Dec-16	0%	0	26							
	Tower Facad	de - Precast Con	crete Facade															
	Tower Facade - F	Precast Facade Die Makir	ng															
	DS.2026.42	Percast Concrete M	ould Making	96	31-Aug-16	24-Dec-16	31-Aug-16	24-Dec-16	0%	0	16							
	Tower Facad	de - Installation																
	DS.2026.50	Erection of Testing	Chamber	32	03-Oct-16	09-Nov-16	03-Oct-16*	09-Nov-16	0%	0	93							
	DS.2026.52	Bracket Installation		8	10-Nov-16	18-Nov-16	10-Nov-16	18-Nov-16	0%	0	93							
	Podium Faca	ade Wall Perform	nance Testing							,								
	Podium Fac	ade - Drawing S	ubmission															
	DS.2026.58	1st PMU Drawing S	ubmission	11	20-Sep-16	04-Oct-16	20-Sep-16	04-Oct-16	0%	0	90							
	DS.2026.60	1st PMU Drawing C	omment	11	04-Oct-16	18-Oct-16	04-Oct-16	18-Oct-16	0%	0	90							
	DS.2026.62	2nd PMU Drawing S	Submission	11	18-Oct-16	31-Oct-16	18-Oct-16	31-Oct-16	0%	0	90							
	DS.2026.64	Approval of Perform	ance Mock Up Drawing	11	31-Oct-16	12-Nov-16	31-Oct-16	12-Nov-16	0%	0	98							
	Podium Fac	ade - Submissio	on of Testing Proposal															
	DS.2026.66	1st Submission of T	Festing Proposal	11	12-Nov-16	25-Nov-16	12-Nov-16	25-Nov-16	0%	0	98							
	DS.2026.68	1st comment		6	26-Nov-16	02-Dec-16	26-Nov-16	02-Dec-16	0%	0	98							
	Podium Fac	ade - Ordering &	& Production of Material															
	DS.2026.74	Sealant Ordering (	Typical two weeks time, tailor made need th	12	19-Nov-16	02-Dec-16	19-Nov-16	02-Dec-16	0%	0	127							
	Podium Fac	ade - Glass Prod	uction & Fabrication															
		Coated Glass Produ		48	19-Nov-16	17-Jan-17	19-Nov-16	17-Jan-17	0%	0	115							
	Podium Fac	ade - Curtain Wa	Il glazed panel production and Fabricati	oin														
	DS.2026.80	Die Making		48	19-Nov-16	17-Jan-17	19-Nov-16	17-Jan-17	0%	0	73							
		ade - Terracotta																
		Ordering of Terraco		11	19-Nov-16	02-Dec-16	19-Nov-16	02-Dec-16	0%	0	74							
		ade - Precast Co											,	;				
		- Precast Facade Die Mal			í		,		í	i i								
		Percast Concrete M	-	96	19-Nov-16	17-Mar-17	19-Nov-16	17-Mar-17	0%	0	37							
			ullion and Reflective Glass at B1,CW	-02b														
		ss Wall - Drawing							0.01									
		1st Shop Drawing S		11			03-Oct-16*	17-Oct-16	0%	0	165							
		1st Shop Drawing C		11		29-Oct-16	17-Oct-16	29-Oct-16	0%	0	165							
		2nd Shop Drawing		11		11-Nov-16		11-Nov-16	0%	0	165							
			ance Mock Up Drawing	11	11-Nov-16	24-Nov-16	11-Nov-16	24-Nov-16	0%	0	165							
			ion of Testing Proposal		24 N. 15	07.5.10		07 0 16	0.01		105							
		1st Submission of T		11	24-Nov-16	07-Dec-16	24-Nov-16	07-Dec-16	0%	0	165							
			ng & Production of Material	10	24 No. 40	00 5-16	24 Nov 46	00 0-0 10	0.01		100							
	DS.2026.138	Sealant Ordering (	Typical two weeks time, tailor made need th	12	24-INOV-16	08-Dec-16	24-Nov-16	08-Dec-16	0%	0	186							



Activ	rity ID	Activity Name		Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish Variance	Current Float	31	Augu 07	ist 201 14	 28	September 04 11	er 2016
	Kinked Glas	s Wall - Glass Pr	roduction & Fabrication												 Ĩ		
	DS.2026.140	Coated Glass Produ	uction	48	03-Oct-16	28-Nov-16	03-Oct-16*	28-Nov-16	0%	0	183						
	DS.2026.142	Fabrication of Insul	lated Glass Panel	12	29-Nov-16	12-Dec-16	29-Nov-16	12-Dec-16	0%	0	183						
	Kinked Glas	s Wall - Curtain \	Wall glazed panel production and F	abricatioin											 		+
	DS.2026.146	Die Making		48	30-Sep-16	28-Nov-16	30-Sep-16	28-Nov-16	0%	0	178						
	DS.2026.144	PVF2 Paint Orderin	g	49	30-Sep-16	28-Nov-16	30-Sep-16	28-Nov-16	0%	0	190						
	DS.2026.148	Aluminium Extrusio	on Production	12	28-Nov-16	12-Dec-16	28-Nov-16	12-Dec-16	0%	0	178						
	Kinked Glas	s Wall - T Steel N	Mullion Production														
	DS.2026.154	Order of Paint		24	30-Sep-16	31-Oct-16	30-Sep-16	31-Oct-16	0%	0	240						1
	DS.2026.156	Painting of Steel M	ullion	4	31-Oct-16	04-Nov-16	31-Oct-16	04-Nov-16	0%	0	240						
	Kinked Glas	ss Wall - Installa	ation														
	DS.2026.160	Installation on Moc	sk Up	11	04-Nov-16	17-Nov-16	04-Nov-16	17-Nov-16	0%	0	240						
	Glass Wall v	vith Ceramic Pre	ecast Mullions at ground FIr Mai	n Enteran	ce,CW-04												
	Glass Wall	with PC Mullion	s - Drawing Submission														
	DS.2026.168	1st Shop Drawing S	Submission	11	23-Sep-16	07-Oct-16	23-Sep-16	07-Oct-16	0%	0	177						-
	DS.2026.170	1st Shop Drawing (	Comment	11	07-Oct-16	21-Oct-16	07-Oct-16	21-Oct-16	0%	0	177						
	DS.2026.172	2nd Shop Drawing	Submission	11	21-Oct-16	03-Nov-16	21-Oct-16	03-Nov-16	0%	0	177						
	DS.2026.174	Approval of Perform	nance Mock Up Drawing	11	03-Nov-16	16-Nov-16	03-Nov-16	16-Nov-16	0%	0	177						
	Glass Wall	with PC Mullion	s - Glass Production & Fabricati	on													
	DS.2026.176	Coated Glass Produ	icion	72	15-Nov-16	14-Feb-17	15-Nov-16	14-Feb-17	0%	0	106						
	Glass Wall	with PC Mullion	s - Glazed Panel production and	Fabricati	oin												
	DS.2026.180	Die Making		36	15-Nov-16	29-Dec-16	15-Nov-16	29-Dec-16	0%	0	113						
	DS.2026.182	Aluminium Extrusio	on Production	24	29-Nov-16	29-Dec-16	29-Nov-16*	29-Dec-16	0%	0	113						
	Glass Wall	with PC Mullion	s - Precast Concrete Facade														
	Glass Wall v	with PC Mullions	- Precast Facade Die Making														
	DS.2026.188	Percast Concrete M	Iould Making	24	15-Nov-16	13-Dec-16	15-Nov-16	13-Dec-16	0%	0	131						
	Vertical Glas	ss Wall at Skylig	pht Gallery,CW-10														
	Vertical Gla	ss Wall @ Galle	ery - Drawing Submission														
	DS.2026.204	1st Shop Drawing S	Submission	11	13-Oct-16	25-Oct-16	13-Oct-16	25-Oct-16	0%	0	81						
		1st Shop Drawing (		11		08-Nov-16		08-Nov-16	0%	0	81						
		2nd Shop Drawing		11	09-Nov-16	22-Nov-16	09-Nov-16	22-Nov-16	0%	0	81						
			nance Mock Up Drawing	11	23-Nov-16	06-Dec-16	23-Nov-16	06-Dec-16	0%	0	81						
			ery - Alum Frame														ļ
	DS.2026.212	Die Making		38	27-Sep-16	11-Nov-16	27-Sep-16*	11-Nov-16	0%	0	126						
		ylight & Terrace															
Ш.		Glass Production &		24	27-Sep-16	26-Oct-16	27-Sep-16	26-Oct-16	0%	0	251						
		kylight - Drawing	-														
		1st Shop Drawing S		11		12-Oct-16		12-Oct-16	0%	0	172						ļ
		1st Shop Drawing (		11		25-Oct-16		25-Oct-16	0%	0	172						
		2nd Shop Drawing		11		07-Nov-16		07-Nov-16	0%	0	172						
			nance Mock Up Drawing	11	07-Nov-16	19-Nov-16	07-Nov-16	19-Nov-16	0%	0	172						
		cylight - Alum Fr	rame														
	DS.2026.236			36	19-Nov-16	04-Jan-17	19-Nov-16	04-Jan-17	0%	0	172				 		
	(By Permas	teelisa) Exteri	nal Facade for CSF Bldg														

										Page	e 13	of 28
)16				Octob	er 201	6		Nove	ember 2	2016	m	ber 2016
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									5.202	<u> </u>		Shop 26.208
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												tion &
				D	5.20	26.22		6.230	), 1st	Shop	Drav	ission ving Co I Shop
										DS.2	2026	.234, /

epared on 08-Sep-16 (3MRP-1	1) T	hree Mo	onths	Rolling	g Progr	amn	ne S	stat	tus at 31 A	ug 2016	Page 14 o
/ ID Activity Name	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish √ariance	Current Float	August 2016 31 07 14 21	September 2016         October 2           28         04         11         18         25         02         09         1	016   November 2016  mbe 6 23 30 06 13 20 27
SF Glass Wall (South Ele. 6/F-7/F,North Ele.6/F-8/F,South Ele. 6	G/F)										
CSF Glass Wall Shopdawing Submission & Approval											
DS.2260.12 1st Shop Drawing Comment	11	12-Sep-16 2	4-Sep-16	12-Sep-16	24-Sep-16	0%	0	121		DS.2260.12, 1st	Shop Drawing Comment
DS.2260.14 2nd Shop Drawing Submission	5	26-Sep-16 3	0-Sep-16	26-Sep-16	30-Sep-16	0%	0	121		<b>DS.2260.14</b> ,	2nd Shop Drawing Submission
DS.2260.16 2nd Shopdawing comments	11	03-Oct-16 1	7-0ct-16	03-Oct-16	17-Oct-16	0%	0	121			DS 2260.16, 2nd Shopdawing comm
CSF Louvre - FAC-LV-03 (Additional Works)											
DS.2260.18 1st Shop Drawing Submission	11	31-Aug-16 1	2-Sep-16	31-Aug-16	12-Sep-16	0%	0	9		DS.2260.18, 1st Shop Drav	wing Submission
DS.2260.20 1st Shop Drawing Comment	11	13-Sep-16 2	6-Sep-16	13-Sep-16	26-Sep-16	0%	0	119			t Shop Drawing Comment
DS.2260.21 2nd Shop Drawing Submission	6	27-Sep-16 0	4-Oct-16	27-Sep-16	04-Oct-16	0%	0	119			21, 2nd Shop Drawing Submission
DS.2260.22 Shop Drawing Approval	11	05-Oct-16 1	9-Oct-16	05-Oct-16	19-Oct-16	0%	0	119			DS.2260.22, Shop Drawing Approv
CSF Embed BD Submission & Approval											
DS.2260.24 BD Drawing Preparation & 1st BD Submission to Consultants	11	31-Aug-16 1	3-Sep-16	31-Aug-16*	13-Sep-16	0%	0	32			Preparation & 1st BD Submission to (
DS.2260.26 BD Drawing submission 1st Comments		13-Sep-16 2	-	-	27-Sep-16	0%	0	32			D Drawing submission 1st Comment
DS.2260.28 BD Drawing Preparation & 2nd BD Submission to Consultants	11	27-Sep-16 1	2-Oct-16	27-Sep-16	12-Oct-16	0%	0	32			2260.28, BD Drawing Preparation &
DS.2260.30 RSE Submission to BD	3	12-Oct-16 1	5-Oct-16	12-Oct-16	15-Oct-16	0%	0	32			S.2260.30, RSE Submission to BD
DS.2260.32 BD Submission & Approval	48	15-Oct-16 1	0-Dec-16	15-Oct-16	10-Dec-16	0%	0	32			
CSF Glass Wall BD Submission & Approval											
DS.2260.38 BD Drawing Preparation & 1st BD Submission to Consultants	11	31-Aug-16 1	3-Sep-16	31-Aug-16	13-Sep-16	0%	0	9			Preparation & 1st BD Submission to
DS.2260.40 BD Drawing submission 1st Comments	11	13-Sep-16 2	7-Sep-16	13-Sep-16	27-Sep-16	0%	0	9			D Drawing submission 1st Comment
DS.2260.42 BD Drawing Preparation & 2nd BD Submission to Consultants	11	27-Sep-16 1	2-Oct-16	27-Sep-16	12-Oct-16	0%	0	9		DS.	2260.42, BD Drawing Preparation &
DS.2260.44 BD Drawing submission 2nd Comments	11	12-Oct-16 2	5-Oct-16	12-Oct-16	25-Oct-16	0%	0	9			D\$.2260.44, BD Drawing sub
DS.2260.46 BD Drawing Preparation & 3rd BD Submission to Consultants	11	25-Oct-16 0	7-Nov-16	25-Oct-16	07-Nov-16	0%	0	9			DS.2260.46, BD Dr
DS.2260.48 RSE Submission to BD	3	08-Nov-16 1	1-Nov-16	08-Nov-16	11-Nov-16	0%	0	9			💻 DS.2260.48, RS
DS.2260.50 BD Submission & Approval	48	11-Nov-16 1	.0-Jan-17	11-Nov-16	10-Jan-17	0%	0	9			
CSF Glass Wall Performance Testing											
Drawing Submission											
DS.2260.58 1st Shop Drawing Submission	11	25-Oct-16 0	7-Nov-16	25-Oct-16	07-Nov-16	0%	0	116			DS.2260.58, 1st S
DS.2260.60 1st Shop Drawing Comment	11	08-Nov-16 2	1-Nov-16	08-Nov-16	21-Nov-16	0%	0	116			DS.2260
DS.2260.62 2nd Shop Drawing Submission	11	21-Nov-16 0	3-Dec-16	21-Nov-16	03-Dec-16	0%	0	116			
Ordering & Production of Material											
Glass Production & Fabrication											
DS.2260.66 Coated Glass Production	48	19-Oct-16 1	4-Dec-16	19-Oct-16*	14-Dec-16	0%	0	119			
Curtain Wall glazed panel production and Fabricatioin											
DS.2260.70 Die Making		13-Sep-16 1			10-Nov-16	0%	0	141			DS.2260.70, Die
DS.2260.72 PVF2 Paint Ordering		13-Sep-16 1			11-Nov-16	0%	0	157			DS.2260.72, PV
DS.2260.74 Aluminium Extrusion Production	17	11-Nov-16 3	0-Nov-16	11-Nov-16	30-Nov-16	0%	0	141			
ulk Ordering & Production of Material											
Curtain Wall glazed panel production and Fabricatioin											
DS.2260.92 Die Making		01-Nov-16 2			28-Dec-16	0%	0				
DS.2260.94 PVF2 Paint Ordering	49	01-Nov-16 2	9-Dec-16	01-Nov-16	29-Dec-16	0%	0	161			
Blass Production & Fabrication											
DS.2260.102 Coated Glass Production	48	14-Nov-16 1	1-Jan-17	14-Nov-16*	11-Jan-17	0%	0	140			
Redland) Precast Facade for M+ Podium & CSF Bldg											
Redland) General Submission											

F	Prepared on 08-	Sep-16
Act	tivity ID	Activity Name
	(Redland) F	Project Quality Plan
	DS.3240	PQP - 2nd Submission and

cti	vity ID	Activity Name	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish √ariance		August 2 31 07 14		S 28 04	Septembe	r 20'
J	(Redland) Pi	roject Quality Plan													
ľ	DS.3240	PQP - 2nd Submission and Approval	12	31-Aug-16	13-Sep-16	31-Aug-16	13-Sep-16	0%	0	49					\$.3
	DS.3250	PQP - Approval of Project Quality Plan	0		13-Sep-16		13-Sep-16	0%	0	49				\$ РС	ŞР-
ŀ	(Redland) Pi	roduction Method Statement													
ľ	DS.3290	PMS - 2nd Submission and Approval	12	31-Aug-16	13-Sep-16	31-Aug-16	13-Sep-16	0%	0	49					<b>5</b> .3
	DS.3300	PMS - Approval of Production Method Statement	0		13-Sep-16		13-Sep-16	0%	0	49				<b>\$</b> P1	٩S
ŀ	(Redland) Dr	awing Submission and Approval													
ſ	DS.3340	2nd Submission and Approval	12	31-Aug-16	13-Sep-16	31-Aug-16	13-Sep-16	0%	0	49					\$.3
	DS.3350	Approval of Schematic Design Drawings	0		13-Sep-16		13-Sep-16	0%	0	49				🕏 Aj	ppro
	(Redland) BD	Submission and Approval													
	<u> </u>	D Submission													
	DS.3420	BD Comments and review	36	31-Aug-16	14-Oct-16	31-Aug-16	14-Oct-16	0%	0	25				1	-
	DS.3410	BD Submission	0	31-Aug-16		31-Aug-16		0%	0	25			BD SI	ubmissi	ion,
	DS.3430	Approval of BD Submission	0		14-0ct-16		14-Oct-16	0%	0	25					
		xing Layout for ARUP's Onward Submission to BD					-								
	DS.3450	BD Comments and review	36	31-Aug-16	14-0ct-16	31-Aug-16	14-Oct-16	0%	0	25					
	DS.3440	BD Submission	0	31-Aug-16		31-Aug-16		0%	0	25			BD SI	ubmissi	ion
I	DS.3460	Approval of BD Submission	0	51 / lag 10	14-0ct-16	51 / Wg 10	14-Oct-16	0%	0	25					,
ŀ		op Drawings	U U		11 000 10		1, 000 10	0 /0	Ŭ	25					
Γ		2nd Submission and Approval	12	15-Oct-16	28-Oct-16	15-0ct-16	28-Oct-16	0%	0	25					
	DS.3510	Approval of Shop Drawings	0	15 000 10	28-Oct-16	15 000 10	28-Oct-16	0%	0	25					
			U		28-001-10		28-001-10	0 70	U	25					
Г	DS.3520	Ik Production, Fabrication and Delivery Procurements of Materials	90	20 Oct 16	17-Feb-17	29-Oct-16	17-Feb-17	0%	0	25					
			90	29-001-10	17-FeD-17	29-001-10	I/-FeD-I/	070	U	25					_
Г		Steel Trusses	100	14 hun 16	02 May 17	20 lan 16 A	24 Oct 16		0.2	500					
_	DS.1130	Steel Tuss - Procurement, Fabrication & Delivery	188		02-Mar-17	29-Jan-16 A	24-Oct-16	65%	93	589			Factor	m b Dire	
	MS.1000	Factory Pre-Inspection / Major truss delivery subject to site cor	0	31-Aug-16		29-Aug-16 A		100%	2					ry ne	шэ
		o Dwgs, Materials, Method Statement & Welding)					15.0.14	0.50/	224						
	DS.1020	Steel Tuss - Incorporate Comments & Resubmit	30			09-Nov-15 A	15-Sep-16		-231						DS.
	DS.1030	Steel Tuss - Architect's Comment and Approval	75	29-Feb-16	13-May-16	03-Dec-15 A	30-Sep-16	95%	-140	847					
		ement for Erection													
		3rd Submission & Approval of Method statement for Erection o	14	15-Aug-16	28-Aug-16	15-Aug-16 A	14-Sep-16	90%	-17	8					)S.:
	Shop Drawir														
	DS.1030.41	Shop Drawing submission and approval of Steelwork for Shear I	117	21-Dec-15	15-Apr-16	21-Dec-15 A	24-Sep-16	75%	-162	25					
	_Statutory Ap	proval Status e.g. (BD & MTRC Approval)-1													
	DS.7060b10	MTRC Review and Endorsement for ARUP to submit to BD	30	25-May-16	24-Jun-16	12-May-16	10-Sep-16	90%	-78	-11				DS.	706
	DS.7060b11	BD issue endorsement to ARUP	14	11-Sep-16	24-Sep-16	11-Sep-16	24-Sep-16	0%	0	-11			7		
	Materials Pro	ocurements										/			
	DS.1040	Steel Tuss - Procurement, Fabrication & Delivery	150	23-May-16	19-Oct-16	01-Oct-15 A	24-Oct-16	70%	-5	-2		—			
	Fabrication 8	& Delivery To Site													
ſ	DS.1050	Steel Tuss - First Batch Arrival on Site (Contract Requirement -	0	22-Sep-16		22-Sep-16		0%	0	-2					
	Temporary S	Support System for Trusses - Proprietary & Non Prop	rietar	y System											}
	DS.1040.68	Fabrication & Delivery of non-proprietary system	50		18-Aug-16	11-Jun-16 A	16-Sep-16	20%	-29	6					DS
l	Hanger Colu	imn		, 						1					
	DS.1040.85	Fabrication of Hanger Column Suspended from RC	43	10-Sep-16	22-Oct-16	10-Sep-16	22-Oct-16	0%	0	25					-
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29	0, PI	1S - 2	nd Su	bmiss	ion a	'n	d Ap	prova	1					
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10	20,	Steel T	uss -	Incor	porat	e	Con	men	ts & R	esubi	nit,	S	teel	Тį
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5 5	Steel	Tuss -	First	Batch	Arriv	/a	l on	Site (	Conti	act R	equ	ire	me	nt
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Prepared on 08-S	(3MRP-11)	) T	hree M	onths	Rolling	g Progra	amn	ne	Sta	tus at 31 Aug 2016 Page 16 of 2
tivity ID	Activity Name	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish Variance	Curren	August 2016         September 2016         October 2016         November 2016         mber 2016           31         07         14         21         28         04         11         18         25         02         09         16         23         30         06         13         20         27         04
DS.1040.80	Fabrication of Hanger Column Suspended from mega Truss		10-Sep-16			22-Oct-16	0%	0	68	DS.1040.80, Fabrication of Hange
DS.1040.86	Delivery of hanger column	0	23-Oct-16		23-Oct-16		0%	0	25	Delivery of hanger column, Deliver
Composite	Column				<u> </u>					
· · · · · · · · · · · · · · · · · · ·	Composite Column Fabrication	34	02-Jan-16	04-Feb-16	02-Jan-16 A	13-Sep-16	95%	-222	6	DS.1040.91, Composite Column Fabrication, Composite Column
Steel Truss	Support Fabrication									
DS.1056	Steel Truss Support Fabrication for Truss 3 (*C85 & C86)	21	25-Aug-16	14-Sep-16	19-Aug-16 A	14-Sep-16	53%	0	39	DS.1056, Steel Truss Support Fabrication for Truss 3 (*C85 & C8
DS.1090	Steel Truss Support Fabrication for Truss 4 (*C94 & *C96)	21	15-Sep-16	05-Oct-16	19-Aug-16 A	05-Oct-16	30%	0	49	DS.1090, Steel Truss Support Fabrication for Tr
Steel Truss	Support Delivery to Site		· ·							
DS.1130.10		0	06-Sep-16		06-Sep-16		0%	0	79	Steel Truss Support for Truss # 5 (*C25), Steel Truss Support for Truss
DS.1050.10	Steel Truss Support @ East Core Wall for Trusses # 1, 2 & 5	0	08-Sep-16		08-Sep-16		0%	0	11	Steel Truss Support @ East Core Wall for Trusses # 1, 2 & 5, Steel Trus
DS.1055.10	Steel Truss Support for Truss # 1 & 2(Column 68 & Column 71)	0	24-Sep-16		24-Sep-16		0%	0	6	Steel Truss Support for Truss # 1 & 2(Column 68 & Column
DS.1090.10	Steel Truss Support for Truss # 3 (*C85 & C86)	0	16-Oct-16		16-Oct-16		0%	0	39	\$ Steel Truss Support for Truss # 3 (*C85
DS.11000.10	Steel Truss Support for Truss # 4 (*C94 & *C96)	0	16-Oct-16		16-Oct-16		0%	0	39	Steel Truss Support for Truss # 4 (*C94
		0	10-000-10		10-001-10		0 70	U	39	
	Members Fabrication Steel Truss Fabrication for Truss # 1	60	20 Apr 16	07 1.1 16	22 Apr 16 A	11 Can 16	0.00/	66	2	DC 1060 1 Steel Truce Fobrication for Truce # 1 Steel Truce Edbri
DS.1060.1		69	· .		23-Apr-16 A	•	90%	-66		DS. 1060: 1, Steel Truss Fabrication for Truss # 1, Steel Truss Fabrication for Truss # 1, Steel Truss Fabrication for Trust # 5, Steel Trust#
DS.1120	Steel Truss Fabrication for Truss # 5	69			23-Apr-16 A	02-Oct-16	76%	-87	-1	DS.1120; Steel Truss Fabrication for Truss # 5, St
DS.1070	Steel Truss Fabrication for Truss # 2	69			23-Apr-16 A	26-Sep-16	87%	-80	9	DS.1070, Steel Truss Fabrication for Truss # 2, Steel T
DS.1080	Steel Truss Fabrication for Truss # 3	69			23-Apr-16 A		52%	-95	-1	DS.1080, Steel Truss Fabrication for Tru
DS.1100	Steel Truss Fabrication for Truss # 4	69	13-May-16	20-Jul-16	09-May-16	15-Oct-16	12%	-87	19	DS.1100, Steel Truss Fabrication for Tru
Steel Truss	Members Delivery to Site									
DS.1070.10	Steel Truss Members for Truss # 1	0	12-Sep-16		12-Sep-16		0%	0	3	Steel Truss Members for Truss # 1, Steel Truss Members for Truss
DS.1080.10	Steel Truss Members for Truss # 2	0	27-Sep-16		27-Sep-16		0%	0	9	Steel Truss Members for Truss # 2, Steel Truss Membe
DS.1140.10	Steel Truss Members for Truss # 5	0	03-Oct-16		03-Oct-16		0%	0	-1	Steel Truss Members for Truss # 5, Steel Truss Me
DS.1100.10	Steel Truss Members for Truss # 3	0	21-Oct-16		21-Oct-16		0%	0	33	Steel Truss Members for Truss # 3,
DS.1120.10	Steel Truss Members for Truss # 4	0	04-Nov-16		04-Nov-16		0%	0	19	Steel Truss Members for
Building Se	ervices									
MVAC DS.3070	MVAC - Shop Drawings, Materials & Method Statements Submis	120	01 Dec 15	20 Mar 16	01 Dec 15 4	17 Can 16	38%	171	27	DC 2070 MV/4C - Chap Drawingry Materials & Mathed Stateme
					01-Dec-15 A	•				DS.3070 MVAC - Shop Drawings, Materials & Method Stateme DS.3080, MVAC - CA Review & Comments, MVAC - CA Re
DS.3080	MVAC - CA Review & Comments		_		01-Apr-16 A	24-Sep-16	61%	-3	27	
DS.3090	MVAC - Incorporate Comments & Resubmit				15-Apr-16 A	30-Sep-16	61%	14	27	DS.3090, MVAC - Incorporate Comments
DS.3110	MVAC - Procurement and Delivery					04-Apr-17	0%	0	27	
DS.3100	MVAC - CA Review & Approval	30	13-Oct-16	11-Nov-16	02-May-16	06-Oct-16	39%	36	27	DS.3100, MVAC - 0
	nd ELV Systems	í.	,				ń			
DS.4120	Elect & ELV Systems - Shop Drawings and Materials Submission				01-Dec-15 A	•	35%			DS.4120, Elect & ELV Systems - Shop Drawings and Materials
DS.4130	Elect & ELV Systems - CA Review & Comments			_	01-Apr-16 A	05-Sep-16	75%	-6	60	DS.4130, Elect & ELV Systems - CA Review & Comments, Elect & ELV S
DS.4140	Elect & ELV Systems - Incorporate Comments & Resubmit	30	31-Aug-16	29-Sep-16	15-Apr-16 A	19-Sep-16	75%	10	60	DS.4140, Elect & ELV Systems - Incorporate Comme
DS.4150	Elect & ELV Systems - CA Review & Approval	30	30-Sep-16	29-Oct-16	16-May-16	03-Oct-16	45%	26	60	DS.4150, Elect & ELV System
DS.4160	Elect & ELV Systems - Procurement and Delivery	150	04-Oct-16	02-Mar-17	04-Oct-16	02-Mar-17	0%	0	60	
Fire Service		100	01 5 15	20.14	01 5	12.0 12				
DS.4010	FS - Shop Drawings and Materials Submission and Approval				01-Dec-15 A	•	57%			
DS.4020	FS - CA Review & Comments				15-Apr-16 A	20-Sep-16	58%	-82	61	D\$.4020, FS - CA Review & Comments, FS - CA Review & C
DS.4030	FS - Incorporate Comments & Resubmit	30			22-Apr-16 A	26-Sep-16	34%	-58	61	DS.4030, FS - Incorporate Comments & Resubmit, FS
DS.4040	FS - CA Review & Approval	30	31-Jul-16	29-Aug-16	16-May-16	02-Oct-16	25%	-34	61	DS.4040, FS - CA Review & Approval, FS - CA Revi
DS.4050	FS - Procurement and Delivery	150	03-Oct-16	01-Mar-17	03-Oct-16	01-Mar-17	0%	0	61	

Prepared	on	08-Sep-16
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Plumbing and           DS.3010         P           DS.3020         P           DS.3030         P           DS.3040         P           DS.3050         P           Mechanical and         DS.5210	Activity Name I Drainage Plumbing & Drainage - Shop Drawings, Materials & Method Stat Plumbing & Drainage - CA Review & Comments Plumbing & Drainage - Incorporate Comments & Resubmit	Ori. Dur. 90	BaseLine Start	BaseLine Finish	Forecast / Actual	Forcast / Actual	%	- Finin h	10	 			ombor 201	6	1	October 2	2016		Nov			
DS.3010         P           DS.3020         P           DS.3030         P           DS.3040         P           DS.3050         P           Mechanical and DS.5210         L	Plumbing & Drainage - Shop Drawings, Materials & Method Stal Plumbing & Drainage - CA Review & Comments	90			Start	Finish	Compl.	Variance	Current Float	August 20 7 14		<u> </u>	ember 201 11 18		02	09	16 23	3 30		vember 20		mber 20
DS.3020       P         DS.3030       P         DS.3040       P         DS.3050       P         Mechanical and       D         DS.5210       L	Plumbing & Drainage - CA Review & Comments	90					·															
DS.3030       P         DS.3040       P         DS.3050       P         Mechanical an       D         DS.5210       L			30-Dec-15	28-Mar-16	30-Dec-15 A	16-Sep-16	47%	-172	45				DS.	3010,	Plum	ibing & D	rainage	e - Sho	აp Dra	iwings,	Materia	als & M
DS.3040         P           DS.3050         P           Mechanical an         D           DS.5210         L	Plumbing & Drainage - Incorporate Comments & Resubmit	30	01-Aug-16	30-Aug-16	01-Apr-16 A	20-Sep-16	40%	-21	45	_				DS.30	20, Pli	umbing a	& Drain	age -	CA Re	view &	Comme	ents, P
DS.3050 P Mechanical an DS.5210 L		30	31-Aug-16	29-Sep-16	14-Apr-16 A	04-Oct-16	83%	-5	45						D	<b>S</b> .3030,	, Plumb	ing & I	Draina	ige - In	corpora	ite Cor
Mechanical an DS.5210 L	Plumbing & Drainage - CA Review & Approval	30	30-Sep-16	29-Oct-16	02-May-16	18-Oct-16	44%	11	45								<u> </u>	_ ps	.3040	), Plumb	ing & I	Drainac
DS.5210 L	Plumbing & Drainage - Procurement and Delivery	150	19-Oct-16	17-Mar-17	19-Oct-16	17-Mar-17	0%	0	45									<u> </u>	<u> </u>	<u> </u>	<del>—</del>	=
	nd Lifting Platform				,,																	
	Lifting Platform - Shop Drawings, Materials & Method Statemen	90	31-May-16	28-Aug-16	01-Dec-15 A	30-Sep-16	30%	-33	457						DS.5	5210, Lif	ting Pla	itform	- Sho	p Drawi	ngs, M	aterial
DS.5220 L	Lifting Platform - CA Review & Comments	30	01-Oct-16	30-Oct-16	01-Oct-16	30-Oct-16	0%	0	457									💻   DS	3.5220	0, Liftin	g Platfo	ərm - C
DS.5230 L	Lifting Platform - Incorporate Comments & Resubmit	30	31-Oct-16	29-Nov-16	31-Oct-16	29-Nov-16	0%	0	457									=	=		=	DS.5
Lifts and Esca	alator																					
DS.5110 L	Lift & Escalator - Shop Drawings, Materials & Method Statemen	90	01-Dec-15	28-Feb-16	01-Dec-15 A	30-Sep-16	40%	-215	44						DS.5	5110, Lif	t & Esc	alator	- Shor	p Drawi	ngs, M	aterials
DS.5120 L	Lift & Escalator - CA Review & Comments	30	01-Aug-16	30-Aug-16	15-Apr-16 A	26-Sep-16	60%	-27	44					D	S.512	0, Lift &	Escalat	cor - C	A Revi	iew & C	ommer	nts, Lif
DS.5130 L	Lift & Escalator - Incorporate Comments & Resubmit	30	31-Aug-16	29-Sep-16	30-Apr-16 A	10-Oct-16	50%	-11	44							<b>DS</b> .5	130, Li	ft & Es	scalato	or - Inco	orporat	e Com
DS.5140 L	Lift & Escalator- CA Review & Approval	30	30-Sep-16	29-Oct-16	16-May-16	24-Oct-16	40%	5	44								<u> </u>	_ ps	.5140	), Lift &	Escala	tor- CA
DS.5150 L	Lift & Escalator - Procurement and Delivery	300	25-Oct-16	20-Aug-17	25-Oct-16	20-Aug-17	0%	0	44								=	<u> </u>			<u> </u>	<b></b>
Art Lift (LT-11	& LT-13)				· · · · · · · · · · · · · · · · · · ·																	
DS.5020 A	Art Lift - Shop Drawings, Materials & Method Statements Subm	90	01-Dec-15	28-Feb-16	01-Dec-15 A	19-Sep-16	50%	-204	39	 			C	S.502	0, Art	t Lift - Sh	10p Dra	wings,	, Mate	rials &	4ethoc	l State
DS.5025 A	Art Lift - CA Review & Comments	30	01-Aug-16	30-Aug-16	15-Apr-16 A	26-Sep-16	50%	-27	39					🛑 D	<b>s</b> .502	5, Art Lil	ft - CA I	Reviev	1 & Co	mment	s, Art I	_ift - C/
DS.5030 A	Art Lift - Incorporate Comments & Resubmit	54	27-Sep-16	19-Nov-16	27-Sep-16	19-Nov-16	0%	0	39						: 	<u> </u>	<u> </u>	<del></del>			DS.50	30, Art
DS.5040 A	Art Lift - CA Review & Approval	30	20-Nov-16	19-Dec-16	20-Nov-16	19-Dec-16	0%	0	39												=	<del> =</del>
ABWF and Fi	itout									 												
	Ceramic Tile - Shop Drawings, Materials Sample Submission	90	30-Nov-15	27-Feb-16	30-Nov-15 A	08-Sep-16	90%	-194	131			D	S.6010,	Cerar	nic Tile	e - Shop	Drawir	ıgs, M	aterial	ls Samr	le Sub	missior
DS.6020 C	Ceramic Tile - CA Review & Comments	30	09-Sep-16	08-Oct-16	09-Sep-16	08-Oct-16	0%	0	131				-			DS.60	20, Cer	ramic <sup>-</sup>	Tile - (	CA Revie	ew & C	ommer
DS.6030 C	Ceramic Tile - Incorporate Comments & Resubmit	30	09-Oct-16	07-Nov-16	09-Oct-16	07-Nov-16	0%	0	131										<u>.</u> D:	S.6030	, Cerar	nic Tile
DS.6040 C	Ceramic Tile - CA Review & Approval	30	08-Nov-16	07-Dec-16	08-Nov-16	07-Dec-16	0%	0	131													
Soft and Har	rd Landscaping		,							 												
	Landscaping - Shop Drawings, Materials & Method Statements	90	31-Aug-16	28-Nov-16	31-Aug-16	28-Nov-16	0%	0	147					-								DS.70
DS.7000 L	Landscaping - Award Specialist Subcontractor	0	31-Aug-16		31-Aug-16		0%	0	147			Landsca	ping - A	ward S	pecial	ist Subc	ontract	or, Lar	ıdscar	oing - A	ward S	pecialis
DS.7020 L	Landscaping - CA Review & Comments	30	29-Nov-16	28-Dec-16	29-Nov-16	28-Dec-16	0%	0	147												I	
Design Deta	ailing / Buildability Co-ordination																					
	dination for BIM / CSD / CBWD									 												
Basement																						
	Preparation and submission for BIM / CSD / CBWD at B1/F (Tea	60	01-Oct-15	29-Nov-15	01-Oct-15 A	14-Sep-16	75%	-290	18				воо.	0010,	Prepa	iration ar	nd subr	nissior	າ for B	JIM / CS	D / CB	WD at
B00.0030 R	Review, resubmission and approval for BIM / CSD / CBWD at B1	30	30-Nov-15	29-Dec-15	30-Nov-15 A	28-Sep-16	20%	-274	18					-	в00.0	030, Rev	view, re	esubm	ission	and ap	proval	for BI№
M+ Podium																						
	Preparation and submission for BIM / CSD / CBWD at G/F (Tear	60	30-Nov-15	28-Jan-16	30-Nov-15 A	29-Sep-16	50%	-245	8	 	<u> </u>				B00.0	0040, Pr	eparati	on and	l subn	nission	for BIN	
	Review, resubmission and approval for BIM / CSD / CBWD at G,		31-Aug-16			29-Sep-16	0%	0	16							0060, Re						
	Preparation and submission for BIM / CSD / CBWD at 1/F (Tear		31-Aug-16	•		29-Oct-16	0%	0	19											0, Prepa		
	Preparation and submission for BIM / CSD / CBWD at 1M/F (Tea		31-Aug-16			29-Oct-16	0%	0	8											0, Prepa	1	
	Preparation and submission for BIM / CSD / CBWD at 3/F (Tear		31-Aug-16			29-Oct-16	0%	0	19											0, Prepa		
	Preparation and submission for BIM / CSD / CBWD at 2/F (Tear		12-Sep-16			10-Nov-16	0%	0	19	 										B00.00		
	Review, resubmission and approval for BIM / CSD / CBWD at 1/		29-Sep-16		· ·	28-Oct-16	0%	0	18									B00		), Revie		

Prepared	on	08-Sep-16
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tivity ID	Activity Name		Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish Variance	Current Float	31	August	t 2016 14 21	28	i	mber 2016 11 18
B00.0100	Review, resubmissio	on and approval for BIM / CSD / CBWD at 11	30	30-Oct-16	28-Nov-16	30-Oct-16	28-Nov-16	0%	0	8						
B00.0130	Review, resubmissio	on and approval for BIM / CSD / CBWD at 3/	30	30-Oct-16	28-Nov-16	30-Oct-16	28-Nov-16	0%	0	53						
B00.0110	Review, resubmissio	on and approval for BIM / CSD / CBWD at 2/	30	11-Nov-16	10-Dec-16	11-Nov-16	10-Dec-16	0%	0	19						
M+ Tower														÷		
B6B.0030	Preparation and sub	mission for BIM / CSD / CBWD at 5/F (Tean	45	31-Aug-16	14-Oct-16	31-Aug-16	14-Oct-16	0%	0	19						
B6B.0000	Preparation and sub	mission for BIM / CSD / CBWD at 4/F (Tean	45	12-Sep-16	26-Oct-16	12-Sep-16	26-Oct-16	0%	0	26					5	
B6B.0020	Preparation and sub	mission for BIM / CSD / CBWD at 10/F (Tea	45	26-Sep-16	09-Nov-16	26-Sep-16	09-Nov-16	0%	0	26						
B6B.0060	Review, resubmissio	on and approval for BIM / CSD / CBWD at 5/	20	15-Oct-16	03-Nov-16	15-Oct-16	03-Nov-16	0%	0	153						
B6B.0070	Preparation and sub	mission for BIM / CSD / CBWD at 6/F (Tean	45	15-Oct-16	28-Nov-16	15-Oct-16	28-Nov-16	0%	0	19				+		
B6B.0010	Review, resubmissio	on and approval for BIM / CSD / CBWD at 4/	20	27-Oct-16	15-Nov-16	27-Oct-16	15-Nov-16	0%	0	126						
B6B.0040	Review, resubmissio	on and approval for BIM / CSD / CBWD at 1(	20	10-Nov-16	29-Nov-16	10-Nov-16	29-Nov-16	0%	0	182						
B6B.0050	Preparation and sub	omission for BIM / CSD / CBWD at 11/F (Tea	45	10-Nov-16	24-Dec-16	10-Nov-16	24-Dec-16	0%	0	26						
B6B.0100	Review, resubmissio	on and approval for BIM / CSD / CBWD at 6/	20	29-Nov-16	18-Dec-16	29-Nov-16	18-Dec-16	0%	0	123						
B6B.0110	Preparation and sub	omission for BIM / CSD / CBWD at 7/F (Tean	45	29-Nov-16	12-Jan-17	29-Nov-16	12-Jan-17	0%	0	19				÷		
CSF Block																
B20.0280	Preparation and sub	mission for BIM / CSD / CBWD at G/F (Tear	45	31-Aug-16	14-Oct-16	31-Aug-16*	14-Oct-16	0%	0	20					<u> </u>	
B20.0300	Preparation and sub	mission for BIM / CSD / CBWD at 1-5/F (Te	60	01-Oct-16	29-Nov-16	01-Oct-16	29-Nov-16	0%	0	20						
B20.0290	Review, resubmissio	on and approval for BIM / CSD / CBWD at G	20	15-Oct-16	03-Nov-16	15-Oct-16	03-Nov-16	0%	0	150						
B20.0320	Preparation and sub	mission for BIM / CSD / CBWD at 6/F (Tean	45	16-Nov-16	30-Dec-16	16-Nov-16	30-Dec-16	0%	0	20						
Interfacing	Car Park and Sew	age Pumping Station (SPS)														
D02.0020		omission for BIM / CSD / CBWD at ICP G/F (	45	31-Aug-16	14-0ct-16	31-Aug-16	14-Oct-16	0%	0	-65						
D02.0030	Review, resubmissio	on and approval for BIM / CSD / CBWD at I(	30	15-Oct-16	13-Nov-16	15-Oct-16	13-Nov-16	0%	0	-65						
4D Time M	anagement (1st	Draft)														
B00.0160	Facade works		75	31-Aug-16	13-Nov-16	31-Aug-16	13-Nov-16	0%	0	336					<u></u>	
B20.0420	ICP and SPS		75	31-Aug-16	13-Nov-16	31-Aug-16	13-Nov-16	0%	0	106					<u> </u>	
Visual Mo	ck-Up (VMU)															
VMU Prelin																
A00.3610		Contract requirement of 200 calendar days	169	01-Oct-15	17-Mar-16	01-Oct-15 A	01-Nov-16	80%	-229	151						
VMU Cons	truction													****		
	xisting Concrete S	Shell														
VMU ABWF	& Finishes															
VMU Galle	ry & B1 Plaza Spa	ICE														
VMU Floor																
A00.3130	Install Timber Flank	s Flooring	6	09-Jul-16	15-Jul-16	20-Jun-16 A	01-Sep-16	90%	-40	152					A00.313	30, Insta
A00.3120	Install Raised Floorin	ng	8	23-Jul-16	01-Aug-16	17-May-16	01-Sep-16	90%	-27	154			_		A00.312	20, Instal
VMU Facad	e Works					Λ						~				
A00.3690	Erection of Scaffolds	s for Shell Mock-Up	4	30-Aug-16	02-Sep-16	18-Jul-16 A	31-Aug-16	50%	2	130					A00.36	90, Erec
A00.3700	Install Facade Mock	-Up Panels	7	31-Aug-16	08-Sep-16	31-Aug-16	08-Sep-16	0%	0	130					A0	0.3700,
A00.3815	Install Glazing & Sea	alant Application	2	08-Sep-16	10-Sep-16	08-Sep-16	10-Sep-16	0%	0	130					<b>_</b> A	00.3815
A00.3825	Install Glazing & Sea	alant Application	14	10-Sep-16	28-Sep-16	10-Sep-16	28-Sep-16	0%	0	130					=	
VMU Step 2	.1 - Hybrid Shell M	Aock-Up														
	& Finishes														$\mathbf{N}$	
			-	110 10	20 Can 16		01 Sop 16	0.00%	15	146				<b>⊨</b>		
A00.3350	Hybrid Mock Up - In	stall Panel Doors (2-nos)	5	14-Sep-16	20-Sep-16	04-Jun-16 A	01-Sep-16	90%	13	140	1	1	1		1 4	

B6B.0060, Rev	n and submis Preparation iew, resubmi B6B.007 010, Review B6B.00 B6B.00
25       02       09       16       23       30       06       13       20         B6B.0030,       Preparation and sub       B6B.0000,       Preparation       and sub         B6B.0000,       Preparation       B6B.0020,       B6B.0060,       Rev         B6B.0060,       B6B.0060,       Rev       B6B.0060,       Rev         B6B.0060,       B6B.0060,       Rev       B6B.0060,       Rev         B6B.0060,       B6B.0060,       B6B.0060,       B6B.0060,       B6B.0060,         B6B.0060,       B6B.0060,       B6B.0060,       B6B.0060,       B6B.0060,       B6B.0060,         B6B.0060,       B6B.0060,       B6B.0060,       B6B.0060, <td< th=""><th>27 04 B00.010 B00.013 mission for E n and submis Preparation ew, resubmi B6B.007 010, Review B6B.007</th></td<>	27 04 B00.010 B00.013 mission for E n and submis Preparation ew, resubmi B6B.007 010, Review B6B.007
B6B.0030, Preparation and sub B6B.0000, Preparatio B6B.0020, B6B.0060, Rev B6B.0060, Rev B6B.0060, Rev B6B.0060, Rev B6B.0060, Rev	mission for E n and submis Preparation iew, resubmi B6B.007 010, Review B6B.00
B6B.0030, Preparation and sub B6B.0000, Preparatio B6B.0020, B6B.0060, Rev B6B.0060, Rev B6B.0060, Rev B6B.0060, Rev	mission for E n and submis Preparation iew, resubmi B6B.007 010, Review B6B.00
B6B.0000, Preparatio B6B.0020, B6B.0060, Rev B6B.0060, Rev B6B.0060, Rev B6B.0060, Rev B6B.0060, Rev B6B.0060, Rev	mission for E n and submis Preparation iew, resubmi B6B.007 010, Review B6B.00
B6B.0000, Preparatio B6B.0020, B6B.0060, Rev B6B.0060, Rev B6B.0060, Rev B6B.0060, Rev B6B.0060, Rev B6B.0060, Rev	n and submis Preparation iew, resubmi B6B.007 010, Review B6B.00 B6B.00
B6B.0000, Preparatio B6B.0020, B6B.0060, Rev B6B.0060, Rev B6B.0060, Rev B6B.0060, Rev B6B.0060, Rev B6B.0060, Rev	n and submis Preparation iew, resubmi B6B.007 010, Review B6B.00 B6B.00
B6B.0000, Preparatio B6B.0020, B6B.0060, Rev B6B.0060, Rev B6B.0060, Rev B6B.0060, Rev B6B.0060, Rev B6B.0060, Rev	n and submis Preparation iew, resubmi B6B.007 010, Review B6B.00 B6B.00
B6B.0000, Preparatio B6B.0020, B6B.0060, Rev B6B.0060, Rev B6B.0060, Rev B6B.0060, Rev B6B.0060, Rev B6B.0060, Rev	n and submis Preparation iew, resubmi B6B.007 010, Review B6B.00 B6B.00
B6B.0020, B6B.0060, Rev B6B.0 B6B.0 B6B.0 B6B.0 B6B.0 B6B.0 B6B.0 B6B.0 B6B.0 B6B.0 B6B.0 B6B.0 B6B.0 B6B.0 B6B.0 B6B.0060, Rev	Preparation iew, resubmi B6B.007 010, Review B6B.00
B6B.0020, B6B.0060, Rev B6B.0 B6B.0 B6B.0 B6B.0 B6B.0 B6B.0 B6B.0	ew, resubmi B6B.007 010, Review B6B.00
B6B.0060, Rev	B6B.007 010, Review B6B.00
B20.0280, Preparation and sub	B6B.007 010, Review B6B.00
B20.0280, Preparation and sub	mission for E
B20.0280, Preparation and sub	mission for E
	mission for E
	mission for E
	В20.03
B20.0290, Rev	
B20.0290, Rev	iew, resubmi
B20:0250, Nev	cw, icsubiin,
	<u></u>
D02.0020, Preparation and sul	mission for E
D02.00	30, Review,
B00.01	60, Facade w
	20, ICP and §
D20.04	
VMU Works Perio	d (Contract n
all Timber Flanks Flooring, Install Timber Flanks F	looring
all Raised Flooring, Install Raised Flooring	-
an Raised Hooring, Instan Raised Hooring	
ction of Scaffolds for Shell Mock-Up, Erection of S	caffolds for S
, Install Facade Mock-Up Panels	
5, Install Glazing & Sealant Application	
400.3825, Install Glazing & Sealant Applica	tion
A00.3350, Hybrid Mock Up - Install Panel Doors (2	2-nos), Hybri

/ ID	Activity Name	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish 0 √ariance			August 2		September 2016         October 2016           28         04         11         18         25         02         09         16	
A00.3805	Hybrid Mock Up - Inspection and Approval of Visual Mock-up		31-Aug-16	-	31-Aug-16	15-Sep-16	0%		140	31 0	14	21		23 30 06 13 20 27 - Inspection and Approval of Visua
VMU Exter	nal Works													
	- FS Pipeworks													
A00.3845	Hybrid Mock Up - Install FS Water Pipeworks & PVC ducts	6	17-Aug-16	23-Aug-16	17-Aug-16 A	23-Aug-16 A	100%	0				A0	0 3845, Hybrid Mock Up - Install FS Water	Pipeworks & PVC ducts, Hybrid Mc
A00.3855	Hybrid Mock Up - Lay Cabling / Wiring and Termination	4	24-Aug-16	27-Aug-16	24-Aug-16 A	27-Aug-16 A	100%	0				=	A00 3855, Hybrid Mock Up - Lay Cabling /	Wiring and Termination, Hybrid M
VMU MEP	- Electrical Works													
A00.3865	Hybrid Mock Up - Install Pipe ducts From Hybrid Mock-Up to Exi	6	15-Aug-16	20-Aug-16	15-Aug-16 A	20-Aug-16 A	100%	0				<b>A</b> 00	3865, Hybrid Mock Up - Install Pipe ducts F	rom Hybrid Mock-Up to Existing Pi
A00.3875	Hybrid Mock Up - Lay Cabling & Termination From Hybrid Mock-	10	22-Aug-16	01-Sep-16	22-Aug-16 A	01-Sep-16 A	100%	0					A00.3875, Hybrid Mock Up - Lay Cablin	ng & Termination From Hybrid Moc
/MU Step 2	2.2 - Concrete Stair													
VMU MEP	Building Service Works										·			
A00.3480	Concrete Stair - Electrical Works for LED Lighting on Handrail &	8	17-Jun-16	25-Jun-16	02-May-16	08-Sep-16	90%	-62	140				A00.3480, Concrete Stair - Elect	rical Works for LED Lighting on Ha
MU MEP	Testing and Commissioning				X									
00.3485	VMU - Building Services Testing and Commissioning	6	03-Oct-16	08-Oct-16	03-Oct-16	08-Oct-16	0%	0	122				A00.348	5, VMU - Building Services Testing
MU Statu	Itory Submission & Inspection	1												
MU WSD (	(FS Pipeworks)													
.00.3880	VMU - Submit Form WW046 (Part 1 & 2) to WSD (Subject to M	90	30-Apr-16	28-Jul-16	12-Jan-16 A	09-Sep-16	86%	-43	152				A00.3880, VMU - Submit Form	WW046 (Part 1 & 2) to WSD (Sub
00.3890	VMU - Submit Form WW046 (Part 3) to WSD (by MJV)	6	10-Sep-16	15-Sep-16	10-Sep-16	15-Sep-16	0%	0	152				💻 A00.3890, VMU - Submit F	orm WW046 (Part 3) to WSD (by
00.3900	VMU - Submit Form WW046 (Part 4) to WSD	6	16-Sep-16	21-Sep-16	16-Sep-16	21-Sep-16	0%	0	152				💻 A00.3900, VMU - Subr	mit Form WW046 (Part 4) to WSD
00.3910	VMU - Inspection and Approval by WSD	1	28-Sep-16	28-Sep-16	28-Sep-16	28-Sep-16	0%	0	152				! A00.3910, VMU -	Inspection and Approval by WSD
00.3920	VMU - Tie-In Connection to Existing Dog House	2	29-Sep-16	30-Sep-16	29-Sep-16	30-Sep-16	0%	0	122				A00.3920, VML	J - Tie-In Connection to Existing D
MU EMSD	(Electrical)													
400.3930	VMU - Prepare & Submit Form WR1 to EMSD (For records only)	6	11-Oct-16	17-Oct-16	11-Oct-16	17-Oct-16	0%	0	126					00.3930, VMU - Prepare & Submit
MU FSD (I	Fire Service)													
00.3490	VMU - Form 314 & 501 Submission	0	09-Oct-16		09-Oct-16		0%	0	151				S VMU - Fo	0rm 314 & 501 Submission, VMU -
400.3500	VMU - FSD's Inspection & Fire Certificate Issuance	12	09-Oct-16	20-Oct-16	09-Oct-16	20-Oct-16	0%	0	151					A00.3500, VMU - FSD's Inspectio
MU BD (O	P)													
00.3510	VMU - Submission of BA14	0	21-Oct-16		21-Oct-16		0%	0	151				8	VMU - Submission of BA14, VMU
00.3520	VMU - BD Inspection	12	21-Oct-16	01-Nov-16	21-Oct-16	01-Nov-16	0%	0	151					A00.3520, VMU - BD In
00.3530	VMU - M+ OP	0		01-Nov-16		01-Nov-16	0%	0	151					🕏 VMU - M+ OP, VMU - M-
ast Date	for Exercising Provisional Sum & Optional	Iten	ns (Refer	Annex E	<b>B</b> to Prear	nble) (To l	be rev	vised						
	tion & Storage Facility (CSF)													
torage - F	itting-out Works													
A1.4	Photo studio (2/F) - x-ray protection enhancement	0		29-Sep-16		29-Sep-16	0%	0	848				Photo studio (2/	F) - x-ray protection enhancemen
onseratio	n Laboratory - Furniture and Fixtures													
A6.5	Fixed furniture in pantry	0		29-Sep-16		29-Sep-16	0%	0	848				Fixed furniture in	n pantry, Fixed furniture in pantry
onseratio	n Laboratory - Laboratory Equipment													
PA7.1	Exhaust trucks-overhead mounted fume extraction arms	0		29-Sep-16		29-Sep-16	0%	0	848					overhead mounted fume extractio
A7.2	Fume hood cabinet	0		29-Sep-16		29-Sep-16	0%	0	848					net, Fume hood cabinet,
A7.3	Exhaust wall (size 5m (L) x 3m (H)	0		29-Sep-16		29-Sep-16	0%	0	848					ze 5m (L) x 3m (H), Exhaust wall
A7.5	Wet shower area free standing enclosure	0		29-Sep-16		29-Sep-16	0%	0	848				Wet shower area	free standing enclosure, Wet sho
A7.7	Stainless steel laboratory sink	0		29-Sep-16		29-Sep-16	0%	0	848				Stainless steel la	aboratory sink, Stainless steel labo
luseum														
uke Box Ir	nstallation													
PE3.2	Equipment system and machinery for "Juke Box" installation	0		29-Sep-16		29-Sep-16	0%	0	848				Equipment system	em and machinery for "Juke Box"

### (3MRP-11) Three Months Rolling Programme Status at 31 Aug 2016

tivity ID	Activity Name	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish √ariance		31	August	t 2016 14 21	1	28	Septembe 04 11	er 2016 18
Items Rela	ted to Museum Operations												_			
PE4.6	People counting system - module enhancement to CCTV system	0		29-Sep-16		29-Sep-16	0%	0	848							
Back of H	louse including Museum Workshop and Art Han	dling	]													
Workshop																
PH4.3	Exhaust wall	0		29-Sep-16		29-Sep-16	0%	0	848							
L1 and B1	Museum Shop including Espresso Bar															
Fitting-out	Works															
PJ2.2	Architectural lightings	0		29-Sep-16		29-Sep-16	0%	0	848							
PJ2.3	Security shutter	0		29-Sep-16		29-Sep-16	0%	0	848							
Signage																
PM2	All non-digital way-finding signage	0		29-Sep-16		29-Sep-16	0%	0	848							
PM3	Digital signage at information counters	0		29-Sep-16		29-Sep-16	0%	0	848							
External V	Norks / Hard & Soft Landscape								_							
PN2	Elements cooling main - ventilation intake shaft / maintenance	0	31-Aug-16		31-Aug-16		0%	0	878						ments co	
PN4	EMSD compliant design for canopy extension to G/F to L3 cano	0		31-Aug-16		31-Aug-16	0%	0	878					BEM	SD comp	iant d
MEP-Gen	eral Issues															
PO6	Addition of 1 no. 1250TR chiller installation at M+ DCS plantroc	0		24-Oct-16		24-Oct-16	0%	0	823							
	ovisional Sums / Options for M+ Main Works Con	trac	t													
PP2.2	Interface car park - ELS, Architectural and BS works	0		31-Aug-16		31-Aug-16	0%	0	723						erface ca	
PP3.2	Sewage pumping station (SPS) - ELS, foundation, signage, buil	0		31-Aug-16		31-Aug-16	0%	0	878						vage pun	
PP4	Sea water pump cell - basic Building Services provisions	0		31-Aug-16		31-Aug-16	0%	0	878						a water p	
PP5	BWIC / basic Building Services provisions for CLP transformer rc	0		31-Aug-16		31-Aug-16	0%	0	878						IC / basi	
PP6	CA/RSS M+PSO - Complete office accommodation and supportin	0		31-Aug-16		31-Aug-16	0%	0	878						'RSS M+I	1
PP7	Contractor's proposed of SOM and IPS	0		31-Aug-16		31-Aug-16	0%	0	878					Cor	ntractor's	; propo
Prelimina	aries / Construction															
Plant & E	quipment															
A00.2000	Erection of Tower Crane No. 2 and Testing - Ready for Operatio	15	15-Aug-16	05-Sep-16	02-Aug-16 A	20-Aug-16 A	100%	11			-	<b>—</b> —		╉┼╧╴	A00.20	00, Er
A00.2100	Erection of Tower Crane No. 3 and Testing - Ready for Operatio	6	15-Aug-16	22-Aug-16	03-Aug-16 A	10-Aug-16 A	100%	9				/	400.	2100	, Erectio	n of To
Provision	for Tower Crane															
Tower Cra	ne 2				,											
A00.2015	Tower Crane 2 - Erection of Equipment	14	02-Sep-16	22-Sep-16	02-Aug-16 A	17-Aug-16 A	100%	24		_		_				- '
A00.2025	Tower Crane 2 - Testing & Commissioning	2	23-Sep-16	· ·	18-Aug-16 A	19-Aug-16 A										-
A00.2035	Tower Crane 2 - Commence Operation	0		24-Sep-16		20-Aug-16 A	100%	24				•				<
Tower Cra																
A00.2125	Tower Crane 3 - Erection of Equipment	5	· ·			06-Aug-16 A										2125,
A00.2135	Tower Crane 3 - Testing & Commissioning	1	09-Sep-16		08-Aug-16 A	09-Aug-16 A									<b>.</b> A00.	1
A00.2145	Tower Crane 3 - Commence operation	0		10-Sep-16		10-Aug-16 A	100%	22			•		-	4	♦ Tow	ver Cra
Excavati	on & ELS															
<b>BD Milest</b>	tones & BD Stages LOE															
Portion M	01															
B10.3390	BD Stage 4 - Construct B2 slab for A5, B5 & Site formation for /	0	27-Apr-16	27-Apr-16	14-Jul-16 A	29-Oct-16	50%	-120	55							
B10.3400	BD Stage 5 - Construct B2 slab for A6, A7, A8, B6 & Site forma	0	28-Apr-16	28-Apr-16	28-Apr-16 A	09-Sep-16	90%	-87	40				-		BD S	Stage 5
B10.3420	BD Stage 7 - Construct B2 slab for A9, A10, A11, A12, B7, B8,	20	02-Sep-16	30-Sep-16	02-Sep-16	30-Sep-16	0%	0	46							1

# Page 20 of 28 6 October 2016 November 2016 mber 2016 25 02 09 16 23 30 06 13 20 27 04 People counting system module enhancement to CCTV Exhaust wall, Exhaust wall, Exhaust wall, Exhaust wall, Security shutter, Security shutter, Security shutter, Security shutter, All non-digital way-finding signage, All non-digital way-f Digital signage at information counters, Digital signage g main - ventilation intake shaft / maintenance access modification design for canopy extension to G/F to L3 canopy escalator, EN

SAddition of 1 no. 1250TR chiller inst

rk - ELS, Architectural and BS works, Interface car park - ELS, g station (SPS) - ELS, foundation, signage, builder's works, etc o cell - basic Building Services provisions, Sea water pump cell ilding Services provisions for CLP transformer rooms, BWIC / ba - Complete office accommodation and supporting facilities, CA/ posed of SOM and IPS, Contractor's proposed of SOM and IPS,

Erection of Tower Crane No. 2 and Testing - Ready for Operatio Tower Crane No. 3 and Testing - Ready for Operation, Erection

A00.2015, Tower Crane 2 - Erection of Equipment, Tower Cra A00 2025, Tower Crane 2 - Testing & Commissioning, Towe Tower Crane 2 - Commence Operation, Tower Crane 2 - Cor

5, Tower Crane 3 - Erection of Equipment, Tower Crane 3 - Er 35, Tower Crane 3 - Testing & Commissioning, Tower Crane 3 -Crane 3 - Commence operation, Tower Crane 3 - Commence o

BD Stage 4 - Construct B2 slab f 5 - Construct B2 slab for A6, A7, A8, B6 & Site formation for A BD Stage 7 - Construct B2 slab for A9, A10, A11, A12,

Activit	ty ID	Activity Name	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish √ariance	Current Float	31	August 2		28	September 2016
	AEL North														
		A7, A10, A11													
	Portion A10-	a												+	-+
	B10.2190	AEL North - ELS Stage 5 Portion A10a - 2nd layer struts	9	02-Sep-16	13-Sep-16	01-Aug-16 A	12-Aug-16 A	100%	23			-		-	B10.2
	B10.2200	AEL North - ELS Stage 5 Portion A10a - Trim Piles & Blinding	12	10-Sep-16	27-Sep-16	19-Aug-16 A	31-Aug-16 A	100%	18						
	Portion A10-	b													
	B10.2160	AEL North - ELS Stage 5 Portion A10b - Trim Piles & Blinding	6	02-Sep-16	09-Sep-16	19-Aug-16 A	10-Sep-16	50%	-1	-4					B10 216
	Portion A11														
	B10.2210	AEL North - ELS Stage 5 Portion A11 - 1st layer struts	8	02-Sep-16	12-Sep-16	15-Aug-16 A	20-Aug-16 A	100%	16			_		-	B10.22
	B10.2250	AEL North - ELS Stage 5 Portion A11- Trim Piles & Blinding	5	05-Sep-16	10-Sep-16	05-Sep-16	10-Sep-16	0%	0	-6					<b>B10 225</b>
	B10.2240	AEL North - ELS Stage 5 Portion A11 - 2nd layer struts	10	06-Sep-16	20-Sep-16	27-Aug-16 A	31-Aug-16 A	100%	13				I		
	Portion B8	& A9, B9		1											
	Portion B8														
	B10.2320	AEL North - ELS Stage 5 Site Formation ( B8) - 2nd layer struts	8	10-Sep-16	22-Sep-16	10-Aug-16 A	26-Aug-16 A	100%	18						<u> </u>
	Portion B9														
	B10.2390	AEL North - ELS Stage 5 Site Formation ( B9) - 2nd layer trim	5	18-Aug-16	23-Aug-16	04-Aug-16 A	09-Aug-16 A	100%	11			•	В	10 23	390, AEL North -
	B10.2400	AEL North - ELS Stage 5 Site Formation ( B9) - 2nd layer struts	8	06-Sep-16	17-Sep-16	10-Aug-16 A	18-Aug-16 A	100%	21						B1
	Portion A9														-+
	B10.2360	AEL North - ELS Stage 5 Site Formation (A9) - 2nd layer struts	8	10-Sep-16	22-Sep-16	10-Aug-16 A	18-Aug-16 A	100%	24						
	Portion A8,	B6, A12, B7		1	1										
	B10.3580	AEL North - ELS Stage 5 Site Formation (Portion A12, B7)	30	02-Sep-16	18-Oct-16	15-Aug-16 A	29-Oct-16	10%	-8	55		_	$\boldsymbol{}$	-	
	Portion A12														
	B10.3910	AEL North - ELS Stage 5 Site Formation (Portion A12) - 1st Lay	2	02-Sep-16	05-Sep-16	15-Aug-16 A	19-Aug-16 A	100%	11				ſ	<b>N</b> -	B10.3910, A
	B10.3930	AEL North - ELS Stage 5 Site Formation (Portion A12) - Trim &	5	06-Sep-16	12-Sep-16	06-Sep-16	12-Sep-16*	0%	0	-6					<b>—</b> В10.39
	B10.3920	AEL North - ELS Stage 5 Site Formation (Portion A12) - 2nd Lay	5	06-Sep-16	12-Sep-16	25-Aug-16 A	28-Aug-16 A	100%	10						B10.39
4	<b>AEL South</b>														
	DCS														
	B10.2220	DCS - Remove 1st Layer Struts at +4.2mPD	11	02-Sep-16	17-Sep-16	02-Sep-16	17-Sep-16	0%	0	455				-	B1
	B10.2230	DCS - Backfilling and Install Access Hatch and Misc. Works	50	19-Sep-16	25-Nov-16	19-Sep-16	25-Nov-16	0%	0	455					
	AEL South	except DCS			2										
	B10.1090	AEL South - Plant Room - Excavate to +2.45mPD for Plant Roo	16	02-Sep-16	24-Sep-16	02-Sep-16	24-Sep-16	0%	0	148				5	
-	AEL North	East of Portion A10 (for Area M12 h/o)													
(	C10.0390	Vacate Portion M12 for Lyric Contractor for Foundations (App.D	0		02-Sep-16		02-Sep-16	0%	0	61				*	Vacate Portion
1	СР														
1	B10.3240	ICP - Lateral Support	50	30-Jul-16	15-Oct-16	30-May-16	01-Nov-16	15%	-12	-34			_	<b>=</b>	
1	B10.3220	ICP - Pile Cap Construction of Area A	25	30-Jul-16	05-Sep-16	16-Jul-16 A	13-Oct-16	70%	-23	-34		$\leftarrow$		<b>=</b>	-
1	B10.3230	ICP - Pile Cap Construction of Area B	25	14-Oct-16	14-Nov-16	27-Aug-16 A	31-Oct-16	10%	12	-33					
1	B10.3250	ICP - Complete Excavation & Lateral Support	0		01-Nov-16		01-Nov-16	0%	0	-34					
S	Structures														
		Structures / Sub-Structure													
	Pilecaps														
	AEL North											/			
	Stage 3 - Pil	ecap (A4,A5,B4,B5)												÷	
											ii		i		<u>    i    i      i                    </u>

										Page	e 2 <sup>.</sup>	1 0	f 28
016			-	er 2016		_			ember 2			L	er 2016
18	25	02	09	16	23		30	06	13	20	2	7	04
				+									
24	~~												
.21		EL No				1					1		
	B	10.22	00, A	EL NO	rth - I	Εl	S S	tage 5	o Port	ion A	L0a	- 1	rim I
160	, AEI	North	1 - EL	S Stag	je 5 P	0	rtior	A10	5 - Tr	m Pile	ès 8	ĸΒ	lindin
221	0, A	EL Nor	th - E	LS St	age 5	P	ortio	on A1	1 - 19	t laye	r s	ru	ts, AE
250	, AEI	North	) - EL	S Stag	je 5 P	ю	rtior	A11-	Trim	Piles	& E	Blin	ding
. B1	0.22	240, A	EL No	rth - I	ELS S	ta	ge 5	5 Porti	on A	1 - 2	nd	lay	er str
_ [	B10.2	2320,	AELN	orth -	ELS	s	tage	5 Sit	e For	matio	n (	В8	) - 2r
		- /									ì	-	,
h - '	FICO	Stage !	5 Sito	Form	ation	(	BOJ	- 7nc	lave	r trim	۸r	-	Vorth
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	240	D, AEL	NORT	) - CL	o Sta	je			iiiiat		(פי	- 4	
					<b>F</b> 1 <b>^</b>	-		F 61	-				、 ~
I	810.	2360,	AELN	lorth	ELS	S	tage	5 Sit	e For	matio	n (	A9	) - 2r
		-	<u>.</u>				B10.	3580	, AEL	North	) - I	ELŚ	S Stag
, AE	L No	rth - E	LS St	age 5	Site F	Ŧο	rma	tion (	Portic	n A1	2) -	1\$	t Lay
393	80, A	EL Nor	th - E	LS St	age 5	S	ite I	Forma	tion (	Portic	n A	12	2) - Ti
392	0, A	EL Nor	th - E	LS St	age 5	S	ite I	Forma	tion (	Portio	n A	12	2) - 2
				, , , ,						1 1 1 1			
310	222	D, DCS	5 - Re	move	1st L	a١	ver S	Struts	at +4	1.2ml	PD		
		,									1	0 7	2230,
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	P10	1000		South	- In	-	t De	om	Even	vato t		2	15~0
	<u>ь</u> т0	1090	, AEL	Sout	n - Pia	10	IL KC	- 1110	Exca	ναιθ Γ	υ+	۷.۲	тэтпР
	10.0		6				:						
n M	12 fo	or Lyrio	c Cont	racto	r tor F	0	und	ations	(App	.D1.I	ten	ז ו	) (31
							L						
				1			B	10.32	40, I	CP - L	ate	al	Supp
				B10.3	220,	IC	P -	Pile C	ар Сс	nstru	ctio	n c	of Are
			-	!					B1	0.323	30,	IC	P - Pil
				÷			🕏 IC	P - Co	mple	te Ex	cav	ati	on &

Activity ID	Activity Name	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.		Current Float	August 20 31 07 14	· · · · · · · · · · · · · · · · · · ·	September 2016         October 2016         November 2016         mber 2016           04         11         18         25         02         09         16         23         30         06         13         20         27         04
Pilecap (A	4 & A5)	D dill			otait		o onipii	r an an o c	liout			
	AEL North - ELS Stage 4 - Extend 1st height of basement wall	10	03-Aug-16	13-Aug-16	28-Jul-16 A	09-Sep-16	30%	-23	7			B10.2060p, AEL North - ELS Stage 4 - Extend 1st height of basement v
Pilecap (E	34 & B5)											
	AEL North - ELS Stage 4 - Extend 1st height of basement wall	12	15-Aug-16	27-Aug-16	08-Aug-16 A	19-Sep-16	10%	-18	3			B10.2070m, AEL North - ELS Stage 4 - Extend 1st height of bas
B10.2070I	AEL North - Complete Pilecaps for RC Columns of Truss T1 & T2	0		18-Aug-16	-	18-Aug-16 A				*	AEL North	- Complete Pilecaps for RC Columns of Truss T1 & T2, AEL North - Complete Pil
	7: ELS & Excavation (A6, A7, A8, A9, A10, A11, A12 &	<b>B6</b> F	37 B8 B9)	5								
	- Portion (B8, A9 & B9)	20, 1	51, 20, 20,									
B10.3103	AEL North - BD Stage 6 - Pile Cap Construction (Portion B8 & A!	30	30-1ul-16	12-Sep-16	04-Jul-16 A	15-Sep-16	5%	-2	0			B10.3103, AEL North - BD Stage 6 - Pile Cap Construction (Portion
B10.3104	AEL North - BD Stage 6 - Underground Drainage (Portion B8 &			· ·	01-Aug-16 A	•						B10.3104, AEL North - BD Stage 6 - Underground Drainage (Po
Pile Cap F		12	02 000 10	19 000 10	01 //dg 10 //	20 // 49 20 //	100 /0	10				
B10.3113		10	07-Sep-16	20-Sen-16	07-Aug-16 A	20-Aug-16 A	100%	22				B10.3113, AEL North - BD Stage 6 - Pile Cap Construction (Por
B10.3114			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	10-Oct-16*		0%	0	-38			BI0.3114, AEL North - BD Stage 6 - Und
		0	10-000-10	18-000-10	10-001-10	10-001-10	0 70	U	-30		N	
Pile Cap F		12	21 Aug 16	12 Con 16	10 Aug 16 A	10 Cop 16	200/	2	4			B10.3134, AEL North - BD Stage 6 - Pile Cap Construction (Portion
B10.3134				-	19-Aug-16 A		20%		4			
B10.3144	AEL North - BD Stage 6 - Underground Drainage (Portion B9)	4	12-Sep-16	15-Sep-16	22-Aug-16 A	31-Aug-16 A	100%	14				B10.3144, AEL North - BD Stage 6 - Underground Drainage (Portio
· · · · ·	- Portion (A10a, A10b, A11 & A12)	24		02.0.10		22.0.10	1.00/	10	617			
B10.3590	AEL North - BD Stage 6 - Pile Cap Construction (Portion A10, A	24		-	01-Jul-16 A	22-Sep-16	10%		617			B10.3590, AEL North - BD Stage 6 - Pile Cap Construction (P
B10.3630	AEL North - BD Stage 6 - Pile Cap Construction (Portion B7)	9	-	-	02-Sep-16	13-Sep-16	0%	0	46			B10.3630, AEL North - BD Stage 6 - Pile Cap Construction (Portion B
B10.3640	AEL North - BD Stage 6 - Underground Drainage (Portion B7)	9	-	-	02-Sep-16	13-Sep-16	0%	0	52			B10.3640, AEL North - BD Stage 6 - Underground Drainage (Portion
B10.3600	AEL North - BD Stage 6 - Underground Drainage (Portion A10, ,	11	12-Sep-16	27-Sep-16	12-Sep-16	27-Sep-16	0%	0	617			B10.3600, AEL North - BD Stage 6 - Underground Draina
	Portion A10a			T	1							
B10.3790					13-Aug-16 A	22-Sep-16	70%	-9	14		$\leq$	B10.3790, AEL North - BD Stage 6 - Pile Construction (Portic
B10.3900		5	15-Sep-16	22-Sep-16	15-Sep-16	22-Sep-16	0%	0	621			B10.3900, AEL North - BD Stage 6 - Underground Drainage (
Pile Cap F	Portion A11											
B10.3710	AEL North - BD Stage 6 - Pile Cap Construction (Portion A11)	7	12-Sep-16	20-Sep-16	12-Sep-16	20-Sep-16	0%	0	22			B10.3710, AEL North - BD Stage 6 - Pile Cap Construction (Por
B10.3720	AEL North - BD Stage 6 - Underground Drainage (Portion A11)	7	12-Sep-16	20-Sep-16	12-Sep-16	20-Sep-16	0%	0	613			B10.3720, AEL North - BD Stage 6 - Underground Drainage (P
Pile Cap F	Portion A12											
B10.3730	AEL North - BD Stage 6 - Pile Cap Construction (Portion A12)	7	13-Sep-16	21-Sep-16	13-Sep-16	21-Sep-16	0%	0	21			B10.3730, AEL North - BD Stage 6 - Pile Cap Construction (Po
B10.3740	AEL North - BD Stage 6 - Underground Drainage (Portion A12)	7	13-Sep-16	21-Sep-16	13-Sep-16	21-Sep-16	0%	0	612			B10.3740, AEL North - BD Stage 6 - Underground Drainage(
Pilecaps -	- Portion (B6)											
B10.3620	AEL North - BD Stage 5 - Underground Drainage (Portion B6)	12	02-Sep-16	19-Sep-16	02-Sep-16	19-Sep-16	0%	0	37			B10.3620, AEL North - BD Stage 5 - Underground Drainage (Po
RC Struct	ure for Water Tank											
B10.3355	AEL North - Construct Water Tank Part 2 (West of Portion B1)	35	02-Sep-16	25-Oct-16	02-Sep-16	25-Oct-16	0%	0	600			B10.3355, AEL North - Construct V
B2/F Slab	S											
	Portion (B8 & A9)											
B10.3490	AEL North - B2 Slab - Stage 7 (Portion A9)	11	02-Sep-16	14-Sep-16	02-Sep-16	14-Sep-16	0%	0	0			B10.3490, AEL North - B2 Slab - Stage 7 (Portion A9)
B10.3530	AEL North - B2 Slab - Stage 7 (Portion B8)	9	08-Sep-16	20-Sep-16	08-Sep-16*	20-Sep-16*	0%	0	1			B10.3530, AEL North - B2 Slab - Stage 7 (Portion B8)
B2 Slab - P	Portion (B9)											
B10.3500	AEL North - B2 Slab - Stage 7 (Portion B9)	9	01-Sep-16	10-Sep-16	01-Sep-16	10-Sep-16	0%	0	4			B10 3500, AEL North - B2 Slab - Stage 7 (Portion B9)
B2 Slab - P	Portion (A10a, A10b, A11 & A12)											
B10.3075	AEL North - B2 Slab - Stage 7 (Portion A11)	6	21-Sep-16	28-Sep-16	21-Sep-16	28-Sep-16*	0%	0	25			B10.3075, AEL North - B2 Slab - Stage 7 (Portion A11)
B10.3085	AEL North - B2 Slab - Stage 7 (Portion A12)	6	-		22-Sep-16	30-Sep-16*	0%	0	18			B10.3085, AEL North - B2 Slab - Stage 7 (Portion A12)
B10.3035	AEL North - B2 Slab - Stage 7 (Portion A10b)	10	-	-	23-Sep-16	08-Oct-16*	0%	0	14			B10,3035, AEL North - B2 Slab - Stage 7 (Portio
B10.3045	AEL North - B2 Slab - Stage 7 (Portion A10a)		-		23-Sep-16	08-Oct-16	0%	0	54			B10,3045, AEL North - B2 Slab - Stage 7 (Portio
			200 10				0.0	-	- '			

Page 2	22 o	f 28
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epared on 08-S	Sep-16	(3MRP-11	) T	hree M	onths	Rolling	g Progr	amn	ne S	Stat	tus at 31 Aug	2016	Page 23 of 2
ity ID	Activity Name		Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish √ariance	Current	August 2016	September 2016         October 2           04         11         18         25         02         00         1	
B10.3005	AEL North - B2 Slab	- Stage 7 (Portion A10, A11, A12)	7	23-Sep-16	-	23-Sep-16	30-Sep-16	0%	0	23	31 07 14 21 28		6 23 30 06 13 20 27 04 2 Slab - Stage 7 (Portion A10, A11, A1
B2 Slab - Po	ortion (B6 & B7)												
B10.3022		- Stage 5 (Portion B6)	7	10-Sep-16	20-Sep-16	10-Sep-16	20-Sep-16	0%	0	34		B10.3022, AEL North	- B2 Slab - Stage 5 (Portion B6)
B10.3023	AEL North - B2 Slab	- Stage 7 (Portion B7)	11	15-Sep-16	30-Sep-16	15-Sep-16	30-Sep-16	0%	0	46		B10.3023, AE	EL North - B2 Slab - Stage 7 (Portion B7
B10.3024	Complete B2 Slab (e	exclude AEL Zone)	0		30-Sep-16		30-Sep-16	0%	0	46		S Complete B2	Slab (exclude AEL Zone), Complete B2
B1/F Slab -	Walls, Column	s & B1/F Slabs	J.										
AEL North -	B1/F Slab other t	han AEL Zone											
B10.3055	AEL North - Wall, Co	olumn & B1 Slab (Portion B1B)	15	15-Mar-16	05-Apr-16	30-Mar-16 A	13-Sep-16	85%	-109	19		B10.3055, AEL North - Wa	ll, Column & B1 Slab (Portion B1B), AE
B10.3060	AEL North - Wall, Co	olumn & B1 Slab (Portion B1C)	34	31-May-16	23-Jul-16	24-Mar-16 A	05-Sep-16	85%	-29	136	•	B10.3060, AEL North - Wall, Colu	ımn & B1 Slab (Portion B1C), AEL Nort
B10.3520	AEL North - Wall, Co	olumn & B1 Slab (Portion B1E)	22	31-May-16	04-Jul-16	16-Apr-16 A	17-Sep-16	75%	-49	24		B10.3520, AEL North -	Wall, Column & B1 Slab (Portion B1E)
B10.3540	AEL North - Wall, Co	blumn & B1 Slab (Portion B1F)	20	05-Aug-16	02-Sep-16	01-Jul-16 A	19-Sep-16	80%	-11	3		B10.3540, AEL North	- Wall, Column & B1 Slab (Portion B1F
B10.3525	AEL North - Wall, Co	olumn & B1 Slab (Portion B1E-5)	18	05-Aug-16	29-Aug-16	15-Jul-16 A	09-Sep-16	80%	-7	34		B10.3525, AEL North - Wall, (	Column & B1 \$lab (Portion B1E-5), AE
B10.3690	AEL North - Wall, Co	blumn & B1 Slab (Portion B1R)	20	08-Sep-16	08-Oct-16	08-Sep-16	08-Oct-16	0%	0	4		B10 36	90, AEL North - Wall, Column & B1 SI
B10.3065	AEL North - Wall, Co	olumn & B1 Slab (Portion B1D)	19	15-Sep-16	15-Oct-16	15-Aug-16 A	29-Sep-16	15%	9	9		B	10.3065, AEL North - Wall, Column &
B10.3560	AEL North - Wall, Co	olumn & B1 Slab (Portion B1G) (Portion A6,	14	20-Sep-16	13-Oct-16	20-Sep-16	13-Oct-16	0%	0	3		B10	).3560, AEL North - Wall, Column & B
B10.3550	AEL North - Wall, Co	olumn & B1 Slab (Portion B1J) (Portion B6)	10	22-Sep-16	07-Oct-16	22-Sep-16	07-Oct-16	0%	0	34		B10.355	50, AEL North - Wall, Column & B1 \$la
B10.3680	AEL North - Wall, Co	olumn & B1 Slab (Portion B1L) (Access Ram	26	22-Oct-16	22-Nov-16	22-Oct-16	22-Nov-16	0%	0	85			B10.3680
AEL North -	B1/F Slab for Tru	ss T1, T2 & T5 Erection											
B10.3090	AEL North - Wall, Co	olumn & B1 Slab (Portion A4 & A5)	18	22-Aug-16	17-Sep-16	22-Aug-16 A	27-Sep-16	0%	-7	140		B10.3090, AEL	North - Wall, Column & B1 Slab (Porti
C10.0120	AEL North - Constru	ct Found Space Basement Wall and Cols to	15	02-Sep-16	23-Sep-16	02-Sep-16	23-Sep-16	0%	0	588		C10 0120, AEL Nor	th - Construct Found Space Basemen
AEL North -	B1/F Slab for CSI	F & RDE (North of GL 1)											
B10.3170	AEL North - Wall, Co	olumn & B1 Slab (Portion B1K) (Portion A12	12	03-Oct-16	21-Oct-16	03-Oct-16	21-Oct-16	0%	0	46			📃 B10.3170, AEL North - Wall, Colur
B10.3150	AEL North - Wall, Co	olumn & B1 Slab (Portion B1H) (Portion A10	45	14-Oct-16	07-Dec-16	14-Oct-16	07-Dec-16	0%	0	3			
AEL South -	B1/F Slab for DC	S to facilitateTruss Erection											
B10.2135	AEL South (DCS) - E	B1 Floor Slab at ~+6.05mPD - Bay 2	11	03-Aug-16	17-Aug-16	29-Jul-16 A	02-Sep-16*	95%	-12	191		B10.2135, AEL South (DCS) - B1 F	loor Slab at ~+6.05mPD - Bay 2, AEL
B10.2145	AEL South (DCS) - E	B1 Floor Slab at ~+6.05mPD - Bay 3	11	31-Aug-16	15-Sep-16	09-Aug-16 A	09-Sep-16	60%	3	620		B10.2145, AEL South (D0	CS) - B1 Floor Slab at ~+6.05mPD - E
B10.2115	AEL South (DCS) - F	Remove 2nd Layer Struts at 0.0mPD of DCS	8	02-Sep-16	12-Sep-16	02-Sep-16	12-Sep-16	0%	0	10		B10.2115, AEL South (DCS	) - Remove 2nd Layer Struts at 0 0ml
AEL South -	<b>RC Structures Pr</b>	rior to Area M14 H/O	1										
B10.1039b	AEL South - Constru	act Core Wall on PC96 from GF to 1/F Level	25	31-Jul-16	24-Aug-16	31-Jul-16 A	14-Sep-16	30%	-21	-15		B10.1039b, AEL \$outh - C	Construct Core Wall on PC96 from GF 1
B10.3310	AEL South - Constru	uct Basement Road Wall between PC 109 &	17	02-Sep-16	26-Sep-16	02-Sep-16	26-Sep-16	0%	0	172		B10.3310, AEL S	South - Construct Basement Road Wal
B10.3290	AEL South - Constru	uct Basement Road Wall between PC 96 & P	17	02-Sep-16	26-Sep-16	02-Sep-16	26-Sep-16	0%	0	172		B10.3290, AEL S	South - Construct Basement Road Wal
B10.1040	AEL South - Constru	uct Core Wall on PC96 from 1/F to 1M/F Lev	5	15-Sep-16	22-Sep-16	15-Sep-16	22-Sep-16	0%	0	-9		B10.1040, AEL Sou	th - Construct Core Wall on PC96 from
B10.3300	AEL South - Constru	uct External Wall between PC 96 & PC105 tc	25	27-Sep-16	03-Nov-16	27-Sep-16	03-Nov-16	0%	0	172			B10.3300, AEL South -
B10.3315	AEL South - Constru	uct Walls, Column & Staircases to G/F Level	27	11-Oct-16	14-Nov-16	11-Oct-16	14-Nov-16	0%	0	172			B10.3315, AEL
B10.3320	AEL South - Constru	uct G/F slab between PC 105, 109 & 116	16	08-Nov-16	25-Nov-16	08-Nov-16	25-Nov-16	0%	0	172			B10.33
odium Su	per-Structure	S											
Trusses													
	Zone -Trusses 1												
C10.0145	AEL Tunnel Zone - (	Construct RC Column for Steel Trusses T1	21	22-Aug-16	15-Sep-16	22-Aug-16 A	30-Sep-16	40%	-13	-13		C10.0145, AE	EL Tunnel Zone - Construct RC Columr
C10.0155	AEL Tunnel Zone - 1	Truss 1 Construction Summary	117	11-Oct-16	02-Mar-17	11-Oct-16	02-Mar-17	0%	0	-13		▼	
C10.0160	AEL Tunnel Zone - 1	Truss 1 Concreting of 1st pour of bottom ch	12	11-Oct-16	24-Oct-16	11-Oct-16	24-Oct-16	0%	0	-13			C10 0160, AEL Tunnel Zone - Ti
C10.0150	AEL Tunnel Zone - E	Erection of Temp Working Platform and Fals	50	13-Oct-16	09-Dec-16	12-Jul-16 A	08-Oct-16	20%	52	-13			
		· –						1	1	1			
C10.0185	AEL Tunnel Zone - 1	Truss 1 install bottom steel plates	24	25-Oct-16	21-Nov-16	25-Oct-16	21-Nov-16	0%	0	-13			C10.0185,

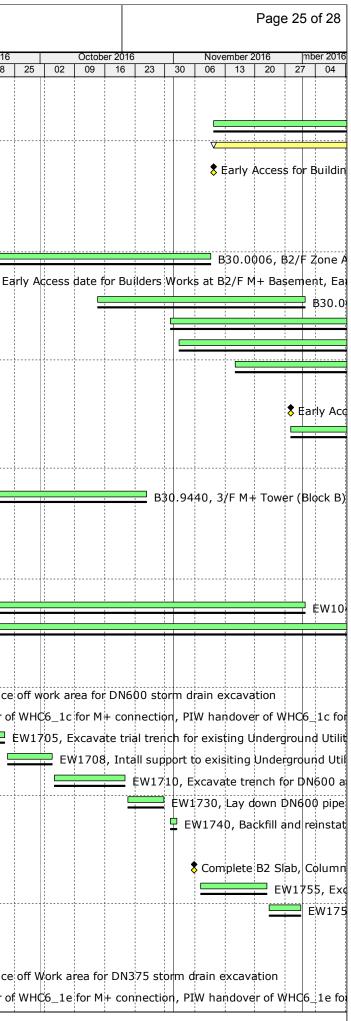
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y ID	Activity Name		Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish √ariance	Current Float		August 20 7   14	· · ·	September 2016         October 2016         November 2016         mber 2           28         04         11         18         25         02         09         16         23         30         06         13         20         27         00
AEL Tunnel	Zone -Trusses 2													
C10.0161	AEL Tunnel Zone	- Construct RC Column for Steel Trusses T2	22	22-Aug-16	15-Sep-16	22-Aug-16 A	05-Oct-16	20%	-15	-4		<		G10.0161, AEL Tunnel Zone - Construct RC Colu
C10.0170	AEL Tunnel Zone	- Truss 2 Concreting of 1st pour of bottom ch	12	18-Oct-16	31-Oct-16	18-Oct-16	31-Oct-16	0%	0	-13				C10.0170, AEL Tunnel Zon
C10.0165	AEL Tunnel Zone	- Truss 2 Construction Summary	125	18-Oct-16	18-Mar-17	18-Oct-16	18-Mar-17	0%	0	-13				
C10.0162	AEL Tunnel Zone	- Erection of Temp Working Platform and Fals	50	29-Oct-16	28-Dec-16	12-Jul-16 A	08-Oct-16	20%	66	-1				
C10.0198	AEL Tunnel Zone	- Truss 2 install bottom steel plates	24	01-Nov-16	28-Nov-16	01-Nov-16	28-Nov-16	0%	0	-13				
C10.0200	AEL Tunnel Zone	- Truss 2 install temp. platform, top nodes & i	24	29-Nov-16	28-Dec-16	29-Nov-16	28-Dec-16	0%	0	-13				
AEL Tunnel	Zone -Trusses	;												
C10.0168	AEL Tunnel Zone	- Construct Composite Columns for Truss T5	26	06-Aug-16	06-Sep-16	23-Jul-16 A	17-Sep-16	40%	-10	1				C10 0168, AEL Tunnel Zone - Construct Composite Columns
C10.0180	AEL Tunnel Zone	- Truss 5 Concreting of 1st pour of bottom ch	12	04-Oct-16	18-Oct-16	04-Oct-16	18-Oct-16	0%	0	-11				C10.0180, AEL Tunnel Zone - Truss
C10.0175	AEL Tunnel Zone	- Truss 5 Construction Summary	105	04-Oct-16	10-Feb-17	04-Oct-16	10-Feb-17	0%	0	-6				
C10.0215	AEL Tunnel Zone	- Truss 5 install bottom steel plates	24	19-Oct-16	15-Nov-16	19-Oct-16	15-Nov-16	0%	0	-6			+	C10.0215, AEL
C10.0172	AEL Tunnel Zone	- Erection of Temp Working Platform and Fals	50	29-Oct-16	28-Dec-16	12-Jul-16 A	03-Oct-16	40%	71	-11				
C10.0220	AEL Tunnel Zone	- Truss 5 install temp. platform, top nodes & i	24	16-Nov-16	13-Dec-16	16-Nov-16	13-Dec-16	0%	0	-6				
C10.0225	AEL Tunnel Zone	- Truss 5 Concreting of 2nd pour of bottom ch	15	26-Nov-16	13-Dec-16	26-Nov-16	13-Dec-16	0%	0	-6				
AEL South	- Trusses 3													
B6A.1999	AEL Tunnel Zone	- Construct Composite/RC Columns for Truss	20	15-Aug-16	06-Sep-16	08-Aug-16 A	19-Sep-16	20%	-10	10				B6A.1999, AEL Tunnel Zone - Construct Composite/RC Colu
B6A.2000	AEL South - Erect	ion of Temp Working Platform and Falsework	46	05-Sep-16	31-Oct-16	05-Sep-16*	31-Oct-16	0%	0	10				B6A.2000, AEL South - Er
B6A.2030	AEL South - Truss	3 Concreting of 1st pour of bottom chord (75	12	05-Nov-16	18-Nov-16	05-Nov-16	18-Nov-16	0%	0	10				B6A.2030, /
B6A.2020	AEL South - Truss	3 Construction Summary	135	05-Nov-16	22-Apr-17	05-Nov-16	22-Apr-17	0%	0	10				
B6A.2045	AEL South - Truss	3 install bottom steel plates	24	19-Nov-16	16-Dec-16	19-Nov-16	16-Dec-16	0%	0	10				
AEL South	- Trusses 4													
B6A.2024		- Construct Composite Columns for Truss T4	21	15-Aug-16	07-Sep-16	08-Aug-16 A	15-Sep-16	30%	-7	20		_		B6A.2024, AEL Tunnel Zone - Construct Composite Columns fo
B6A.2025	AEL South - Erect	ion of Temp Working Platform and Falsework	46	05-Sep-16	31-Oct-16	05-Sep-16	31-Oct-16	0%	0	18	-			B6A.2025, AEL South - Er
B6A.2040	AEL South - Truss	4 Concreting of 1st pour of bottom chord (75	12	05-Nov-16	18-Nov-16	05-Nov-16	18-Nov-16	0%	0	10				B6A.2040, A
B6A.2035	AEL South - Truss	4 Construction Summary	105	05-Nov-16	14-Mar-17	05-Nov-16	14-Mar-17	0%	0	10	-			
B6A.2058	AEL South - Truss	4 install bottom steel plates	24	19-Nov-16	16-Dec-16	19-Nov-16	16-Dec-16	0%	0	10				
G/F Slabs	- Walls, Colum	ns & G/F Slab												
AEL North														
B20.0000	Podium G/F Portic	n GF1A - Wall, Column & G/F slab (GL 8-10/	18	11-Oct-16	31-Oct-16	11-Oct-16	31-Oct-16	0%	0	5				B20.0000, Podium G/F Po
B20.0015	Podium G/F Portic	n GF1 - Wall, Column & G/F slab (GL 4-7/A-I	23	15-Oct-16	10-Nov-16	15-Oct-16	10-Nov-16	0%	0	9	-			B20.0015, Podium
B20.0005	Podium G/F Portic	n GF1 Tower Footprint - Wall, Column & Stru	14	25-Oct-16	09-Nov-16	25-Oct-16	09-Nov-16	0%	0	5				B20.0005, Podium
B20.0050	Podium G/F Portic	n GF2 - Wall, Column & G/F slab (GL 1-4/A-I	23	11-Nov-16	07-Dec-16	11-Nov-16	07-Dec-16	0%	0	9				
/F Slabs -	- Walls, Colum	ns & 1/F Slab												
AEL North	Walls, Colum													
B20.0425	Podium 1/F Tower	· Footprint (Block A) - Core Wall, Column & 1/	18	10-Nov-16	30-Nov-16	10-Nov-16	30-Nov-16	0%	0	5				B2
DS Struc		e Excavation)											++	
01.3010		asement Structure	100	01-Aug-16	28-Nov-16	25-Jul-16 A	30-Nov-16	10%	-2	-83				
	tures (include						-			_				
3980	ICP - ELS works (I	· · · · · · · · · · · · · · · · · · ·	110	31-May-16	12-Nov-16	20-May-16	19-Dec-16	30%	-31	-75				
4490	ICP - Structure wo	·				25-Jul-16 A		5%	12	-83				
	Services												+	

Prepared of	n 08-Sep-16
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	Activity Name	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish √ariance	Current Float	31	Aug 07	just 201 14	6 21	28		mber 2016 11 18
B2/F MEP																
_First Fix		1					î.									
B40.8990	B2/F - Building Services - Zone A - 1st Fix	60	10-Nov-16		10-Nov-16	21-Jan-17	0%	0	179							
B40.8995	B2/F - Building Services - 1st Fix - Summary	234		25-Aug-17	10-Nov-16	25-Aug-17	0%	0	16							
B40.8985	Early Access for Building Services (1st Fix)	0	10-Nov-16		10-Nov-16		0%	0	179							
ABWF																
	nent ABWF															
B2/FABW		1					Ú									
B30.0006	B2/F Zone A - Builder's Work	42	· · ·	09-Nov-16	20-Sep-16	09-Nov-16	0%	0	146							
B30.0004	Early Access date for Builders Works at B2/F M+ Basement	0	20-Sep-16		20-Sep-16		0%	0	146							\$ Ea
B30.0020	B2/F Zone C - Builder's Work	42		01-Dec-16	14-Oct-16	01-Dec-16	0%	0	111							
B30.0040	B2/F Zone E - Builder's Work	42		17-Dec-16	31-Oct-16	17-Dec-16	0%	0	132							
B30.0050	B2/F Zone F - Builder's Work	42		20-Dec-16	02-Nov-16	20-Dec-16	0%	0	118							
B30.0010	B2/F Zone B - Builder's Work	42	15-Nov-16	05-Jan-17	15-Nov-16	05-Jan-17	0%	0	119							
B1/F ABW																
B30.1002	Early Access date for Builders Works at B1/F M+ Basement	0	28-Nov-16		28-Nov-16		0%	0	181							
B30.1004	B1/F Zone A - Builder's Work	42	28-Nov-16	18-Jan-17	28-Nov-16	18-Jan-17	0%	0	181							
M+ Podiu	m ABWF															
3/F M+ Tov	wer															
		45	31-Aug-16	25-0ct-16	31-Aug-16	25-Oct-16	0%	0	304							
B30.9440	3/F M+ Tower (Block B) - Builder's Works	45	01 / ag 10	25 000 10	5 - 7 mg - 5											
		43	01	25 000 10												
B30.9440	Works	40	01 Aug 10	25 000 10												
B30.9440 External	Works	43		25 000 10												
B30.9440 External M+ Extern	Works	4J														
B30.9440 External M+ Exterr Utitlities	Works	91	-	01-Dec-16		01-Dec-16	0%	0	708							
B30.9440 External M+ Extern Utitlities Drainage	Works nal Works		02-Sep-16	01-Dec-16			0%	0	708 13							
B30.9440 External M+ Extern Utitlities Drainage EW1045 EW1010	Works nal Works Construct M+ manholes S1.1, S3.2, S3.3, S3.4 (terminal)	91	02-Sep-16	01-Dec-16	02-Sep-16	01-Dec-16										
B30.9440 External M+ Extern Utitlities Drainage EW1045 EW1010 Storm Dra	Works hal Works Construct M+ manholes S1.1, S3.2, S3.3, S3.4 (terminal) Construct the DN375 and DN600 strom drains within the At-gr.	91	02-Sep-16 02-Sep-16	01-Dec-16 12-Dec-16	02-Sep-16	01-Dec-16 12-Dec-16										
B30.9440 External M+ Extern Utitlities Drainage EW1045 EW1010 Storm Dra	Works hal Works Construct M+ manholes S1.1, S3.2, S3.3, S3.4 (terminal) Construct the DN375 and DN600 strom drains within the At-gr. In DN600 at Portion M45	91	02-Sep-16 02-Sep-16	01-Dec-16	02-Sep-16	01-Dec-16										0, Fence
B30.9440 External M+ Extern Utitlities Drainage EW1045 EW1010 Storm Dra Storm Dra	Works hal Works Construct M+ manholes S1.1, S3.2, S3.3, S3.4 (terminal) Construct the DN375 and DN600 strom drains within the At-gr. in DN600 at Portion M45 hin along Gridline D'-E'/1'-2'	91	02-Sep-16 02-Sep-16	01-Dec-16 12-Dec-16	02-Sep-16 02-Sep-16	01-Dec-16 12-Dec-16	0%	0	13							0, Fence ndover o
B30.9440 External M+ Extern Utitlities Drainage EW1045 EW1010 Storm Drain EW1700	Works Nal Works Construct M+ manholes S1.1, S3.2, S3.3, S3.4 (terminal) Construct the DN375 and DN600 strom drains within the At-gr. in DN600 at Portion M45 ain along Gridline D'-E'/1'-2' Fence off work area for DN600 storm drain excavation	91 75 1	02-Sep-16 02-Sep-16 02-Sep-16	01-Dec-16 12-Dec-16 02-Sep-16	02-Sep-16 02-Sep-16	01-Dec-16 12-Dec-16 02-Sep-16	0%	0	13 263							
B30.9440 External M+ Extern Utitlities Drainage EW1045 EW1010 Storm Dra EW1700 EW1750	Works Nal Works Construct M+ manholes S1.1, S3.2, S3.3, S3.4 (terminal) Construct the DN375 and DN600 strom drains within the At-gr. in DN600 at Portion M45 in along Gridline D'-E'/1'-2' Fence off work area for DN600 storm drain excavation PIW handover of WHC6_1c for M+ connection	91 75 1 0	02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16	01-Dec-16 12-Dec-16 02-Sep-16 02-Sep-16	02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16	01-Dec-16 12-Dec-16 02-Sep-16	0%	0	13 263 -40							
B30.9440 External M+ Extern Utitlities Drainage EW1045 EW1010 Storm Dra EW1700 EW1750 EW1705	Works         bal Works         Construct M+ manholes S1.1, S3.2, S3.3, S3.4 (terminal)         Construct the DN375 and DN600 strom drains within the At-gr.         in DN600 at Portion M45         ain along Gridline D'-E'/1'-2'         Fence off work area for DN600 storm drain excavation         PIW handover of WHC6_1c for M+ connection         Excavate trial trench for existing Underground Utilities	91 75 1 0 14	02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16	01-Dec-16 12-Dec-16 02-Sep-16 02-Sep-16 22-Sep-16 03-Oct-16	02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16	01-Dec-16 12-Dec-16 02-Sep-16 02-Sep-16* 22-Sep-16	0% 0% 0%	0 0 0 0	13 263 -40 263							
B30.9440 External M+ Extern Utitlities Drainage EW1045 EW1010 Storm Dra Storm Dra EW1700 EW1750 EW1705 EW1708	Works Nal Works Construct M+ manholes S1.1, S3.2, S3.3, S3.4 (terminal) Construct the DN375 and DN600 strom drains within the At-gr. IN DN600 at Portion M45 INT along Gridline D'-E'/1'-2' Fence off work area for DN600 storm drain excavation PIW handover of WHC6_1c for M+ connection Excavate trial trench for existing Underground Utilities Intall support to exisiting Underground Utilities	91 75 1 0 14 7	02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16 23-Sep-16 04-Oct-16	01-Dec-16 12-Dec-16 02-Sep-16 02-Sep-16 22-Sep-16 03-Oct-16	02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16	01-Dec-16 12-Dec-16 02-Sep-16 02-Sep-16* 22-Sep-16	0% 0% 0% 0%	0 0 0 0 0	13 263 -40 263 263							
B30.9440 External M+ Extern Utitlities Drainage EW1045 EW1010 Storm Dra Storm Dra EW1700 EW1750 EW1705 EW1708 EW1710	Works Nal Works Construct M+ manholes S1.1, S3.2, S3.3, S3.4 (terminal) Construct the DN375 and DN600 strom drains within the At-gr. in DN600 at Portion M45 ain along Gridline D'-E'/1'-2' Fence off work area for DN600 storm drain excavation PIW handover of WHC6_1c for M+ connection Excavate trial trench for existing Underground Utilities Intall support to exisiting Underground Utilities Excavate trench for DN600 and install shoring	91 75 1 0 14 7 10	02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16 23-Sep-16 04-Oct-16 21-Oct-16	01-Dec-16 12-Dec-16 12-Sep-16 02-Sep-16 22-Sep-16 03-Oct-16 20-Oct-16	02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16 23-Sep-16 04-Oct-16	01-Dec-16 12-Dec-16 02-Sep-16 02-Sep-16 22-Sep-16 03-Oct-16	0% 0% 0% 0% 0%	0 0 0 0 0 0	13 263 -40 263 263 263							
B30.9440 External M+ Extern Utitlities Drainage EW1045 EW1045 EW1010 Storm Dra Storm Dra EW1700 EW1750 EW1705 EW1708 EW1710 EW1730 EW1740	Works         al Works         Construct M+ manholes S1.1, S3.2, S3.3, S3.4 (terminal)         Construct the DN375 and DN600 strom drains within the At-gr.         in DN600 at Portion M45         ain along Gridline D'-E'/1'-2'         Fence off work area for DN600 storm drain excavation         PIW handover of WHC6_1c for M+ connection         Excavate trial trench for existing Underground Utilities         Intall support to exisiting Underground Utilities         Excavate trench for DN600 and install shoring         Lay down DN600 pipe between WHC6_1c & MHS3.4	91 75 1 0 14 7 10 7	02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16 23-Sep-16 04-Oct-16 21-Oct-16	01-Dec-16 12-Dec-16 12-Sep-16 02-Sep-16 02-Sep-16 03-Oct-16 29-Oct-16	02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16 23-Sep-16 04-Oct-16 21-Oct-16	01-Dec-16 12-Dec-16 02-Sep-16 02-Sep-16* 22-Sep-16 03-Oct-16 20-Oct-16	0% 0% 0% 0% 0% 0%	0 0 0 0 0 0 0 0 0	13 263 -40 263 263 263 263							
B30.9440 External M+ Extern Utitlities Drainage EW1045 EW1045 EW1010 Storm Dra Storm Dra EW1700 EW1750 EW1705 EW1708 EW1710 EW1730 EW1740	Works         al Works         Construct M+ manholes S1.1, S3.2, S3.3, S3.4 (terminal)         Construct the DN375 and DN600 strom drains within the At-gr.         in DN600 at Portion M45         ain along Gridline D'-E'/1'-2'         Fence off work area for DN600 storm drain excavation         PIW handover of WHC6_1c for M+ connection         Excavate trial trench for existing Underground Utilities         Intall support to exisiting Underground Utilities         Excavate trench for DN600 and install shoring         Lay down DN600 pipe between WHC6_1c & MHS3.4         Backfill and reinstate pavement	91 75 1 0 14 7 10 7	02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16 23-Sep-16 04-Oct-16 21-Oct-16	01-Dec-16 12-Dec-16 12-Sep-16 02-Sep-16 02-Sep-16 03-Oct-16 29-Oct-16	02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16 23-Sep-16 04-Oct-16 21-Oct-16	01-Dec-16 12-Dec-16 02-Sep-16 02-Sep-16* 22-Sep-16 03-Oct-16 20-Oct-16	0% 0% 0% 0% 0% 0%	0 0 0 0 0 0 0 0 0	13 263 -40 263 263 263 263							
B30.9440 External M+ Extern Utitlities Drainage EW1045 EW1010 Storm Dra Storm Dra EW1700 EW1700 EW1705 EW1708 EW1708 EW1710 EW1730 EW1740 Storm Dra	Works         al Works         Construct M+ manholes S1.1, S3.2, S3.3, S3.4 (terminal)         Construct the DN375 and DN600 strom drains within the At-gr.         in DN600 at Portion M45         ain along Gridline D'-E'/1'-2'         Fence off work area for DN600 storm drain excavation         PIW handover of WHC6_1c for M+ connection         Excavate trial trench for existing Underground Utilities         Intall support to exisiting Underground Utilities         Excavate trench for DN600 and install shoring         Lay down DN600 pipe between WHC6_1c & MHS3.4         Backfill and reinstate pavement	91 75 1 0 14 7 10 7 2	02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16 23-Sep-16 23-Sep-16 23-Sep-16 21-Oct-16 31-Oct-16	01-Dec-16 12-Dec-16 02-Sep-16 02-Sep-16 22-Sep-16 03-Oct-16 29-Oct-16 29-Oct-16	02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16 23-Sep-16 04-Oct-16 21-Oct-16	01-Dec-16 12-Dec-16 12-Dec-16 02-Sep-16 02-Sep-16 22-Sep-16 22-Sep-16 22-Sep-16 03-Oct-16 29-Oct-16 29-Oct-16	0% 0% 0% 0% 0% 0%	0 0 0 0 0 0 0 0 0 0	13 263 -40 263 263 263 263 263							
B30.9440 External M+ Extern Utitlities Drainage EW1045 EW1045 EW1045 EW1045 EW100 EW1750 EW1750 EW1705 EW1708 EW1708 EW1710 EW1730 EW1740 Storm Dra EW1765	Works         al Works         Construct M+ manholes S1.1, S3.2, S3.3, S3.4 (terminal)         Construct the DN375 and DN600 strom drains within the At-gr.         in DN600 at Portion M45         ain along Gridline D'-E'/1'-2'         Fence off work area for DN600 storm drain excavation         PIW handover of WHC6_1c for M+ connection         Excavate trial trench for existing Underground Utilities         Intall support to exisiting Underground Utilities         Excavate trench for DN600 and install shoring         Lay down DN600 pipe between WHC6_1c & MHS3.4         Backfill and reinstate pavement         ain along Gridline E'-G' / 1'-2'         Complete B2 Slab, Columns & Walls at A6 & A7	91 75 1 1 14 7 10 7 2 2	02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16 23-Sep-16 04-Oct-16 31-Oct-16 31-Oct-16	01-Dec-16 12-Dec-16 12-Dec-16 02-Sep-16 02-Sep-16 03-Oct-16 03-Oct-16 29-Oct-16 01-Nov-16	02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16 23-Sep-16 23-Sep-16 23-Sep-16 31-Oct-16 31-Oct-16	01-Dec-16 12-Dec-16 12-Dec-16 02-Sep-16 02-Sep-16 22-Sep-16 03-Oct-16 20-Oct-16 29-Oct-16 29-Oct-16	0% 0% 0% 0% 0% 0%	0 0 0 0 0 0 0 0 0 0 0	13 263 -40 263 263 263 263 263 263							
B30.9440         External         M+ Extern         Utitlities         Drainage         EW1045         EW1700         EW1705         EW1708         EW1708         EW1708         EW1740         Storm Drate         EW1765         EW1755         EW1758	Works         al Works         Construct M+ manholes S1.1, S3.2, S3.3, S3.4 (terminal)         Construct the DN375 and DN600 strom drains within the At-gr.         in DN600 at Portion M45         ain along Gridline D'-E'/1'-2'         Fence off work area for DN600 storm drain excavation         PIW handover of WHC6_1c for M+ connection         Excavate trial trench for existing Underground Utilities         Intall support to exisiting Underground Utilities         Excavate trench for DN600 and install shoring         Lay down DN600 pipe between WHC6_1c & MHS3.4         Backfill and reinstate pavement         ain along Gridline E'-G' / 1'-2'         Complete B2 Slab, Columns & & Walls at A6 & A7         Excavate Trial trench for exisiting Underground Utilities	91 75 1 1 1 4 7 10 7 2 10 7 2 10 7 10 7 10 14	02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16 23-Sep-16 04-Oct-16 31-Oct-16 31-Oct-16	01-Dec-16 12-Dec-16 12-Dec-16 02-Sep-16 02-Sep-16 22-Sep-16 03-Oct-16 29-Oct-16 29-Oct-16 29-Oct-16	02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16 23-Sep-16 23-Sep-16 23-Sep-16 31-Oct-16 31-Oct-16	01-Dec-16 12-Dec-16 12-Dec-16 02-Sep-16 02-Sep-16 22-Sep-16 22-Sep-16 22-Sep-16 03-Oct-16 20-Oct-16 29-Oct-16 29-Oct-16 29-Oct-16 22-Nov-16	0% 0% 0% 0% 0% 0% 0%	0 0 0 0 0 0 0 0 0 0 0 0 0 0	13 263 -40 263 263 263 263 263 263 263 263 263 263							
B30.9440         External         M+ Extern         Utitlities         Drainage         EW1045         EW1045         EW1045         EW1045         EW1045         EW1045         EW1010         Storm Dra         EW1700         EW1705         EW1708         EW1700         EW1740         Storm Dra         EW1765         EW1758         EW1758	Works         al Works         Construct M+ manholes S1.1, S3.2, S3.3, S3.4 (terminal)         Construct the DN375 and DN600 strom drains within the At-gr.         in DN600 at Portion M45         ain along Gridline D'-E'/1'-2'         Fence off work area for DN600 storm drain excavation         PIW handover of WHC6_1c for M+ connection         Excavate trial trench for existing Underground Utilities         Intall support to exisiting Underground Utilities         Excavate trench for DN600 and install shoring         Lay down DN600 pipe between WHC6_1c & MHS3.4         Backfill and reinstate pavement         ain along Gridline E'-G' / 1'-2'         Complete B2 Slab, Columns & & Walls at A6 & A7         Excavate Trial trench for existing Underground Utilities         Install support to existing Underground Utilities	91 75 1 1 1 4 7 10 7 2 10 7 2 10 7 10 7 10 14	02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16 23-Sep-16 04-Oct-16 31-Oct-16 31-Oct-16	01-Dec-16 12-Dec-16 12-Dec-16 02-Sep-16 02-Sep-16 22-Sep-16 03-Oct-16 29-Oct-16 29-Oct-16 29-Oct-16	02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16 23-Sep-16 23-Sep-16 23-Sep-16 31-Oct-16 31-Oct-16	01-Dec-16 12-Dec-16 12-Dec-16 02-Sep-16 02-Sep-16 22-Sep-16 22-Sep-16 22-Sep-16 03-Oct-16 20-Oct-16 29-Oct-16 29-Oct-16 29-Oct-16 22-Nov-16	0% 0% 0% 0% 0% 0% 0%	0 0 0 0 0 0 0 0 0 0 0 0 0 0	13 263 -40 263 263 263 263 263 263 263 263 263 263							
B30.9440 External M+ Extern Utitlities Drainage EW1045 EW1045 EW100 Storm Dra EW1700 EW1700 EW1700 EW1700 EW1700 EW1740 EW1740 EW1740 EW1765 EW1755 EW1758 EW1758	Works         al Works         Construct M+ manholes S1.1, S3.2, S3.3, S3.4 (terminal)         Construct the DN375 and DN600 strom drains within the At-gr.         in DN600 at Portion M45         ain along Gridline D'-E'/1'-2'         Fence off work area for DN600 storm drain excavation         PIW handover of WHC6_1c for M+ connection         Excavate trial trench for existing Underground Utilities         Intall support to exisiting Underground Utilities         Excavate trench for DN600 and install shoring         Lay down DN600 pipe between WHC6_1c & MHS3.4         Backfill and reinstate pavement         ain along Gridline E'-G' / 1'-2'         Complete B2 Slab, Columns & & Walls at A6 & A7         Excavate Trial trench for existing Underground Utilities         Install support to existing Underground Utilities	91 75 1 1 1 4 7 10 7 2 10 7 2 10 7 10 7 10 14	02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16 23-Sep-16 04-Oct-16 21-Oct-16 31-Oct-16 21-Oct-16 23-Nov-16	01-Dec-16 12-Dec-16 12-Dec-16 02-Sep-16 02-Sep-16 22-Sep-16 03-Oct-16 29-Oct-16 29-Oct-16 29-Oct-16	02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16 23-Sep-16 04-Oct-16 21-Oct-16 31-Oct-16 31-Oct-16 23-Nov-16	01-Dec-16 12-Dec-16 12-Dec-16 02-Sep-16 02-Sep-16 22-Sep-16 22-Sep-16 22-Sep-16 03-Oct-16 20-Oct-16 29-Oct-16 29-Oct-16 29-Oct-16 22-Nov-16	0% 0% 0% 0% 0% 0% 0%	0 0 0 0 0 0 0 0 0 0 0 0 0 0	13 263 -40 263 263 263 263 263 263 263 263 263 263					\$	PIW hai	



Prepared	on	08-Sep-16
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	Activity Name	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish C √ariance	Current Float	31	August	21	28 04		per 2016
EW1615	Excavate Trial Trench for existing Underground Utilities	14	02-Sep-16	22-Sep-16	02-Sep-16	22-Sep-16	0%	ļļ.	322			 			
EW1618	Install support to exisiting underground Utilities	14	23-Sep-16	15-Oct-16	23-Sep-16	15-Oct-16	0%	0	322						5
EW6120	Excavate trench for DN375 and install shoring	15	17-Oct-16	04-Nov-16	17-Oct-16	04-Nov-16	0%	0	322						
EW6140	Lay down DN375 pipe between WHC6_1e	12	05-Nov-16	18-Nov-16	05-Nov-16	18-Nov-16	0%	0	322						
EW6150	Backfill and reinstate pavement	4	19-Nov-16	23-Nov-16	19-Nov-16	23-Nov-16*	0%	0	322						
Storm Drair	n DN150 at Portion M45		<u> </u>									 			
Storm Drai	n along Gridline A / 5' - 6'														
EW1900	PIW handover of WHC6_1f for M+ connection	0		02-Sep-16		02-Sep-16*	0%	0	-15				PIW	/ hand	over o
EW1910	Fence off work area for DN150 storm drain excavation	1	02-Sep-16	02-Sep-16	02-Sep-16	02-Sep-16	0%	0	340				! EW	1910,	Fence
EW1915	Excavate Trial Trench fo exisiting Underground Utilities	14	03-Sep-16	23-Sep-16	03-Sep-16	23-Sep-16	0%	0	340						_
EW1930	Install support to exisiting Underground Utilities	8	24-Sep-16	07-Oct-16	24-Sep-16	07-Oct-16	0%	0	340			 			
EW1920	Excavate trench for DN150 and install shoring	6	08-Oct-16	17-Oct-16	08-Oct-16	17-Oct-16	0%	0	340						
EW1940	Lay down DN150 and connect to WHC6_1f	9	18-Oct-16	29-Oct-16	18-Oct-16	29-Oct-16	0%	0	340						
EW1950	Backfill and reinstate pavement	3	31-Oct-16	02-Nov-16	31-Oct-16	02-Nov-16*	0%	0	340						
Storm Drai	n DN300 along Gridline G-M/14														
EW1945	DCS Plant Room RC Structure complete (including defered pile (	0		06-Sep-16		06-Sep-16	0%	0	304			 	\$	DCS P	lant Ro
EW1955	Prepare / Submit Temp Works ELS with ICE Cert	14	08-Sep-16	27-Sep-16	08-Sep-16	27-Sep-16	0%	0	304				ŗ		
EW1960	Excavate Trial Trench for existing underground utilities	14	15-Sep-16	07-Oct-16	15-Sep-16	07-Oct-16	0%	0	304						
EW1970	Install support on existing underground utilities	14	08-Oct-16	28-Oct-16	08-Oct-16	28-Oct-16	0%	0	304						
EW1980	Excavate to formation level & install laterla support	14	29-Oct-16	14-Nov-16	29-Oct-16	14-Nov-16	0%	0	304						
EW1990	Construct Mnahole S2.12 & S2.13	14	15-Nov-16	30-Nov-16	15-Nov-16	30-Nov-16	0%	0	304			 			
Strom Drai	n DN600 along Gridline B-G/14														
EW8605	Completion of B1 Slab (Portion B1E)	0		06-Sep-16		06-Sep-16	0%	0	197				\$	Compl	etion c
EW8610	Excavate Trial Trench for existing underground utilities	14	08-Sep-16	27-Sep-16	08-Sep-16	27-Sep-16	0%	0	197				ŗ		
EW8620	Install support on existing underground utilities	14	29-Sep-16	21-Oct-16	29-Sep-16	21-Oct-16	0%	0	197						
EW8630	Excavate to formation level & install laterla support	14	22-Oct-16	08-Nov-16	22-Oct-16	08-Nov-16	0%	0	309			 			
EW8640	Construct Mnahole S2.12 & S2.13	14	09-Nov-16	24-Nov-16	09-Nov-16	24-Nov-16	0%	0	309						
EW8650	Install DN300 pipe and connect to Manholes S2.12 & S2.13	7	25-Nov-16	02-Dec-16	25-Nov-16	02-Dec-16	0%	0	309						
Storm Drai	n DN750 along Gridline A-B/14														
EW8670	Excavate Trial Trench for existing underground utilities	14	22-Oct-16	08-Nov-16	22-Oct-16	08-Nov-16	0%	0	197						
EW8680	Install support on existing underground utilities	14		24-Nov-16	09-Nov-16	24-Nov-16	0%		197			 			
EW8690	Excavate to formation level & install laterla support	14		10-Dec-16	25-Nov-16	10-Dec-16	0%		281						
	n DN700 along Gridline A/3-11														
EW8760	Excavate Trial Trench for existing underground utilities	14	25-Nov-16	10-Dec-16	25-Nov-16	10-Dec-16	0%	0	197						
Sewage															
EW1000	Construct the DN375 sewer drain within Austin Road West and	50	02-Sep-16	12-Nov-16	02-Sep-16	12-Nov-16	0%	0	585			 			
	Austin Road (Portion L09)				·										
EW1340	PIW Handover date of Manhole F1.2 to HCC	0		12-Nov-16		12-Nov-16*	0%	0	0						
EW1230	Application & Approval of Excavation Permit (HyD) for works alc	14	13-Nov-16	26-Nov-16	13-Nov-16	26-Nov-16	0%	-	334						
EW1215	Application & approval of TTMS	28		10-Dec-16	13-Nov-16	10-Dec-16	0%		341						
EW1270	Prepare and submit design of ELS within Austin Road	14		10-Dec-16	27-Nov-16	10-Dec-16	0%		334			 			
	acent to CLP Station (Portion L19)														
EW6060	Storm and Sewer drain last manhole connection	72	02-Sep-16	08-Dec-16	02-Sep-16	08-Dec-16	0%	0	563						
	300 at Portion M01, Gridline A / 3-14														

	Page 26 of 28
6 October 3 25 02 09	2016         November 2016         mber 2016           16         23         30         06         13         20         27         04
	e Trial Trench for existing Underground Utili
	EW1618, Install support to exisiting under
	EW6120, Excavate trench f
	EW6140, Lay do
	🔜 EW6150, Ba
of WHC6_1f for M+	connection, PIW handover of WHC6_1f for
ce off work area for [	DN150 storm drain excavation
EW1915, Excavat	e Trial Trench fo exisiting Underground Util
EW193	30, Install support to exisiting Underground
	EW1920, Excavate trench for DN150 and
	EW1940, Lay down DN150 and
	EW1950, Backfill and reinsta
Room RC Structure c	complete (including defered pile caps & sum
🔜 EW1955, Prep	are / Submit Temp Works ELS with ICE Cer
<b>EW196</b>	50, Excavate Trial Trench for existing under
	EW1970, Install support on exist
	EW1980, Excavate
	EW199
of B1 Slab (Portion	B1E), Completion of B1 Slab (Portion B1E)
EW8610, Exca	vate Trial Trench for existing underground
	EW8620, Install support on existing u
	EW8630, Excavate to fo
	EW8640, C
	EW86
	EW8670, Excavate Trial
	EW8680, Ir
	EW1000, Construct t
	🕏 PIW Handover date o
	EW1230,

Prepared	on	08-Sep-16
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	Activity Name	Ori.	BaseLine Start	BaseLine	Forecast / Actual	Forcast / Actual	%	Finish			ist 2016 September 2016 October 2016 November 2016
/1355	Completion of B1 Slab (Portion B1G, Portion A6, A7)	Dur.		Finish 19-Nov-16	Start	Finish 19-Nov-16	Compl.	√ariance 0	Float 3	31 07	14 21 28 04 11 18 25 02 09 16 23 30 06 13 20
/1356	Excavate Trial Trench for existing Underground Utilities	21	21-Nov-16		21-Nov-16	14-Dec-16	0%	0	213		
			21 1107 10	11 Dec 10	21 1107 10	11 Dec 10	0.10	Ū	215		
1025	Construct the branch gas main for M+	50	31-Aug-16	19-0ct-16	31-Aug-16	19-Oct-16	0%	0	689		EW1025, Construct the branc
1030	Construct the branch gas main for RDE building		20-Oct-16			08-Dec-16	0%	0	689		
	at Portion M45		10 000 10	00 200 10	10 000 10	00 200 10	0.10	U U			
	along Gridline E' - I' / 1'										
V1035	Take Possession date of M45 (M45 IS Appendix D1, 31 July 16)	0	31-Aug-16		31-Aug-16*		0%	0	-31		Take Possession date of M45 (M45 IS Appendix D1, 31 July 16), Tak
D			01 / ag 10		01 / lag 10		0.10	Ū			
	n Works at Portion M45										
1147	Watermain (FH-CH250) interface : M+Planned date (1 Jun16)	0	31-Aug-16		31-Aug-16*		0%	0	-91		Watermain (FH-CH250) interface : M+Planned date (1 Jun16), Water
1150	PIW Contractor Handover Portion M45 to HCC (IS Appendix D1,	0	31-Aug-16		31-Aug-16*		0%	0	-31		PIW Contractor Handover Portion M45 to HCC (IS Appendix D1, item
1160	Remove existing hoarding fixed to Sheet pile		02-Sep-16			22-Sep-16	0%	0	56		EW1160, Remove existing hoarding fixed to Sheet
1170	Install a new hoarding with 500mm clearance from roadside	7	· ·	03-Oct-16	•	03-Oct-16	0%	0	56		EW1170, Install a new hoarding with 500
1180	Excavate Trench to expose watermains by PIW & install shoring	, 7	· · · ·	15-Oct-16	· · ·	15-Oct-16	0%	0	56		EW1180, Excavate Trench to exp
1190	Cut down sheet piles for water pipe connections	. 7			17-Oct-16	25-Oct-16	0%	0	56		EW1190, Cut down sheet
1510	Construct Incoming Water Mains (1- DN100 salt water)	21	26-Oct-16			15-Nov-16*	0%	0	70		EW1510
1500	Construct Incoming Water Mains (2- DN150 Fresh Water)				26-Oct-16	15-Nov-16*	0%	0	70		EW1500
	n Works at Portion M01		20 000 10	15 1107 10	20 000 10	15 1107 10	0.10	Ű	7.0		
6090	Construct the incoming water mains (two DN150 fresh water, a	90	16-Nov-16	07-Mar-17	16-Nov-16	07-Mar-17	0%	0	57		
ecom		50	10	o, na 1,	10 10	o,	0.10	Ū			
1080	Lay Telecom FTNS duct and complete pits connection	72	26-Sep-16	30-Dec-16	26-Sep-16	30-Dec-16	0%	0	276		
)			10 0 0p 10	00 200 10	10 00p 10			, , , , , , , , , , , , , , , , , , ,			
1090	Excavate trench in footway for the 11kV direct buried cables	12	02-Sep-16	19-Sep-16	02-Sep-16	19-Sep-16	0%	0	496		EW1090, Excavate trench in footway for the 11kV dir
1100	Lay 11kV power cable by CLP (by others)	25	· · · ·		20-Sep-16	28-Oct-16	0%	0	496		EW1100, Lay 11kV po
1110	Backfilling footway to adjacent ground level	6		04-Nov-16		04-Nov-16	0%	0	496		EW1110, Backfill
1120	Allow Access for PIW Contractor to carry out works for 132kV ca	0	05-Nov-16		05-Nov-16		0%	0	686		Allow Access for
1130	Lay 132kV cable by CLP (by others)	25			05-Nov-16	03-Dec-16	0%	0	496		
	Portal Area										
000	Entrance Portal Area - Dewatering Complete	0		25-Oct-16		25-Oct-16	0%	0	60		🕏 Entrance Portal Area - De
010	Entrance Portal Area - Excavation	20	27-Oct-16			18-Nov-16	0%	0	60		EW20
020	Entrance Portal Area - Construct Entrance Portal Area to B1 Str				04-Nov-16	08-Dec-16	0%	0	60		
	r Drainage Pipe						-				
000	Take Possession of M15,M16, M38 & M39	0	02-Sep-16		02-Sep-16		0%	0	395		Take Possession of M15,M16, M38 & M39, Take Possession of M15
010	Install Seawater Discharge Pipes in Portions M15, M16, M38 &		02-Sep-16		02-Sep-16	09-Feb-17	0%	0	411		
040	Install Seawater Discharge Pipes in Portions M41 & M42		02-Sep-16			21-Feb-17	0%	0	457		
030	Take Possession of Site Portion M41 & M42		02-Sep-16		02-Sep-16		0%	0	457		Take Possession of Site Portion M41 & M42, Take Possession of Site
	Drainage Pipe							-			
-mater I	Intake and Outfall Pipeworks										
awater I	Take Possession of M38 & M39 (Appendix D2. 31Aug16)	0	31-Aug-16		31-Aug-16*		0%	0	0		Take Possession of M38 & M39 (Appendix D2, 31Aug16), Take Posse
		0	01-Oct-16		01-Oct-16*		0%	0	0		Take Possession of Site Portion M41 & M42 (
8960	Take Possession of Site Portion M41 & M42 (Annendix D2 10c)						2,3				
8960 8980	Take Possession of Site Portion M41 & M42 (Appendix D2, 10cl outfall nineworks underground section Ch0 - 108 (sta	rting	from Ch10	8)							
/8960 /8980	Take Possession of Site Portion M41 & M42 (Appendix D2, 10d outfall pipeworks underground section Ch0 - 108 (sta Trial Pits and trenches for exposing Underground Utilities	_	from Ch10 02-Sep-16		02-Sen-16	01-Nov-16	0%	0	177		EW3080, Trial Pits

rity ID	Activity Name	Ori.	BaseLine Start	BaseLine	Forecast / Actual	Forcast / Actual	%	Finish	Current	1	August 2	2010			September 201
EW2100		Dur.	07.0+16	Finish	Start	Finish	Compl.	√ariance		31 (	07 14	4 21	2	28 0	04 11 18
EW3100	Driving of sheet piles	32		17-Nov-16	07-Oct-16	17-Nov-16	0%	0	177						
EW3110	Pre-boring for overcoming underground obstructions	20		10-Nov-16	15-Oct-16	10-Nov-16	0%	0	178						
EW3120	Excavation for installing 1st layer of walings and struts	10		23-Nov-16	11-Nov-16	23-Nov-16	0%	0	177						
EW3130	Installing 1st layer of walings and struts	18		08-Dec-16	18-Nov-16	08-Dec-16	0%	0	177						
EW3140	Hanging and supporting of existing underground KGO and othe	9	24-Nov-16	05-Dec-16	24-Nov-16	05-Dec-16	0%	0	180						
	108, for future connections by Lyric (trench fromation -3.6	mPD)													
EW3200	Excavation for installing 2nd layer of walings and struts	5	24-Nov-16	30-Nov-16	24-Nov-16	30-Nov-16	0%	0	177						
CH5 to 40	0 (trench formation +0.9mPD), Ch40 to 105 (trench formation	ion+1	.8mPD),												
EW3280	Excavation to bottom of trench	14	24-Nov-16	10-Dec-16	24-Nov-16	10-Dec-16	0%	0	197						
DCS Box															
EW9010	Excavate Trial Trench	4	02-Sep-16	06-Sep-16	02-Sep-16	06-Sep-16	0%	0	307						EW9010, E
EW9000	Access tp Portion M15 & M16	0	02-Sep-16		02-Sep-16		0%	0	307					8 Ac	cess tp Porti
EW9020	Open Cut Excavation (one side of Pipe Piles Gammon)	4	08-Sep-16	12-Sep-16	08-Sep-16	12-Sep-16	0%	0	307						💻 EW902
EW9030	Pour Blinding	1	13-Sep-16	13-Sep-16	13-Sep-16	13-Sep-16	0%	0	307						∎ EW90
EW9170	1st Pour Lower Slab (FRC + Puddle flange)	4	15-Sep-16	20-Sep-16	15-Sep-16	20-Sep-16	0%	0	307						<u> </u>
EW9180	2nd Pour Lower Slab (FRC + Puddle flange)	4	22-Sep-16	26-Sep-16	22-Sep-16	26-Sep-16	0%	0	307						
EW9190	Remove Shutter	1	27-Sep-16	27-Sep-16	27-Sep-16	27-Sep-16	0%	0	307						
EW9200	Backfill & Reinstate to Ground Level	3	29-Sep-16	03-Oct-16	29-Sep-16	03-Oct-16	0%	0	307						
	DCS Box complete	0		03-Oct-16		03-Oct-16	0%	0	307						
EW9210										1 :				( ) ( )	
Intaking C B10.1100	Chiller Mains Intake Chiller Mains - Install Grout Curtain along Sheet Piles	42	26-Nov-16	17-Jan-17	26-Nov-16	17-Jan-17	0%	0	455						
Intaking C <sup>B10.1100</sup> Statutory M+ Muse	Chiller Mains Intake Chiller Mains - Install Grout Curtain along Sheet Piles Inspections & Occupation Permit (OP um - Statutory Inspection & Approval	)	26-Nov-16	17-Jan-17	26-Nov-16	17-Jan-17	0%	0	455						
Intaking C <sup>B10.1100</sup> Statutory M+ Muse	Chiller Mains Intake Chiller Mains - Install Grout Curtain along Sheet Piles Inspections & Occupation Permit (OP	)			26-Nov-16 10-Sep-16*	17-Jan-17 08-Dec-16	0%	0	229						
Intaking C B10.1100 Statutory M+ Museu M+ Museu SH4200	Chiller Mains Intake Chiller Mains - Install Grout Curtain along Sheet Piles Inspections & Occupation Permit (OP um - Statutory Inspection & Approval um - WSD (FS Pipeworks) Inspection & Approva	<b>)</b> 90	10-Sep-16	08-Dec-16											
Intaking O B10.1100 Statutory M+ Museu SH4200 M+ Museu SH4260 Summary	Chiller Mains Intake Chiller Mains - Install Grout Curtain along Sheet Piles Inspections & Occupation Permit (OP um - Statutory Inspection & Approval um - WSD (FS Pipeworks) Inspection & Approva FS - Submit Form WW046 (Part 1 & 2) and Approval by WSD ( um - WSD (Plumbing) Inspection & Approval	<b>)</b> 90	10-Sep-16	08-Dec-16	10-Sep-16*	08-Dec-16	0%	0	229						
Intaking C B10.1100 Statutory M+ Museu SH4200 M+ Museu SH4260 Summary M+	Chiller Mains Intake Chiller Mains - Install Grout Curtain along Sheet Piles Inspections & Occupation Permit (OP um - Statutory Inspection & Approval um - WSD (FS Pipeworks) Inspection & Approval FS - Submit Form WW046 (Part 1 & 2) and Approval by WSD ( Im - WSD (Plumbing) Inspection & Approval Plumbing - Submit Form WW046 (Part 1 & 2) to WSD (Subject Plumbing - Submit Form WW046 (Part 1 & 2) to WSD (Subject	<b>)</b> 90	10-Sep-16	08-Dec-16	10-Sep-16*	08-Dec-16	0%	0	229						
Intaking O B10.1100 Statutory M+ Museu SH4200 M+ Museu SH4260 Summary M+ Foundatio	Chiller Mains         Intake Chiller Mains - Install Grout Curtain along Sheet Piles         Inspections & Occupation Permit (OP         um - Statutory Inspection & Approval         um - WSD (FS Pipeworks) Inspection & Approval         FS - Submit Form WW046 (Part 1 & 2) and Approval by WSD (\$         um - WSD (Plumbing) Inspection & Approval         Plumbing - Submit Form WW046 (Part 1 & 2) to WSD (Subject         y Programme         on & Basement	90	10-Sep-16 10-Sep-16	08-Dec-16 08-Dec-16	10-Sep-16* 10-Sep-16*	08-Dec-16 08-Dec-16	0%	0	229 229						
Intaking C B10.1100 Statutory M+ Museu SH4200 M+ Museu SH4260 Summary M+ Foundatic SM1010	Chiller Mains         Intake Chiller Mains - Install Grout Curtain along Sheet Piles         Inspections & Occupation Permit (OP         um - Statutory Inspection & Approval         um - WSD (FS Pipeworks) Inspection & Approval         FS - Submit Form WW046 (Part 1 & 2) and Approval by WSD (\$         um - WSD (Plumbing) Inspection & Approval         Plumbing - Submit Form WW046 (Part 1 & 2) to WSD (Subject         y Programme         on & Basement         Excavation & ELS Works	<b>)</b> 90 90 310	10-Sep-16 10-Sep-16 02-Nov-15	08-Dec-16 08-Dec-16 18-Nov-16	10-Sep-16* 10-Sep-16* 02-Nov-15 A	08-Dec-16 08-Dec-16 21-Jan-17	0%	0 0 -52	229 229 38						
Intaking O B10.1100 Statutory M+ Museu SH4200 M+ Museu SH4260 Summary M+ Foundatio SM1010 SM1020	Chiller Mains         Intake Chiller Mains - Install Grout Curtain along Sheet Piles         Inspections & Occupation Permit (OP         um - Statutory Inspection & Approval         um - WSD (FS Pipeworks) Inspection & Approval         FS - Submit Form WW046 (Part 1 & 2) and Approval by WSD (\$         um - WSD (Plumbing) Inspection & Approval         Plumbing - Submit Form WW046 (Part 1 & 2) to WSD (Subject         V Programme         Dn & Basement         Excavation & ELS Works         Pilecaps & U/G Drainage Construction	) 90 90 310 110	10-Sep-16 10-Sep-16 02-Nov-15 04-Jan-16	08-Dec-16 08-Dec-16 18-Nov-16 20-May-16	10-Sep-16* 10-Sep-16* 02-Nov-15 A 04-Jan-16 A	08-Dec-16 08-Dec-16 21-Jan-17 13-Sep-16	0% 0% 0% 66% 86%	0 0 -52 -96	229 229 38 60						Pileca
Intaking C B10.1100 Statutory M+ Museu SH4200 M+ Museu SH4260 Summary M+ Foundatio SM1010 SM1020 SM1030	Chiller Mains         Intake Chiller Mains - Install Grout Curtain along Sheet Piles         Inspections & Occupation Permit (OP         um - Statutory Inspection & Approval         um - WSD (FS Pipeworks) Inspection & Approval         FS - Submit Form WW046 (Part 1 & 2) and Approval by WSD (\$         um - WSD (Plumbing) Inspection & Approval         Plumbing - Submit Form WW046 (Part 1 & 2) to WSD (Subject         y Programme         Dn & Basement         Excavation & ELS Works         Pilecaps & U/G Drainage Construction         B2/F to B1/F Structure	) 90 90 310 110 321	10-Sep-16 10-Sep-16 02-Nov-15 04-Jan-16 25-Jan-16	08-Dec-16 08-Dec-16 08-Dec-16 18-Nov-16 20-May-16 25-Feb-17	10-Sep-16* 10-Sep-16* 02-Nov-15 A 04-Jan-16 A	08-Dec-16 08-Dec-16 08-Dec-16 21-Jan-17 13-Sep-16 18-Mar-17	0% 0% 0% 66% 86% 48%	0 0 -52 -96 -18	229 229 229 38 60 -7						Pileca
Intaking C B10.1100 Statutory M+ Museu SH4200 M+ Museu SH4260 Summary M+ Foundatic SM1010 SM1020 SM1020 SM1030 SM1040	Chiller Mains         Intake Chiller Mains - Install Grout Curtain along Sheet Piles         Inspections & Occupation Permit (OP         um - Statutory Inspection & Approval         um - WSD (FS Pipeworks) Inspection & Approval         FS - Submit Form WW046 (Part 1 & 2) and Approval by WSD (\$         um - WSD (Plumbing) Inspection & Approval         Plumbing - Submit Form WW046 (Part 1 & 2) to WSD (Subject         Programme         Dn & Basement         Excavation & ELS Works         Pilecaps & U/G Drainage Construction         B2/F to B1/F Structure         B1/F to LG/F Structure	) 90 90 310 110	10-Sep-16 10-Sep-16 02-Nov-15 04-Jan-16 25-Jan-16 15-Mar-16	08-Dec-16 08-Dec-16 18-Nov-16 20-May-16 25-Feb-17 08-Jul-16	10-Sep-16* 10-Sep-16* 02-Nov-15 A 04-Jan-16 A 25-Jan-16 A 15-Mar-16 A	08-Dec-16 08-Dec-16 21-Jan-17 13-Sep-16 18-Mar-17 28-Dec-16	0% 0% 66% 86% 48% 7%	0 0 -52 -96 -18 -142	229 229 38 60 -7						Pileca
Intaking C B10.1100 Statutory M+ Museu SH4200 M+ Museu SH4260 Summary M+ Foundatio SM1010 SM1020 SM1030	Chiller Mains         Intake Chiller Mains - Install Grout Curtain along Sheet Piles         Inspections & Occupation Permit (OP         um - Statutory Inspection & Approval         um - WSD (FS Pipeworks) Inspection & Approval         FS - Submit Form WW046 (Part 1 & 2) and Approval by WSD (\$         um - WSD (Plumbing) Inspection & Approval         Plumbing - Submit Form WW046 (Part 1 & 2) to WSD (Subject         y Programme         Dn & Basement         Excavation & ELS Works         Pilecaps & U/G Drainage Construction         B2/F to B1/F Structure	) 90 90 310 110 321	10-Sep-16 10-Sep-16 02-Nov-15 04-Jan-16 25-Jan-16 15-Mar-16	08-Dec-16 08-Dec-16 18-Nov-16 20-May-16 25-Feb-17 08-Jul-16	10-Sep-16* 10-Sep-16* 02-Nov-15 A 04-Jan-16 A	08-Dec-16 08-Dec-16 08-Dec-16 21-Jan-17 13-Sep-16 18-Mar-17	0% 0% 0% 66% 86% 48%	0 0 -52 -96 -18	229 229 229 38 60 -7						Pileca
Intaking O B10.1100 Statutory M+ Museu SH4200 M+ Museu SH4260 Summary M+ Foundatio SM1010 SM1020 SM1020 SM1030 SM1040 SM1110 Podium	Chiller Mains         Intake Chiller Mains - Install Grout Curtain along Sheet Piles         Inspections & Occupation Permit (OP         um - Statutory Inspection & Approval         um - WSD (FS Pipeworks) Inspection & Approval         FS - Submit Form WW046 (Part 1 & 2) and Approval by WSD (\$         um - WSD (Plumbing) Inspection & Approval         Plumbing - Submit Form WW046 (Part 1 & 2) to WSD (Subject         Programme         Dn & Basement         Excavation & ELS Works         Pilecaps & U/G Drainage Construction         B2/F to B1/F Structure         B1/F to LG/F Structure	) 90 90 310 110 321 92 364	10-Sep-16 10-Sep-16 02-Nov-15 04-Jan-16 25-Jan-16 15-Mar-16 20-Sep-16	08-Dec-16 08-Dec-16 08-Dec-16 18-Nov-16 20-May-16 25-Feb-17 08-Jul-16 09-Dec-17	10-Sep-16* 10-Sep-16* 02-Nov-15 A 04-Jan-16 A 25-Jan-16 A 15-Mar-16 A 20-Sep-16	08-Dec-16 08-Dec-16 21-Jan-17 13-Sep-16 18-Mar-17 28-Dec-16 09-Dec-17	0% 0% 66% 86% 48% 7%	0 0 -52 -96 -18 -142	229 229 38 60 -7						    Pileca
Intaking C B10.1100 Statutory M+ Museu SH4200 M+ Museu SH4260 Summary SH4260 Summary SH1010 SM1010 SM1020 SM1030 SM1040 SM1040 SM1110 Podium SM1050	Chiller Mains         Intake Chiller Mains - Install Grout Curtain along Sheet Piles         / Inspections & Occupation Permit (OP         um - Statutory Inspection & Approval         um - Statutory Inspection & Approval         um - WSD (FS Pipeworks) Inspection & Approval         FS - Submit Form WW046 (Part 1 & 2) and Approval by WSD (S         um - WSD (Plumbing) Inspection & Approval         Plumbing - Submit Form WW046 (Part 1 & 2) to WSD (Subject         y Programme         Dn & Basement         Excavation & ELS Works         Pilecaps & U/G Drainage Construction         B2/F to B1/F Structure         B1/F to LG/F Structure         Basement ABWF Works         Trusses Construction	) 90 90 310 110 321 92 364 131	10-Sep-16 10-Sep-16 02-Nov-15 04-Jan-16 25-Jan-16 15-Mar-16 20-Sep-16	08-Dec-16 08-Dec-16 08-Dec-17 08-Dec-17 18-Nov-16 20-May-16 08-Jul-16 09-Dec-17	10-Sep-16* 10-Sep-16* 02-Nov-15 A 04-Jan-16 A 25-Jan-16 A 15-Mar-16 A 20-Sep-16	08-Dec-16 08-Dec-16 21-Jan-17 13-Sep-16 18-Mar-17 28-Dec-16	0% 0% 66% 86% 48% 7%	0 0 -52 -96 -18 -142	229 229 38 60 -7						 → Pileca
Intaking O B10.1100 Statutory M+ Museu SH4200 M+ Museu SH4260 Summary M+ Foundatio SM1010 SM1020 SM1020 SM1030 SM1040 SM1110 Podium	Chiller Mains         Intake Chiller Mains - Install Grout Curtain along Sheet Piles         Inspections & Occupation Permit (OP         um - Statutory Inspection & Approval         um - Statutory Inspection & Approval         um - WSD (FS Pipeworks) Inspection & Approval         FS - Submit Form WW046 (Part 1 & 2) and Approval by WSD (S         um - WSD (Plumbing) Inspection & Approval         Plumbing - Submit Form WW046 (Part 1 & 2) to WSD (Subject         Pumbing - Submit Form WW046 (Part 1 & 2) to WSD (Subject         Programme         Discussion & ELS Works         Pilecaps & U/G Drainage Construction         B2/F to B1/F Structure         B1/F to LG/F Structure         Basement ABWF Works	) 90 90 310 110 321 92 364 131	10-Sep-16 10-Sep-16 02-Nov-15 04-Jan-16 25-Jan-16 15-Mar-16 20-Sep-16	08-Dec-16 08-Dec-16 08-Dec-17 08-Dec-17 18-Nov-16 20-May-16 08-Jul-16 09-Dec-17	10-Sep-16* 10-Sep-16* 02-Nov-15 A 04-Jan-16 A 25-Jan-16 A 15-Mar-16 A 20-Sep-16	08-Dec-16 08-Dec-16 21-Jan-17 13-Sep-16 18-Mar-17 28-Dec-16 09-Dec-17	0% 0% 66% 86% 48% 7% 0%	0 0 -52 -96 -18 -142 0	229 229 38 60 -7 7 39						Pileca
Intaking C B10.1100 Statutory M+ Museu SH4200 M+ Museu SH4260 Summary SH4260 Summary SH1010 SM1010 SM1020 SM1030 SM1040 SM1040 SM1110 Podium SM1050	Chiller Mains         Intake Chiller Mains - Install Grout Curtain along Sheet Piles         / Inspections & Occupation Permit (OP         um - Statutory Inspection & Approval         um - Statutory Inspection & Approval         um - WSD (FS Pipeworks) Inspection & Approval         FS - Submit Form WW046 (Part 1 & 2) and Approval by WSD (S         um - WSD (Plumbing) Inspection & Approval         Plumbing - Submit Form WW046 (Part 1 & 2) to WSD (Subject         y Programme         Dn & Basement         Excavation & ELS Works         Pilecaps & U/G Drainage Construction         B2/F to B1/F Structure         B1/F to LG/F Structure         Basement ABWF Works         Trusses Construction	) 90 90 310 110 321 92 364 131	10-Sep-16 10-Sep-16 02-Nov-15 04-Jan-16 25-Jan-16 15-Mar-16 20-Sep-16	08-Dec-16 08-Dec-16 08-Dec-17 08-Dec-17 18-Nov-16 20-May-16 08-Jul-16 09-Dec-17	10-Sep-16* 10-Sep-16* 02-Nov-15 A 04-Jan-16 A 25-Jan-16 A 15-Mar-16 A 20-Sep-16	08-Dec-16 08-Dec-16 08-Dec-16 13-Sep-16 13-Sep-16 18-Mar-17 28-Dec-16 09-Dec-17	0% 0% 666% 86% 48% 7% 0%	0 0 -52 -96 -18 -142 0	229 229 38 60 -7 7 39						Pileca
Intaking C B10.1100 Statutory M+ Museu SH4200 M+ Museu SH4260 Summary M+ Foundatic SM1010 SM1020 SM1030 SM1040 SM1040 SM1110 Podium SM1050 SM1050 SM1060	Chiller Mains         Intake Chiller Mains - Install Grout Curtain along Sheet Piles         / Inspections & Occupation Permit (OP         um - Statutory Inspection & Approval         um - Statutory Inspection & Approval         um - WSD (FS Pipeworks) Inspection & Approval         FS - Submit Form WW046 (Part 1 & 2) and Approval by WSD (S         um - WSD (Plumbing) Inspection & Approval         Plumbing - Submit Form WW046 (Part 1 & 2) to WSD (Subject         y Programme         Dn & Basement         Excavation & ELS Works         Pilecaps & U/G Drainage Construction         B2/F to B1/F Structure         B1/F to LG/F Structure         Basement ABWF Works         Trusses Construction	) 90 90 310 110 321 92 364 131 332	10-Sep-16 10-Sep-16 02-Nov-15 04-Jan-16 25-Jan-16 15-Mar-16 20-Sep-16 11-Oct-16 11-Oct-16	08-Dec-16 08-Dec-16 08-Dec-16 08-Dec-17 0 18-Nov-16 09-Dec-17 09-Dec-17 18-Mar-17 18-Mar-17	10-Sep-16* 10-Sep-16* 02-Nov-15 A 04-Jan-16 A 25-Jan-16 A 15-Mar-16 A 20-Sep-16	08-Dec-16 08-Dec-16 08-Dec-16 13-Sep-16 13-Sep-16 18-Mar-17 28-Dec-16 09-Dec-17	0% 0% 666% 86% 48% 7% 0%	0 0 -52 -96 -18 -142 0	229 229 38 60 -7 7 39						Pileca
Intaking O B10.1100 Statutory M+ Museu SH4200 M+ Museu SH4260 Summary M+ Foundatio SM1010 SM1020 SM1020 SM1030 SM1040 SM1040 SM1110 Podium SM1050 SM1060 SPS	Chiller Mains         Intake Chiller Mains - Install Grout Curtain along Sheet Piles         Inspections & Occupation Permit (OP         um - Statutory Inspection & Approval         um - Statutory Inspection & Approval         FS - Submit Form WW046 (Part 1 & 2) and Approval by WSD (!         um - WSD (Plumbing) Inspection & Approval         FS - Submit Form WW046 (Part 1 & 2) to WSD (Subject         Plumbing - Submit Form WW046 (Part 1 & 2) to WSD (Subject         y Programme         on & Basement         Excavation & ELS Works         Pilecaps & U/G Drainage Construction         B2/F to B1/F Structure         B1/F to LG/F Structure         Basement ABWF Works         Trusses Construction         G/F Slab & RC Structure to 3/F         SPS RC Structure	) 90 90 310 110 321 92 364 131 332	10-Sep-16 10-Sep-16 02-Nov-15 04-Jan-16 25-Jan-16 15-Mar-16 20-Sep-16 11-Oct-16 11-Oct-16	08-Dec-16 08-Dec-16 08-Dec-16 08-Dec-17 0 18-Nov-16 09-Dec-17 09-Dec-17 18-Mar-17 18-Mar-17	10-Sep-16* 10-Sep-16* 02-Nov-15 A 04-Jan-16 A 25-Jan-16 A 25-Jan-16 A 15-Mar-16 A 10-Sep-16	08-Dec-16 08-Dec-16 08-Dec-16 21-Jan-17 13-Sep-16 18-Mar-17 28-Dec-16 09-Dec-17 18-Mar-17 18-Mar-17	0% 0% 66% 86% 48% 7% 0% 0%	0 0 -52 -96 -18 -142 0 0	229 229 38 60 -7 7 39 39 6 39						Pileca

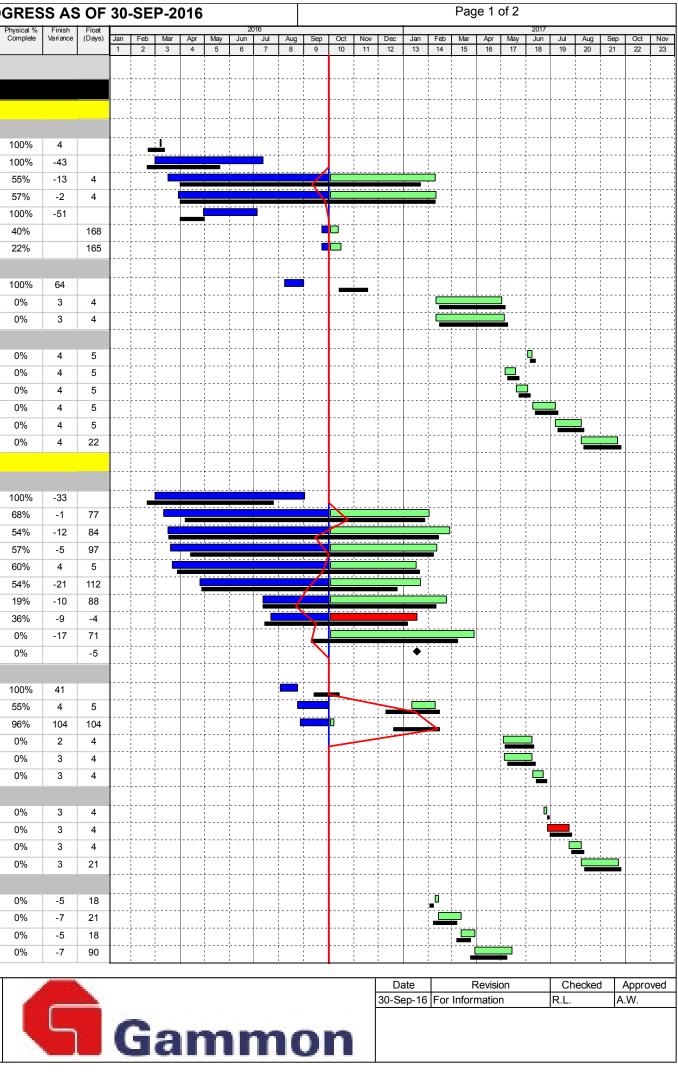
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Lyric Theatre Complex

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ity iD	Acavity Name	(Days)	Start	A Finish	Current/Actual Start	Finish	Physical % Complete	Variance	(Days)	Jan F	eb Mar 2 3	Apr 4	May 5		l Aug	Sep 9	Oct 10	No 1
F2 Fou	ndation Works for Lyric Theatre	Complex		•	,				<b>I</b>				-		-			
Summa	ry for Major Works																	
Pre-bor	ed H-Pile																	1
Pre-bo	ed H-Pile Construction													÷				• -
LT.0087	Trial Pile and Obtain BD's Acknowledgement	18	22-Feb-16	12-Mar-16	08-Mar-16 A	09-Mar-16 A	100%	4										• - •
LT.0088	Predrilling, Excluding Portions L02 and L03; 56 nos.	71	20-Feb-16	20-May-16	01-Mar-16 A	13-Jul-16 A	100%	-43										
LT.0089	Pre-bored H-Pile Construction; Rig 1, 122 nos	243	01-Apr-16	21-Jan-17	17-Mar-16 A	09-Feb-17	55%	-13	4									
LT.2225	Pre-bored H-Pile Construction; Rig 2, 103 nos	255	01-Apr-16	08-Feb-17	30-Mar-16 A	10-Feb-17	57%	-2	4									
LT.2226	Pre-bored H-Pile Construction; Rig 3, 25 nos	25	01-Apr-16	30-Apr-16	30-Apr-16 A	05-Jul-16 A	100%	-51				_	_					
LT.3315	Pre-bored H-Pile Construction; Rig 3, 5 nos	10			23-Sep-16 A	12-Oct-16	40%		168			1						
LT.3340	Pre-bored H-Pile Construction; Rig 4, 6 nos	10			23-Sep-16 A	15-Oct-16	22%		165									
Contra	ct Administrator's Instruction No. 8											1						
LT.3010	Predrilling in Portions L02 and L03; 14 nos.	30	14-Oct-16	17-Nov-16	08-Aug-16 A	01-Sep-16 A	100%	64										
LT.3015	Pre-bored H-Pile Construction; Rig 1, 31 nos	65	14-Feb-17	06-May-17	10-Feb-17	02-May-17	0%	3	4			1						
LT.3020	Pre-bored H-Pile Construction; Rig 2, 32 nos	67	14-Feb-17	09-May-17	10-Feb-17	05-May-17	0%	3	4									
BA14 a	nd Testing											1						
LT.0094	Submission of BA14	6	06-Jun-17	12-Jun-17	03-Jun-17	08-Jun-17	0%	4	5									
LT.0095	CA's Selection of Proof Drilling Locations	14	09-May-17	23-May-17	06-May-17	19-May-17	0%	4	5									-
LT.0096	Proof Drilling	14	23-May-17	06-Jun-17	20-May-17	02-Jun-17	0%	4	5									
LT.0097	BD's Selection of Test Piles	28	12-Jun-17	10-Jul-17	09-Jun-17	06-Jul-17	0%	4	5			1						
LT.0098	Load Testing and Submit Reports	32	10-Jul-17	11-Aug-17	06-Jul-17	07-Aug-17	0%	4	5									
LT.0099	BD's Acknowledgement	45	11-Aug-17	25-Sep-17	08-Aug-17	21-Sep-17	0%	4	22		]	]						
Bored P	ile																	
Bored I	Pile Construction																	
LT.0102	Predrilling, Excluding Portions L02 and L03; 145 nos.	125	20-Feb-16	25-Jul-16	02-Mar-16 A	02-Sep-16 A	100%	-33			_							
LT.0103	Bored Pile Construction; RCD Rig 1, 26 nos.	244	07-Apr-16	27-Jan-17	12-Mar-16 A	01-Feb-17	68%	-1	77									
LT.1895	Bored Pile Construction; RCD Rig 2, 27 nos.	268	18-Mar-16	13-Feb-17	17-Mar-16 A	27-Feb-17	54%	-12	84							—	<b>_</b>	
LT.1905	Bored Pile Construction; RCD Rig 3, 26 nos.	243	14-Apr-16	06-Feb-17	21-Mar-16 A	11-Feb-17	57%	-5	97									
LT.1915	Bored Pile Construction; RCD Rig 4, 19 nos.	245	29-Mar-16	20-Jan-17	23-Mar-16 A	16-Jan-17	60%	4	5									
LT.1925	Bored Pile Construction; RCD Rig 5, 22 nos.	200	28-Apr-16	24-Dec-16	26-Apr-16 A	21-Jan-17	54%	-21	112			·   !						
LT.1935	Bored Pile Construction; RCD Rig 6, 12 nos.	175	12-Jul-16	10-Feb-17	13-Jul-16 A	22-Feb-17	19%	-10	88									
LT.1945	Bored Pile Construction; RCD Rig 7, 13 nos.	146	14-Jul-16	06-Jan-17	22-Jul-16 A	17-Jan-17	36%	-9	-4							<u></u>		
LT.2215	Sonic Logging and Interface Coring Test; Excluding Portio	ons L02 and L03 145	10-Sep-16	08-Mar-17	03-Oct-16	28-Mar-17	0%	-17	71									
LT.3260	Completion of Bored Pile Construction in Area 6	0				17-Jan-17	0%		-5								<b>.</b>	
Contra	ct Administrator's Instruction No.8																	
LT.2891	Predrilling in Portions L02 and L03; 11 nos.	24	13-Sep-16	13-Oct-16	03-Aug-16 A	24-Aug-16 A	100%	41										-
LT.2895	Bored Pile Construction; RCD Rig 4, 4 nos.	51	10-Dec-16	14-Feb-17	24-Aug-16 A	09-Feb-17	55%	4	5									
LT.2905	Bored Pile Construction; RCD Rig 1, 3 nos.	43	20-Dec-16	14-Feb-17	27-Aug-16 A	07-Oct-16	96%	104	104						+		•••••	
LT.2915	Bored Pile Construction; RCD Rig 4, 2 nos.	30	06-May-17	10-Jun-17	04-May-17	08-Jun-17	0%	2	4						+			
LT.2925	Bored Pile Construction; RCD Rig 1, 2 nos.	29	09-May-17	12-Jun-17	05-May-17	08-Jun-17	0%	3	4						+			
	Sonic Logging and Interface Coring Test; Portions L02 and	dL03 12	13-Jun-17	26-Jun-17	09-Jun-17	22-Jun-17	0%	3	4									
	nd Testing																	
LT.0108	Submission of BA14	3	27-Jun-17	29-Jun-17	23-Jun-17	26-Jun-17	0%	3	4									
LT.0109	BD's Selection of Test Piles	28	30-Jun-17	27-Jul-17	27-Jun-17	24-Jul-17	0%	3	4									
LT.0110	Concrete Coring Test and Submit Reports	13	27-Jul-17	11-Aug-17	24-Jul-17	08-Aug-17	0%	3	4									
LT.0111	BD's Acknowledgement	45	12-Aug-17	25-Sep-17	08-Aug-17	22-Sep-17	0%	3	21		····.							
	nd Testing at Area 6 if Option is Exercised																	
LT.0113	Submission of BA14	3	03-Feb-17	07-Feb-17	09-Feb-17	13-Feb-17	0%	-5	18									
LT.0114	BD's Selection of Test Piles	28	07-Feb-17	07-Mar-17	13-Feb-17	13-Mar-17	0%	-7	21									
LT.0115	Concrete Coring Test and Submit Reports BD's Acknowledgement	15	07-Mar-17	24-Mar-17	13-Mar-17	30-Mar-17	0%	-5 -7	18 90								<b>.</b>	
LT.3110		45	24-Mar-17	08-May-17	30-Mar-17	14-May-17	0%										1	

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	Critical Remaining Work
	Remaining Work
	Actual Work
	<ul> <li>Secondary Baseline</li> </ul>

WEST KOWLOON CULTURAL DISTRICT AUTHORITY FOUNDATION WORKS FOR LYRIC THEATRE COMPLEX AND THE EXTENDED BASEMENT IN ZONE 3B SUMAMRY PROGRAMME BASED ON CONSTRUCTION WORKS PROGRAMME - REV. "A"



CUNTRACT	NO: CC/2015/3A/014		SU	MMARY	PROGRA		JGRES	55 AS	S OF	30-8	5EP	-20	16					
Activity ID	Activity Name	Durn. (Days)	Programme Rev A Start	Programme Rev A Finish	Current / Actual Start	Current / Actual Finish	Physical % Complete	Finish Variance	Float (Days)	Jan F	eb M	vlar	Apr I	vlav II	2016 un Jul I		iep Oct I	Nov
_		(50)0)	Cuart	711 1101			Compilate		(Bujo)						6 7	8 9		11
Excava	tion and Lateral Support																	
Pipe P	ile in Areas 1 to 5																	
LT.0120	Pre-grouting Works at Seawall Area; Portions M15, M16, L01 and L16	40	05-Mar-16	26-Apr-16	05-Mar-16 A	08-Apr-16 A	100%	16					_					
LT.0121	Pre-grouting Works at Portions L05, L07, M14b and M12	101	23-Apr-16	23-Aug-16	18-Apr-16 A	26-Jul-16 A	100%	25					-					
LT.0122	Pipe Pile and Grout Curtain; Portions L04, L05, L14, L24, M14 and M14b (PP 443 nos and CPP 3 nos	215	21-May-16	08-Feb-17	12-Mar-16 A	17-Jan-17	66%	16	135		1							
LT.3030	Clutched Pipe Pile and Grout Curtain; Portions M14a, L16 and L01 (CPP 82 nos.)	89	25-Jun-16	12-Oct-16	07-Jul-16 A	08-Oct-16	98%	1	92									
Sheet	Pile in Area 6																	
LT.0124	Sheet Piles Installation in Portion L06; 1,472m2	32	21-Jun-16	28-Jul-16	07-Jun-16 A	25-Jul-16 A	100%	4										
LT.2945	Sheet Piles Installation in Portions L07 and M12; 1,640m2	35	29-Jul-16	07-Sep-16	04-Jul-16 A	27-Sep-16 A	100%	-16										
LT.2950	Instrument Installation for Instrumental Sheet Pile	15	28-May-16	15-Jun-16	21-May-16 A	31-May-16 A	100%	13										
LT.2955	Drive Instrumental Sheet Pile and Report Submission	10	08-Jun-16	20-Jun-16	01-Jun-16 A	16-Jun-16 A	100%	4							<b>_</b>			
Contra	et Administrator's Instruction No.8																	
LT.3050	Pre-grouting Works adjacent Seawall Portion L03	21	17-Sep-16	13-Oct-16	16-Aug-16 A	12-Oct-16	72%	1	90									
LT.3060	Pipe Pile and Grout Curtain; Portion L02 (PP 21nos.)	20	13-Sep-16	07-Oct-16	21-Oct-16	12-Nov-16	0%	-30	188								Ζi	
LT.3070	Clutched Pipe Pile and Grout Curtain; Portion L03 (CPP 104 nos. and PP 4 nos)	125	14-Oct-16	15-Mar-17	13-Oct-16	14-Mar-17	0%	1	90									
BA14							1									·		
LT.0126	Submission of BA14 for Stage 1 ELS Sheet Piling Works at Area 6	2	08-Sep-16	09-Sep-16	03-Oct-16	04-Oct-16	0%	-19	6							/	/	
LT.0127	BD's Acknowledgement	14	09-Sep-16	23-Sep-16	04-Oct-16	18-Oct-16	0%	-25	86							: t		
LT.0128	Submission of BA14 for Stage 1 ELS Piling Works at Area 1 to 5	2	16-Mar-17	17-Mar-17	15-Mar-17	16-Mar-17	0%	1	90								<b>N</b>	
LT.0129	BD's Acknowledgement	14	17-Mar-17	31-Mar-17	16-Mar-17	30-Mar-17	0%	1	115									
Pumpi	ng Test																	
LT.0131		22	13-Jun-17	08-Jul-17	09-Jun-17	05-Jul-17	0%	3	15									
LT.0132	Carry Out Pumping Test in Area 1 to Area 5 and Submission to BD	20	09-Jul-17	28-Jul-17	06-Jul-17	25-Jul-17	0%	3	18							+		
LT.0133	Obtain BD's Acknowledgement of Area 1 to 5 Pumping Test Results	45	29-Jul-17	11-Sep-17	26-Jul-17	08-Sep-17	0%	3	35									
LT.0134	Install Area 6 Pumping Test Instrumentation & Wells (3 PW + 6 OW) and Submission of Initial Reading	21	07-Dec-16	04-Jan-17	17-Dec-16	14-Jan-17	0%	-9	-2									
LT.0135	Carry Out Pumping Test in Area 6 and submission to BD	16	11-Jan-17	26-Jan-17	17-Jan-17	02-Feb-17	0%	-8	-5									
LT.0136	Obtain BD's Acknowledgement of Area 6 Pumping Test Results	45	26-Jan-17	12-Mar-17	02-Feb-17	19-Mar-17	0%	-8	-5									
Option	Stage 2 ELS and Excavation Works at Area 6						1											
LT.0138	-	102	25-Apr-17	26-Aug-17	02-May-17	31-Aug-17	0%	-5	-4									
LT.0139	Trim Pile Head and Clearance	27	26-Aug-17	27-Sep-17	01-Sep-17	03-Oct-17	0%	-5	8							+		
LT.3075	Submission of BA8 and BA10 for Bulk Excavation Works	35	14-Mar-17	18-Apr-17	21-Mar-17	25-Apr-17	0%	-8	-5									
LT.3080	Installation of Temporary Platform	22	18-Apr-17	16-May-17	26-Apr-17	23-May-17	0%	-7	-4									
BA14 f	or Option Stage 2 ELS and Excavation Works at Area 6					-												
LT.0141	Submission of BA14 for Stage 2 ELS and Excavation Works at Area 6	2	26-Aug-17	29-Aug-17	01-Sep-17	02-Sep-17	0%	-5	-4									
LT.0142		45	28-Aug-17	12-Oct-17	03-Sep-17	17-Oct-17	0%	-6	-4							+		

	Secondary Baseline
	Actual Work
	Remaining Work
	Critical Remaining Work
٠	Milestone

WEST KOWLOON CULTURAL DISTRICT AUTHORITY FOUNDATION WORKS FOR LYRIC THEATRE COMPLEX AND THE EXTENDED BASEMENT IN ZONE 3B SUMAMRY PROGRAMME BASED ON CONSTRUCTION WORKS PROGRAMME - REV. "A"



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# 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 (µg/m3)	Limit Level (µg/m3)
AM1	273.7	500
AM2A	274.2	500

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

Monitoring Station	Action Level (µg/m3)	Limit Level (µg/m3)
AM1	143.6	260
AM2A	151.1	260

### <u>Noise</u>

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
NM1		
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:

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

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

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

#### **Construction Noise**

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

	Action			
Event	ET Leader	IEC	WKCDA	Contractor
Action Level	<ol> <li>Notify WKCDA, IEC and Contractor;</li> <li>Carry out investigation;</li> <li>Report the results of investigation to the IEC, WKCDA and Contractor;</li> <li>Discuss with the IEC and Contractor on remedial measures required;</li> <li>Increase monitoring frequency to check mitigation effectiveness.</li> </ol>	<ol> <li>Review the investigation results submitted by the ET;</li> <li>Review the proposed remedial measures by the Contractor and advise the WKCDA accordingly;</li> <li>Advise the WKCDA on the effectiveness of the proposed remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol> <li>Submit noise mitigation proposals to IEC and WKCDA;</li> <li>Implement noise mitigation proposals.</li> </ol>
Limit Level	<ol> <li>Inform IEC, WKCDA, Contractor and EPD;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency;</li> <li>Identify source and investigate the cause of exceedance;</li> <li>Carry out analysis of Contractor's working procedures;</li> <li>Discuss with the IEC, Contractor and WKCDA on remedial measures required;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and WKCDA informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Discuss amongst WKCDA, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the WKCDA accordingly.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Supervise the implementation of remedial measures;</li> <li>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> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC and WKCDA within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Submit further proposal if problem still not under control;</li> <li>Stop the relevant portion of works as instructed by the WKCDA until the exceedance is abated.</li> </ol>

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

#### 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:

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

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

## E. Monitoring Schedule

## SEPTEMBER 2016

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	3
4	5	<b>6</b> AM1, AM2A* - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	7	8	9	10
11	<b>12</b> AM1, AM2A - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	13	14	15	16	<b>17</b> AM1, AM2A - 24hrTSP, 1hr TSP x3
18	19	20	21	22	<b>23</b> AM1, AM2A - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	24
25	26	27	28	<b>29</b> AM1, AM2A - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	30	
		Notes: AM1 - International Commerc AM2A - Austin Road West (O NM1A - International Comme *24hr TSP impact monitoring	pposite to The Harbourside) rce Centre (ICC)	nber 2016 was suspended due t	o electricity issue.	

# OCTOBER 2016

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3	4	<b>5</b> AM1, AM2A - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	6	7	8
9	10	<b>11</b> AM1, AM2A - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	12	13	14	15
16	<b>17</b> AM1, AM2A - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	18	19		<b>21</b> AM1, AM2A - 24hrTSP, 1hr TSP x3	22
23	24	25	26	<b>27</b> AM1, AM2A - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	28	29
30		Notes: AM1 - International Commerce Centre (ICC) AM2A - Austin Road West (Opposite to The Harbourside) NM1A - International Commerce Centre (ICC)				

## F. Calibration Certifications

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		olume TSP Sampler Calibration Record
Location	:	AM1(ICC)
Calibrated by	:	K.T.Ho
Date	:	16/08/2016
Sampler		
Model	:	TE-5170
Serial Number	:	S/N 0767
Calibration Orfice and Standard C	alibration	
Serial Number	:	2454
Service Date	:	14 Mar 2015
Slope (m)	:	2.09532
Intercept (b)	:	-0.03812
Correlation Coefficient(r)	:	0.99994
Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)	:	1008
Ta(K)	:	303

Resi	stance Plate	dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	10.2	3.160	1.534	60	59.36
2	13 holes	8.4	2.867	1.395	53	52.43
3	10 holes	6.2	2.463	1.203	44	43.54
4	7 holes	4.4	2.075	1.018	36	35.61
5	5 holes	2.6	1.595	0.790	26	25.72

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

Sampler Calibration Relationship

Slope(m):<u>45.015</u> Intercept(b):<u>-10.155</u> Correlation Coefficient(r):<u>0.9996</u>

Checked by: Magnum Fan

Date: 23/08/2016

#### High-Volume TSP Sampler 5-Point Calibration Record

Location	:	AM2A (Harbourside)
Calibrated by	:	K.T.Ho
Date	:	16/08/2016
<u>Sampler</u> Model Serial Number	:	TE-5170 S/N 8919

Calibration Orfice and Standar	rd Calibratio	n Relationship
Serial Number	:	2454
Service Date	:	14 Mar 2016
Slope (m)	:	2.10326
Intercept (b)	:	-0.06696
Correlation Coefficient(r)	:	0.99989
Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
~ ~ . ~		
Calibration Condition		
Pa (hpa)	:	1008
Ta(K)	:	303

Resi	stance Plate	dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.2	3.455	1.675	60	59.36
2	13 holes	9.2	3.001	1.458	52	51.44
3	10 holes	7.2	2.654	1.294	44	43.53
4	7 holes	4.6	2.122	1.041	34	33.64
5	5 holes	2.6	1.595	0.790	24	23.74

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

#### Sampler Calibration Relationship

Slope(m):<u>40.647</u>

Intercept(b):-8.533

5

Correlation Coefficient(r): 0.9994

Checked by: Magnum Fan

Date: 23/08/2016



#### SIBATA SCIENTIFIC TECHNOLOGY LTD.

1-1-62, Nakane, Soka, Saitama, 340-0005 Japan TEL: 048-933-1582 FAX: 048-933-1591

#### **CALIBRATION CERTIFICATE**

Date: October 7, 2015

Equipment Name	:	Digital Dust Indicator, Model LD-3B
Code No.	3	080000-42
Quantity	:	1 unit
Serial No.	:	245834
Sensitivity	2	0.001 mg/m3
Sensitivity Adjustment		710CPM
Scale Setting		October 2, 2015

We hereby certify that the avobe mentioned instrment has been calibrated satisfactory.

· Sincerely

#### SIBATA SCIENTIFIC TECHNOLOGY LTD.

Shintaro Ckamura

Shintaro Okamura Overseas Sales Division

				-			
<u>CUSTUMER :</u>	CUSTOMER : INNUTECH INSTRUMENTATION CULLU.	<u></u>	$\bigotimes$	IBATA SCIE	SIBATA SCIENTIFIC TECHNOLOGY LTD. DATE 05/October /2015	NOLOCY LT 2015	Ū.
			۱	APPROVE DY	VERIFIED BY	ISSUED BY	
PRODUCT NAME Modri Nimber	: Digital Dust Indicator					-	
SERIAL NUMBER	. 245834						
CALIBRATION DATE	YE : 02-October2015						
Testing Category	Judging Standard		Judgment				
	Switch, Display, Wiring will nomally function		OK				
Sensitivity	Count is $\pm 2\%$ accurate to the master by the	Reading of	Reading of this	Correction	Inspection chart	n chart	
Calibration	standard calibration particle	Master	Instrument		Dafaman Value(C)	$V_{\alpha} I_{\alpha \alpha}(\mathbf{c})$	
		797 CPM	792 CPM	0.6 %	Nelerence	(C)anne	
Dust Concentration	Count is $\pm 10\%$ accurate to the master under	2068 CPM	2040 CPM	-1.4 %		The second se	
Measuring	the 3 different concentration.	1038 CPM	1042 CPM	+0.4 %		UL INI	
		532 CPM	538 CPM	+1.1 %	Test atmosphere	osphere	
Stability	The maximum value of the sensitivity adjustment				Tempcrature	Humidity	
	scale setting value of the machine and the difference with minimum value are within 5%				23 °C	00 0%	
	compared with the maximum value. (The measurement is repeated three times		OK				
	for one minute.)						

Good

Synthetic Judgment

# TEST CERTIFICATE

Report No. 15-1461



TISCH ENVIRONMENTAL, INC. 145 SOUTH MIAMI AVE VILLAGE OF CLEVES, OH 45002 513.467.9000 877.263.7610 TOLL FREE 513.467.9009 FAX

### ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Operator	Tisch	6 Rootsmeter Orifice I.I	S/N ( D	0438320 2454	Ta (K) - Pa (mm) -	295 745.49
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA	NA NA NA NA NA	1.00 1.00 1.00 1.00 1.00	1.4020 1.0060 0.9010 0.8590 0.7090	3.2 6.4 7.9 8.8 12.8	2.00 4.00 5.00 5.50 8.00

#### DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
0.9866 0.9824 0.9803 0.9792 0.9738	0.7037 0.9765 1.0880 1.1399 1.3735	1.4078 1.9909 2.2259 2.3345 2.8155	0.9957 0.9914 0.9893 0.9882 0.9828	0.7102 0.9855 1.0980 1.1504 1.3862	0.8896 1.2581 1.4066 1.4753 1.7792
Qstd slop intercept coefficie y axis =	t (b) = ent (r) =	2.10326 -0.06696 0.99989 	Qa slope intercept coefficie y axis =	(b) =	1.31703 -0.04232 0.99989

#### CALCULATIONS

Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta) Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa] Qa = Va/Time

For subsequent flow rate calculations:

Qstd =  $1/m\{ [SQRT(H2O(Pa/760)(298/Ta))] - b \}$ Qa =  $1/m\{ [SQRT(H2O(Ta/Pa)] - b \}$ 



Sun Creation Engineering Limited

**Calibration and Testing Laboratory** 

## Certificate of Calibration 校正證書

Certificate No. : C164166 證書編號

Description / 儀 Manufacturer / 集 Model No. / 型勁 Serial No. / 編號 Supplied By / 委	製造商 : 乾 : 託者 :	Precision Integrating Sour Rion NL-18 00360030 Envirotech Services Co. Room 113, 1/F, My Loft, New Territories, Hong Ko	nd Level Meter 9 Hoi Wing Road, <sup>2</sup>	Tuen Mun,	: / 收件日期:20 July	201
<b>TEST CONDIT</b> Temperature / 涩 Line Voltage / 賀	度: (23		Rela	tive Humidity / <sup>†</sup>	相對濕度 : (55±)	20)%
TEST SPECIF		測試規範			ĩ	4
DATE OF TES	T / 測試日期	: 29 July 2016				
The results do n	y to the particu ot exceed man	: ular unit-under-test only. uufacturer's specification. subsequent page(s).				
- The Governme	ent of The Hor ologies / Keys varz Laborator				on Laboratory	
Tested By 測試	:	H T Wong Technical Officer				
		2h	Date of I	CG110 .	1 August 2016	

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。



Sun Creation Engineering Limited

Calibration and Testing Laboratory

## Certificate of Calibration 校正證書

Certificate No. : C164166 證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- 2. Self-calibration was performed before the test.
- 3. The results presented are the mean of 3 measurements at each calibration point.
- 4. Test equipment :

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C160077
CL281	Multifunction Acoustic Calibrator	PA160023

- 5. Test procedure : MA101N.
- 6. Results :
- 6.1 Sound Pressure Level
- 6.1.1 Reference Sound Pressure Level

	UU	JT Setting		Applie	d Value	UUT	IEC 60651 Type 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
50 - 110	LA	А	Fast	94.00	1	94.4	± 0.7

#### 6.1.2 Linearity

3

	UU	JT Setting		Applied	Value	UUT
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)
60 - 120	LA	A	Fast	94.00	1	94.4 (Ref.) 104.4
				104.00 114.00		114.4

IEC 60651 Type 1 Spec. :  $\pm$  0.4 dB per 10 dB step and  $\pm$  0.7 dB for overall different.

#### 6.2 Time Weighting

6.2.1 Continuous Signal

	UU	Г Setting		Applie	d Value	UUT	IEC 60651 Type 1	
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	Spec. (dB)	
50 - 110	LA	A	Fast	94.00	1	94.4	Ref.	
			Slow			94.4	± 0.1	

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。

Sun Creation Engineering Limited – Calibration & Testing Laboratory c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong 輝創工程有限公司 – 校正及檢測實驗所 c/o 香港新界屯門與安里一號青山灣機樓四樓 Tel/電話: 2927 2606 Fax/傳真: 2744 8986 E-mail/電郵: callab/@suncreation.com Website/網址: www.suncreation.com



Sun Creation Engineering Limited

Calibration and Testing Laboratory

## Certificate of Calibration 校正證書

Certificate\_No. : C164166 證書編號

#### 6.2.2 Tone Burst Signal (2 kHz)

	UU	T Setting		Appl	ied Value	IEC 60651 Type 1	
Range	Mode	Frequency	Time	Level	Burst	Reading	Spec.
(dB)		Weighting	Weighting	(dB)	Duration	(dB)	(dB)
50 -110	LA	A	Fast	106.00	Continuous	106.0	Ref.
	LAmx				200 ms	105.1	$-1.0 \pm 1.0$
	LA		Slow		Continuous	106.0	Ref.
	LAmx				500 ms	102.4	$-4.1 \pm 1.0$

#### 6.3 Frequency Weighting

#### 6.3.1 A-Weighting

	UU	T Setting		Appl	ied Value	UUT	IEC 60651 Type 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
50 - 110	LA	A	Fast	94.00	31.5 Hz	54.7	$-39.4 \pm 1.5$
					63 Hz	68.0	$-26.2 \pm 1.5$
					125 Hz	78.0	$-16.1 \pm 1.0$
					250 Hz	85.6	$-8.6 \pm 1.0$
					500 Hz	91.1	$-3.2 \pm 1.0$
					1 kHz	94.4	Ref.
					2 kHz	95.7	$+1.2 \pm 1.0$
					4 kHz	95.5	$+1.0 \pm 1.0$
					8 kHz	93.3	-1.1 (+1.5 ; -3.0)
					12.5 kHz	90.1	-4.3 (+3.0 ; -6.0)

6.3.2 C-Weighting

		T Setting		Appl	ied Value	UUT	IEC 60651 Type 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	• (dB)
50 - 110	LC	C	Fast	94.00	31.5 Hz	91.3	$-3.0 \pm 1.5$
					63 Hz	93.5	$-0.8 \pm 1.5$
					125 Hz	94.2	$-0.2 \pm 1.0$
					250 Hz	94.4	$0.0 \pm 1.0$
					500 Hz	94.5	$0.0 \pm 1.0$
					1 kHz	94.4	Ref.
					2 kHz	94.3	$-0.2 \pm 1.0$
12000		101112-0011			4 kHz	93.6	$-0.8 \pm 1.0$
					8 kHz	91.4	-3.0 (+1.5 ; -3.0)
					12.5 kHz	88.1	-6.2 (+3.0 ; -6.0)

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.

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Sun Creation Engineering Limited

Calibration and Testing Laboratory

## Certificate of Calibration 校正證書

Certificate No. : C164166 證書編號

6.4

#### 4 Time Averaging

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1000	UU	T Setting					UUT	IEC 60804		
Range (dB)	Mode	Frequency Weighting	Integrating Time	Freq. (kHz)	Burst Duration (ms)	Burst Duty Factor	Burst Level (dB)	Equivalent Level (dB)	Reading (dB)	Type 1 Spec. (dB)
50 - 110	LAeq	A	10 sec.	4	1	1/10	110	100	100.1	± 0.5
					S - 5 -	$1/10^{2}$		90	89.9	± 0.5
			60 sec.			$1/10^{3}$		80	79.6	± 1.0
			5 min.			1/104		70	69.7	± 1.0

Remarks : - UUT Microphone Model No. : UC-53A & S/N : 307435

- Mfr's Spec. : IEC 60651 Type 1 & IEC 60804 Type 1

Uncertainties of Applied Value :	94 dB	: 31.5 Hz - 125 Hz	: ± 0.35 dB
		250 Hz - 500 Hz	: ± 0.30 dB
		1 kHz	: ± 0.20 dB
		2 kHz - 4 kHz	: ± 0.35 dB
		8 kHz	: ± 0.45 dB
		12.5 kHz	: ± 0.70 dB
	104 dB	: 1 kHz	: ± 0.10 dB (Ref. 94 dB)
	114 dB	: 1 kHz	$\pm 0.10 \text{ dB}$ (Ref. 94 dB)
	Burst ec	uivalent level	$\pm 0.2 \text{ dB}$ (Ref. 110 dB
			continuous sound level)

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

Note :

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.

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.

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-

輝創工程有限公司

Sun Creation Engineering Limited

Calibration and Testing Laboratory

## Certificate of Calibration 校正證書

Certificate No.: C163248 證書編號

ITEM TESTED / 送檢:	項目	(Job No. / 序引編號: IC16-1307)。	Date of Receipt / 收件日期:	10 June 2016
Description / 儀器名稱	:	Sound Level Calibrator		
Manufacturer / 製造商	:	Rion		
Model No. / 型號	:	NC-73		
Serial No. / 編號	:	10997142		
Supplied By / 委託者	:	Envirotech Services Co.		
		Room 113, 1/F, My Loft, 9 Hoi Wing Ro	ad, Tuen Mun,	
		New Territories, Hong Kong		
	汕			an a
<b>TEST CONDITIONS</b> /				
<b>TEST CONDITIONS</b> / Temperature / 溫度 :		± 2)°C	Relative Humidity / 相對濕度 :	$(55 \pm 20)\%$

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 15 June 2016

#### 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

- Agilent Technologies / Keysight Technologies
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA

Tested By 測試 H T Wong **Technical** Officer

Certified By 核證 Date of Issue 簽發日期 :

17 June 2016

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.

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K C/Lee Project/Engineer



Sun Creation Engineering Limited

Calibration and Testing Laboratory

## Certificate of Calibration 校正證書

Certificate No.: C163248 證書編號

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

Equipment ID CL130 CL281 TST150A

<u>Description</u> Universal Counter Multifunction Acoustic Calibrator Measuring Amplifier <u>Certificate No.</u> C153519 PA160023 C161175

- 4. Test procedure : MA100N.
- 5. Results :

#### 5.1 Sound Level Accuracy

UUT	Measured Value	Mfr's Spec.	Uncertainty of Measured Value
Nominal Value	(dB)	(dB)	(dB)
94 dB, 1 kHz	93.7	± 0.5	± 0.2

#### 5.2 Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	0.985	$1 \text{ kHz} \pm 2 \%$	+ 1

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

Note :

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.

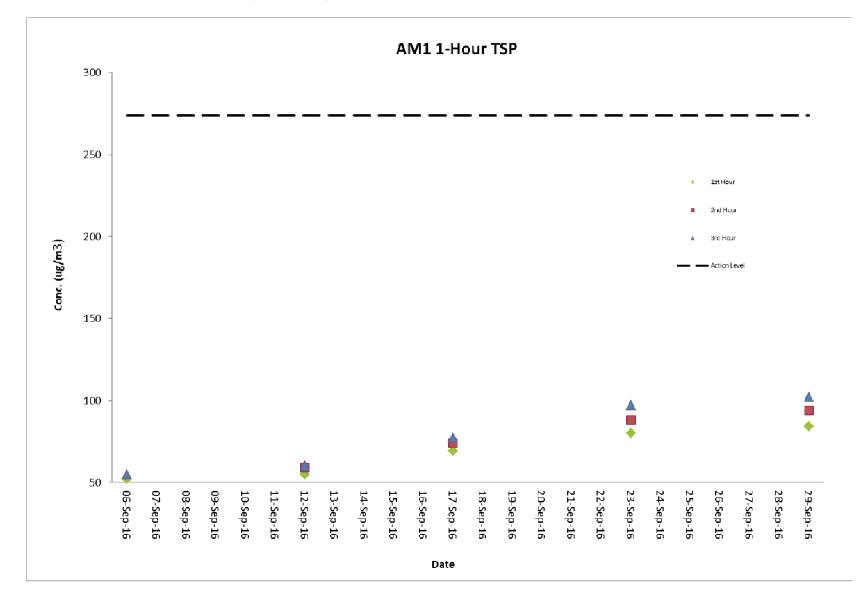
The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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## G. Graphical Plots of the Monitoring Results

				Conc. (µg/m <sup>3</sup> )		Action	Limit
	Weather		. st	end	ord	Level	Level
Date	Condition	Time	1 <sup>st</sup> Hour	2 <sup>nd</sup> Hour	3 <sup>rd</sup> Hour	(µg/m³)	(µg/m³)
06-Sep-16	Rainy	10:42 - 16:00	52	49	55	273.7	500
12-Sep-16	Fine	10:42 - 16:00	55	59	60	273.7	500
17-Sep-16	Sunny	8:05 - 11:05	69	74	77	273.7	500
23-Sep-16	Sunny	10:50 - 16:00	80	88	97	273.7	500
29-Sep-16	Cloudy	10:50 - 16:00	84	94	102	273.7	500

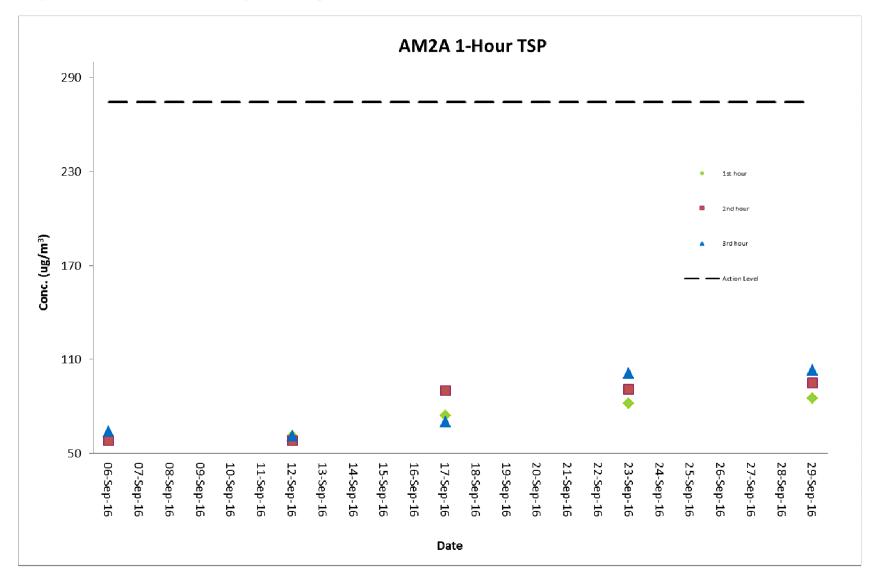
Air Quality Monitoring Result at Station AM1 (1-hour TSP)



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

				Conc. (µg/m <sup>3</sup> )		Action	Limit
	Weather		c†	nd	rd	Level	Level
Date	Condition	Time	1 <sup>st</sup> Hour	2 <sup>nd</sup> Hour	3 <sup>rd</sup> Hour	(µg/m³)	(µg/m³)
06-Sep-16	Rainy	10:52 - 16:10	60	58	64	274.2	500
12-Sep-16	Fine	10:52 - 16:10	61	58	61	274.2	500
17-Sep-16	Sunny	8:15 - 16:10	74	90	70	274.2	500
23-Sep-16	Sunny	11:02 - 16:10	82	91	101	274.2	500
29-Sep-16	Cloudy	11:00 - 16:10	85	95	103	274.2	500

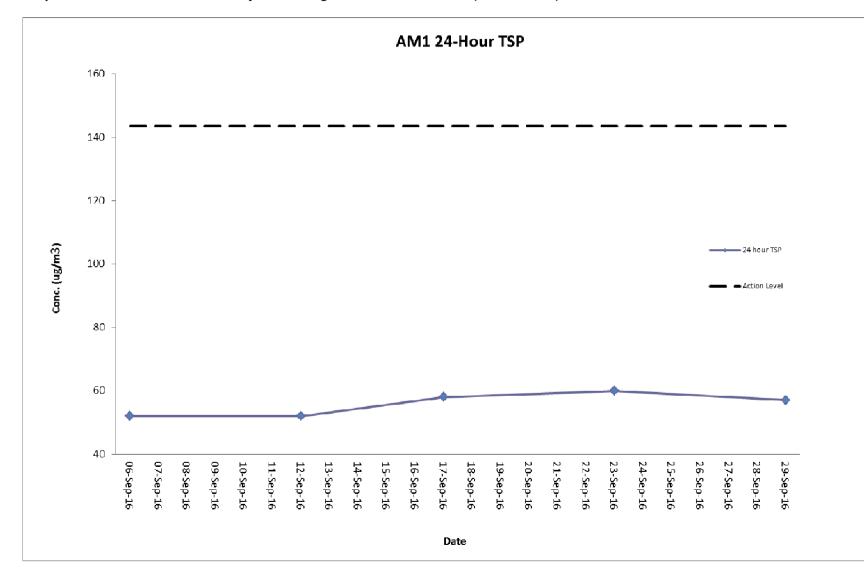
Air Quality Monitoring Result at Station AM2A (1-hour TSP)



Graphical Presentation of Air Quality Monitoring Result at Station AM2A (1-hour TSP)

Star	rt	Finis	sh	Filter W	eight (g)	Elapsed Time Reading		Sampling	Flow Rate (m <sup>3</sup> /min)		Conc.	Weather	Action	Limit	
Date	Time	Date	Time	Initial	Final	Initial	Final	Time (hrs)	Initial	Final	Average	(µg/m³)	Condition	Level	Level
06-Sep-16	10:40	07-Sep-16	10:40	2.7901	2.88	19968.38	19992.38	24	1.2	1.2	1.2	52	Rainy	143.6	260
12-Sep-16	10:40	13-Sep-16	10:40	2.8104	2.9001	19992.38	20016.38	24	1.2	1.2	1.2	52	Fine	143.6	260
17-Sep-16	08:00	18-Sep-16	08:00	2.7912	2.891	20016.38	20040.38	24	1.2	1.2	1.2	58	Sunny	143.6	260
23-Sep-16	10:52	24-Sep-16	10:52	2.794	2.8971	20040.38	20064.38	24	1.2	1.2	1.2	60	Sunny	143.6	260
29-Sep-16	10:48	30-Sep-16	10:48	2.8016	2.9001	20064.38	20088.38	24	1.2	1.2	1.2	57	Cloudy	143.6	260

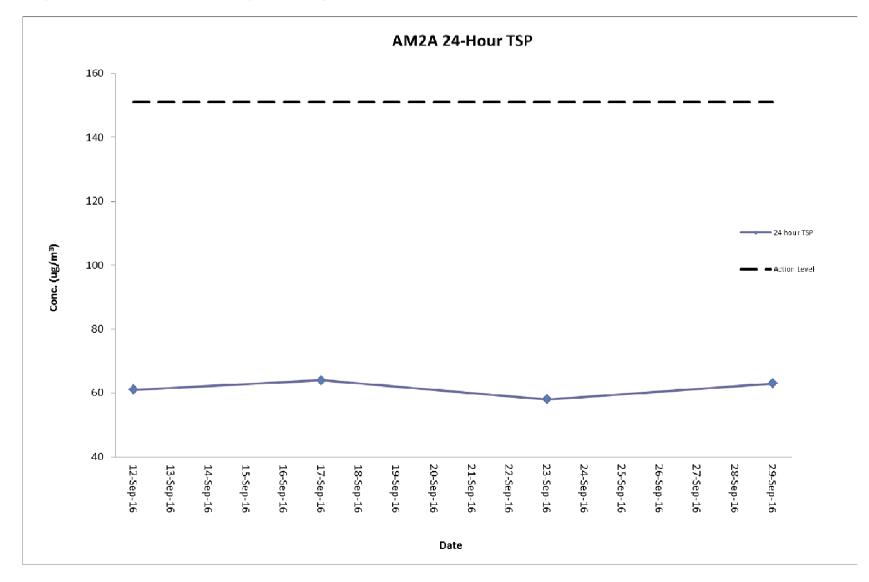
#### Air Quality Monitoring Result at Station AM1 (24-hour TSP)



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

Star	rt	Finis	sh	Elapsed Time Filter Weight (g) Reading		Sampling	Flow Rate (m <sup>3</sup> /min)		Conc.	Weather	Action	Limit			
Date	Time	Date	Time	Initial	Final	Initial	Final	Time (hrs)	Initial	Final	Average	(µg/m³)	Condition	Level	Level
06-Sep-16					Suspended due to Electricity Issue								151.1	260	
12-Sep-16	10:55	13-Sep-16	10:55	2.8009	2.91	15647.59	15671.59	24	1.24	1.24	1.24	61	Fine	151.1	260
17-Sep-16	08:17	18-Sep-16	08:17	2.7999	2.9134	15671.59	15695.59	24	1.24	1.24	1.24	64	Sunny	151.1	260
23-Sep-16	11:04	24-Sep-16	11:04	2.8226	2.9258	15695.59	15719.59	24	1.24	1.24	1.24	58	Sunny	151.1	260
29-Sep-16	11:00	30-Sep-16	11:00	2.7828	2.8956	15719.59	15743.59	24	1.24	1.24	1.24	63	Cloudy	151.1	260

#### Air Quality Monitoring Result at Station AM2A (24-hour TSP)



Graphical Presentation of Air Quality Monitoring Result at Station AM2A (24-hour TSP)

Date	Time	Measured L <sub>10</sub> dB(A)	Measured L <sub>90</sub> dB(A)	L <sub>eq</sub> (30 min.) dB(A)
06-Sep-16	14:00	67.9	63.1	
06-Sep-16	14:05	66.0	62.4	
06-Sep-16	14:10	67.4	63.0	68.3
06-Sep-16	14:15	67.0	62.8	00.5
06-Sep-16	14:20	68.2	64.1	
06-Sep-16	14:25	67.9	63.9	
12-Sep-16	14:00	68.1	64.1	
12-Sep-16	14:05	67.2	63.1	
12-Sep-16	14:10	67.0	63.9	69.2
12-Sep-16	14:15	68.7	64.0	09.2
12-Sep-16	14:20	68.8	64.7	
12-Sep-16	14:25	67.2	63.8	
23-Sep-16	14:00	68.0	64.0	
23-Sep-16	14:05	67.2	63.8	
23-Sep-16	14:10	68.4	64.5	69.5
23-Sep-16	14:15	69.1	65.1	09.5
23-Sep-16	14:20	68.1	64.3	
23-Sep-16	14:25	67.2	63.7	
29-Sep-16	14:00	68.0	64.1	
29-Sep-16	14:05	67.7	63.3	
29-Sep-16	14:10	69.0	64.9	69.3
29-Sep-16	14:15	67.8	63.8	09.3
29-Sep-16	14:20	68.4	64.0	
29-Sep-16	14:25	68.8	64.5	

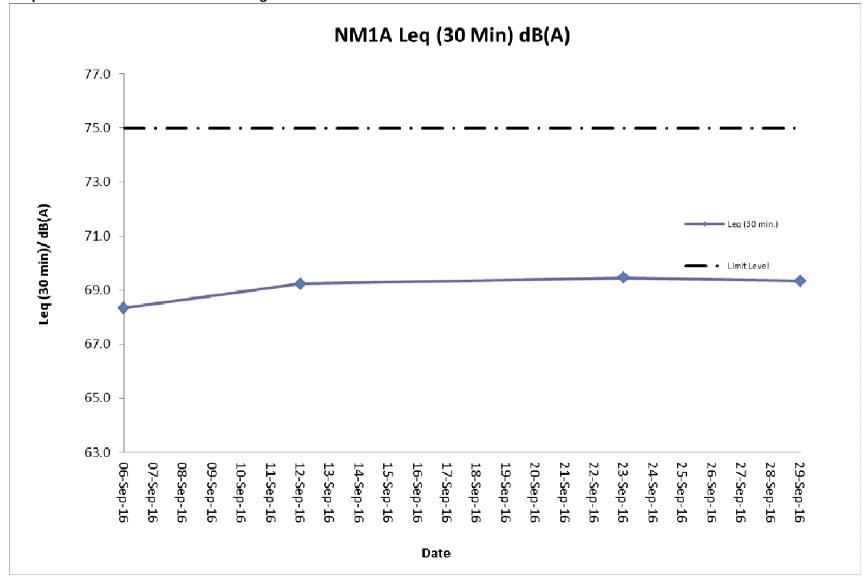
#### Noise Monitoring Result at Station NM1A

#### 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

Table H-1: Extract of Meteorological Observations for King's Park Automatic Weather Station, September 2016

				Hong Kong	g Observa	tory			King's Park	Waglan	Island^
Day	Mean	Air Absolute	Temperat		Mean Dew	Mean Relative	Mean Amount	Total	Total Bright	Prevailin g Wind	Mean Wind
	Pressure (hPa)	Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)	Point (deg. C)	Humidity (%)	of Cloud (%)	Rainfall (mm)	Sunshine (hours)	0	Speed (km/h)
1	1010.3	30.8	27.2	25.4	23.6	81	76	0.5	5	120	15
2	1009.5	29.8	27.6	26.4	23.7	79	79	Trace	2.5	200	22.4
3	1009.7	30.4	28.2	27	24.2	79	81	Trace	5.2	210	19.5
4	1010.1	30.7	28.1	26.9	24.2	79	83	Trace	5.5	210	19.2
5	1008.9	30.5	27.3	24.3	24	82	86	3.9	1.6	200	22.9
6	1008.5	28.9	26.8	24.2	24.3	87	85	0.6	1.3	170	19.4
7	1009.7	30.6	28	26.5	24.8	83	81	0.3	3	180	15
8	1008.7	30.2	28.2	27.1	24.4	80	84	0	1.4	180	22.5
9	1008.5	30.5	27.3	24.2	24.1	83	81	7.3	2.1	210	21.1
10	1009.7	28.8	26.3	24.3	24.5	90	84	20.1	1.1	30	14.1
11	1010.3	29.4	25.6	23.3	24.1	91	85	51	1.9	110	19.4
12	1012.2	29.5	25.7	22.6	20.9	75	78	0	7.6	100	16.1
13	1012.2	28.4	26.4	25.2	23.5	84	85	0	4	100	19.3
14	1012.1	31.9	28.5	26.4	24.3	78	70	Trace	8.4	170	12.5
15	1011.4	32.6	29.1	27.1	24.7	78	73	0	6	200	13.8
16	1009.9	28.6	26.7	24.6	24.5	88	86	18.4	0.5	220	13.1
17	1008.3	29.6	26.4	24.5	24	87	86	5.7	1.4	230	17.2
18	1007.9	29.3	28.2	26.1	24.7	82	88	0.9	0.8	210	23
19	1006.9	29.3	28.6	27.6	25.5	83	88	1.2	0.4	210	32.4
20	1006.2	30	27.9	25.2	25.8	88	90	107.7	0.3	220	34.3
21	1008.4	25.3	24.2	23.1	22.7	92	93	12.6	0	70	41.6
22	1008.8	24.3	23.6	22.9	22.2	92	88	0.7	0	60	30.8
23	1006.2	27.4	24.8	23.9	24.3	97	96	169.4	0	210	18.8
24	1005.8	29	26.6	24.6	25.5	94	88	8.2	0.6	30	6
25	1006.6	32.5	28.4	25.4	25.8	86	78	29.4	5.9	210	8.3
26	1008.3	28.7	26.9	24.6	25.9	95	89	64.6	0	200	11.3
27	1007	31	29.2	27.8	26.3	84	86	0.2	3.3	200	24.4
28	1005.3	31.9	30	28.3	26.2	81	86	1.4	8.3	210	27.3
29	1006.5	32.5	30.3	29.1	26.2	79	83	0	4.8	210	23.5
30	1007.5	32.5	29.6	26.1	26.1	81	79	7	8	230	24
31	1007.3	31.5	29.3	26.7	26.1	83	86	1.9	2.6	220	15.4
Mean/Total	1008.7	29.9	27.5	25.5	24.5	85	84	513	93.5	210	20.1

^ Information of wind direction and wind speed for Waglan Island are based on automatic weather station data since January 1989

Trace means rainfall less than 0.05 mm

§ 1981-2010 Climatological Normal, unless otherwise specified

## I. Waste Flow table

## M+ Museum

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

		Actual Quanti	ties of Inert	C&D Mater	rials Generat	ed Monthly		Act	ual Quantities	of C&D Wa	astes Gene	erated Month	וא
Month	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facilty	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)
2015								-					
Nov	46607.4	0.0	0.0	8240.0	38367.4	0.0	0.0	76.2	0.0	0.0	0.0	0.0	67.6
Dec	29652.9	0.0	0.0	29621.4	31.5	0.0	0.0	26.3	0.0	0.0	0.0	1.0	66.0
Sub-total (2015)	76260.3	0.0	0.0	37861.4	38398.9	0.0	0.0	102.5	0.0	0.0	0.0	1.0	133.6
2016													
Jan	21077.4	0.0	6352.0	14576.0	149.4	0.0	0.0	18.8	0.0	0.0	0.0	0.0	23.2
Feb	7626.2	0.0	3424.0	4048.0	154.2	0.0	0.0	59.8	0.0	0.0	0.0	0.0	20.5
Mar	10442.5	0.0	1600.0	7888.0	954.5	0.0	0.0	29.7	0.0	0.0	0.0	0.0	46.3
Apr	30413.2	0.0	6352.0	23408.0	653.2	0.0	0.0	25.8	0.1	0.0	27.8	0.0	34.5
May	24083.5	0.0	112.0	23216.0	755.5	0.0	0.0	61.5	0.4	0.0	33.6	0.0	62.3
Jun	7880.1	0.0	4736.0	2384.0	760.1	0.0	0.0	106.6	0.1	0.0	14.6	0.0	52.8
Jul	5893.1	0.0	2656.0	2240.0	997.1	0.0	0.0	77.6	0.0	0.0	33.6	0.0	83.1
Aug	13709.6	0.0	0.0	12432.0	1277.6	0.0	0.0	111.3	0.3	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													
Nov													
Dec													
Sub-total (2016)	127827.5	0.0	25232.0	95840.0	6701.6	53.9	0.0	595.3	0.9	0.0	193.6	0.2	535.5
Total	204087.8	0.0	25232.0	133701.4	45100.5	53.9	0.0	697.8	0.9	0.0	193.6	1.2	669.1

#### Note:

-197.91 ton and 802.17 ton of inert C&D material were disposed of as public fill to Tuen Mun Area 38 and Tseung Kwan O Area 137 Public Fill 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.

Lyric Theatre Complex

	Actual Quantities of Inert C&D Materials Generated Monthly				Actual Quantities of C&D Wastes Generated Monthly								
Month	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facilty	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)
2016													
Mar	2702.1	0.0	0.0	0.0	2702.1	0.0	0.0	4.5	0.1	0.0	0.0	0.0	30.6
Apr	8631.5	0.0	0.0	0.0	8631.5	0.0	0.0	16.0	0.0	0.0	0.0	0.0	19.2
May	12487.8	0.0	0.0	0.0	12487.8	0.0	0.0	34.0	0.0	0.0	0.0	0.7	60.5
Jun	8600.8	0.0	0.0	0.0	8600.8	0.0	0.0	31.4	0.1	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	0.0												
Nov	0.0												
Dec	0.0												
Sub-total (2016)	73137.5	0.0	0.0	0.0	73137.5	0.0	0.0	209.0	0.2	0.0	0.0	4.9	157.2
2017													
Jan	0.0												
Feb	0.0												
Mar	0.0												
Apr	0.0												
May	0.0												
Jun	0.0												
Sub-total (2017)	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
Total	73137.5	0.0	0.0	0.0	73137.5	0.0	0.0	209.0	0.2	0.0	0.0	4.9	157.2

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

Note:

-3043.02 ton and 10628.23 ton of inert C&D material were disposed of as public fill to Tuen Mun Area 38 and Tseung Kwan O Area 137 respectively in the reporting month.

## J. Environmental Mitigation Measures – Implementation Status

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

		Implementation Stage		
EM&A Ref.	Recommendation Measures	M+ Museum	Lyric Theatre Complex	
Air Quality I	mpact (Construction)			
2.1 &	General Dust Control Measures			
10.3.1	Frequent water spraying for active construction areas (12 times a day or once every one hour), including Heavy construction activities such as construction of buildings or roads, drilling, ground excavation, cut and fill operations (i.e., earth moving)	Rem	Obs	
2.1 &	Best Practice For Dust Control			
10.3.1	The relevant best practices for dust control as stipulated in the Air Pollution Control (construction Dust) Regulation should be adopted to further reduce the construction dust impacts from the Project. These best practices include:			
	Good Site Management			
	Good site management is important to help reducing potential air quality impact down to an acceptable level. As a general guide, the Contractor should maintain high standard of housekeeping to prevent emission of fugitive dust. Loading, unloading, handling and storage of raw materials, wastes or by-products should be carried out in a manner so as to minimise the release of visible dust emission. Any piles of materials accumulated on or around the work areas should be cleaned up regularly. Cleaning, repair and maintenance of all plant facilities within the work areas should be carried out in a manner minimising generation of fugitive dust emissions. The material should be handled properly to prevent fugitive dust emission before cleaning.	Rem	~	
	Disturbed Parts of the Roads			
	<ul> <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> </ul>	$\checkmark$	$\checkmark$	
	<ul> <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>	$\checkmark$	$\checkmark$	
	Exposed Earth			
	<ul> <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>	N/A	N/A	
	Loading, Unloading or Transfer of Dusty Materials			
	<ul> <li>All dusty materials should be sprayed with water immediately prior to any loading or transfer operation</li> </ul>	$\checkmark$	$\checkmark$	

		Implementation Stage		
EM&A Ref.	Recommendation Measures	M+ Museum	Lyric Theatre Complex	
	so as to keep the dusty material wet.			
	Debris Handling			
	<ul> <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>	$\checkmark$	$\checkmark$	
	<ul> <li>Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped.</li> </ul>	$\checkmark$	$\checkmark$	
	Transport of Dusty Materials	/	,	
	<ul> <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>	v	v	
	Wheel washing			
	<ul> <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>	$\checkmark$	$\checkmark$	
	Use of vehicles			
	<ul> <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>	$\checkmark$	$\checkmark$	
	<ul> <li>Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels.</li> </ul>	$\checkmark$	$\checkmark$	
	<ul> <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>	$\checkmark$	$\checkmark$	
	Site hoarding			
	<ul> <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>	$\checkmark$	$\checkmark$	
2.1 &	Best Practicable Means for Cement Works (Concrete Batching Plant)			
10.3.1	The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Cement Works (Concrete Batching Plant) BPM 3/2(93) should be followed and implemented to further reduce the construction dust impacts of the Project. These best practices include:			
	Exhaust from Dust Arrestment Plant			
	<ul> <li>Wherever possible the final discharge point from particulate matter arrestment plant, where is not</li> </ul>	$\checkmark$	$\checkmark$	

		Impleme	Implementation Stage		
M&A Ref.	Recommendation Measures	M+ Museum	Lyric Theatre Complex		
	necessary to achieve dispersion from residual pollutants, should be at low level to minimise the effect on the local community in the case of abnormal emissions and to facilitate maintenance and inspection				
	Emission Limits				
	<ul> <li>All emissions to air, other than steam or water vapour, shall be colourless and free from persistent mist or smoke</li> </ul>	$\checkmark$	$\checkmark$		
	Engineering Design/Technical Requirements				
	<ul> <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>	$\checkmark$	$\checkmark$		
	Non-Road Mobile Machinery (NRMM):				
	All NRMMs operating on-site which are subject to emission control of Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation are approved/exempted (as the case may be) and affixed with the requisite approval/exemption labels.	$\checkmark$	$\checkmark$		
Noise Impac	t (Construction)				
3.1 & 10.4.1	<b>Good Site Practice</b> 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:				
	<ul> <li>only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works;</li> </ul>	$\checkmark$	$\checkmark$		
	<ul> <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> </ul>	$\checkmark$	$\checkmark$		
	<ul> <li>plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs;</li> </ul>	*	$\checkmark$		
	<ul> <li>mobile plant should be sited as far away from NSRs as possible; and</li> </ul>	✓	✓		
	<ul> <li>material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities.</li> </ul>	↓ ↓	√ √		
3.1 &	Adoption of Quieter PME				
10.4.1	The recommended quieter PME adopted in the assessment were taken from the EPD's QPME Inventory and "Sound Power Levels of Other Commonly Used PME" are presented in <b>Table 4.26</b> in the EIA report. It	N/A	N/A		

		Implementation Stage		
EM&A Ref.	Recommendation Measures	M+ Museum	Lyric Theatre Complex	
	should be noted that the silenced PME selected for assessment can be found in Hong Kong.			
3.1 & 10.4.1	Use of Movable Noise Barriers Movable noise barriers can be very effective in screening noise from particular items of plant when constructing the Project. Noise barriers located along the active works area close to the noise generating component of a PME could produce at least 10 dB(A) screening for stationary plant and 5 dB(A) for mobile plant provided the direct line of sight between the PME and the NSRs is blocked.	✓	~	
3.1 & 10.4.1	Use of Noise Enclosure/ Acoustic Shed The use of noise enclosure or acoustic shed is to cover stationary PME such as air compressor and concrete pump. With the adoption of the noise enclosure, the PME could be completely screened, and noise reduction of 15 dB(A) can be achieved according to the EIAO Guidance Note No.9/2010.	N/A	N/A	
3.1 & 10.4.1	Use of Noise Insulating Fabric Noise insulating fabric can also be adopted for certain PME (e.g. drill rig, pilling machine etc). The fabric should be lapped such that there are no openings or gaps on the joints. According to the approved Tsim Sha Tsui Station Northern Subway EIA report (AEIAR-127/2008), a noise reduction of 10 dB(A) can be achieved for the PME lapped with the noise insulating fabric.	$\checkmark$	✓	
3.1 & 10.4.1	Scheduling of Construction Works outside School Examination Periods During construction phase, the contractor should liaise with the educational institutions (including NSRs LCS and CRGPS) to obtain the examination schedule and avoid the noisy construction activities during school examination periods.	N/A	N/A	
Water Qualit	ty Impact (Construction)			
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:			
	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;	Rem/ Obs	~	
	<ul> <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>	✓	✓	

		Implementation Stage		
EM&A Ref.	Recommendation Measures	M+ Museum	Lyric Theatre Complex	
	<ul> <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> <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>	✓	4	
	All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facility should be provided at construction site exit where practicable. Wash-water should have sand and silt settled out and removed regularly to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.	~	~	
	<ul> <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>	$\checkmark$	$\checkmark$	
	<ul> <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>	$\checkmark$	$\checkmark$	
	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.	$\checkmark$	4	
	<ul> <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	
	Barging facilities and activities			
	Recommendations for good site practices during operation of the proposed barging point include:			
	<ul> <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</li> </ul>	N/A	N/A	

		Implementation Stage		
EM&A Ref.	Recommendation Measures	M+ Museum	Lyric Theatre Complex	
	movement or propeller wash;			
	<ul> <li>Loading of barges and hoppers should be controlled to prevent splashing of material into the</li> </ul>	N/A	N/A	
	surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation;	N/A	N/A	
	<ul> <li>All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; and</li> </ul>	N/A	N/A	
	<ul> <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>			
4.1 &	Sewage effluent from construction workforce			
10.5.1	Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	√	$\checkmark$	
4.1 &	General construction activities			
10.5.1	<ul> <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> </ul>	Obs	✓	
	Oils and fuels should only be stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to any nearby storm water drain, all fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund should be drained of rainwater after a rain event.	Obs	Rem/Obs	
Waste Mana	gement Implications (Construction)			
6.1 &	Good Site Practices			
10.7.1	Recommendations for good site practices during the construction activities include:			
	<ul> <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> </ul>	$\checkmark$	1	
	<ul> <li>Training of site personnel in proper waste management and chemical handling procedures</li> </ul>	1	1	
	<ul> <li>Provision of sufficient waste disposal points and regular collection of waste</li> </ul>	Obs	✓	
	<ul> <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> </ul>	√	✓	
	<ul> <li>Provision of wheel washing facilities before the trucks leaving the works area so as to minimise dust</li> </ul>	$\checkmark$	$\checkmark$	

		Implementation Stage		
EM&A Ref.	Recommendation Measures	M+ Museum	Lyric Theatre Complex	
	introduction to public roads			
	<ul> <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>	$\checkmark$	$\checkmark$	
6.1 &	Waste Reduction Measures			
10.7.1	Recommendations to achieve waste reduction include:			
	<ul> <li>Sort inert C&amp;D material to recover any recyclable portions such as metals</li> </ul>	$\checkmark$	$\checkmark$	
	<ul> <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> </ul>	$\checkmark$	$\checkmark$	
	<ul> <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> </ul>	$\checkmark$	$\checkmark$	
	<ul> <li>Proper site practices to minimise the potential for damage or contamination of inert C&amp;D materials</li> </ul>	,	,	
	<ul> <li>Plan the use of construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste</li> </ul>	$\checkmark$	✓ ✓	
6.1 &	Inert and Non-inert C&D Materials			
10.7.1	In order to minimise impacts resulting from collection and transportation of inert C&D material for off-site disposal, the excavated materials should be reused on-site as fill material as far as practicable. In addition, inert C&D material generated from excavation works could be reused as fill materials in local projects that require public fill for reclamation.	~	$\checkmark$	
	<ul> <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> </ul>	$\checkmark$	$\checkmark$	
	<ul> <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> </ul>	✓	$\checkmark$	
	<ul> <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> </ul>	✓	$\checkmark$	
	<ul> <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</li> </ul>	$\checkmark$	$\checkmark$	

		Implementation Stage		
EM&A Ref.	Recommendation Measures	M+ Museum	Lyric Theatre Complex	
	Materials issued by Development Bureau. In addition, it is also recommended that the Contractor should prepare and implement a Waste Management Plan detailing their various waste arising and waste management practices in accordance with the relevant requirements of the Technical Circular (Works) No. 19/2005 Environmental Management on Construction Site.			
6.1 &	Chemical Waste			
10.7.1	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.	Rem/ Obs	Rem/Obs	
	<ul> <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>	✓	✓	
6.1 &	General Refuse			
10.7.1	General refuse should be stored in enclosed bins or compaction units separated from inert C&D materials. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from inert C&D materials. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.	✓	$\checkmark$	
Land Contar	mination (Construction)			
7.1 & 10.8.1	The potential for land contamination issues at the TST Fire Station due to its future relocation will be confirmed by site investigation after land acquisition. Where necessary, mitigation measures for minimising potential exposure to contaminated materials (if any) or remediation measures will be identified. If contaminated land is identified (e.g., during decommissioning of fuel oil storage tanks) after the commencement of works, mitigation measures are proposed in order to minimise the potentially adverse effects on the health and safety of construction workers and impacts arising from the disposal of potentially contaminated materials.			
	The following measures are proposed for excavation and transportation of contaminated material:			
	<ul> <li>To minimize the chance for construction workers to come into contact with any contaminated materials,</li> </ul>			

		Implementation Stage		
EM&A Ref.	Recommendation Measures	M+ Museum	Lyric Theatre Complex	
	bulk earth-moving excavation equipment should be employed;	N/A	N/A	
	<ul> <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> </ul>	N/A	N/A	
	<ul> <li>Stockpiling of contaminated excavated materials on site should be avoided as far as possible;</li> </ul>	N/A	N/A	
	<ul> <li>The use of contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out;</li> </ul>	N/A	N/A N/A	
	<ul> <li>Vehicles containing any contaminated excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater;</li> </ul>	N/A	N/A	
	<ul> <li>Truck bodies and tailgates should be sealed to stop any discharge;</li> </ul>	N/A	N/A	
	<ul> <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> </ul>	N/A	N/A	
	<ul> <li>Speed control for trucks carrying contaminated materials should be exercised;</li> </ul>	N/A	N/A	
	<ul> <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> </ul>	N/A	N/A	
	<ul> <li>Maintain records of waste generation and disposal quantities and disposal arrangements.</li> </ul>	N/A	N/A	
Ecological Im	apact (Construction)			
	No mitigation measure is required.			
Landscape a	nd Visual Impact (Construction)			
Table 9.1 & 10.8 (CM1)	Trees should be retained in situ on site as far as possible. Should tree removal be unavoidable due to construction impacts, trees will be transplanted or felled with reference to the stated criteria in the Tree Removal Applications to be submitted to relevant government departments for approval in accordance to ETWB TCW No. 29/2004 and 3/2006.	Obs	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 &	Softscape treatments such as vertical green wall panel /planting of climbing and/or weeping plants, etc, to	N/A	N/A	

		Implementation Stage		
EM&A Ref.	Recommendation Measures	M+ Museum	Lyric Theatre Complex	
10.8 (CM4)	maximize the green coverage and soften the hard architectural and engineering structures and facilities.			
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	
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 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	~	$\checkmark$	
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	~	$\checkmark$	
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 foundation works) to the end of the reporting month and are summarized 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 Statistic	S
	Complaints	Notifications of summons	Successful prosecutions
This reporting month	0	0	0
From 31 October 2015 to end of the reporting month	3	0	0

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

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	2	0	0